

WARNING
Backcharges Will Not Be Accepted
Regardless of Fault Without Prior
Notification By Customer Within 48
Hours And Investigation By
Builders FirstSource.
NO EXCEPTIONS.

IMPORTANT
This Drawing Must Be Approved And
Returned Before Fabrication Will
Begin. For Your Protection Check All
Dimensions And Conditions Prior To
Approval Of Plan.
SIGNATURE BELOW INDICATES ALL
NOTES AND DIMENSIONS HAVE
BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING: TCLL: 20 TCDL: 7 BCLL: 0 BCDL: 10 DURATION: 1.25
FLOOR LOADING: TCLL: 40-50-50 TCDL: 15 BCLL: 0 BCDL: 5 DURATION: 1.00
5 PSF TCCL + 5 PSF BCDL USED TO RESIST UPLIFT
ENCLOSED EXPOSURE CATEGORY C OCCUPANCY CATEGORY II WIND LOAD 130mph WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 10/12
CEILING PITCH: 6/12
TOP CHORD SIZE: 2 X 4min
BOTTOM CHORD SIZE: 2 X 4min
OVERHANG LENGTH: 18"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE:FBC 2023

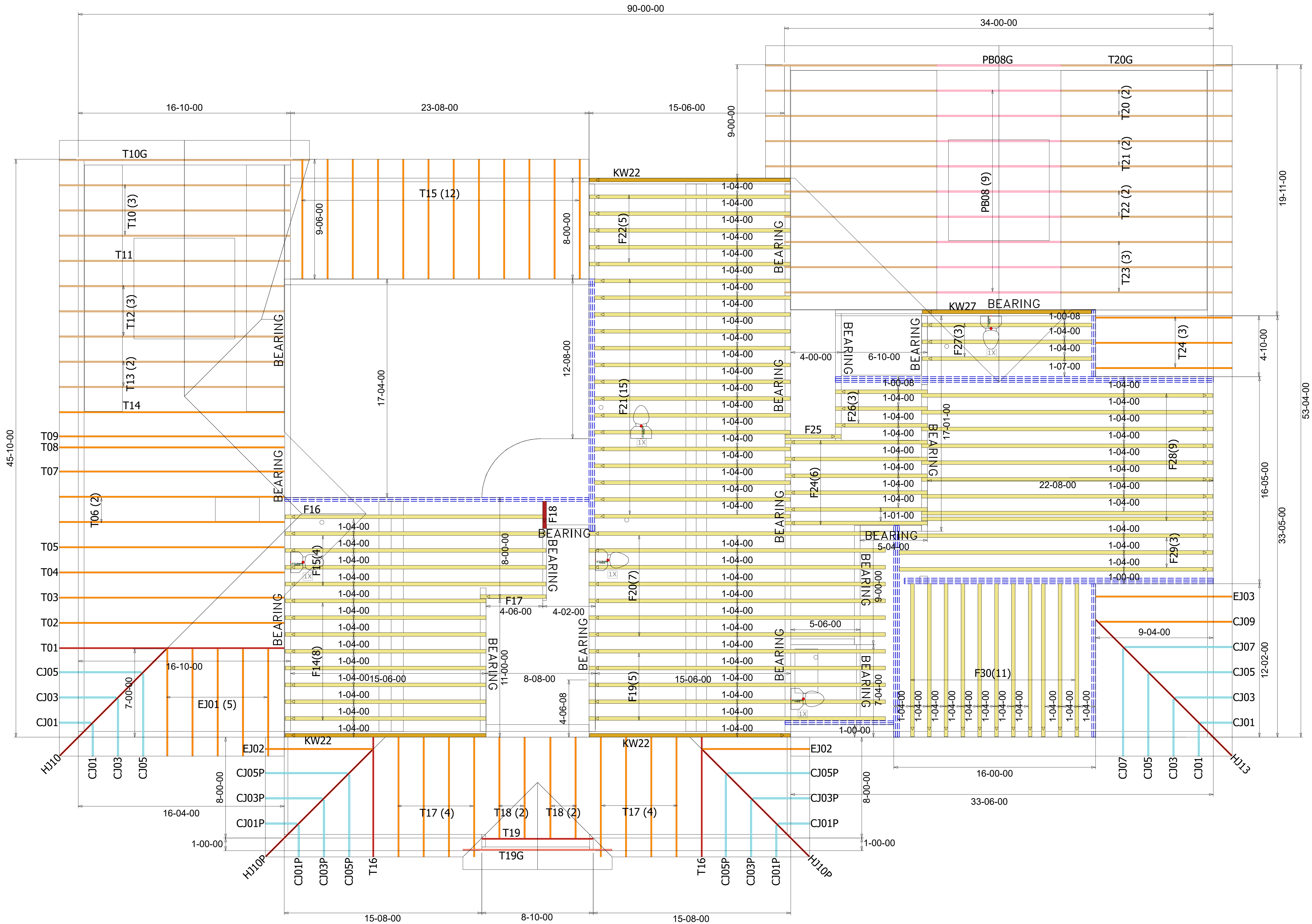
BEARING HEIGHT SCHEDULE	

BUILDER:	
NEYLON	
MODEL:	Custom
ELEV:	Hip/Gable
ADDRESS:	TBD
LOT / BLOCK:	LOT/BLOCK
SUBDIVISION:	SUBDIVISION
CITY:	Columbia Cty
DRAWN BY:	KLH
JOB # :	
DATE: 11/12/2024	SCALE: N.T.S.

REVISIONS:



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.



WARNING
Backcharges Will Not Be Accepted
Regardless of Fault Without Prior
Notification By Customer Within 48
Hours And Investigation By
Builders FirstSource.
NO EXCEPTIONS.

IMPORTANT
This Drawing Must Be Approved And
Returned Before Fabrication Will
Begin. For Your Protection Check All
Dimensions And Conditions Prior To
Approval Of Plan.
SIGNATURE BELOW INDICATES ALL
NOTES AND DIMENSIONS HAVE
BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING: TCLL: 20 FLOOR LOADING: TCLL: 40-50-50
TCDL: 7 TCDL: 15
BCLL: 0 BCLL: 0
BCDL: 10 BCDL: 5
DURATION: 1.25 DURATION: 1.00

5 PSF TCCL + 5 PSF BCDL USED TO RESIST UPLIFT

ENCLOSED
EXPOSURE CATEGORY C
OCCUPANCY CATEGORY II
WIND LOAD 130mph
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 10/12
CEILING PITCH: 6/12
TOP CHORD SIZE: 2 X 4min
BOTTOM CHORD SIZE: 2 X 4min
OVERHANG LENGTH: 18"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE:FBC 2023

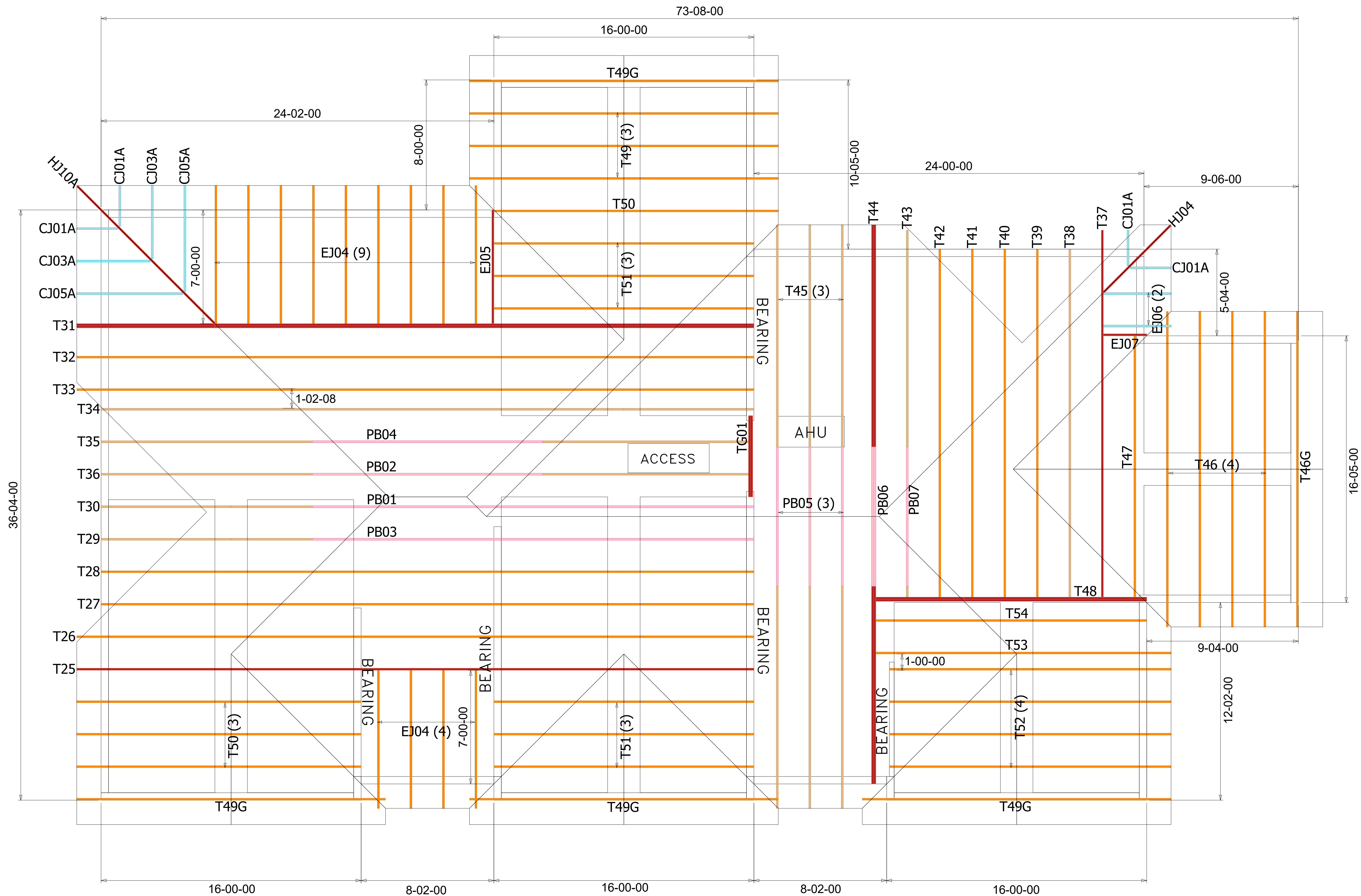
BEARING HEIGHT SCHEDULE	

BUILDER:	
NEYLON	
MODEL:	Custom
ELEV:	Hip/Gable
ADDRESS:	TBD
LOT / BLOCK:	LOT/BLOCK
SUBDIVISION:	SUBDIVISION
CITY:	Columbia Cty
DRAWN BY:	KLH
JOB # :	
DATE: 11/12/2024	SCALE: N.T.S.

REVISIONS:	



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.



WARNING
Backcharges Will Not Be Accepted
Regardless of Fault Without Prior
Notification By Customer Within 48
Hours And Investigation By
Builders FirstSource.
NO EXCEPTIONS.

IMPORTANT
This Drawing Must Be Approved And
Returned Before Fabrication Will
Begin. For Your Protection Check All
Dimensions And Conditions Prior To
Approval Of Plan.
SIGNATURE BELOW INDICATES ALL
NOTES AND DIMENSIONS HAVE
BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING: TCLL: 20 FLOOR LOADING: TCLL: 40-50-50
TCDL: 7 TCDD: 15
BCLL: 0 BCDD: 0
BCDL: 10 BCDD: 5
DURATION: 1.25 DURATION: 1.00

5 PSF TCDD + 5 PSF BCDD USED TO RESIST UPLIFT

ENCLOSED
EXPOSURE CATEGORY C
OCCUPANCY CATEGORY II
WIND LOAD 130mph
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 10/12
CEILING PITCH: 6/12
TOP CHORD SIZE: 2 X 4min
BOTTOM CHORD SIZE: 2 X 4min
OVERHANG LENGTH: 18"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE:FBC 2023

BEARING HEIGHT SCHEDULE	

BUILDER:	
NEYLON	
MODEL:	Custom
ELEV:	Hip/Gable
ADDRESS:	TBD
LOT / BLOCK:	LOT/BLOCK
SUBDIVISION:	SUBDIVISION
CITY:	Columbia Cty
DRAWN BY:	KLH
JOB # :	
DATE: 11/12/2024	SCALE: N.T.S.

REVISIONS:	



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.



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

RE: 4371416 - NEYLON RES.

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

Site Information:

Customer Info: BUTCH NEYLON Project Name: Neylon Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 356 NE Nature Drive, N/A
City: Columbia City State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: 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: 55.0 psf

This package includes 134 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.

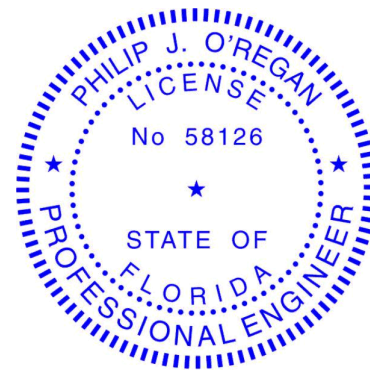
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35758703	CJ01	12/9/24	15	T35758717	EJ04	12/9/24
2	T35758704	CJ01A	12/9/24	16	T35758718	EJ05	12/9/24
3	T35758705	CJ01P	12/9/24	17	T35758719	EJ06	12/9/24
4	T35758706	CJ03	12/9/24	18	T35758720	EJ07	12/9/24
5	T35758707	CJ03A	12/9/24	19	T35758721	F01	12/9/24
6	T35758708	CJ03P	12/9/24	20	T35758722	F02	12/9/24
7	T35758709	CJ05	12/9/24	21	T35758723	F03	12/9/24
8	T35758710	CJ05A	12/9/24	22	T35758724	F04	12/9/24
9	T35758711	CJ05P	12/9/24	23	T35758725	F05	12/9/24
10	T35758712	CJ07	12/9/24	24	T35758726	F06	12/9/24
11	T35758713	CJ09	12/9/24	25	T35758727	F07	12/9/24
12	T35758714	EJ01	12/9/24	26	T35758728	F08	12/9/24
13	T35758715	EJ02	12/9/24	27	T35758729	F09	12/9/24
14	T35758716	EJ03	12/9/24	28	T35758730	F10	12/9/24

This item has been digitally signed and sealed by ORegan, Philip, 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: ORegan, Philip
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.



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024



RE: 4371416 - NEYLON RES.

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

Site Information:

Customer Info: BUTCH NEYLON Project Name: Nylon Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 356 NE Nature DRive, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
29	T35758731	F10G	12/9/24	86	T35758788	T11	12/9/24
30	T35758732	F11	12/9/24	87	T35758789	T12	12/9/24
31	T35758733	F12	12/9/24	88	T35758790	T13	12/9/24
32	T35758734	F13	12/9/24	89	T35758791	T14	12/9/24
33	T35758735	F14	12/9/24	90	T35758792	T15	12/9/24
34	T35758736	F15	12/9/24	91	T35758793	T16	12/9/24
35	T35758737	F16	12/9/24	92	T35758794	T17	12/9/24
36	T35758738	F17	12/9/24	93	T35758795	T18	12/9/24
37	T35758739	F18	12/9/24	94	T35758796	T19	12/9/24
38	T35758740	F19	12/9/24	95	T35758797	T19G	12/9/24
39	T35758741	F20	12/9/24	96	T35758798	T20	12/9/24
40	T35758742	F21	12/9/24	97	T35758799	T20G	12/9/24
41	T35758743	F22	12/9/24	98	T35758800	T21	12/9/24
42	T35758744	F24	12/9/24	99	T35758801	T22	12/9/24
43	T35758745	F25	12/9/24	100	T35758802	T23	12/9/24
44	T35758746	F26	12/9/24	101	T35758803	T24	12/9/24
45	T35758747	F27	12/9/24	102	T35758804	T25	12/9/24
46	T35758748	F28	12/9/24	103	T35758805	T26	12/9/24
47	T35758749	F29	12/9/24	104	T35758806	T27	12/9/24
48	T35758750	F30	12/9/24	105	T35758807	T28	12/9/24
49	T35758751	HJ04	12/9/24	106	T35758808	T29	12/9/24
50	T35758752	HJ10	12/9/24	107	T35758809	T30	12/9/24
51	T35758753	HJ10A	12/9/24	108	T35758810	T31	12/9/24
52	T35758754	HJ10P	12/9/24	109	T35758811	T32	12/9/24
53	T35758755	HJ13	12/9/24	110	T35758812	T33	12/9/24
54	T35758756	KW1	12/9/24	111	T35758813	T34	12/9/24
55	T35758757	KW3	12/9/24	112	T35758814	T35	12/9/24
56	T35758758	KW4	12/9/24	113	T35758815	T36	12/9/24
57	T35758759	KW5	12/9/24	114	T35758816	T37	12/9/24
58	T35758760	KW6	12/9/24	115	T35758817	T38	12/9/24
59	T35758761	KW7	12/9/24	116	T35758818	T39	12/9/24
60	T35758762	KW9	12/9/24	117	T35758819	T40	12/9/24
61	T35758763	KW10	12/9/24	118	T35758820	T41	12/9/24
62	T35758764	KW12	12/9/24	119	T35758821	T42	12/9/24
63	T35758765	KW13	12/9/24	120	T35758822	T43	12/9/24
64	T35758766	KW22	12/9/24	121	T35758823	T44	12/9/24
65	T35758767	KW27	12/9/24	122	T35758824	T45	12/9/24
66	T35758768	PB01	12/9/24	123	T35758825	T46	12/9/24
67	T35758769	PB02	12/9/24	124	T35758826	T46G	12/9/24
68	T35758770	PB03	12/9/24	125	T35758827	T47	12/9/24
69	T35758771	PB04	12/9/24	126	T35758828	T48	12/9/24
70	T35758772	PB05	12/9/24	127	T35758829	T49	12/9/24
71	T35758773	PB06	12/9/24	128	T35758830	T49G	12/9/24
72	T35758774	PB07	12/9/24	129	T35758831	T50	12/9/24
73	T35758775	PB08	12/9/24	130	T35758832	T51	12/9/24
74	T35758776	PB08G	12/9/24	131	T35758833	T52	12/9/24
75	T35758777	T01	12/9/24	132	T35758834	T53	12/9/24
76	T35758778	T02	12/9/24	133	T35758835	T54	12/9/24
77	T35758779	T03	12/9/24	134	T35758836	TG01	12/9/24
78	T35758780	T04	12/9/24				
79	T35758781	T05	12/9/24				
80	T35758782	T06	12/9/24				
81	T35758783	T07	12/9/24				
82	T35758784	T08	12/9/24				
83	T35758785	T09	12/9/24				
84	T35758786	T10	12/9/24				
85	T35758787	T10G	12/9/24				

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758703
4371416	CJ01	Jack-Open	4	1	Job Reference (optional)	

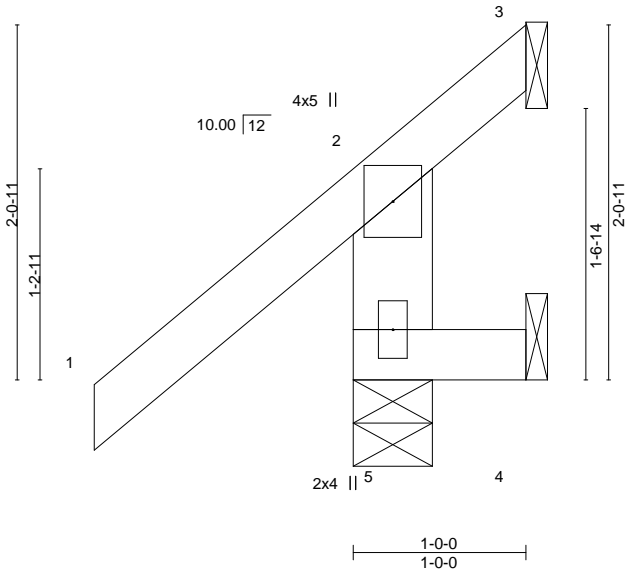
Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:17 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-f6es5d0?SYTCdTP70sZztBilpl_tyWDe1mRltgyAnLG



Scale = 1:13.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.00 5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00 5	>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/TPJ2014		Matrix-MR					Weight: 9 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 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=86(LC 9)
Max Uplift 5=-79(LC 12), 3=-44(LC 1), 4=-34(LC 20)
Max Grav 5=228(LC 1), 3=20(LC 8), 4=23(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-179/373

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 5, 44 lb uplift at joint 3 and 34 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758704
4371416	CJ01A	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:17 2024 Page 1

ID;j1GsU3rqen88z_VCSO8tWpyLf0E-f6es5d0?SYTCdTP70sZztBioElzwyWDe1mRltgyAnLG



Scale = 1:12.9

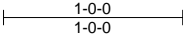
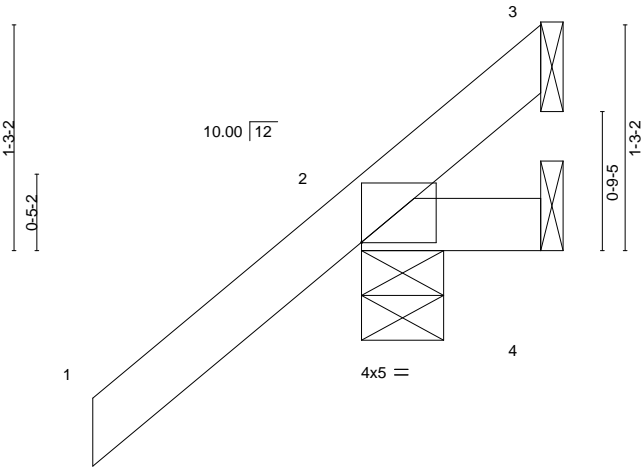


Plate Offsets (X,Y)--	[2:0-0-0,0-0-1]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL 1.25	TC 0.43	Vert(LL) -0.00	7	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL 1.25	BC 0.13	Vert(CT) 0.00	7	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	2	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP					Weight: 7 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=0-5-8, 4=Mechanical
Max Horz 2=106(LC 12)
Max Uplift 3=-4(LC 13), 2=-133(LC 12), 4=-22(LC 19)
Max Grav 3=13(LC 8), 2=179(LC 1), 4=41(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=35ft; Cat. II; Exp C; 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 4 lb uplift at joint 3, 133 lb uplift at joint 2 and 22 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758705
4371416	CJ01P	JACK-OPEN	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:18 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7lCEJz0dDrb3Ed_JZa4CQPF?L9LahzToFQAIP6yAnLF



Scale = 1:5.9

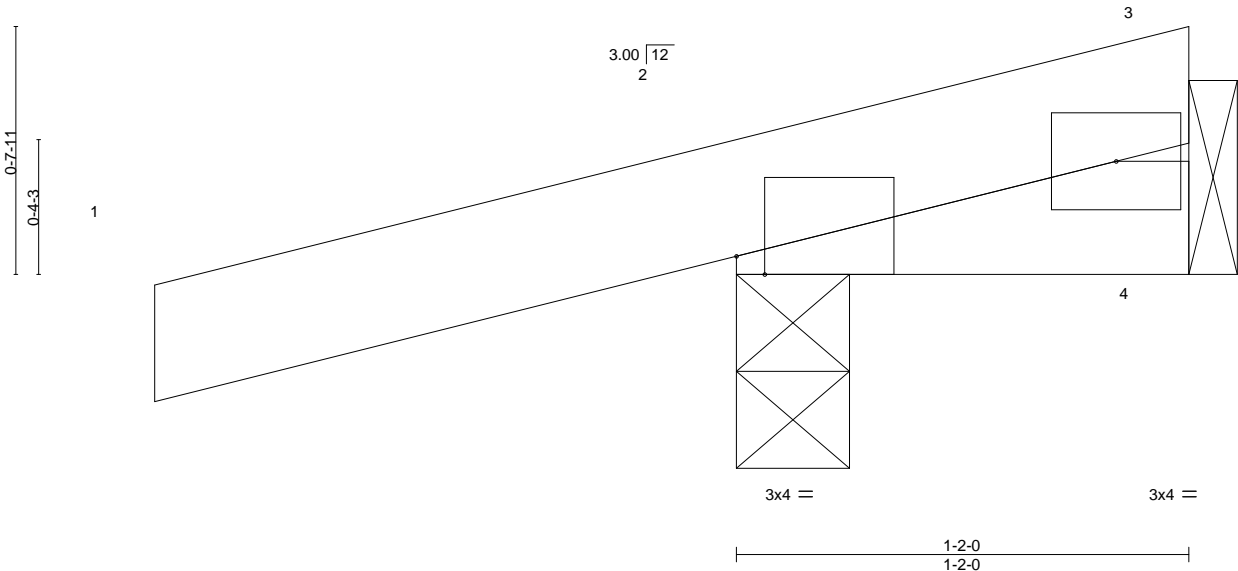


Plate Offsets (X,Y)--		[2:0-0-14,Edge]									
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)	
TCLL	20.0	Plate Grip DOL		1.25		TC		0.28		l/defl	
TCDL	7.0	Lumber DOL		1.25		BC		0.04		L/d	
BCLL	0.0 *	Rep Stress Incr		YES		WB		0.00		>999	
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MP				180	
										n/a	
										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 1-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 2=203(LC 8), 4=16(LC 1)
Max Grav 2=176(LC 1), 4=28(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=35ft; Cat. II; Exp C; 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 203 lb uplift at joint 2 and 16 lb uplift at joint 4.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

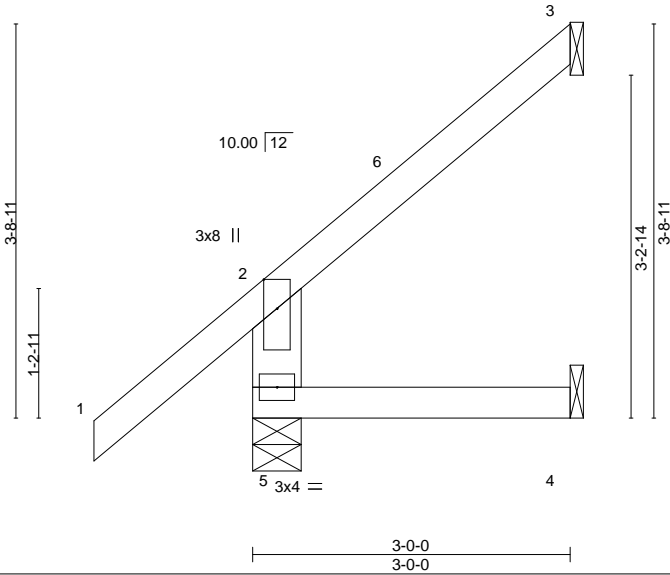
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	CJ03	Jack-Open	4	1	T35758706
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:18 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7ICEJz0dDrb3Ed_JZa4CQPFwZ9G9hzToFQAIP6yAnLF



Scale = 1:21.8



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 0.59	Vert(LL)	0.01 4-5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.01 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03 3	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MR					Weight: 16 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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=174(LC 12)
Max Uplift 5=-38(LC 12), 3=-114(LC 12), 4=-28(LC 12)
Max Grav 5=223(LC 1), 3=80(LC 19), 4=47(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-188/308

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 5, 114 lb uplift at joint 3 and 28 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	CJ03A	Jack-Open	2	1	T35758707
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:18 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7ICEJz0dDrb3Ed_JZa4CQPFz_9KZhZToFQAIP6yAnLF

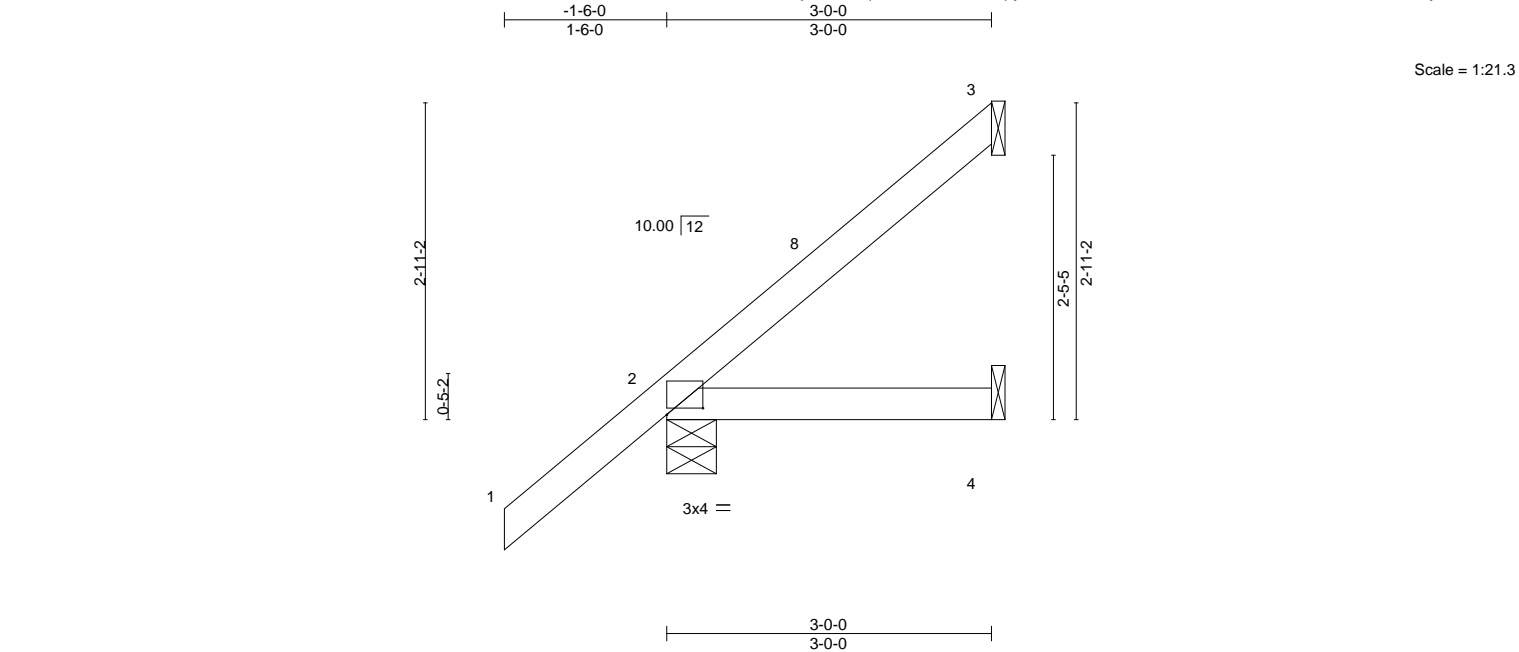


Plate Offsets (X,Y)-- [2:0-4-0,0-0-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.01 4-7 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01 4-7 >999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP					Weight: 14 lb FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=196(LC 12)
Max Uplift 3=94(LC 12), 2=85(LC 12), 4=2(LC 12)
Max Grav 3=79(LC 19), 2=210(LC 1), 4=51(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=35ft; Cat. II; Exp C; 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;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 94 lb uplift at joint 3, 85 lb uplift at joint 2 and 2 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	CJ05	Jack-Open	4	1	T35758709
Job Reference (optional)					

Builders FirstSource (Lake City,FL),

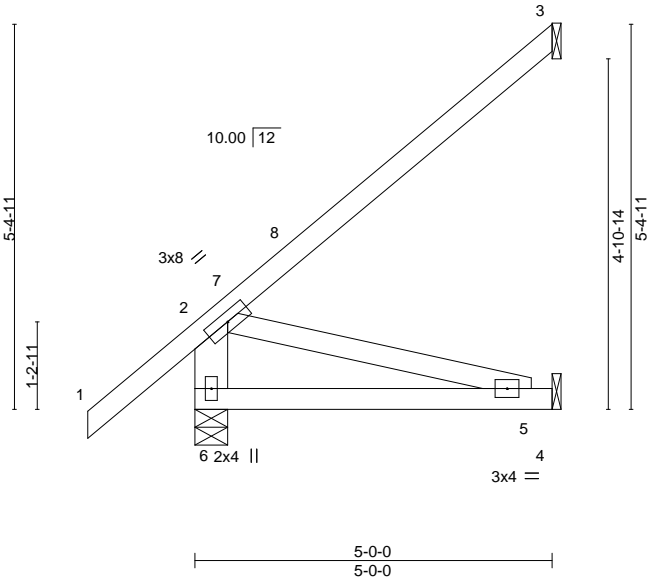
Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:19 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-bUmdWJ1F_9jwsnZW7HbRycn3lYdEQOExU4wsxZyAnLE



Scale: 3/8"=1'



LOADING (psf)	SPACING-		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75		Vert(LL)	-0.03 5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.27		Vert(CT)	-0.06 5-6	>958	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16		Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MP						Weight: 29 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-7 oc bracing.

REACTIONS.

(size) 6=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 6=267(LC 12)
Max Uplift 6=-34(LC 12), 3=-180(LC 12), 4=-49(LC 12)
Max Grav 6=285(LC 1), 3=145(LC 19), 4=94(LC 3)

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

TOP CHORD 2-6=-238/259
BOT CHORD 5-6=-519/177
WEBS 2-5=-182/534

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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; 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 34 lb uplift at joint 6, 180 lb uplift at joint 3 and 49 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	CJ05A	Jack-Open	2	1	T35758710
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:20 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-3hK?je2uITrnUx8ih?6gVqKFzyxj9ty5jkfPT?yAnLD

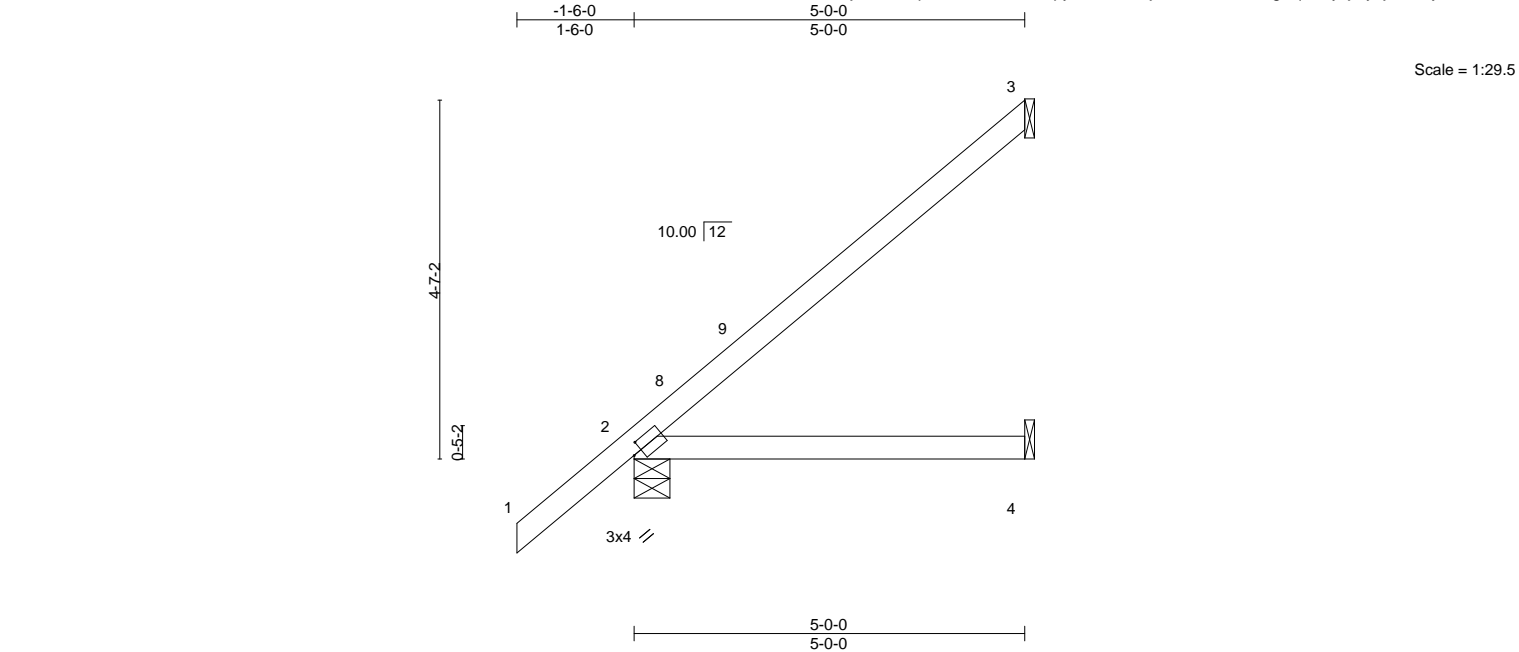


Plate Offsets (X,Y)--	[2:0-1-6,0-1-8]	
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	
	TC	0.66
	BC	0.45
	WB	0.00
	Matrix-MP	
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	0.06 4-7 >938 240
	Vert(CT)	-0.07 4-7 >854 180
	Horz(CT)	-0.01 3 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 20 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=0-5-8, 4=Mechanical
Max Horz 2=289(LC 12)
Max Uplift 3=-171(LC 12), 2=-77(LC 12), 4=-15(LC 12)
Max Grav 3=145(LC 19), 2=276(LC 1), 4=90(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=35ft; Cat. II; Exp C; 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;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 171 lb uplift at joint 3, 77 lb uplift at joint 2 and 15 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758711
4371416	CJ05P	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:20 2024 Page 1
ID:j1GsU3rqn88z_VCSO8tWpyLf0E-3hK?je2ulTrnUx8ih?6gVqKJHyyz9ty5jkfPT?yAnLD



Scale = 1:12.3

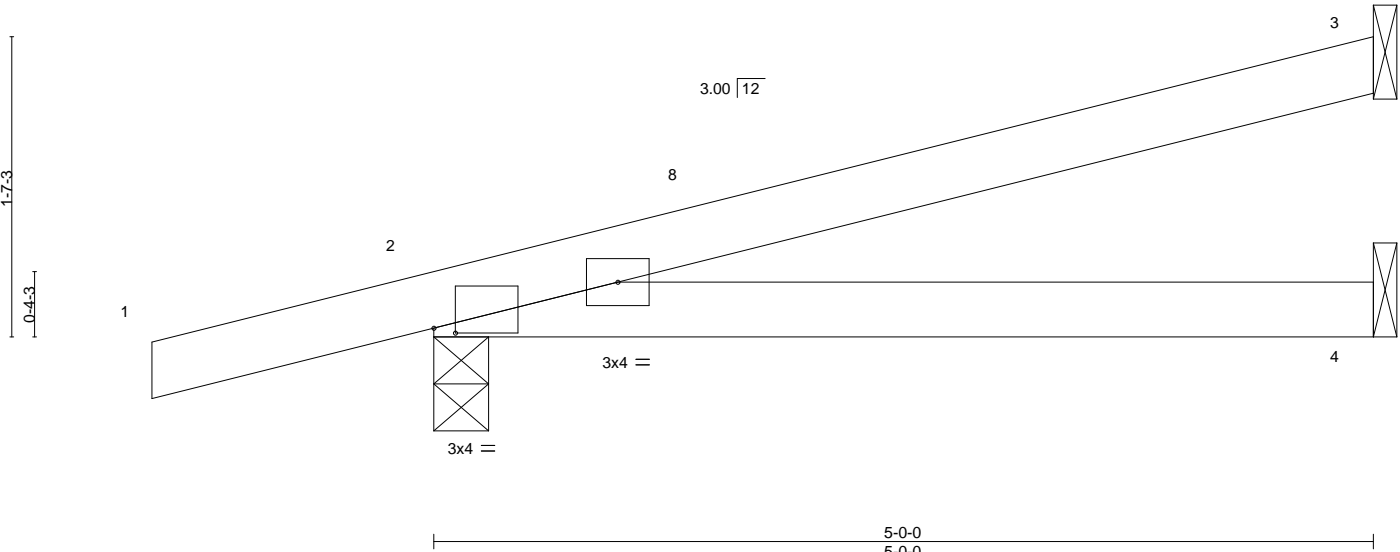


Plate Offsets (X,Y)--		[2:0-1-6,0-0-5]									
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)	
TCLL 20.0		Plate Grip DOL		1.25		TC 0.44		Vert(LL) 0.08		4-7 >705	
TCDL 7.0		Lumber DOL		1.25		BC 0.37		Vert(CT) 0.07		4-7 >809	
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.00		Horz(CT) -0.00		3 n/a	
BCDL 10.0		Code FBC2023/TPI2014				Matrix-MP					
										PLATES	
										MT20	
										GRIP	
										244/190	
										Weight: 18 lb	
										FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	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=97(LC 8)
Max Uplift 3=-103(LC 8), 2=-273(LC 8), 4=-58(LC 8)
Max Grav 3=110(LC 1), 2=276(LC 1), 4=85(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=35ft; Cat. II; Exp C; 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 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 103 lb uplift at joint 3, 273 lb uplift at joint 2 and 58 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:20 2024 Page 1

12,1000,quency=1000

1000 3000 7000

-1.6-0 3.6-0 7.0-0

1.6-0 3.6-0 3.6-0

The diagram illustrates a roof truss system with the following components and dimensions:

- Members:**
 - Member 1: Left roof slope.
 - Member 2: Vertical support at the left end of the bottom chord.
 - Member 3: Vertical support at the peak of the truss.
 - Member 4: Right roof slope.
 - Member 5: Horizontal bottom chord.
 - Member 6: Vertical support at the right end of the bottom chord.
 - Member 7: Vertical support at the left end of the bottom chord.
 - Member 8: Diagonal member from the left support to the peak.
 - Member 9: Diagonal member from the peak to the right support.
 - Member 10: Top horizontal chord.
- Dimensions:**
 - Left vertical height: 7'-0" (total) and 4'-2" (from bottom support to peak).
 - Right vertical height: 6'-6" (from bottom support to peak).
 - Horizontal span: 7'-0" (from left support to right support).
 - Horizontal distance from left support to peak: 10'-0" (labeled 12' in the original image).
 - Horizontal distance from peak to right support: 7'-0" (labeled 7'-0" in the original image).
- Labels and Notes:**
 - 3x6 || (parallel to member 1)
 - 4x5 // (parallel to member 4)
 - 3x6 = (equal to member 2)
 - 3x4 = (equal to member 5)

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.

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCp=-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; 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 101 lb uplift at joint 4, 184 lb uplift at joint 5 and 45 lb uplift at joint 7.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

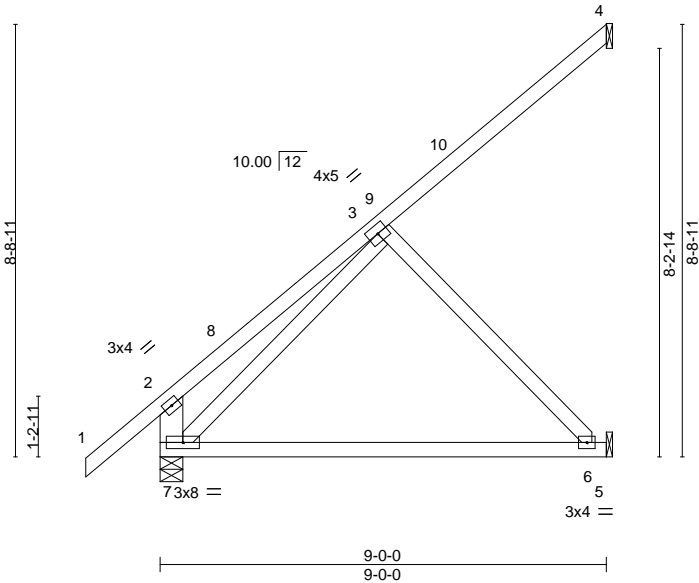
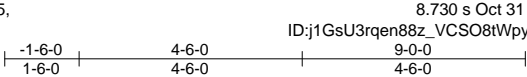
December 9, 2024



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	CJ09	Jack-Partial	1	1	T35758713
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.24	6-7	>440	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.48	6-7	>217	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS						Weight: 54 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *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=0-5-8
Max Horz 7=412(LC 12)
Max Uplift 4=-106(LC 12), 5=-213(LC 12), 7=-60(LC 12)
Max Grav 4=129(LC 19), 5=268(LC 19), 7=425(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-319/394, 2-3=-303/176
BOT CHORD 6-7=-313/212
WEBS 3-7=-304/284, 3-6=-306/451

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-11-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 4, 213 lb uplift at joint 5 and 60 lb uplift at joint 7.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

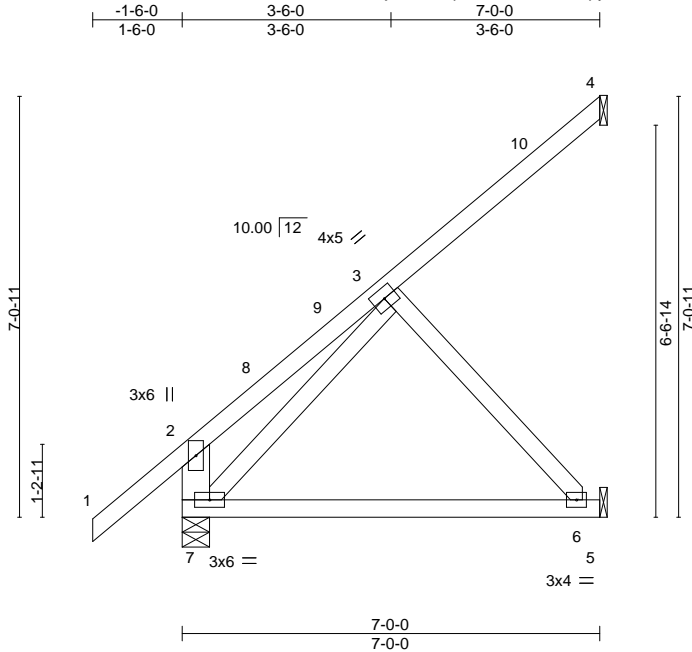
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	EJ01	Jack-Partial	5	1	T35758714
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:21 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-XtuNx_3WWWmze55iuFidv11tShMGmuJDEyOPy0RyAnLC



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)	-0.08 6-7	>956	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.17 6-7	>471	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS					Weight: 43 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=0-5-8
Max Horz 7=347(LC 12)
Max Uplift 4=-101(LC 12), 5=-184(LC 12), 7=-45(LC 12)
Max Grav 4=102(LC 19), 5=203(LC 19), 7=354(LC 1)

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

TOP CHORD 2-7=-235/387
BOT CHORD 6-7=-284/177
WEBS 3-6=-263/422, 3-7=-260/205

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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; 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 101 lb uplift at joint 4, 184 lb uplift at joint 5 and 45 lb uplift at joint 7.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

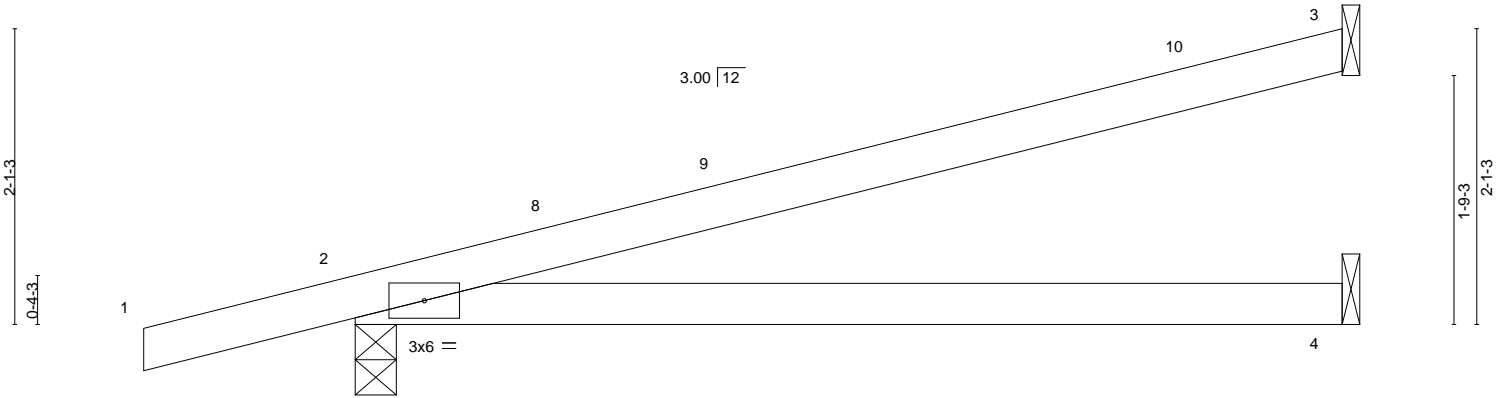
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758715
4371416	EJ02	Jack-Partial	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:22 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-03RI8K38G45VjFH4oQ98aFPXBmZOdSNA28WYtyAnLB



Scale = 1:16.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	0.31	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	0.26				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 24 lb		FT = 20%	

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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=125(LC 8)
Max Uplift 3=152(LC 8), 2=333(LC 8), 4=85(LC 8)
Max Grav 3=162(LC 1), 2=346(LC 1), 4=122(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 152 lb uplift at joint 3, 333 lb uplift at joint 2 and 85 lb uplift at joint 4.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

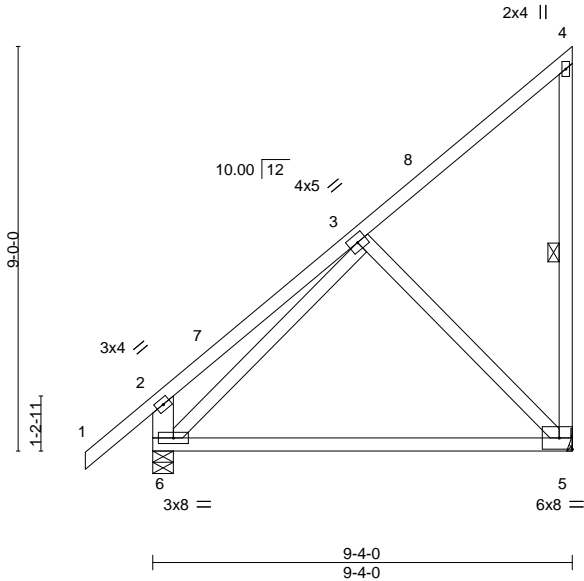
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	EJ03	Monopitch	1	1	T35758716
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:22 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-03RI8K38G45VjFH4oQ98aFPdimYldjfNA28WYtyAnLB



Scale = 1:51.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.22 5-6	>480	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.45 5-6	>241	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 68 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 6=0-5-8
Max Horz 6=465(LC 12)
Max Uplift 5=-404(LC 12), 6=-35(LC 12)
Max Grav 5=408(LC 19), 6=434(LC 1)

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

TOP CHORD 2-3=-326/190, 4-5=-159/293, 2-6=-328/457
BOT CHORD 5-6=-373/277
WEBS 3-5=-377/519, 3-6=-353/307

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 9-2-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 5 and 35 lb uplift at joint 6.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	EJ04	Jack-Partial	13	1	T35758717
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:22 2024 Page 1
ID:j1GsU3rqn88z_VCSO8tWpyLf0E-03RI8K38G45VjFH4oQ98aFPfdmcAdmiNA28WYtyAnLB

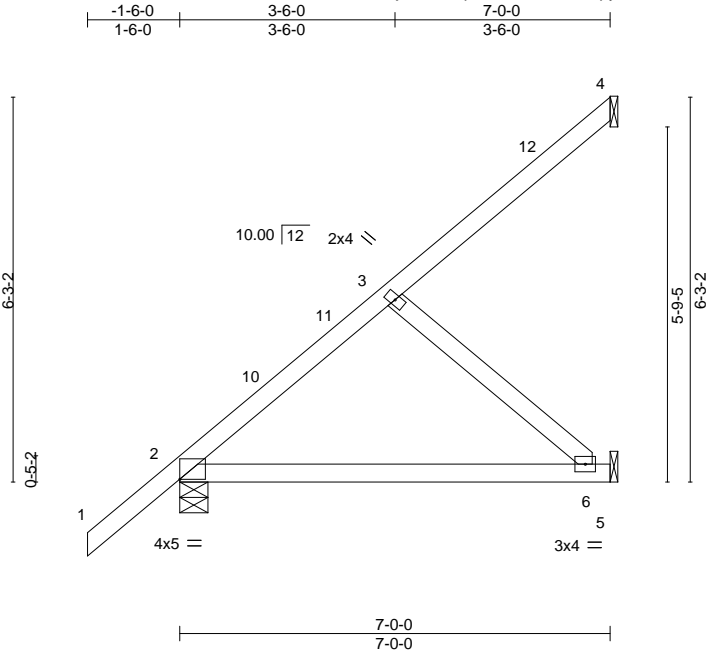


Plate Offsets (X,Y)--	[2:0-0-0,0-0-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	-0.08 6-9	>999	240	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.16 6-9	>506	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00 2	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 33 lb FT = 20%

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

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical
Max Horz 2=369(LC 12)
Max Uplift 4=-100(LC 12), 2=-84(LC 12), 5=-146(LC 12)
Max Grav 4=94(LC 19), 2=346(LC 1), 5=208(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-6=-283/207
WEBS 3-6=-276/377

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 4, 84 lb uplift at joint 2 and 146 lb uplift at joint 5.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	EJ05	Jack-Closed Girder	1	1	T35758718
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:23 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-UG?7Mg4m1ODMLOsHM7gN7SytAAxEM7iXPiu34KyAnLA



Scale = 1:36.0

Plate Offsets (X,Y)--		[1:0-0-1,0-0-0]											
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 0.21		Vert(LL) -0.02 7-10 >999 240				MT20		244/190	
TCDL 7.0		Lumber DOL 1.25		BC 0.46		Vert(CT) -0.03 7-10 >999 180							
BCLL 0.0 *		Rep Stress Incr NO		WB 0.45		Horz(CT) 0.01 6 n/a n/a							
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 48 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-14 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=309(LC 8)
Max Uplift 1=-308(LC 8), 6=-720(LC 8)
Max Grav 1=925(LC 1), 6=1298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1069/331
BOT CHORD 1-7=-465/803, 6-7=-465/803
WEBS 2-7=-489/1177, 2-6=-1076/621

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 308 lb uplift at joint 1 and 720 lb uplift at joint 6.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 267 lb up at 2-0-12, and 572 lb down and 267 lb up at 4-0-12, and 573 lb down and 266 lb up at 6-0-12 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=-14, 5-8=-20
Concentrated Loads (lb)
Vert: 12=-572(B) 13=-572(B) 14=-573(B)

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	EJ06	Jack-Open	2	1	T35758719
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:23 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-UG?7Mg4m1ODMLOsHM7gN7SyqjA13MEiXPiu34KyAnLA

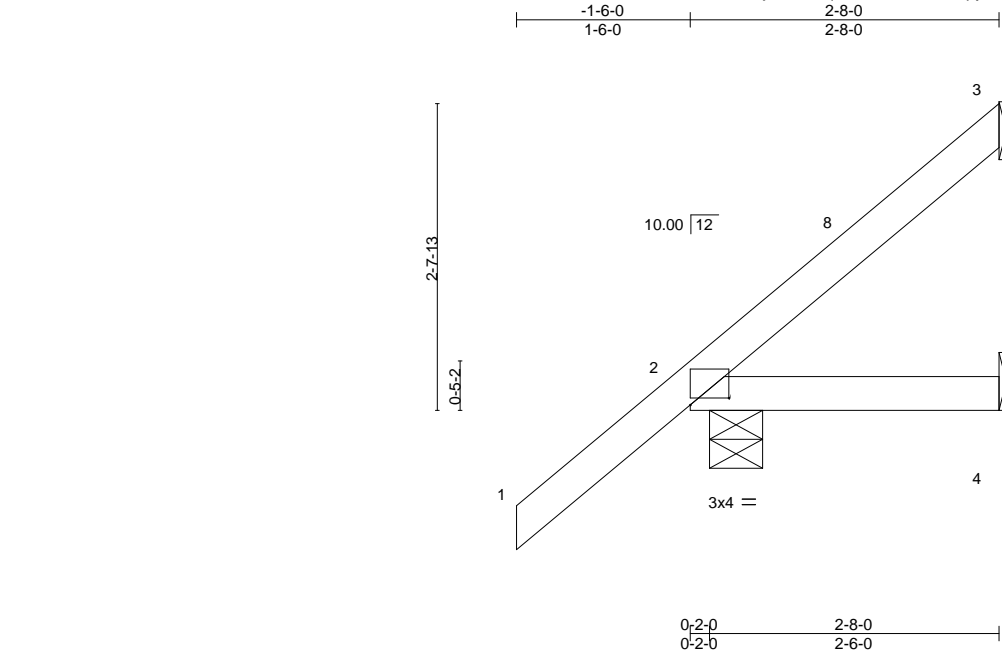


Plate Offsets (X,Y)-- [2:0-4-0,0-0-11]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.00 4-7 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01 4-7 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	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-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=181(LC 12)
Max Uplift 3=-80(LC 12), 2=-88(LC 12)
Max Grav 3=67(LC 19), 2=201(LC 1), 4=45(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=35ft; Cat. II; Exp C; 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 2-7-4 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 80 lb uplift at joint 3 and 88 lb uplift at joint 2.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

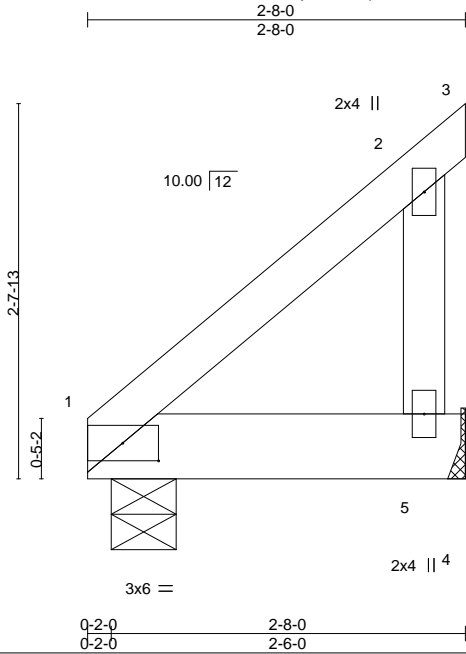
December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	EJ07	Jack-Closed Girder	1	1	T35758720
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:24 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ySZWZ05OohLDyYRTwrBcfgV4iZL65hygeMddmyAnL9



Scale = 1:16.3

Plate Offsets (X,Y)--		[1:0-3-1,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.10
TCDL 7.0	Lumber DOL	1.25	BC 0.23
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.00 8 >999 240
			Vert(CT) -0.01 5-8 >999 180
			Horz(CT) 0.00 1 n/a n/a
			Weight: 14 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 1=0-5-8, 5=Mechanical
Max Horz 1=122(LC 8)
Max Uplift 1=194(LC 8), 5=169(LC 8)
Max Grav 1=545(LC 1), 5=220(LC 31)

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

- NOTES-
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 1 and 169 lb uplift at joint 5.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 578 lb down and 268 lb up at 0-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-14, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-578(B)

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

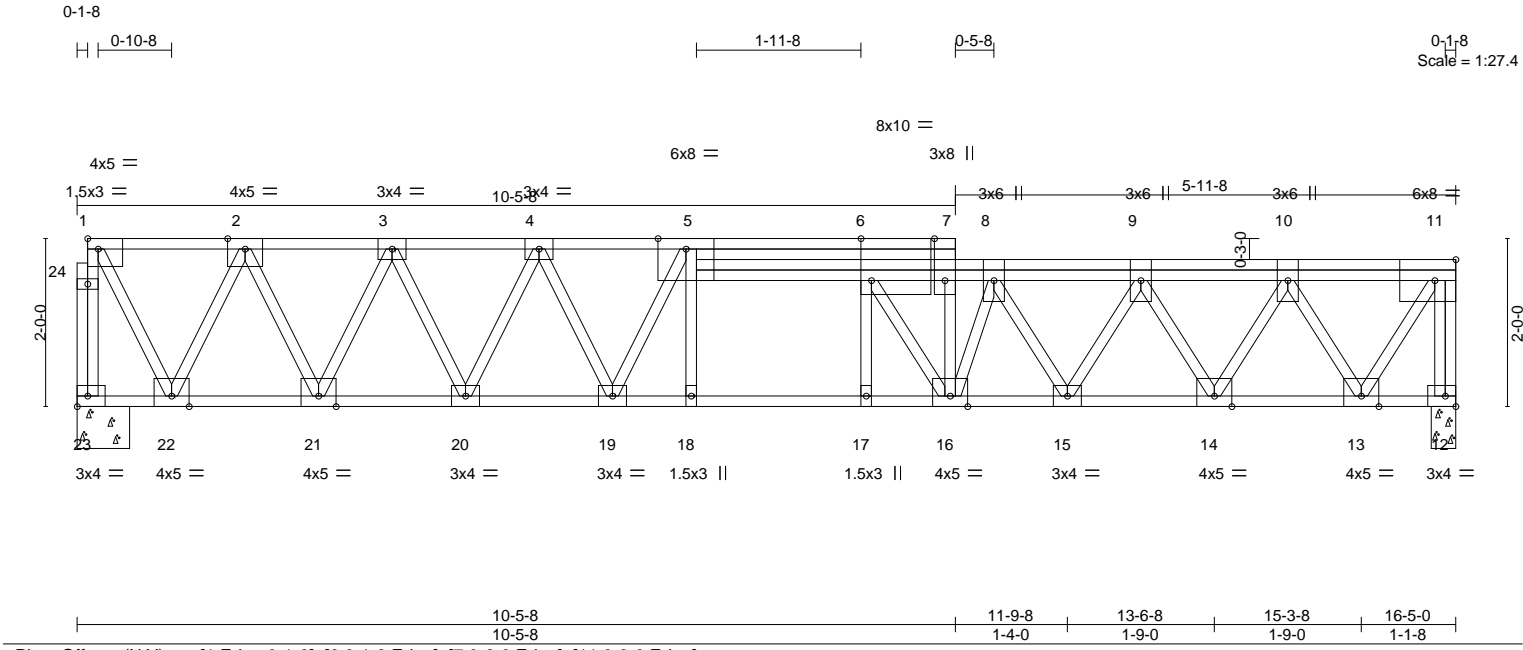
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758721
4371416	F01	FLOOR	9	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:25 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Qe7unM60Z?T4ai0fUYirCt1DJzcQq2Rqs0NA9CyAnL8



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.17	Vert(LL)	-0.06 18	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.54	Vert(CT)	-0.09 17-18	>999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.43	Horz(CT)	0.03 12	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 129 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 23=0-7-8, 12=0-3-8
Max Grav 23=695(LC 1), 12=878(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-691/0, 11-12=-875/0, 1-2=-342/0, 2-3=-860/0, 3-4=-1240/0, 4-5=-1576/0, 5-6=-1764/0, 6-7=-1780/0, 7-8=-1807/0, 8-9=-1680/0, 9-10=-1232/0, 10-11=-503/0
BOT CHORD 21-22=0/636, 20-21=0/1078, 19-20=0/1398, 18-19=0/1764, 17-18=0/1764, 16-17=0/1763, 15-16=0/1833, 14-15=0/1523, 13-14=0/934
WEBS 11-13=0/909, 1-22=0/713, 10-13=-884/0, 2-22=-694/0, 10-14=0/609, 2-21=0/530, 9-14=-595/0, 3-21=-516/0, 9-15=0/323, 3-20=0/384, 8-15=-312/0, 4-20=-371/0, 8-16=-258/41, 4-19=0/389, 6-16=-314/300, 5-19=-410/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-7, 1-7=-73, 7-11=-123

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

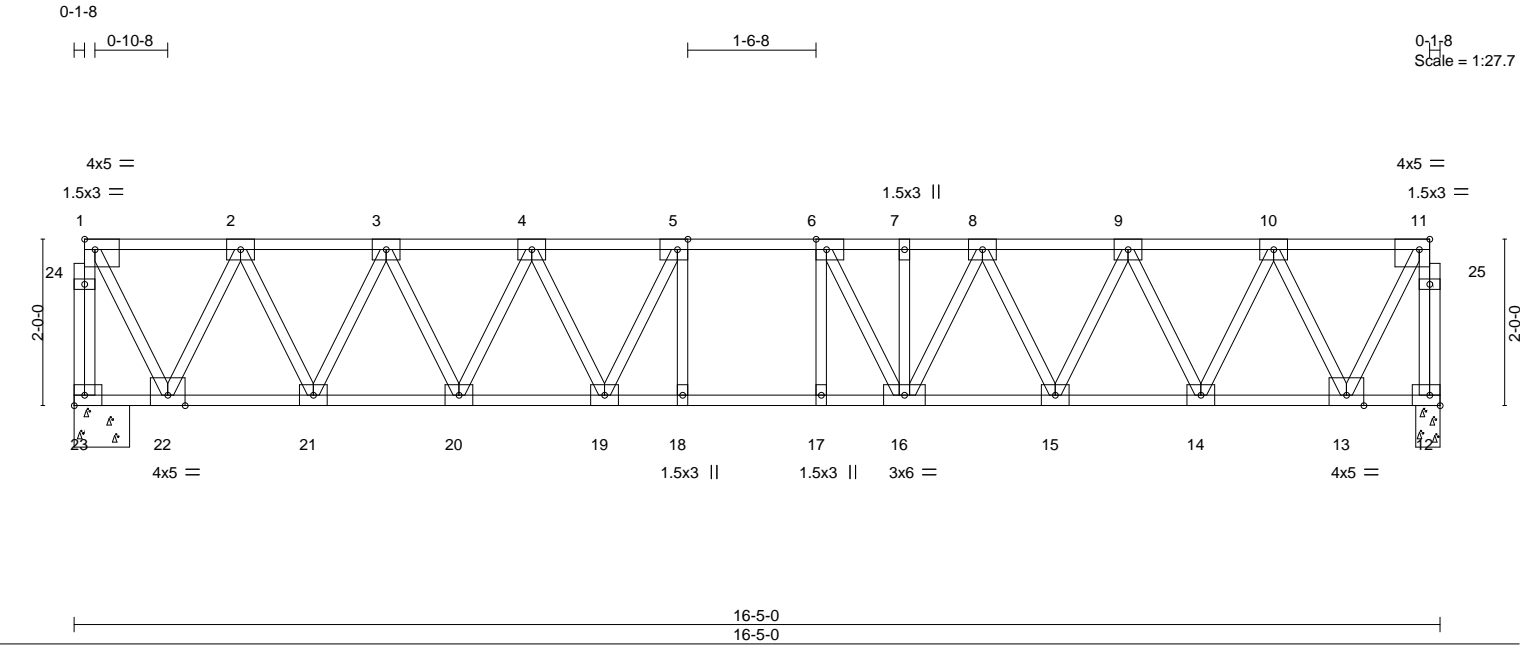
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758722
4371416	F02	FLOOR	18	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:25 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Qe7unM60Z?T4ai0fUYirCt1Bhzciq4Kqs0NA9CyAnL8



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.27	Vert(LL)	-0.06 16-17	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.52	Vert(CT)	-0.08 16-17	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.02 12	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 113 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 23=0-8-0, 12=0-3-8
Max Grav 23=642(LC 1), 12=642(LC 1)

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

TOP CHORD 1-23=-639/0, 11-12=-639/0, 1-2=-314/0, 2-3=-783/0, 3-4=-1114/0, 4-5=-1315/0, 5-6=-1386/0, 6-7=-1326/0, 7-8=-1326/0, 8-9=-1113/0, 9-10=-783/0, 10-11=-314/0

BOT CHORD 21-22=0/583, 20-21=0/977, 19-20=0/1245, 18-19=0/1386, 17-18=0/1386, 16-17=0/1386, 15-16=0/1243, 14-15=0/977, 13-14=0/583

WEBS 11-13=0/654, 1-22=0/654, 10-13=-636/0, 2-22=-636/0, 10-14=0/473, 2-21=0/472, 9-14=-460/0, 3-21=-459/0, 9-15=0/320, 3-20=0/324, 8-15=-307/0, 4-20=-311/0, 6-16=-302/74, 5-19=-287/21

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

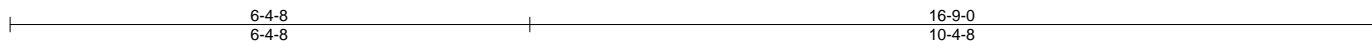
This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:26 2024 Page 1
ID:i1GsU3rgen88z VCSO8tWpwl0E-urhG i7eKJbxCsbs1FD4k5aLKNxrZXTz5f6ihfvAnL7

0-1-8
Scale = 1:28.3



TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

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) 23=0-8-0, 12=0-8-0
Max Grav 23=655(LC 1), 12=655(LC 1)

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

TOP CHORD 1-23=652/0, 11-12=652/0, 1-2=-321/0, 2-3=-802/0, 3-4=-1145/0, 4-5=-1360/0, 5-6=-1440/0, 6-7=-1370/0, 7-8=-1370/0, 8-9=-1145/0, 9-10=-802/0, 10-11=-321/0

BOT CHORD 21-22=0/596, 20-21=0/1003, 19-20=0/1283, 18-19=0/1440, 17-18=0/1440, 16-17=0/1440, 15-16=0/1281, 14-15=0/1003, 13-14=0/596

WEBS 11-13=0/669, 1-22=0/669, 10-13=-651/0, 2-22=-651/0, 10-14=0/488, 2-21=0/487, 9-14=-474/0, 3-21=-474/0, 9-15=0/335, 3-20=0/338, 8-15=-322/0, 4-20=-324/0, 4-19=0/250, 6-16=-340/66, 5-19=-320/12

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" o.c. and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	F04	FLOOR	18	1	T35758724
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:26 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-urhG_i7eKJbxCsbs1FD4k5aJuNweZSVz5f6jhfyAnL7

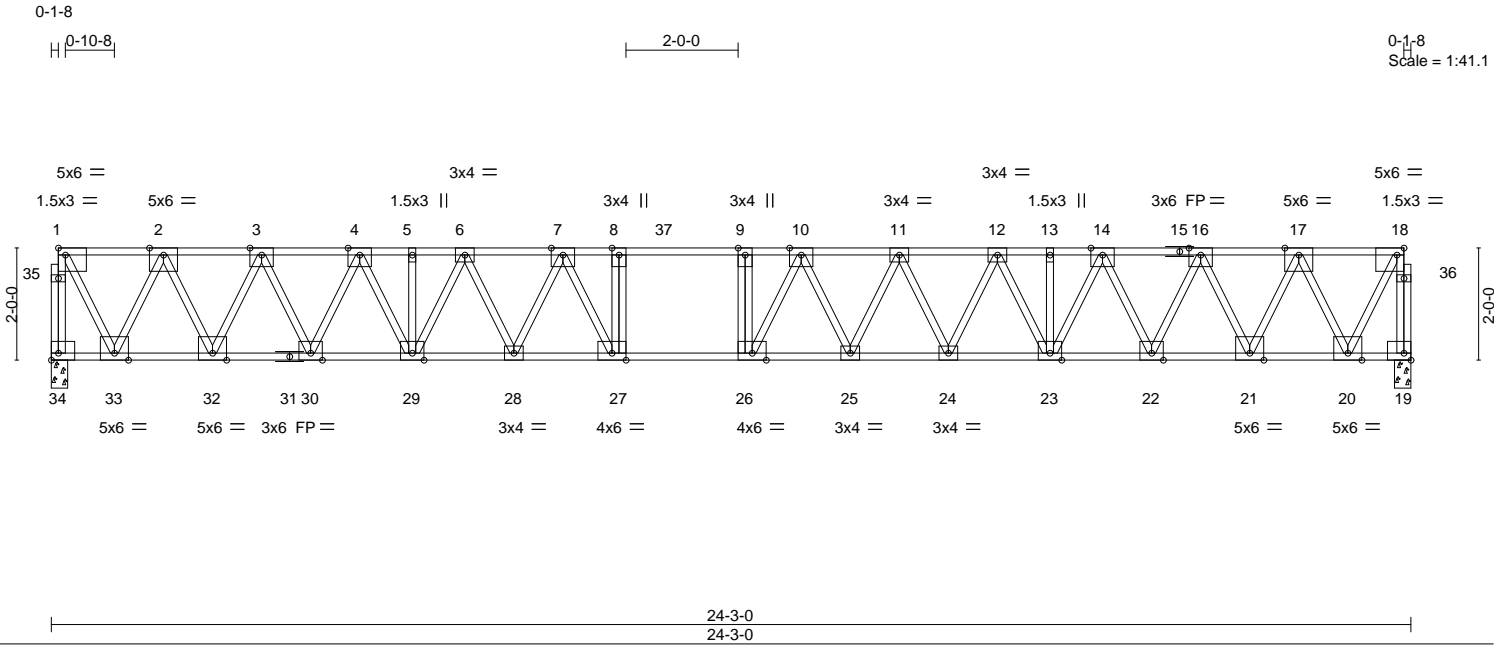


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [18:0-1-8,Edge], [19:Edge,0-1-8], [34:Edge,0-1-8]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 60.0	Plate Grip DOL	1.00	TC 0.50
TCDL 15.0	Lumber DOL	1.00	BC 0.67
BCLL 0.0	Rep Stress Incr	YES	WB 0.64
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.30 25-26 >956 360
		Vert(CT)	-0.40 25-26 >717 240
		Horz(CT)	0.08 19 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 167 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 34=0-3-8, 19=0-3-8
Max Grav 34=1274(LC 1), 19=1274(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-34=-1269/0, 18-19=-1269/0, 1-2=-640/0, 2-3=-1655/0, 3-4=-2484/0, 4-5=-3172/0, 5-6=-3172/0, 6-7=-3646/0, 7-8=-4051/0, 8-9=-4051/0, 9-10=-4051/0, 10-11=-3962/0, 11-12=-3654/0, 12-13=-3172/0, 13-14=-3172/0, 14-16=-2484/0, 16-17=-1655/0, 17-18=-640/0
BOT CHORD 32-33=0/1194, 30-32=0/2110, 29-30=0/2854, 28-29=0/3460, 27-28=0/3843, 26-27=0/4051, 25-26=0/4050, 24-25=0/3850, 23-24=0/3458, 22-23=0/2853, 21-22=0/2110, 20-21=0/1194
WEBS 18-20=0/1336, 1-33=0/1336, 17-20=-1312/0, 2-33=-1312/0, 17-21=0/1090, 2-32=0/1090, 16-21=-1075/0, 3-32=-1074/0, 16-22=0/885, 3-30=0/884, 14-22=-873/0, 4-30=-875/0, 14-23=0/713, 4-29=0/712, 12-23=-639/0, 6-29=-644/0, 12-24=0/464, 6-28=0/438, 11-24=-463/0, 7-28=-528/0, 11-25=0/312, 7-27=-104/808, 10-25=-362/19, 10-26=-392/517, 8-27=-503/2, 9-26=-339/164

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 4x5 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

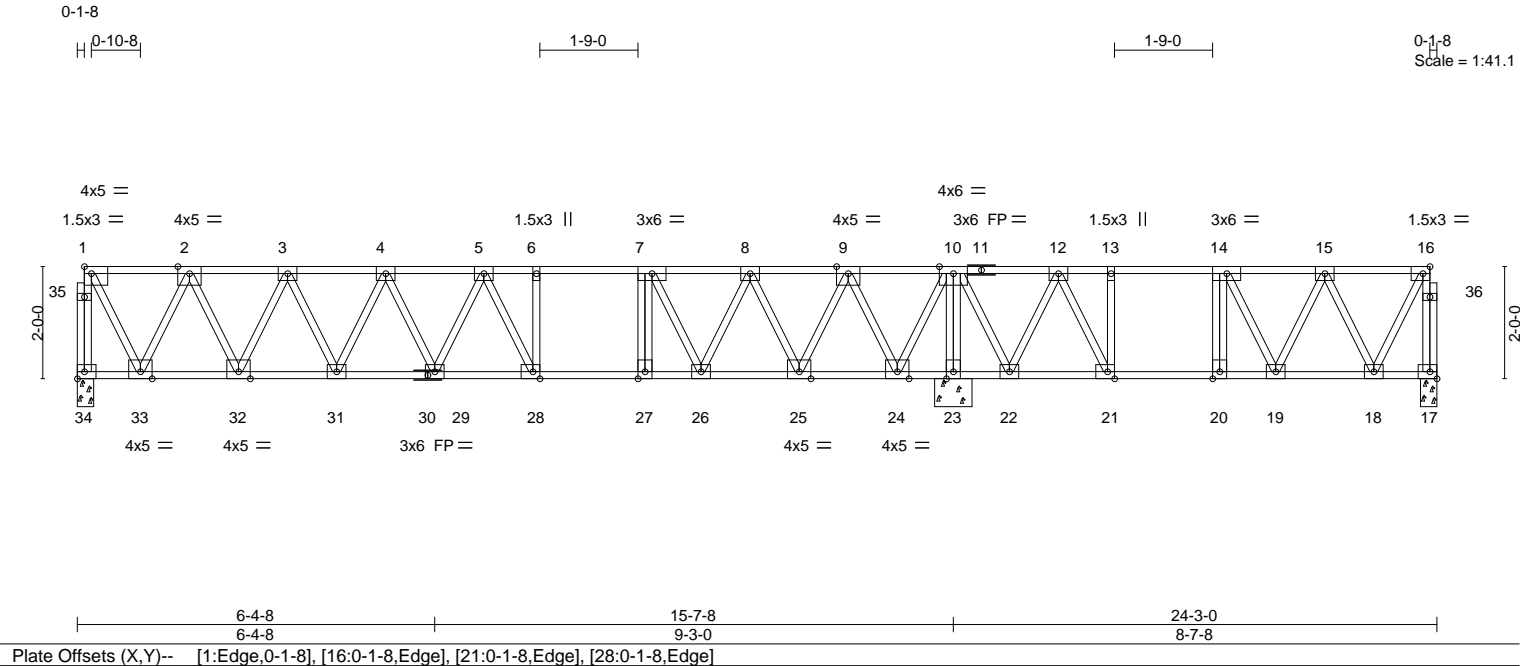
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758725
4371416	F05	FLOOR	8	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:27 2024 Page 1
ID:j1GsU3rqn88z_VCSO8tWpyLf0E-M1FeC27H5cjop0A2bzkJHl7XwnKjlyX6KJsHD5yAnL6



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 60.0	Plate Grip DOL	1.00	TC 0.29	Vert(LL)	-0.11 28-29	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.42	Vert(CT)	-0.14 28-29	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.02 17	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 166 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,22-23,21-22.

REACTIONS. (size) 34=0-3-8, 17=0-3-8, 23=0-8-0
Max Grav 34=820(LC 10), 17=467(LC 7), 23=1314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-34=-815/0, 16-17=-463/0, 1-2=-398/0, 2-3=-990/0, 3-4=-1394/0, 4-5=-1641/0, 5-6=-1643/0, 6-7=-1643/0, 7-8=-1396/0, 8-9=-984/0, 9-10=-394/0, 10-12=-276/89, 12-13=-544/0, 13-14=-544/0, 14-15=-472/0
BOT CHORD 32-33=0/741, 31-32=0/1232, 29-31=0/1558, 28-29=0/1695, 27-28=0/1643, 26-27=0/1643, 25-26=0/1219, 24-25=0/735, 21-22=-34/434, 20-21=0/544, 19-20=0/544, 18-19=0/392
WEBS 10-23=-1241/0, 1-33=0/829, 10-24=0/828, 2-33=-812/0, 9-24=-830/0, 2-32=0/589, 9-25=0/622, 3-32=-570/0, 8-25=-587/0, 3-31=0/385, 8-26=0/458, 4-31=-388/0, 7-26=-598/0, 16-18=0/438, 10-22=0/389, 15-18=-427/0, 12-22=-450/0, 12-21=0/391, 13-21=-251/0, 5-28=-265/180

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

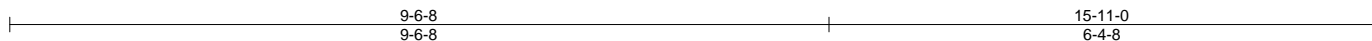
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:27 2024 Page 1
ID:1GsU3rgen88z VCSO8tWpyLf0E-M1FeC27H5ciop0A2bzkJH17VbnGEI ?6KJsHD5vAnL6

0-1-8
Scale = 1:26.8



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.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758727
4371416	F07	FLOOR	12	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:28 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-qDp0PN8vswreRAIE9gGYpWfhMBdl1RMGZzbqmXyAnL5

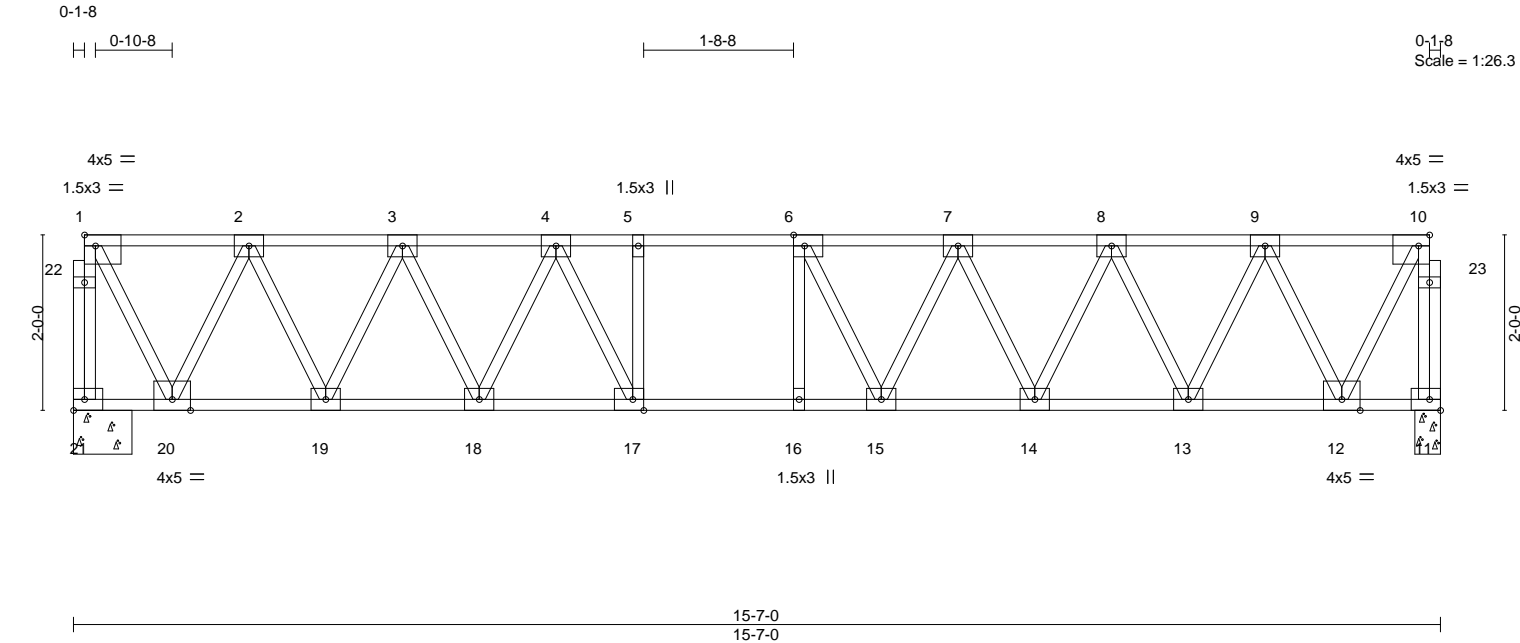


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.37
TCDL 15.0	Lumber DOL	1.00	BC 0.59
BCLL 0.0	Rep Stress Incr	YES	WB 0.29
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.06 15-16 >999 360
			Vert(CT) -0.09 15-16 >999 240
			Horz(CT) 0.02 11 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 105 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS.	(size) 21=0-8-0, 11=0-3-8
	Max Grav 21=609(LC 1), 11=609(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-21=-605/0, 10-11=-606/0, 1-2=-296/0, 2-3=-735/0, 3-4=-1029/0, 4-5=-1240/0, 5-6=-1240/0, 6-7=-1203/0, 7-8=-1034/0, 8-9=-734/0, 9-10=-296/0
BOT CHORD	19-20=0/550, 18-19=0/913, 17-18=0/1147, 16-17=0/1240, 15-16=0/1240, 14-15=0/1152, 13-14=0/912, 12-13=0/550
WEBS	10-12=0/617, 1-20=0/616, 9-12=-600/0, 2-20=-600/0, 9-13=0/435, 2-19=0/439, 8-13=-420/0, 3-19=-421/0, 8-14=0/289, 3-18=0/276, 7-14=-280/0, 4-18=-279/0, 4-17=0/340

NOTES-	
1) Unbalanced floor live loads have been considered for this design.	
2) All plates are 3x4 MT20 unless otherwise indicated.	
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.	
Strongbacks to be attached to walls at their outer ends or restrained by other means.	

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758728
4371416	F08	FLOOR	14	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:28 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-qDp0PN8vswreRAIE9gYpWfiZBeO1RTGZzbqmXyAnL5

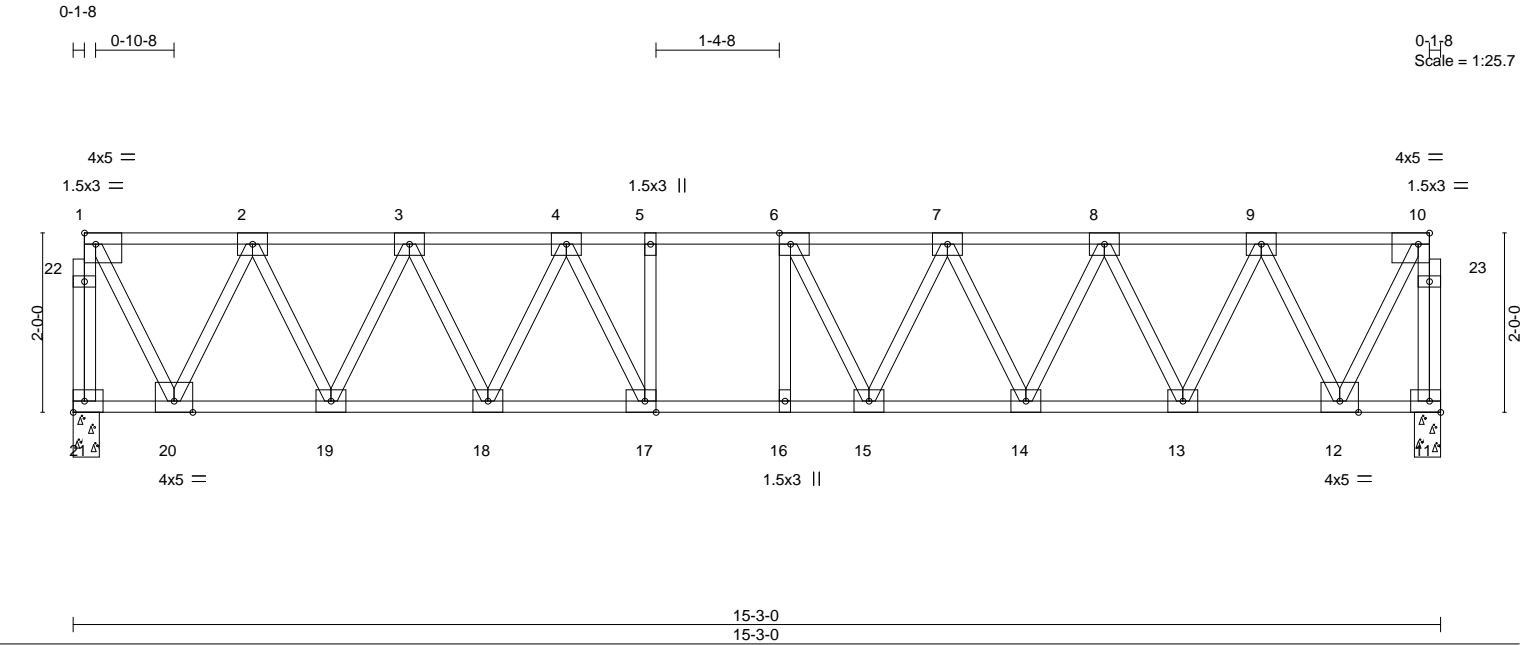


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.30
TCDL 15.0	Lumber DOL	1.00	BC 0.52
BCLL 0.0	Rep Stress Incr	YES	WB 0.29
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.05 15-16	>999	360
Vert(CT)	-0.07 15-16	>999	240
Horz(CT)	0.02 11	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 104 lb	FT = 20%F, 11%E		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 21=0-3-8, 11=0-3-8
Max Grav 21=595(LC 1), 11=595(LC 1)

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

TOP CHORD 1-21=-592/0, 10-11=-592/0, 1-2=-289/0, 2-3=-715/0, 3-4=-998/0, 4-5=-1189/0, 5-6=-1189/0, 6-7=-1159/0, 7-8=-1002/0, 8-9=-714/0, 9-10=-289/0

BOT CHORD 19-20=0/536, 18-19=0/887, 17-18=0/1110, 16-17=0/1189, 15-16=0/1189, 14-15=0/1114, 13-14=0/886, 12-13=0/537

WEBS 10-12=0/602, 1-20=0/601, 9-12=-585/0, 2-20=-585/0, 9-13=0/420, 2-19=0/424, 8-13=-406/0, 3-19=-406/0, 8-14=0/275, 3-18=0/263, 7-14=-265/0, 4-18=-264/0, 4-17=-4/301

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758729
4371416	F09	FLOOR	6	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:29 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-IQMPcj9XdEzV3JKRjOnnMjCvaa4smxvPndLNlzyAnL4

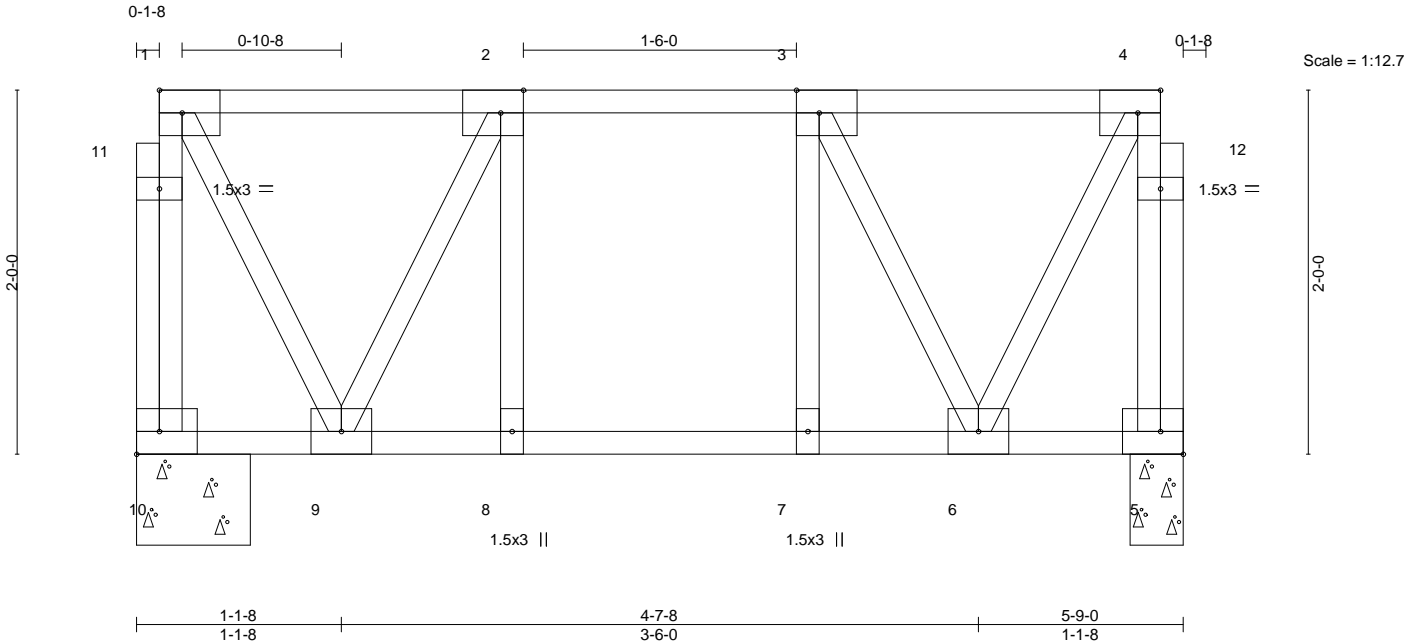


Plate Offsets (X, Y)--		[2:0-1-8, Edge], [3:0-1-8, Edge], [4:0-1-8, Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.15
TCDL 15.0	Lumber DOL	1.00	BC 0.13
BCLL 0.0	Rep Stress Incr	YES	WB 0.08
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.01 8 >999 360
			Vert(CT) -0.01 8 >999 240
			Horz(CT) 0.00 5 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 43 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (size) 10=0-7-8, 5=0-3-8
Max Grav 10=215(LC 1), 5=215(LC 1)

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

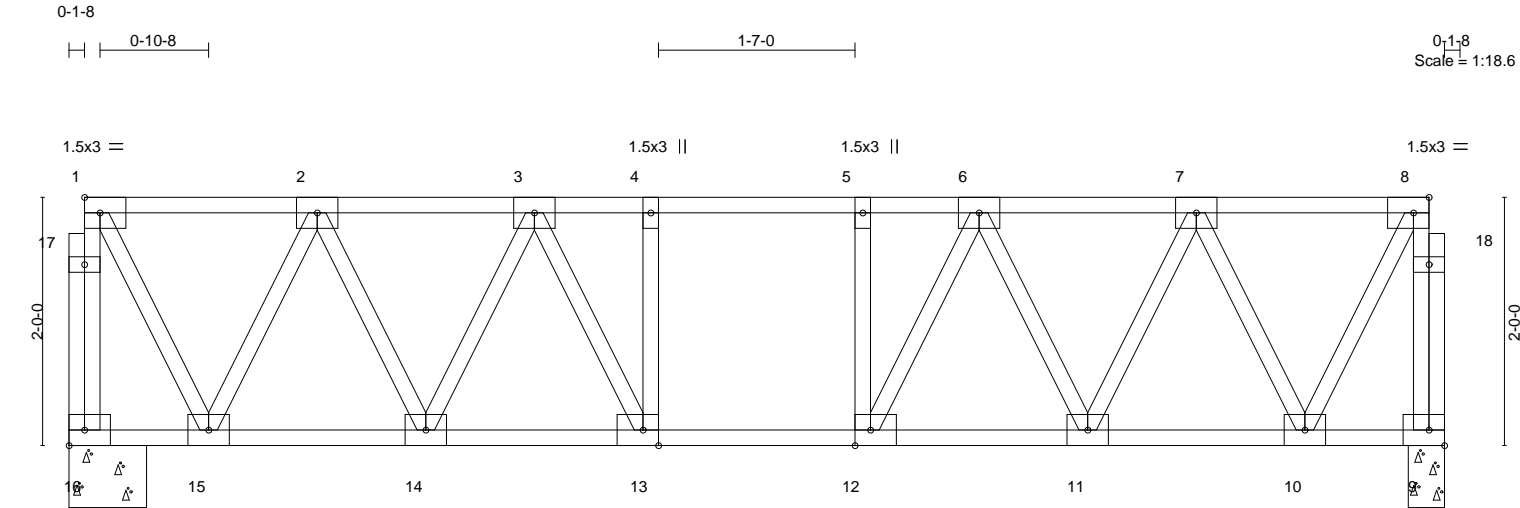
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758730
4371416	F10	FLOOR	8	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:29 2024 Page 1
ID:j1GsU3rqn88z_VCSO8tWpyLf0E-IQMPcj9XdEzV3JKRjOnnMjCufa21mv5PndLNlzyAnL4



1-1-8	2-10-8	4-7-8	8-2-8	9-11-8	11-1-0
1-1-8	1-9-0	1-9-0	3-7-0	1-9-0	1-1-8
Plate Offsets (X,Y)-- [8:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]					

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.21	Vert(LL)	-0.02 11-12	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.24	Vert(CT)	-0.03 13-14	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01 9	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 77 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 16=0-7-8, 9=0-3-8
Max Grav 16=429(LC 1), 9=429(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-426/0, 8-9=-426/0, 2-3=-469/0, 3-4=-617/0, 4-5=-617/0, 5-6=-617/0, 6-7=-469/0
BOT CHORD 14-15=0/371, 13-14=0/561, 12-13=0/617, 11-12=0/561, 10-11=0/371
WEBS 8-10=0/417, 1-15=0/417, 7-10=-402/0, 2-15=-402/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

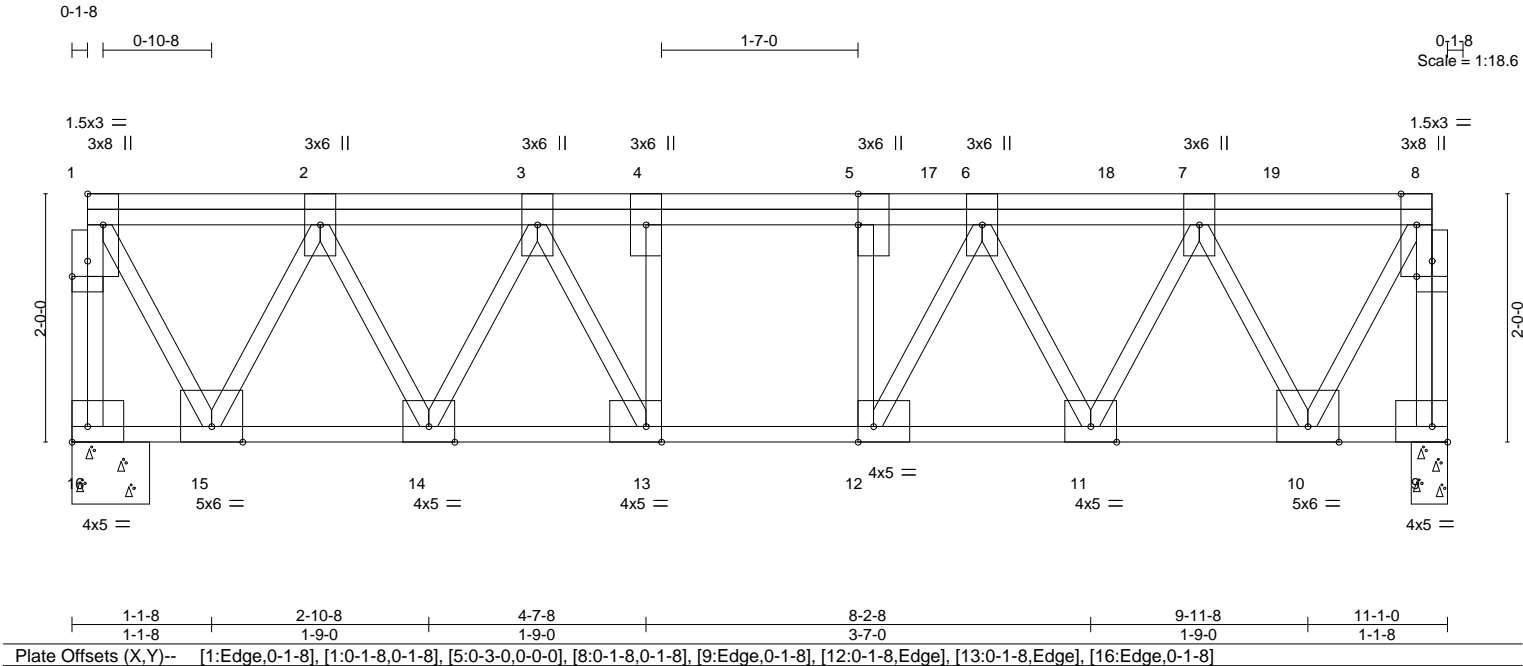
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758731
4371416	F10G	FLOOR GIRDER	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:30 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ncwnq3A9OX5MhTudG5l0vx1a_JIVGGZ0H4xqQyAnL3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.33	Vert(LL)	-0.04 11-12	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.56	Vert(CT)	-0.06 11-12	>999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.02 9	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 91 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 16=0-7-8, 9=0-3-8
Max Grav 16=1225(LC 1), 9=1208(LC 1)

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

TOP CHORD 1-16=-1219/0, 8-9=-1202/0, 1-2=-588/0, 2-3=-1378/0, 3-4=-1848/0, 4-5=-1848/0, 5-6=-1848/0, 6-7=-1417/0, 7-8=-603/0
BOT CHORD 14-15=0/1089, 13-14=0/1659, 12-13=0/1848, 11-12=0/1705, 10-11=0/1117
WEBS 8-10=0/1234, 1-15=0/1205, 7-10=-1185/0, 2-15=-1154/0, 7-11=0/689, 2-14=0/665, 6-11=-663/0, 5-12=-324/0, 3-14=-647/0, 6-12=0/389, 4-13=-537/0, 3-13=0/669

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 202 lb down at 7-1-2, and 202 lb down at 8-5-2, and 202 lb down at 9-9-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-16=-10, 1-17=-210, 8-17=-110
Concentrated Loads (lb)
Vert: 17=-148(F) 18=-148(F) 19=-148(F)

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

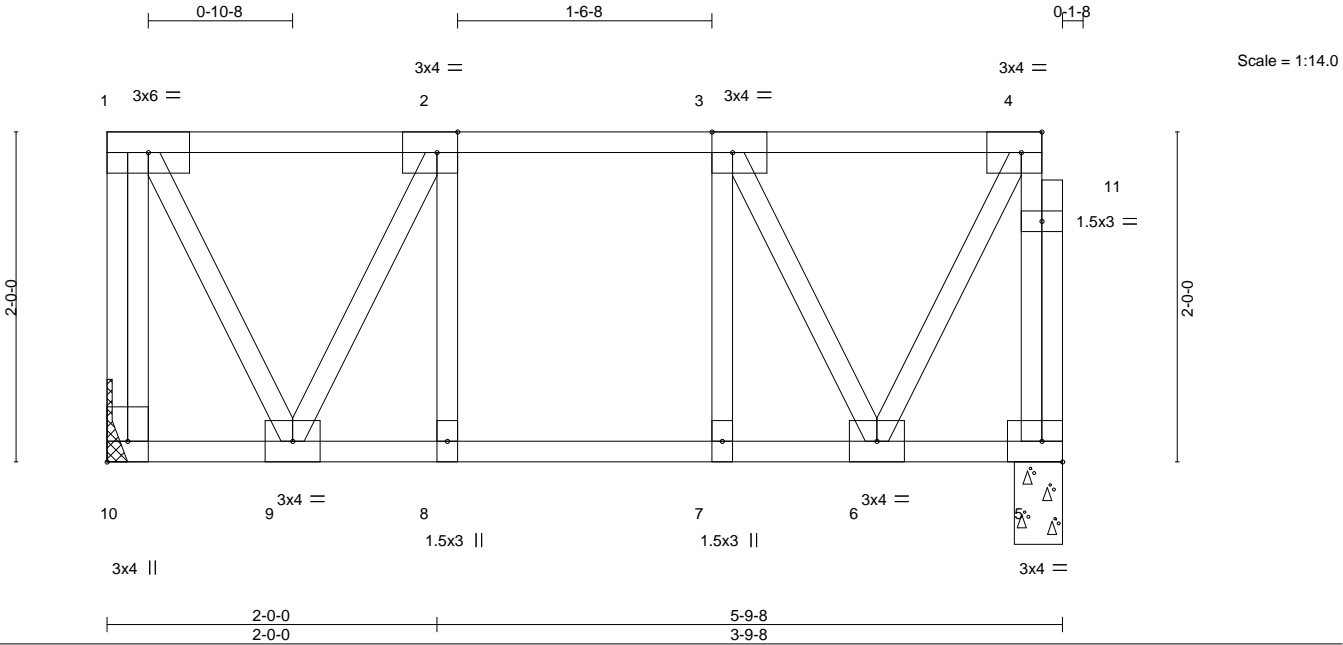
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758732
4371416	F11	Floor	3	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:30 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ncwnq3A9OX5MhTudG5l0vxi4A_P?VO5Z0H4xqQyAnL3



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.16	Vert(LL)	-0.01 8	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.13	Vert(CT)	-0.01 8	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00 5	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 44 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 5=0-3-8
Max Grav 10=222(LC 1), 5=217(LC 1)

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	F12	FLOOR	16	1	T35758733

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:31 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-FoU91PAn9EDIdTpqqpFR8HABOdKehCiFqxUMsyAnL2

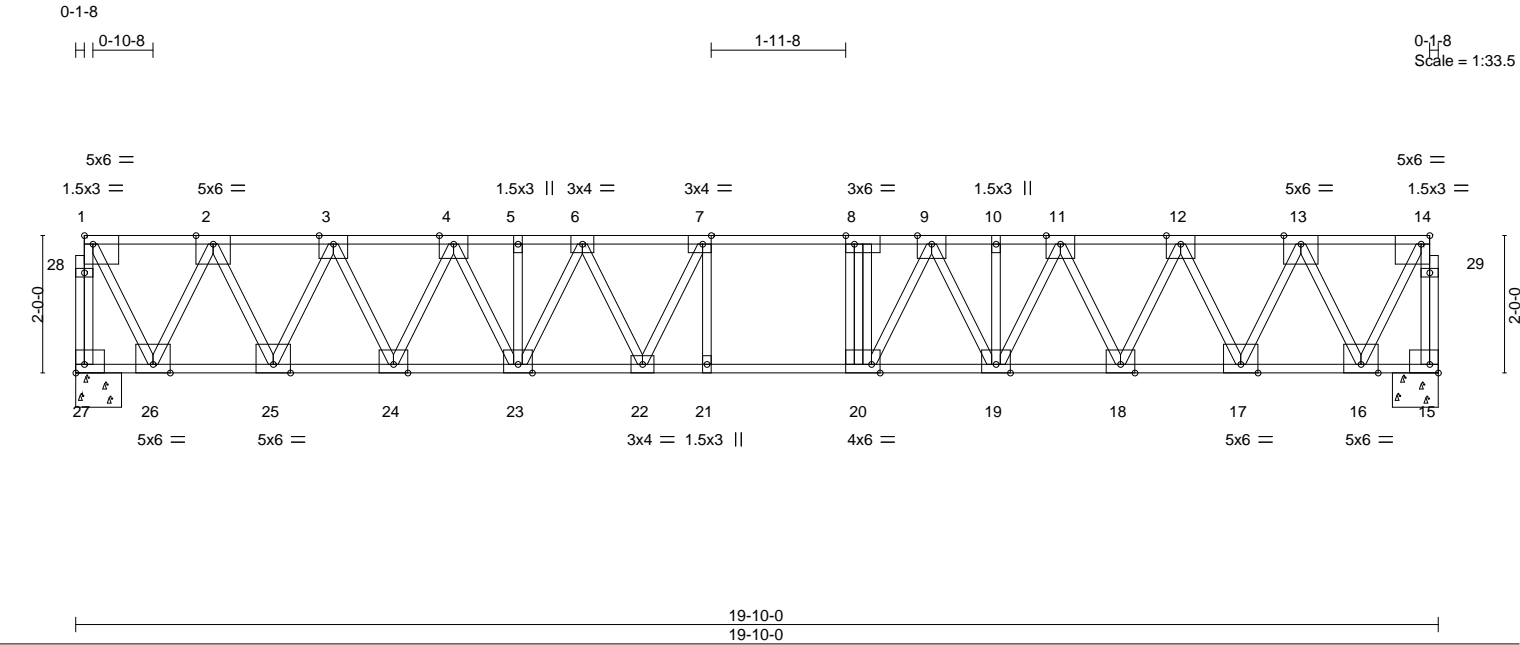


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [14:0-1-8,Edge], [15:Edge,0-1-8], [20:0-1-8,Edge], [27:Edge,0-1-8]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 80.0	Plate Grip DOL	1.00	TC 0.46
TCDL 20.0	Lumber DOL	1.00	BC 0.68
BCLL 0.0	Rep Stress Incr	YES	WB 0.67
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.20 21-22 >999 360
			Vert(CT) -0.26 21-22 >896 240
			Horz(CT) 0.06 15 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 139 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS.	(size) 27=0-8-0, 15=0-8-0
	Max Grav 27=1363(LC 1), 15=1363(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-27=-1357/0, 14-15=-1357/0, 1-2=-675/0, 2-3=-1719/0, 3-4=-2519/0, 4-5=-3122/0, 5-6=-3122/0, 6-7=-3459/0, 7-8=-3548/0, 8-9=-3542/0, 9-10=-3123/0, 10-11=-3123/0, 11-12=-2520/0, 12-13=-1719/0, 13-14=-675/0
BOT CHORD	25-26=0/1260, 24-25=0/2173, 23-24=0/2860, 22-23=0/3351, 21-22=0/3548, 20-21=0/3548, 19-20=0/3335, 18-19=0/2858, 17-18=0/2173, 16-17=0/1259
WEBS	14-16=0/1408, 1-26=0/1407, 13-16=-1383/0, 2-26=-1383/0, 13-17=0/1087, 2-25=0/1087, 12-17=-1074/0, 3-25=-1073/0, 12-18=0/820, 3-24=0/819, 11-18=-800/0, 4-24=-805/0, 11-19=0/592, 4-23=0/585, 9-19=-513/0, 6-23=-513/0, 9-20=-93/815, 6-22=-18/486, 7-22=-640/249, 7-21=-290/223, 8-20=-502/0

NOTES-	
1) Unbalanced floor live loads have been considered for this design.	
2) All plates are 4x5 MT20 unless otherwise indicated.	
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.	

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	F13	FLOOR	9	1	T35758734
					Job Reference (optional)

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:31 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-FoU91PAn9rEDIdTpqqpFR8HBuOdEEhNiFxqUMsyAnL2

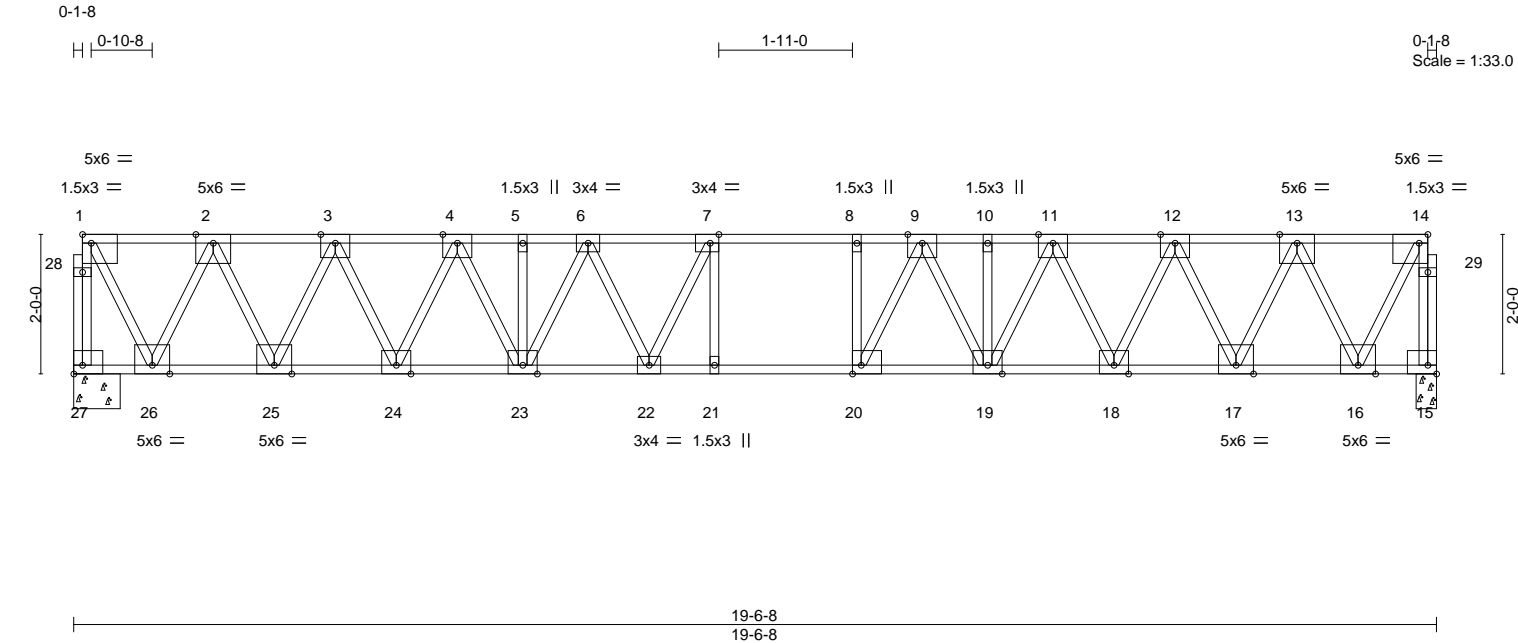


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [7:0-1-8,Edge], [14:0-1-8,Edge], [15:Edge,0-1-8], [20:0-1-8,Edge], [27:Edge,0-1-8]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 80.0	Plate Grip DOL	1.00	TC 0.42
TCDL 20.0	Lumber DOL	1.00	BC 0.64
BCLL 0.0	Rep Stress Incr	YES	WB 0.66
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.18 21-22 >999 360
		Vert(CT)	-0.24 21-22 >976 240
		Horz(CT)	0.05 15 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 133 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
BOT CHORD	
WEBS	

REACTIONS.	(size) 27=0-8-0, 15=0-3-8
	Max Grav 27=1342(LC 1), 15=1342(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-27=-1337/0, 14-15=-1337/0, 1-2=-664/0, 2-3=-1689/0, 3-4=-2470/0, 4-5=-3053/0, 5-6=-3053/0, 6-7=-3370/0, 7-8=-3444/0, 8-9=-3444/0, 9-10=-3054/0, 10-11=-3054/0, 11-12=-2471/0, 12-13=-1689/0, 13-14=-664/0
BOT CHORD	25-26=0/1239, 24-25=0/2133, 23-24=0/2802, 22-23=0/3273, 21-22=0/3444, 20-21=0/3444, 19-20=0/3258, 18-19=0/2800, 17-18=0/2134, 16-17=0/1239
WEBS	14-16=0/1385, 1-26=0/1385, 13-16=-1360/0, 2-26=-1361/0, 13-17=0/1065, 2-25=0/1065, 12-17=-1052/0, 3-25=-1050/0, 12-18=0/797, 3-24=0/797, 11-18=-777/0, 4-24=-783/0, 11-19=0/568, 4-23=0/561, 9-19=-515/0, 6-23=-494/0, 9-20=-107/793, 6-22=-34/455, 7-22=-590/256, 7-21=-289/206, 8-20=-492/0

NOTES-	
1) Unbalanced floor live loads have been considered for this design.	
2) All plates are 4x5 MT20 unless otherwise indicated.	
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.	
Strongbacks to be attached to walls at their outer ends or restrained by other means.	

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758735
4371416	F14	FLOOR	8	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:31 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-FoU91PAn9rEDldTpqqpFR8HAJOdxEn_iFqxUMsyAnL2

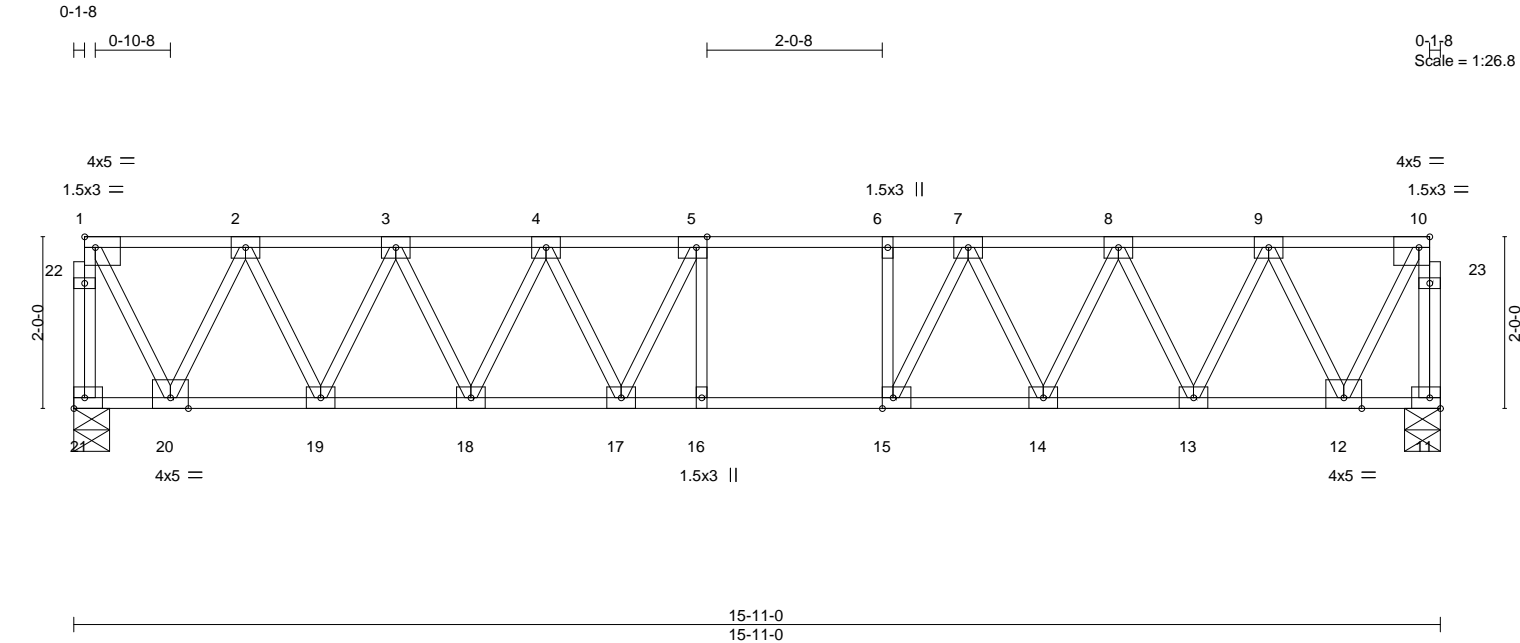


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [5:0-1-8,Edge], [10:0-1-8,Edge], [15:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.46
TCDL 15.0	Lumber DOL	1.00	BC 0.66
BCLL 0.0	Rep Stress Incr	YES	WB 0.30
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.08 16-17	>999	360
Vert(CT)	-0.11 16-17	>999	240
Horz(CT)	0.02 11	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 106 lb		FT = 20%F, 11%E	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 21=0-5-0, 11=0-5-0
Max Grav 21=622(LC 1), 11=622(LC 1)

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

TOP CHORD 1-21=-619/0, 10-11=-618/0, 1-2=-303/0, 2-3=-753/0, 3-4=-1066/0, 4-5=-1248/0, 5-6=-1292/0, 6-7=-1292/0, 7-8=-1061/0, 8-9=-755/0, 9-10=-303/0

BOT CHORD 19-20=0/563, 18-19=0/937, 17-18=0/1190, 16-17=0/1292, 15-16=0/1292, 14-15=0/1185, 13-14=0/939, 12-13=0/563

WEBS 10-12=0/631, 1-20=0/632, 9-12=-615/0, 2-20=-615/0, 9-13=0/454, 2-19=0/450, 8-13=-435/0, 3-19=-435/0, 8-14=0/288, 3-18=0/304, 7-14=-295/0, 4-18=-294/0, 7-15=0/380, 5-17=-257/61

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

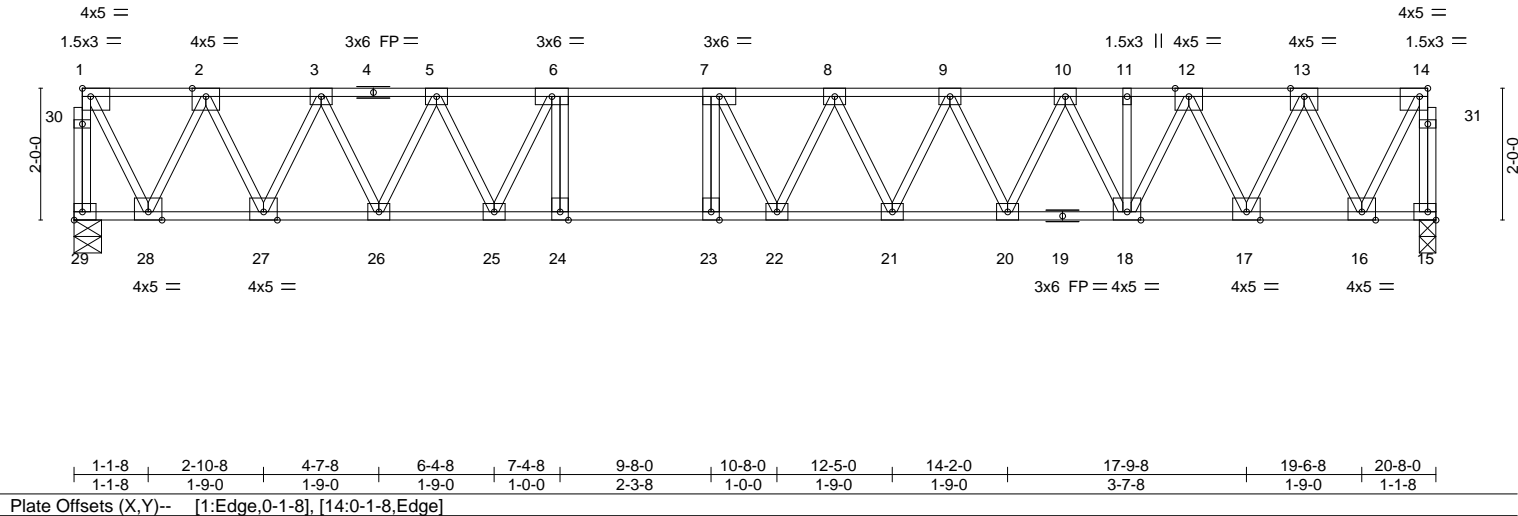
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758736
4371416	F15	FLOOR	4	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:32 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-j?2XFIBPw9M4wn2?OWKU_MqJJo_ozCfsTbZ2vlyAnL1



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.70	Vert(LL)	-0.18 22-23	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.62	Vert(CT)	-0.27 22-23	>917	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.04 15	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 142 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 29=0-5-0, 15=0-3-0
Max Grav 29=812(LC 1), 15=812(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=808/0, 14-15=-808/0, 1-2=-404/0, 2-3=-1032/0, 3-5=-1520/0, 5-6=-1881/0, 6-7=-2138/0, 7-8=-2213/0, 8-9=-2123/0, 9-10=-1902/0, 10-11=-1541/0, 11-12=-1541/0, 12-13=-1031/0, 13-14=-404/0
BOT CHORD 27-28=0/752, 26-27=0/1308, 25-26=0/1719, 24-25=0/2138, 23-24=0/2138, 22-23=0/2138, 21-22=0/2209, 20-21=0/2040, 18-20=0/1755, 17-18=0/1302, 16-17=0/753
WEBS 6-24=-8/342, 7-23=-318/33, 1-28=0/843, 2-28=-822/0, 2-27=0/662, 3-27=-654/0, 3-26=0/502, 14-16=0/844, 13-16=-825/0, 13-17=0/657, 12-17=-642/0, 12-18=0/534, 10-18=-479/0, 10-20=0/345, 9-20=-327/0, 5-26=-469/0, 5-25=0/425, 6-25=-668/0, 7-22=-171/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

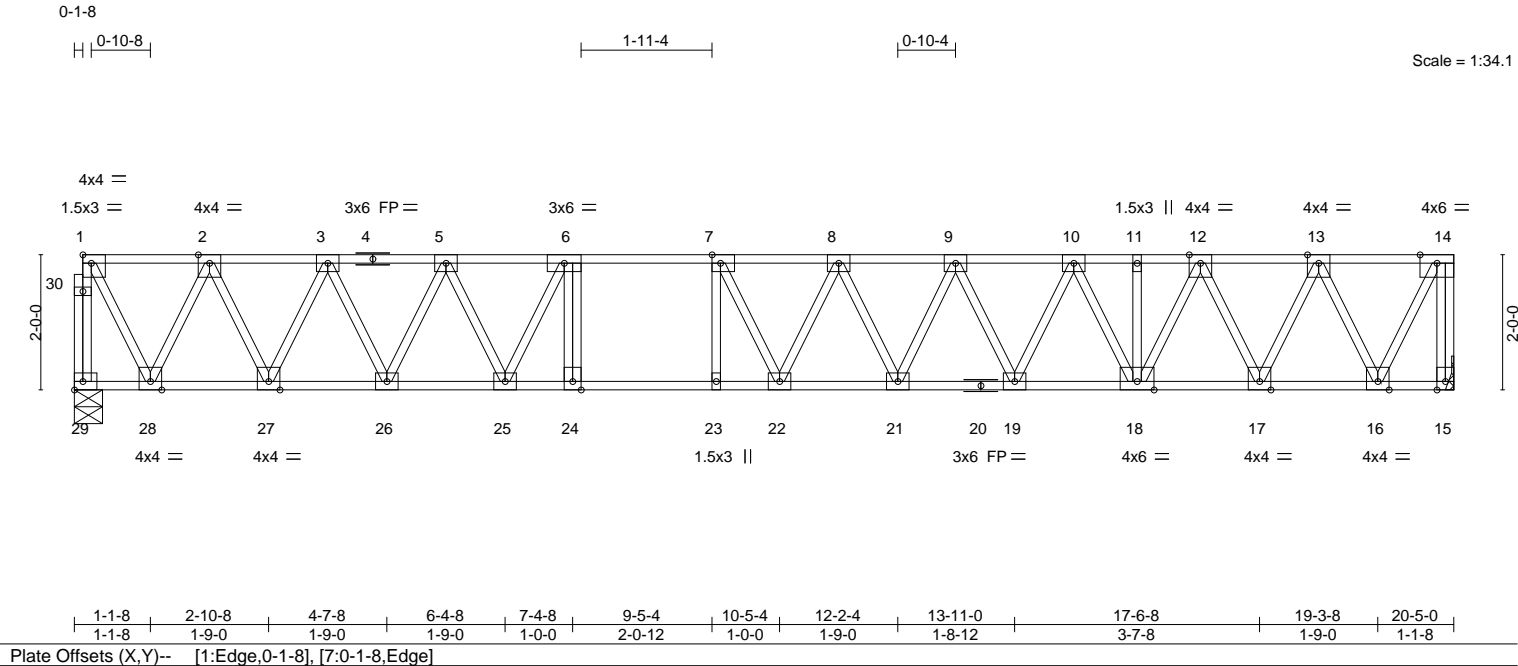
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758737
4371416	F16	FLOOR	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:33 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-BBcvS5C1hSUxYxdCyDrjWZNUACKiift?iFJbRlyAnL0



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.63	Vert(LL)	-0.16 22-23	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.58	Vert(CT)	-0.24 22-23	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.03 15	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 139 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 29=0-5-0, 15=Mechanical
Max Grav 29=802(LC 1), 15=807(LC 1)

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

TOP CHORD 1-29=-798/0, 14-15=-802/0, 1-2=-399/0, 2-3=-1017/0, 3-5=-1497/0, 5-6=-1847/0, 6-7=-2089/0, 7-8=-2159/0, 8-9=-2078/0, 9-10=-1868/0, 10-11=-1517/0, 11-12=-1517/0, 12-13=-1017/0, 13-14=-398/0

BOT CHORD 27-28=0/742, 26-27=0/1288, 25-26=0/1692, 24-25=0/2089, 23-24=0/2089, 22-23=0/2089, 21-22=0/2159, 19-21=0/2001, 18-19=0/1726, 17-18=0/1283, 16-17=0/744

WEBS 6-24=-13/324, 7-23=-312/36, 1-28=0/832, 2-28=-811/0, 2-27=0/651, 3-27=-642/0, 3-26=0/492, 5-26=-461/0, 14-16=0/847, 13-16=-817/0, 13-17=0/645, 12-17=-630/0, 12-18=0/523, 10-18=-468/0, 10-19=0/334, 9-19=-317/0, 5-25=0/408, 6-25=-630/0, 7-22=-164/326

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

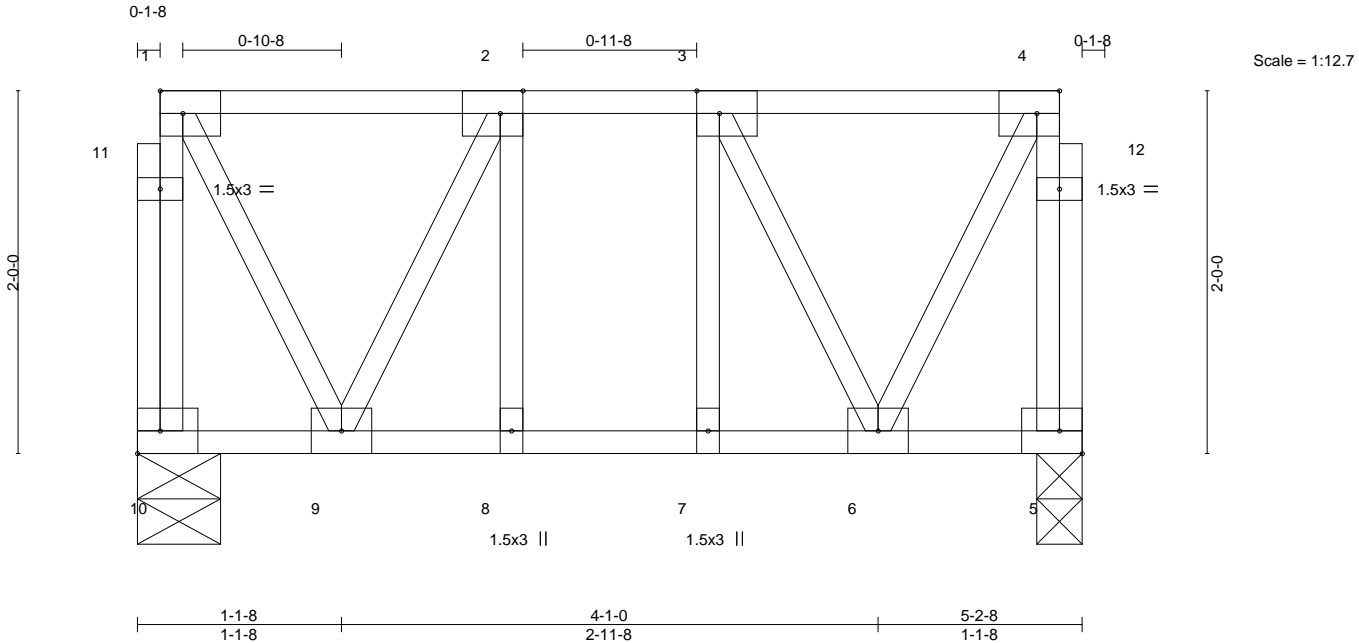
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758738
4371416	F17	FLOOR	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:33 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-BBcvS5C1hSUXYxdCyDrjWZNacCRTikj?iFJbRlyAnL0



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 60.0	Plate Grip DOL	1.00	TC 0.21	Vert(LL)	-0.01	8	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.15	Vert(CT)	-0.01	8	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S						Weight: 42 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (size) 10=0-5-8, 5=0-3-0
Max Grav 10=258(LC 1), 5=258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-255/0, 4-5=-255/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been
digitally signed and
sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

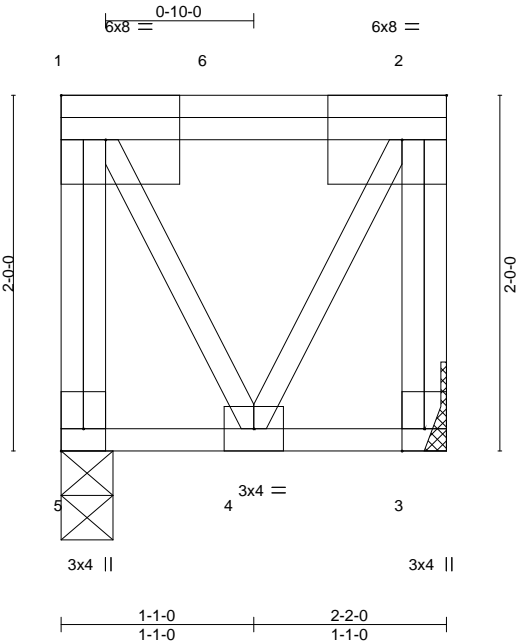
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	F18	FLOOR GIRDER	1	1	T35758739
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:33 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-BBcvS5C1hSUxYxdCyDrjWZNQCCtci9?iFJbRlyAnL0



Scale = 1:13.0

Plate Offsets (X,Y)--		[2:0-3-0,Edge], [5:Edge,0-1-8]											
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL 1.00		TC	0.88	Vert(LL)	-0.00	4	>999	360	MT20	244/190	
TCDL	15.0	Lumber DOL 1.00		BC	0.01	Vert(CT)	-0.00	5	>999	240			
BCLL	0.0	Rep Stress Incr NO		WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL	5.0	Code FBC2023/TPI2014		Matrix-P						Weight: 25 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical
Max Grav 5=513(LC 1), 3=398(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-509/0, 2-3=-393/0

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 758 lb down at 0-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 4) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 3-5=-7, 1-2=-73
Concentrated Loads (lb)
Vert: 6=-758(B)

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758740
4371416	F19	FLOOR	5	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:34 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-fNAIgRDgSmco95COVxMy3rvh1bf9R8R8xv28zByAnL?

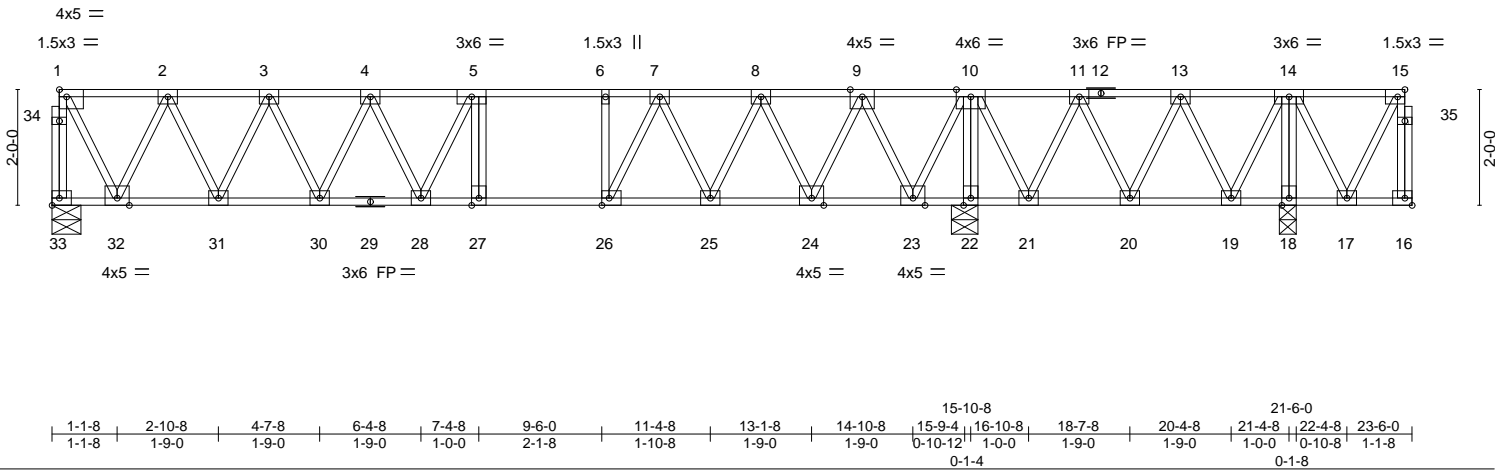


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [15:0-1-8,Edge], [26:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.49
TCDL 15.0	Lumber DOL	1.00	BC 0.69
BCLL 0.0	Rep Stress Incr	YES	WB 0.32
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.08 27-28	>999	360
Vert(CT)	-0.12 27-28	>999	240
Horz(CT)	0.02 22	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 165 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 33=0-6-0, 22=0-5-8, 18=0-3-8
Max Grav 33=580(LC 5), 22=1022(LC 3), 18=352(LC 4)

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

TOP CHORD 1-33=-577/0, 1-2=-281/0, 2-3=-692/0, 3-4=-966/0, 4-5=-1107/0, 5-6=-1103/0,
6-7=-1103/0, 7-8=-792/0, 8-9=-446/0, 9-10=-139/263, 10-11=-44/373
BOT CHORD 31-32=0/521, 30-31=0/855, 28-30=0/1075, 27-28=0/1103, 26-27=0/1103, 25-26=0/945,
24-25=0/652, 23-24=-19/294, 22-23=-539/0, 21-22=-539/0
WEBS 10-22=-986/0, 14-18=-338/0, 1-32=0/585, 2-32=-569/0, 2-31=0/402, 3-31=-386/0,
3-30=0/262, 4-30=-258/0, 10-23=0/671, 9-23=-662/0, 9-24=0/519, 8-24=-490/0,
8-25=0/332, 11-21=-351/0, 10-21=0/353, 7-25=-365/0, 7-26=0/402

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

This item has been
digitally signed and
sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758741
4371416	F20	FLOOR	7	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:35 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7ZkgtnEID4kfnEna3euBc_Ssn?_OAbhIAZoIVdyAnL_

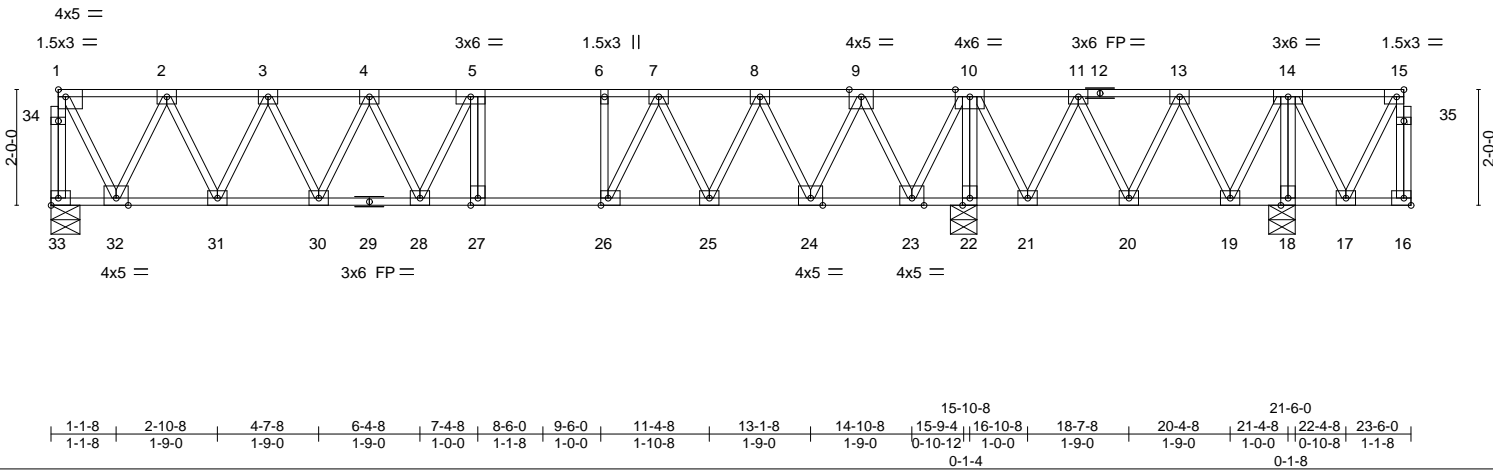


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [15:0-1-8,Edge], [26:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-4-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.49
TCDL 15.0	Lumber DOL	1.00	BC 0.69
BCLL 0.0	Rep Stress Incr	YES	WB 0.32
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.08 27-28	>999	360
Vert(CT)	-0.12 27-28	>999	240
Horz(CT)	0.02 22	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 165 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 33=0-6-0, 22=0-5-8, 18=0-5-8
Max Grav 33=580(LC 5), 22=1022(LC 3), 18=352(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-33=-577/0, 1-2=-281/0, 2-3=-692/0, 3-4=-966/0, 4-5=-1107/0, 5-6=-1103/0, 6-7=-1103/0, 7-8=-792/0, 8-9=-446/0, 9-10=-139/263, 10-11=-44/373
BOT CHORD 31-32=0/521, 30-31=0/855, 28-30=0/1075, 27-28=0/1103, 26-27=0/1103, 25-26=0/945, 24-25=0/652, 23-24=-19/294, 22-23=-539/0, 21-22=-539/0
WEBS 10-22=-986/0, 14-18=-338/0, 1-32=0/585, 2-32=-569/0, 2-31=0/402, 3-31=-386/0, 3-30=0/262, 4-30=-258/0, 10-23=0/671, 9-23=-662/0, 9-24=0/519, 8-24=-490/0, 8-25=0/332, 11-21=-351/0, 10-21=0/353, 7-25=-365/0, 7-26=0/402

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

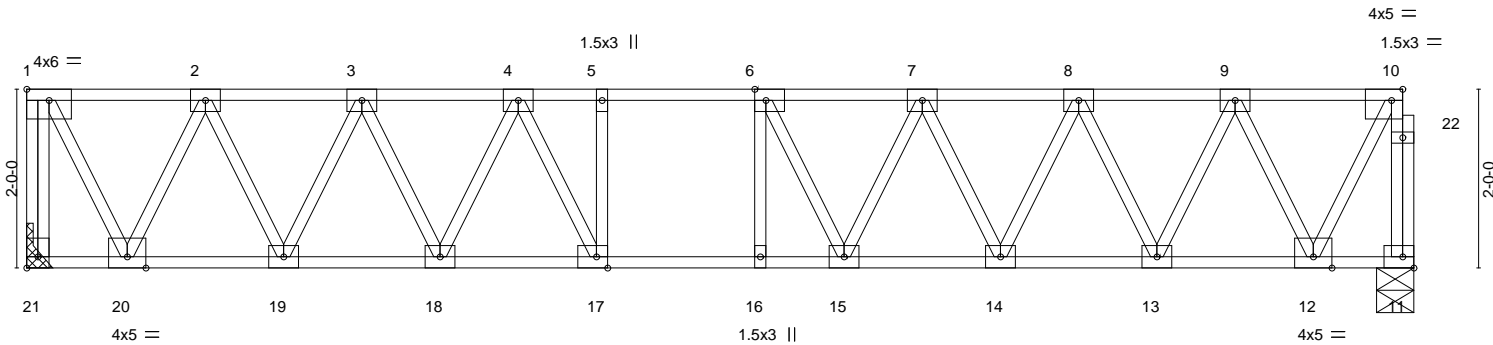
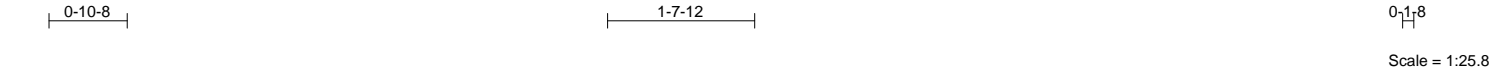
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758742
4371416	F21	FLOOR	15	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:35 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7ZkgtnEID4kfnEna3euBc_Suq??8Ab1IAZoiVdyAnL_



15-6-4									
15-6-4									
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge], [21:Edge,0-1-8]									
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 40.0		Plate Grip DOL 1.00		TC 0.36		Vert(LL) -0.06 15-16	>999 360	MT20	244/190
TCDL 15.0		Lumber DOL 1.00		BC 0.58		Vert(CT) -0.09 15-16	>999 240		
BCLL 0.0		Rep Stress Incr YES		WB 0.30		Horz(CT) 0.02 11	n/a n/a		
BCDL 5.0		Code FBC2023/TPI2014		Matrix-S				Weight: 105 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 21=Mechanical, 11=0-5-0
Max Grav 21=611(LC 1), 11=606(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-607/0, 10-11=-603/0, 1-2=-294/0, 2-3=-732/0, 3-4=-1024/0, 4-5=-1230/0, 5-6=-1230/0, 6-7=-1195/0, 7-8=-1028/0, 8-9=-730/0, 9-10=-295/0
BOT CHORD 19-20=0/548, 18-19=0/908, 17-18=0/1140, 16-17=0/1230, 15-16=0/1230, 14-15=0/1145, 13-14=0/907, 12-13=0/547
WEBS 10-12=0/614, 1-20=0/625, 9-12=-597/0, 2-20=-600/0, 9-13=0/432, 2-19=0/435, 8-13=-418/0, 3-19=-417/0, 8-14=0/287, 3-18=0/273, 7-14=-277/0, 4-18=-277/0, 4-17=0/332

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

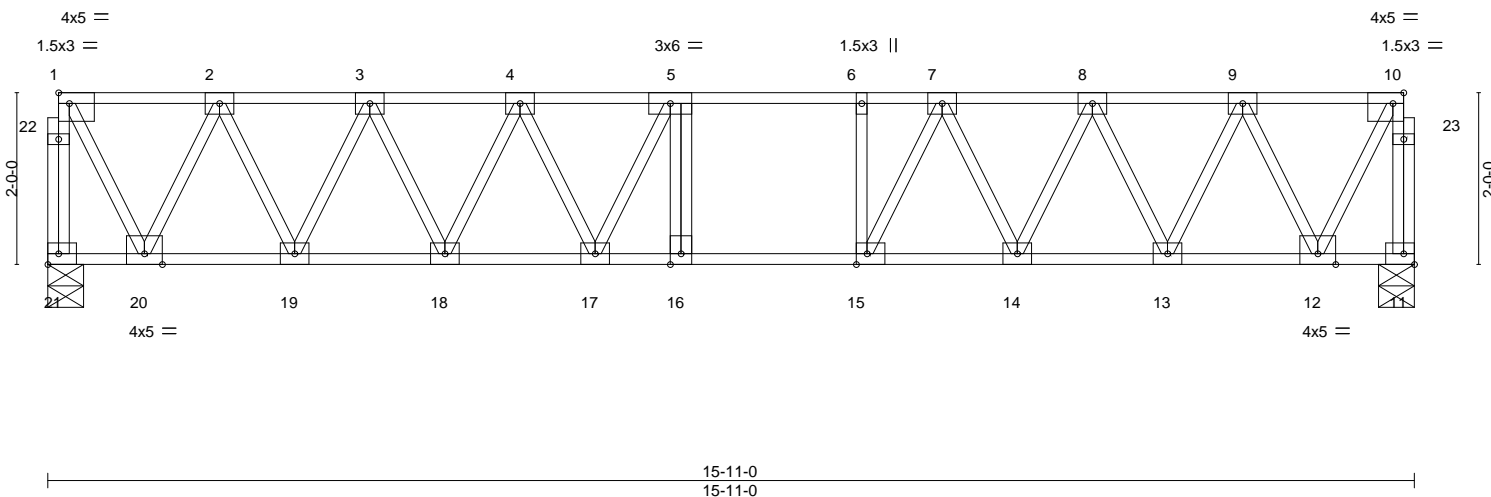
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:36 2024 Page 1
ID: j1GsU3rgen88z VCSO8tWpvlf0E-bml247EwzNsWPOMndMPQ8B 19PK8v2ERODXF14vAnKz

0-1-8
Scale = 1:26.8



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.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024



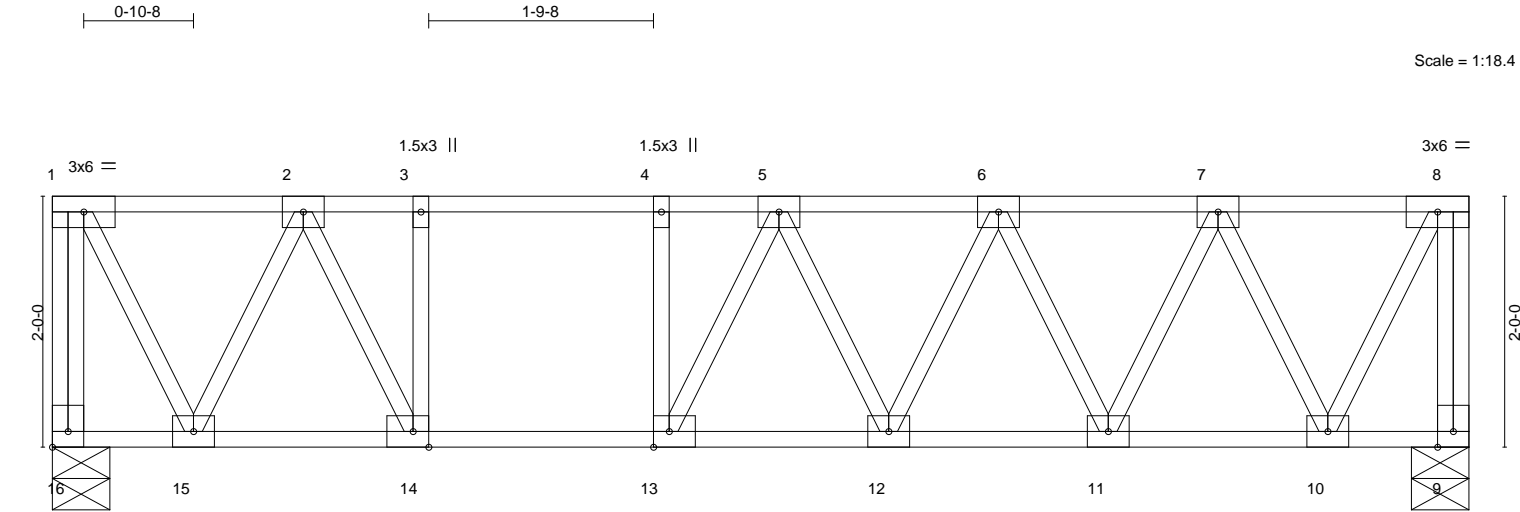
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758744
4371416	F24	FLOOR	6	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:36 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-bml247EwzNsWPOMndMPQ8B__8PMfv3RR0DXF14yAnKz



1-1-8		2-10-8		5-9-8		6-8-0		8-5-0		10-2-0		11-3-8	
1-1-8		1-9-0		2-11-0		0-10-8		1-9-0		1-9-0		1-1-8	
Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:Edge,0-1-8]													
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL 1.00		TC	0.64	Vert(LL)	-0.07 12-13	>999	360	MT20		244/190	
TCDL	15.0	Lumber DOL 1.00		BC	0.56	Vert(CT)	-0.10 12-13	>999	240				
BCLL	0.0	Rep Stress Incr YES		WB	0.22	Horz(CT)	0.01 9	n/a	n/a				
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S						Weight: 78 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 16=0-5-8, 9=0-5-8
Max Grav 16=442(LC 1), 9=442(LC 1)

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

TOP CHORD 1-16=-421/0, 8-9=-440/0, 2-3=-574/0, 3-4=-574/0, 4-5=-574/0, 5-6=-632/0, 6-7=-480/0
BOT CHORD 14-15=0/380, 13-14=0/574, 12-13=0/651, 11-12=0/583, 10-11=0/379
WEBS 8-10=0/436, 1-15=0/404, 7-10=-410/0, 2-15=-450/0, 2-14=0/468, 3-14=-291/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758745
4371416	F25	FLOOR	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:36 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-bml247EwzNsWPOMndMPQ8B_7IPUev5iRODXF14yAnKz

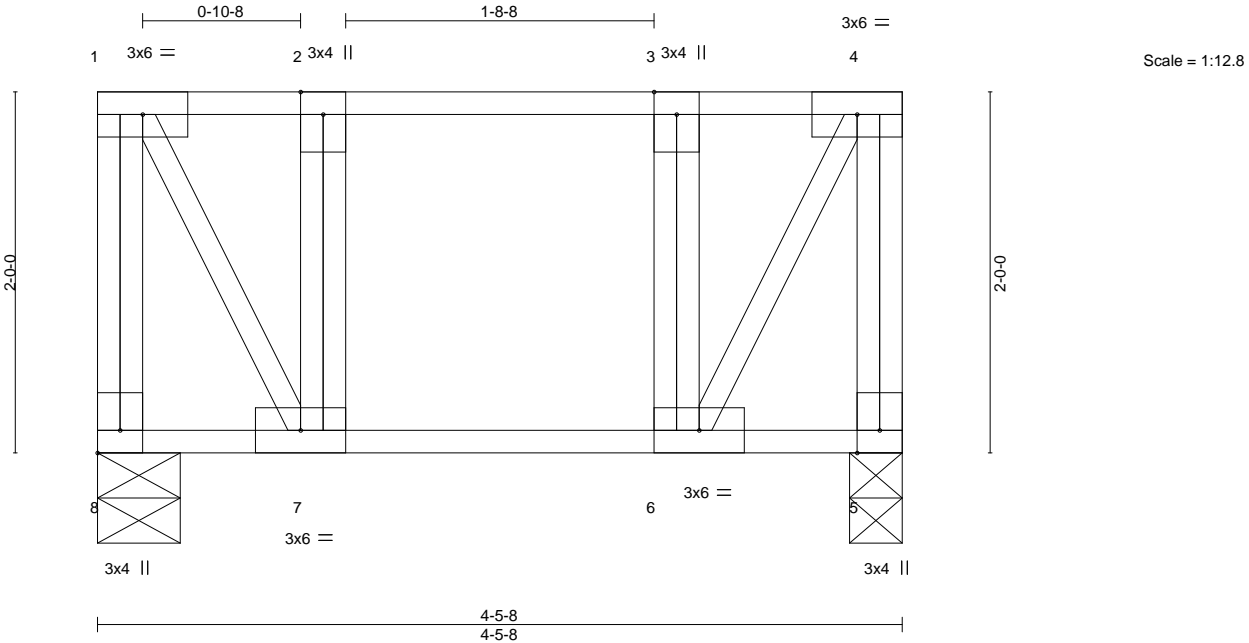


Plate Offsets (X,Y)--	[8:Edge,0-1-8]								
LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.12	Vert(LL)	-0.00 7	>999	360	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.05	Vert(CT)	-0.00 6	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00 5	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 40 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-8
Max Grav 8=168(LC 1), 5=168(LC 1)

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

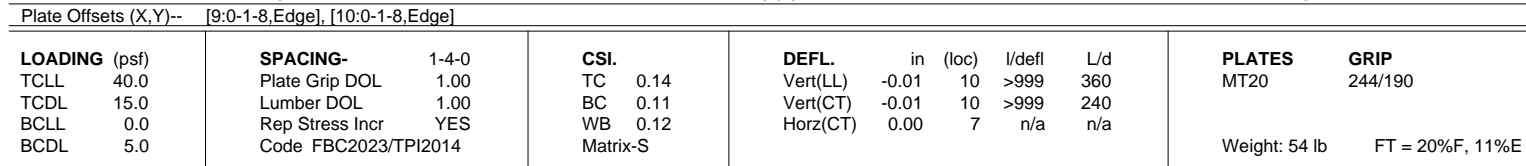
December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:37 2024 Page 1
ID:1GsU3rgen88z VCSO8tWpYlF0E-3vrQISFYkh N0YxzB3wfhPXHoppveYJbdtHpZWwAnKv



LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)		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) 12=0-5-8, 7=0-5-8 Max Grav 12=277(LC 1), 7=282(LC 1)			
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	1-12=-275/0, 6-7=-279/0, 2-3=-258/0, 3-4=-258/0, 4-5=-258/0		
BOT CHORD	9-10=0/258		
WEBS	6-8=0/252		

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION. Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758747
4371416	F27	FLOOR	3	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:37 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-3yrQISFYkh_N0YxzB3wfhPXE_ph7eUEbdtHpZWYAnKy

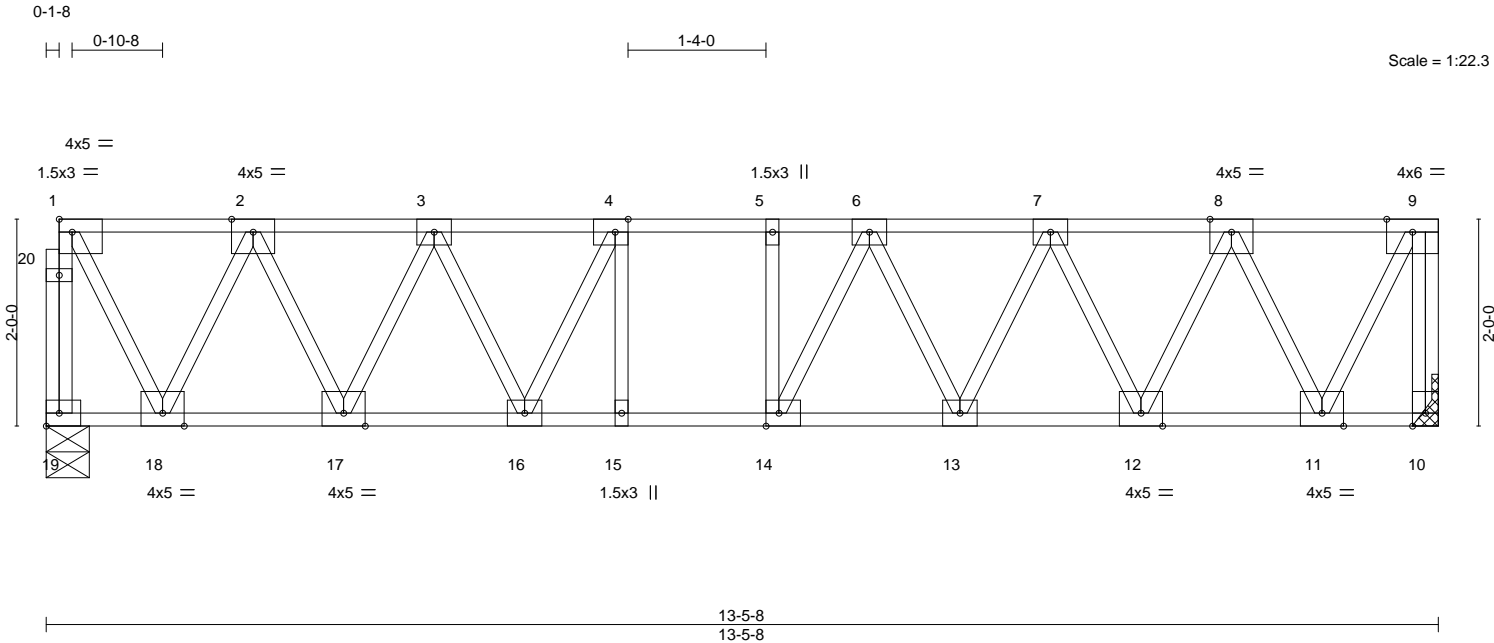


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [4:0-1-8,Edge], [14:0-1-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.38
TCDL 15.0	Lumber DOL	1.00	BC 0.61
BCLL 0.0	Rep Stress Incr	YES	WB 0.38
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.06 13-14 >999 360
			Vert(CT) -0.08 13-14 >999 240
			Horz(CT) 0.02 10 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 93 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-5-0, 10=Mechanical
Max Grav 19=786(LC 1), 10=792(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-781/0, 9-10=-788/0, 1-2=-376/0, 2-3=-914/0, 3-4=-1244/0, 4-5=-1381/0, 5-6=-1381/0, 6-7=-1246/0, 7-8=-914/0, 8-9=-376/0
BOT CHORD 17-18=0/698, 16-17=0/1121, 15-16=0/1381, 14-15=0/1381, 13-14=0/1355, 12-13=0/1124, 11-12=0/698
WEBS 9-11=0/799, 1-18=0/783, 8-11=-762/0, 2-18=-760/0, 8-12=0/512, 2-17=0/512, 7-12=-495/0, 3-17=-489/0, 7-13=0/289, 3-16=0/336, 6-13=-257/0, 4-16=-412/0, 6-14=-118/269

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

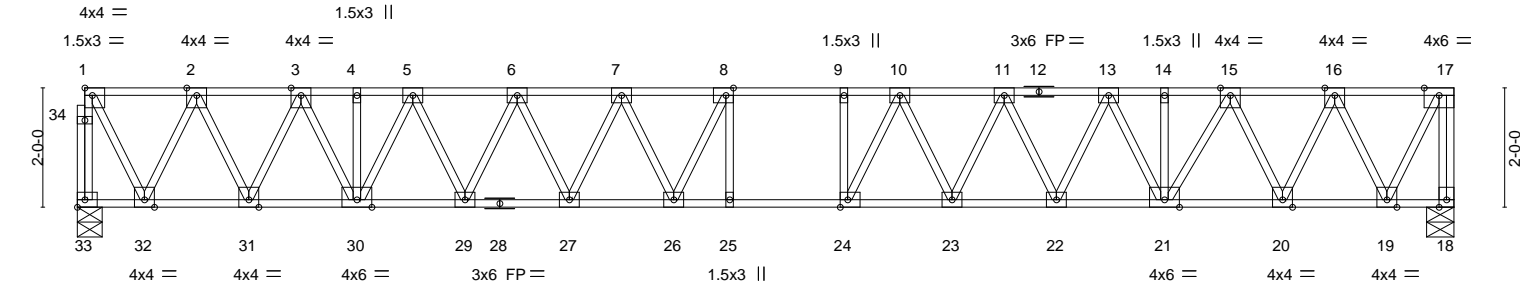
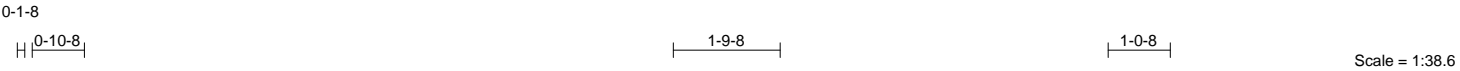
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758748
4371416	F28	FLOOR	9	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:38 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Y8PoVoGAV?6EeiW9knRuDc4MRD?4NvDksX0M5yyAnKx



1-1-8		2-10-8		6-6-0		8-3-0		10-0-0		10-10-8		12-11-0		14-8-0		16-5-0		20-2-8		21-11-8		23-1-0	
1-1-8		1-9-0		3-7-8		1-9-0		1-9-0		0-10-8		2-0-8		1-9-0		1-9-0		3-9-8		1-9-0		1-1-8	
Plate Offsets (X,Y)--				[1:Edge,0-1-8], [8:0-1-8,Edge], [24:0-1-8,Edge]																			
LOADING (psf)		SPACING-		1-4-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP					
TCLL	40.0	Plate Grip DOL		1.00		TC	0.53	Vert(LL)	-0.19	25	>999	360	MT20	244/190									
TCDL	15.0	Lumber DOL		1.00		BC	0.76	Vert(CT)	-0.29	25	>960	240											
BCLL	0.0	Rep Stress Incr		YES		WB	0.46	Horz(CT)	0.06	18	n/a	n/a											
BCDL	5.0	Code FBC2023/TPI2014				Matrix-S										Weight: 156 lb		FT = 20%F, 11%E					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 33=0-5-0, 18=0-5-8
Max Grav 33=909(LC 1), 18=913(LC 1)

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

TOP CHORD 1-33=905/0, 17-18=909/0, 1-2=-456/0, 2-3=-1173/0, 3-4=-1777/0, 4-5=-1777/0, 5-6=-2230/0, 6-7=-2542/0, 7-8=-2720/0, 8-9=-2765/0, 9-10=-2765/0, 10-11=-2560/0, 11-13=-2266/0, 13-14=-1826/0, 14-15=-1826/0, 15-16=-1173/0, 16-17=-455/0

BOT CHORD 31-32=0/850, 30-31=0/1489, 29-30=0/2038, 27-29=0/2416, 26-27=0/2663, 25-26=0/2765, 24-25=0/2765, 23-24=0/2676, 22-23=0/2446, 21-22=0/2079, 20-21=0/1489, 19-20=0/850

WEBS 17-19=0/968, 1-32=0/952, 16-19=934/0, 2-32=931/0, 16-20=0/763, 2-31=0/763, 15-20=-747/0, 3-31=-749/0, 15-21=0/664, 3-30=0/643, 13-21=-566/0, 5-30=-584/0, 13-22=0/443, 5-29=0/454, 11-22=-426/0, 6-29=-440/0, 6-27=0/298, 7-27=-288/0, 7-26=-25/271, 8-26=-358/164, 9-24=-251/6, 11-23=0/278, 10-23=-335/0, 10-24=-97/441

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

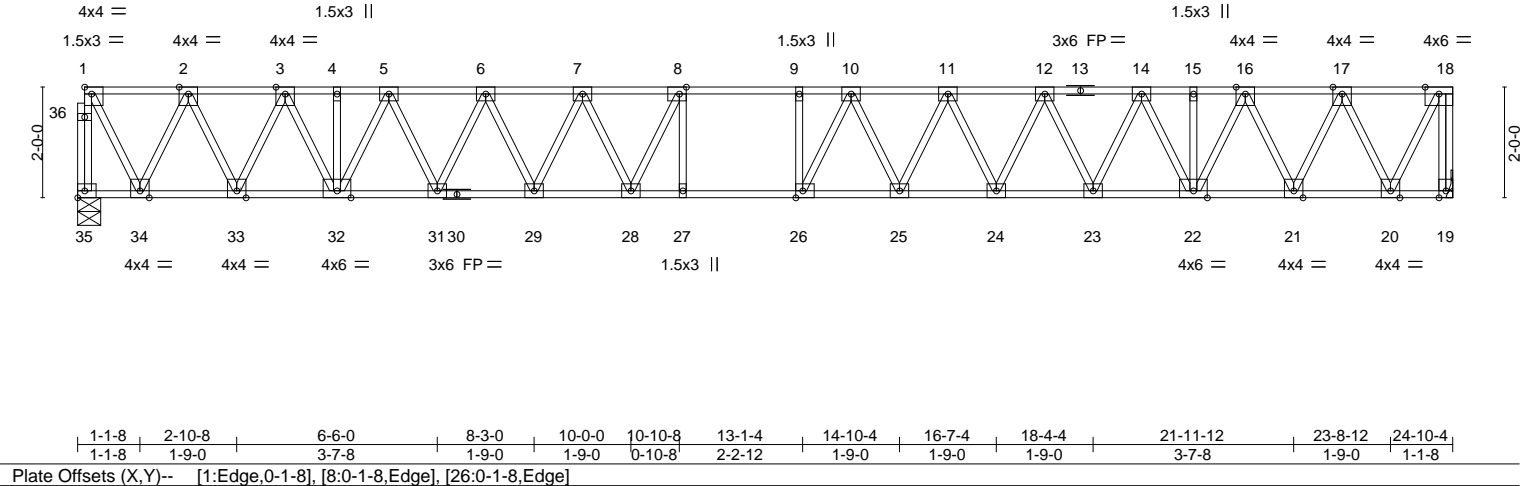
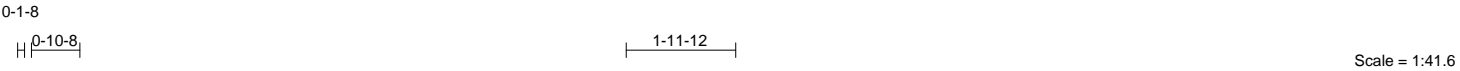
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	F29	FLOOR	3	1	T35758749
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:39 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-0LzAj8HoGIE5Gs4MIUy7mqcXxcPL6MWu4BmvdOyAnKw



LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.54	Vert(LL)	-0.23	26	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.50	Vert(CT)	-0.32	26	>914	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.06	19	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S						Weight: 167 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 35=0-5-0, 19=Mechanical
Max Grav 35=898(LC 1), 19=902(LC 1)

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

TOP CHORD 1-35=-894/0, 18-19=-897/0, 1-2=-452/0, 2-3=-1170/0, 3-4=-1786/0, 4-5=-1786/0, 5-6=-2265/0, 6-7=-2610/0, 7-8=-2837/0, 8-9=-2942/0, 9-10=-2942/0, 10-11=-2838/0, 11-12=-2610/0, 12-14=-2265/0, 14-15=-1786/0, 15-16=-1786/0, 16-17=-1170/0, 17-18=-452/0

BOT CHORD 33-34=0/843, 32-33=0/1490, 31-32=0/2058, 29-31=0/2466, 28-29=0/2747, 27-28=0/2942, 26-27=0/2942, 25-26=0/2911, 24-25=0/2752, 23-24=0/2465, 22-23=0/2058, 21-22=0/1490, 20-21=0/844

WEBS 18-20=0/960, 1-34=0/945, 17-20=-927/0, 2-34=-925/0, 17-21=0/771, 2-33=0/772, 16-21=-756/0, 3-33=-757/0, 16-22=0/662, 3-32=0/662, 14-22=-608/0, 5-32=-607/0, 14-23=0/488, 5-31=0/489, 12-23=-474/0, 6-31=-477/0, 12-24=0/343, 6-29=0/341, 7-29=-324/0, 7-28=0/333, 8-28=-489/113, 11-24=-335/0, 10-25=-287/13, 10-26=-216/382

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

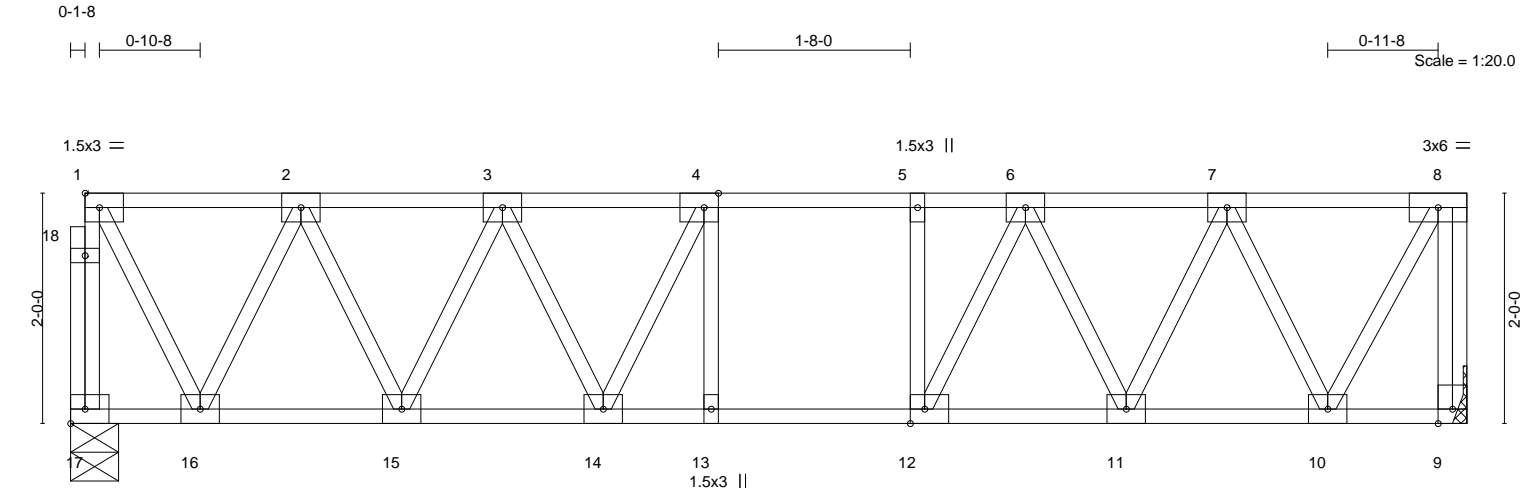
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758750
4371416	F30	FLOOR	11	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:39 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-0LzAj8HoGIE5Gs4MIUy7mqcbrCQg6Q5u4BmvdOyAnKw



1-1-8	2-10-8	4-7-8	5-6-0	7-5-0	9-2-0	10-11-0	12-1-8
1-1-8	1-9-0	1-9-0	0-10-8	1-11-0	1-9-0	1-9-0	1-2-8
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge]							
LOADING (psf)		SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL 1.00	TC 0.29	Vert(LL) -0.04 13 >999 360	MT20	244/190	
TCDL	15.0	Lumber DOL 1.00	BC 0.42	Vert(CT) -0.05 13 >999 240			
BCLL	0.0	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01 9 n/a n/a			
BCDL	5.0	Code FBC2023/TPI2014	Matrix-S				
					Weight: 83 lb	FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (size) 17=0-5-0, 9=Mechanical
Max Grav 17=470(LC 1), 9=475(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-468/0, 8-9=-473/0, 2-3=-532/0, 3-4=-701/0, 4-5=-740/0, 5-6=-740/0, 6-7=-539/0
BOT CHORD 15-16=0/411, 14-15=0/648, 13-14=0/740, 12-13=0/740, 11-12=0/651, 10-11=0/428
WEBS 8-10=0/480, 1-16=0/462, 7-10=-444/0, 2-16=-446/0, 7-11=0/263, 2-15=0/286, 6-11=-264/0, 3-15=-275/0, 6-12=0/285

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758751
4371416	HJ04	Diagonal Hip Girder	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:40 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-UXXZwUHQ1cMyt0fYsCTMJ19mM0pUrwv1JrVTArYAnKv

-2-1-7

2-1-7

3-8-8

3-8-8

Scale = 1:19.4

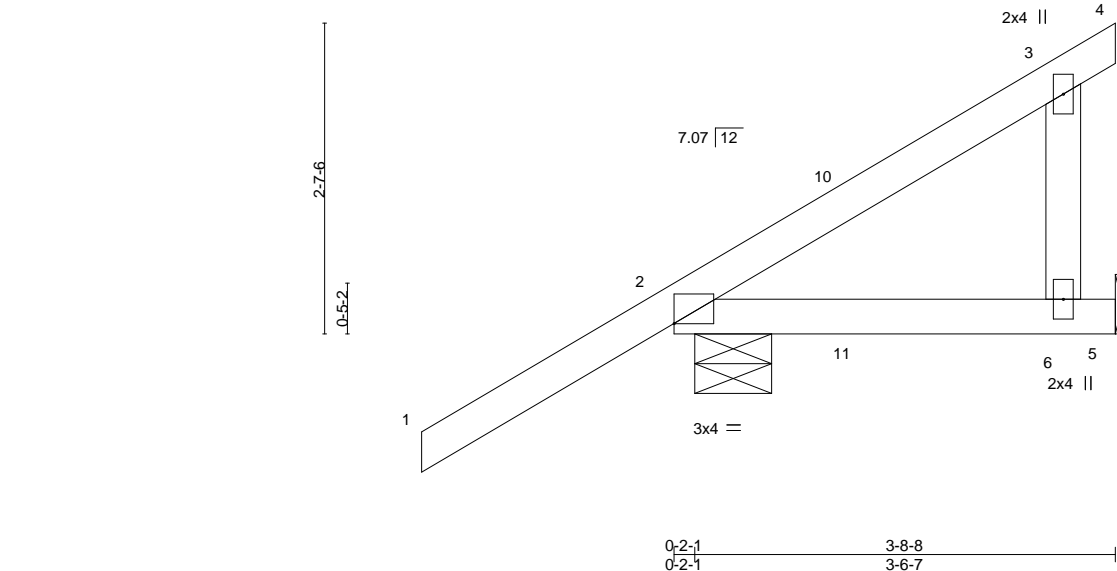


Plate Offsets (X,Y)--	[2:0-0-0,0-0-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	-0.03 6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.04 6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP					Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-7-12, 5=Mechanical
Max Horz 2=180(LC 8)
Max Uplift 2=-108(LC 8), 5=-50(LC 8)
Max Grav 2=283(LC 1), 5=128(LC 26)

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=35ft; Cat. II; Exp C; 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 108 lb uplift at joint 2 and 50 lb uplift at joint 5.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 61 lb up at 1-6-1, and 103 lb down and 61 lb up at 1-6-1 on top chord, and 41 lb down and 49 lb up at 1-6-1, and 41 lb down and 49 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

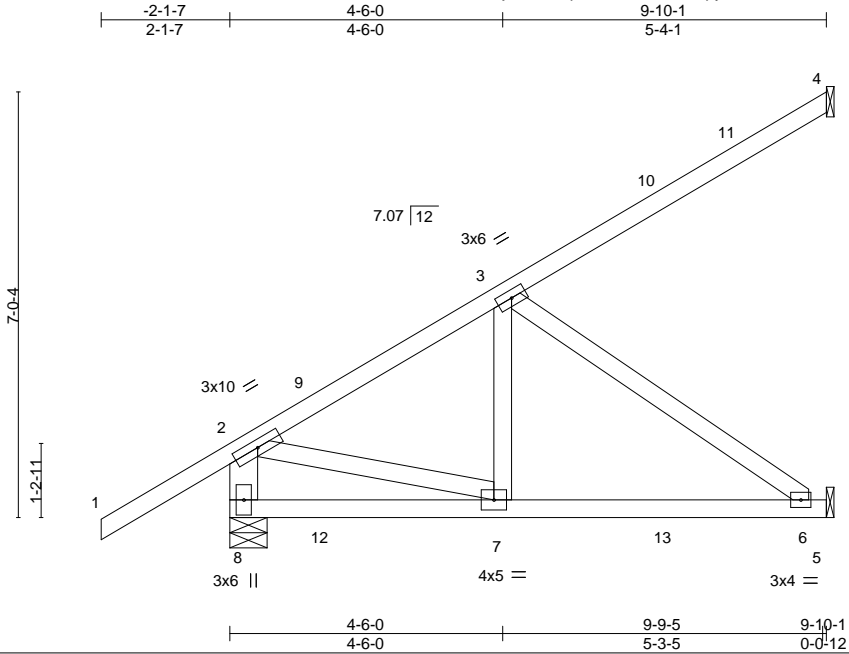
December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758752
4371416	HJ10	Diagonal Hip Girder	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:40 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-UXXZwUHQ1cMyt0fYsCTMJ19c?0kirqR1JrVTArYAnKv



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 0.91	Vert(LL)	0.10 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.11 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	-0.01 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 57 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *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=0-7-6, 4=Mechanical, 5=Mechanical
Max Horz 8=347(LC 8)
Max Uplift 8=-468(LC 8), 4=-206(LC 8), 5=-414(LC 8)
Max Grav 8=541(LC 35), 4=181(LC 35), 5=379(LC 35)

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

TOP CHORD 2-8=-534/444, 2-3=-651/510
BOT CHORD 7-8=-277/107, 6-7=-573/456
WEBS 2-7=-515/554, 3-6=-558/701

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 468 lb uplift at joint 8, 206 lb uplift at joint 4 and 414 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 107 lb down and 124 lb up at 1-6-1, 107 lb down and 124 lb up at 1-6-1, 137 lb down and 151 lb up at 4-4-0, 137 lb down and 151 lb up at 4-4-0, and 183 lb down and 225 lb up at 7-1-15, and 183 lb down and 225 lb up at 7-1-15 on top chord, and 20 lb down and 68 lb up at 1-6-1, 20 lb down and 68 lb up at 1-6-1, 37 lb down and 35 lb up at 4-4-0, 37 lb down and 35 lb up at 4-4-0, and 65 lb down and 64 lb up at 7-1-15, and 65 lb down and 64 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=6(F=3, B=3) 9=62(F=31, B=31) 10=-67(F=-34, B=-34) 12=61(F=30, B=30) 13=-38(F=-19, B=-19)

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758753
4371416	HJ10A	Diagonal Hip Girder	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:41 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-yj5x8ql3owUoV9EkQv_brFimFQ2LaH7AYVf0iHyAnKu

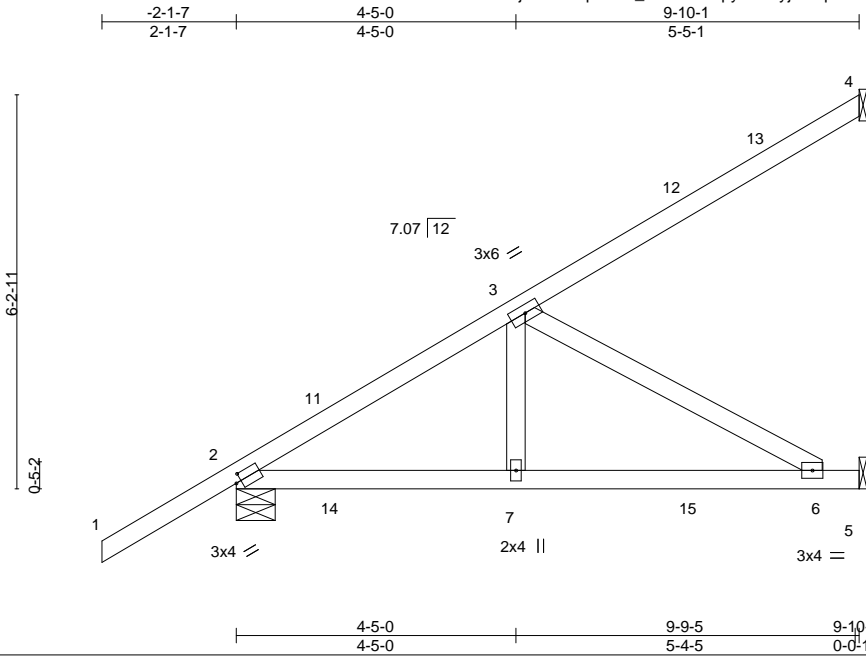


Plate Offsets (X,Y)--	[2:0-1-0,0-1-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.94	Vert(LL)	0.12 6-7	>975	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.14 6-7	>811	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.39	Horz(CT)	-0.01 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 47 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-10-9 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-7-6, 5=Mechanical
Max Horz 2=368(LC 8)
Max Uplift 4=-212(LC 8), 2=-248(LC 8), 5=-258(LC 8)
Max Grav 4=184(LC 35), 2=526(LC 1), 5=356(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-796/455
BOT CHORD 2-7=-498/559, 6-7=-498/559
WEBS 3-7=-41/305, 3-6=-641/571

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 212 lb uplift at joint 4, 248 lb uplift at joint 2 and 258 lb uplift at joint 5.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 61 lb up at 1-6-1, 103 lb down and 61 lb up at 1-6-1, 131 lb down and 132 lb up at 4-4-0, 131 lb down and 132 lb up at 4-4-0, and 173 lb down and 218 lb up at 7-1-15, and 173 lb down and 218 lb up at 7-1-15 on top chord, and 41 lb down and 49 lb up at 1-6-1, 41 lb down and 49 lb up at 1-6-1, 32 lb down and 10 lb up at 4-4-0, 32 lb down and 10 lb up at 4-4-0, and 56 lb down and 31 lb up at 7-1-15, and 56 lb down and 31 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=-3(F=-2, B=-2) 12=-72(F=-36, B=-36) 15=-59(F=-30, B=-30)

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:41 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-yj5x8qI3owUoV9EkQv_brFirQ00eaDiAYVf0iHyAnKu
-2-1-7 4-6-0 9-10-1
2-1-7 4-6-0 5-4-1
Scale = 1:21.6

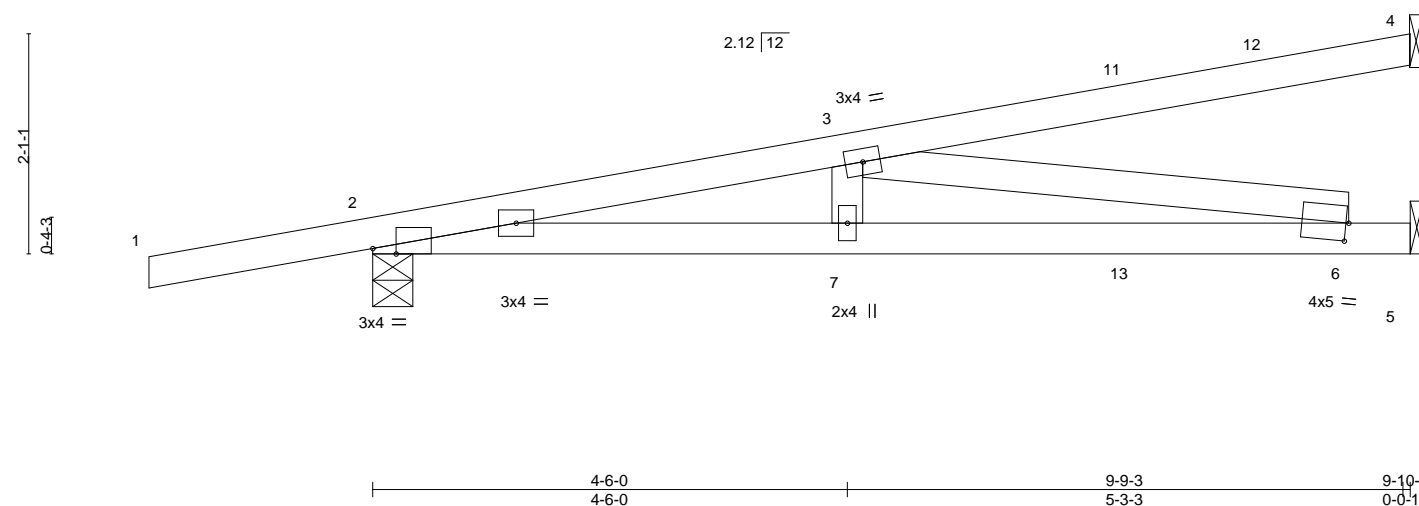


Plate Offsets (X,Y)-- [2:0-2-11,Edge], [6:0-0-5,0-2-1]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.22	6-7	>522	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.19	6-7	>615	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 41 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-3 oc purlins. Rigid ceiling directly applied or 4-6-9 oc bracing.
BOT CHORD	2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.3		

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=120(LC 25)
Max Uplift 4=-133(LC 8), 2=-527(LC 4), 5=-283(LC 4)
Max Grav 4=158(LC 1), 2=531(LC 1), 5=294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1388/1230
 BOT CHORD 2-7=-1276/1357, 6-7=-1276/1357
 WEBS 3-7=-173/276, 3-6=-1378/1296

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain load 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 133 lb uplift at joint 4, 527 lb uplift at joint 2 and 283 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 59 lb up at 4-4-0, 29 lb down and 59 lb up at 4-4-0, and 52 lb down and 113 lb up at 7-1-15, and 52 lb down and 113 lb up at 7-1-15 on top chord, and 71 lb down and 22 lb up at 1-6-1, 71 lb down and 22 lb up at 1-6-1, 19 lb down and 42 lb up at 4-4-0 and 42 lb up at 4-4-0, and 41 lb down and 76 lb up at 7-1-15, and 41 lb down and 76 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: 3=-0(F=-0, B=-0) 7=-13(F=-7, B=-7) 11=-68(F=-34, B=-34) 13=-63(F=-32, B=-32)

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-10-3 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-6-9 oc bracing.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758755
4371416	HJ13	Roof Special Girder	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:42 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-QwfJLAJhZDcf7JpwzcWqOSE0TqRCJcyKn9_ZEjyAnKt

-2-1-7

4-4-0

8-8-0

13-1-10

2-1-7

4-4-0

4-4-0

4-5-10

Scale = 1:50.9

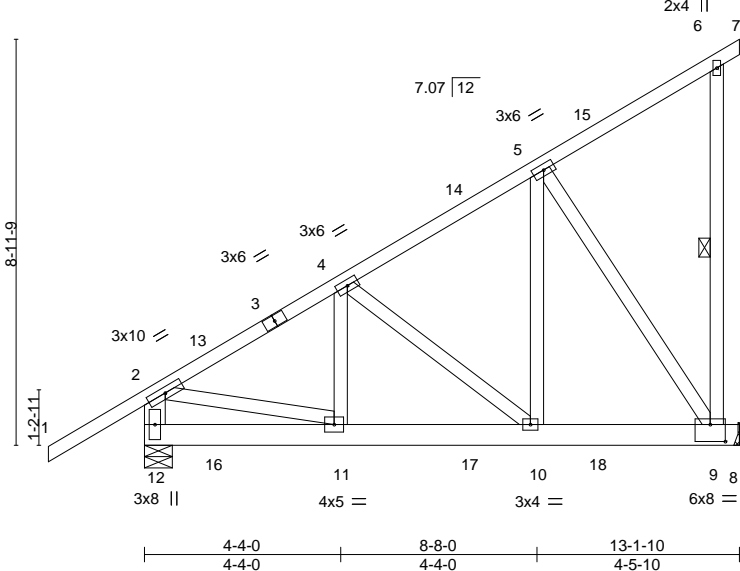


Plate Offsets (X,Y)--		[9:0-4-0,0-4-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.08 9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	0.07 9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.93	Horz(CT)	-0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 107 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 6-9
2-12: 2x6 SP No.2	

REACTIONS. (size) 12=0-7-6, 8=Mechanical
Max Horz 12=425(LC 28)
Max Uplift 12=-724(LC 8), 8=-1546(LC 8)
Max Grav 12=805(LC 37), 8=1535(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-972/836, 4-5=-751/690, 6-9=-258/254, 2-12=-749/659
BOT CHORD 11-12=-432/186, 10-11=-887/727, 9-10=-621/554
WEBS 4-10=-220/338, 5-10=-757/729, 5-9=-982/1102, 2-11=-657/709

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 724 lb uplift at joint 12 and 1546 lb uplift at joint 8.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 107 lb down and 124 lb up at 1-6-1, 107 lb down and 124 lb up at 1-6-1, 137 lb down and 151 lb up at 4-4-0, 137 lb down and 151 lb up at 4-4-0, 183 lb down and 225 lb up at 7-1-15, 183 lb down and 225 lb up at 7-1-15, 113 lb down and 139 lb up at 9-11-14, 113 lb down and 139 lb up at 9-11-14, and 113 lb down and 131 lb up at 12-9-13, and 113 lb down and 131 lb up at 12-9-13 on bottom chord, and 20 lb down and 68 lb up at 1-6-1, 20 lb down and 68 lb up at 1-6-1, 37 lb down and 35 lb up at 4-4-0, 37 lb down and 35 lb up at 4-4-0, 65 lb down and 64 lb up at 7-1-15, 65 lb down and 64 lb up at 7-1-15, 171 lb down and 212 lb up at 9-11-14, 171 lb down and 212 lb up at 9-11-14, and 236 lb down and 230 lb up at 13-0-14, and 236 lb down and 230 lb up at 13-0-14 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

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758755
4371416	HJ13	Roof Special Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-54, 2-6=-54, 6-7=-54, 8-12=-20

Concentrated Loads (lb)

Vert: 6=-108(F=-54, B=-54) 8=-391(F=-196, B=-196) 11=6(F=3, B=3) 13=62(F=31, B=31) 14=-67(F=-34, B=-34) 15=-7(F=-4, B=-4) 16=61(F=30, B=30) 17=-38(F=-19, B=-19) 18=-256(F=-128, B=-128)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758756
4371416	KW1	GABLE	1	1	Job Reference (optional)	

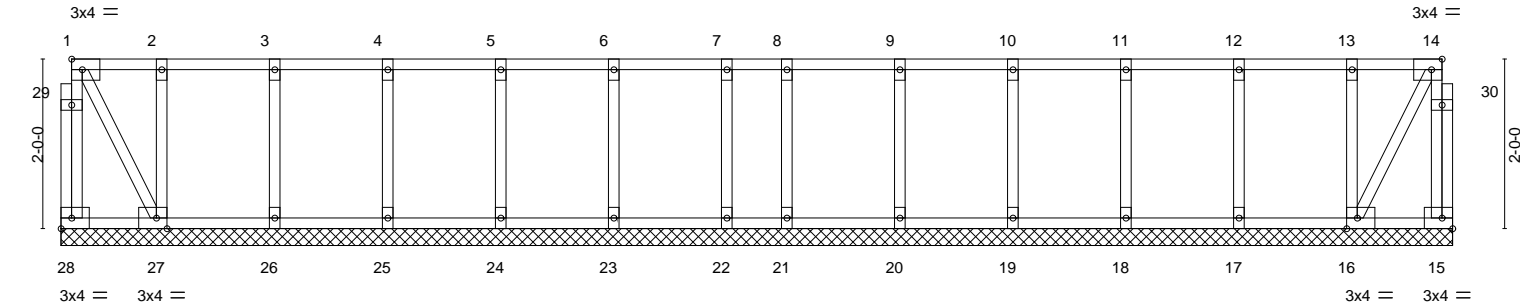
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:43 2024 Page 1
ID:j1GsU3rqn88z_VCSO8tWpyLf0E-u6DhYWKJKXkWKtO7XK13wgnKUEt?2HHT?pk7nAyAnKs

0-1-8

0-1-8

Scale = 1:27.2



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	8-6-12	9-10-12	11-2-12	12-6-12	13-10-12	15-2-12	16-5-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4
Plate Offsets (X,Y)-- [14:0-1-8,Edge], [16:0-1-8,Edge], [27:0-1-8,Edge]												
LOADING (psf)		SPACING-1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 27-28,15-16.

REACTIONS.

All bearings 16-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 16, 17, 18, 19, 20, 21, 26, 25, 24, 23, 22

FORCES.

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

NOTES-

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758757
4371416	KW3	GABLE	1	1	Job Reference (optional)	

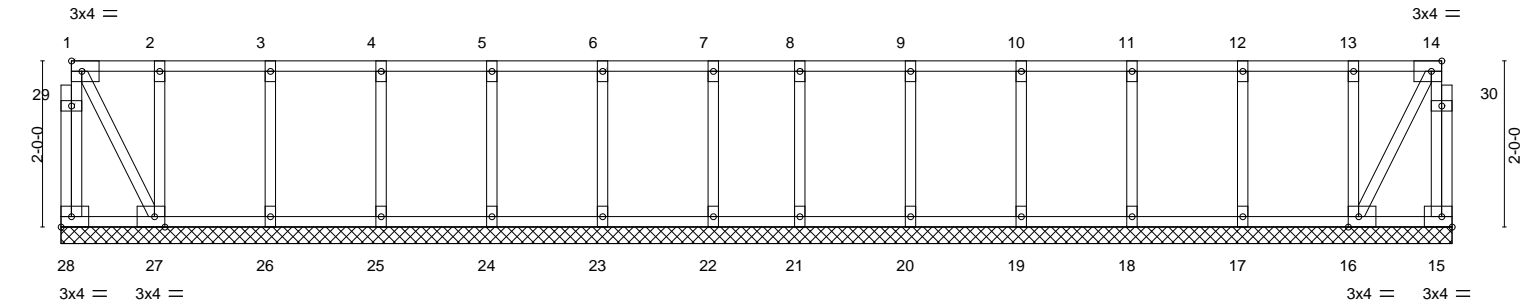
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:45 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-qVKsZBLZs8_E_nYVfl3X05sg?1ZTWBmmT7DEr2yAnKq

0-1/8

0-1/8

Scale = 1:27.7



1-2-4		2-6-4		3-10-4		5-2-4		6-6-4		7-10-4		8-10-12		10-2-12		11-6-12		12-10-12		14-2-12		15-6-12		16-9-0	
1-2-4		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-0-8		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-2-4	
Plate Offsets (X,Y)--		[14:0-1-8,Edge],		[16:0-1-8,Edge],		[27:0-1-8,Edge]																			
LOADING (psf)		SPACING-		1-4-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP							
TCLL 40.0		Plate Grip DOL		1.00		TC 0.06		Vert(LL) n/a		-		n/a		999		MT20		244/190							
TCDL 15.0		Lumber DOL		1.00		BC 0.01		Vert(CT) n/a		-		n/a		999											
BCLL 0.0		Rep Stress Incr		YES		WB 0.02		Horz(CT) -0.00		16		n/a		n/a											
BCDL 5.0		Code FBC2023/TPI2014				Matrix-S										Weight: 96 lb		FT = 20%F, 11%E							

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS	2x4 SP No.3(flat)		10-0-0 oc bracing: 27-28,15-16.
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 16-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 16, 17, 18, 19, 20, 21, 26, 25, 24, 23, 22

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758758
4371416	KW4	GABLE	1	1		
Job Reference (optional)						

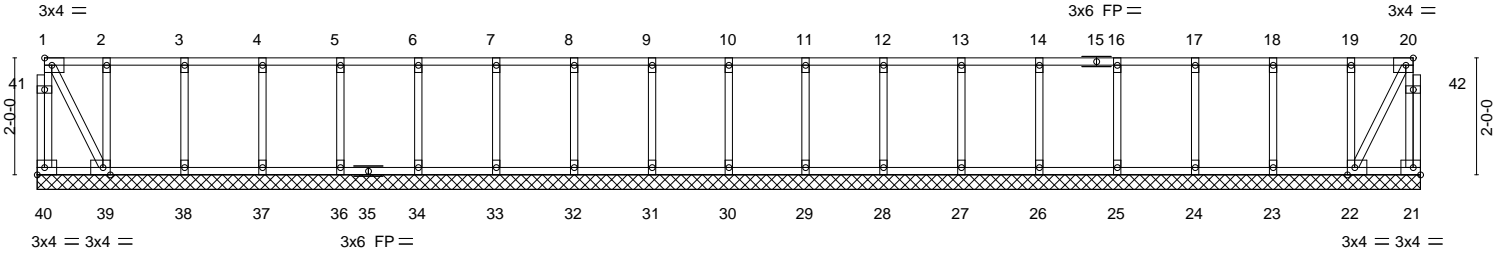
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:46 2024 Page 1
ID:j1GsU3rqn88z_VCSO8tWpyLf0E-JhuqBXXMBdS75bx7iCSamYlPmRviFe1vinynNUyAnKp

0-1-8

0-1-8

Scale = 1:39.4



1-2-4 2-6-4 3-10-4 5-2-4 6-6-4 7-10-4 9-2-4 10-6-4 11-10-0 13-1-12 14-5-12 15-9-12 17-1-12 18-5-12 19-9-12 21-1-12 22-5-12 23-8-0		1-2-4 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-3-12 1-3-12 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-2-4	
Plate Offsets (X,Y)--		[20:0-1-8,Edge], [22:0-1-8,Edge], [39:0-1-8,Edge]	
LOADING (psf)		SPACING-	CSL
TCLL 40.0		1-4-0	TC 0.06
TCDL 15.0		Plate Grip DOL 1.00	BC 0.01
BCLL 0.0		Lumber DOL 1.00	WB 0.02
BCDL 5.0		Rep Stress Incr YES	Matrix-S
		Code FBC2023/TPI2014	
			DEFL. in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) -0.00 22 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 130 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 39-40,21-22.

REACTIONS.

All bearings 23-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 22, 30, 23, 24, 25, 26, 27, 28, 29, 38, 37, 36, 34, 33, 32, 31

FORCES.

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

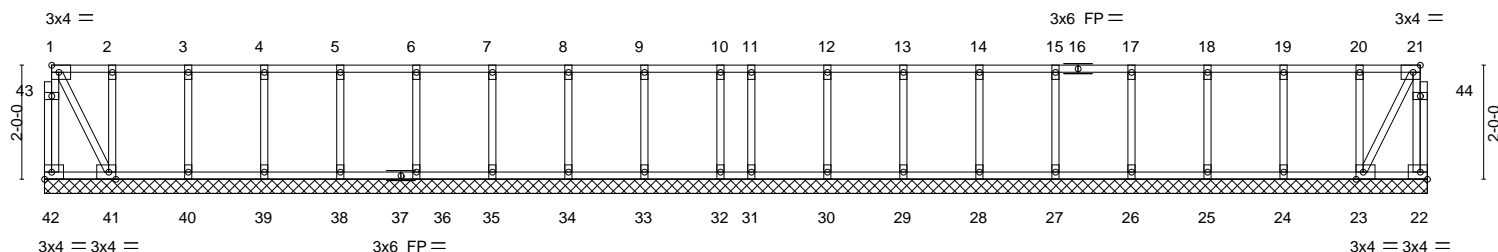
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

0-1-8

0-1-8

Scale = 1:40.4



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-10-4	12-4-4	13-8-12	15-0-12	16-4-12	17-8-12	19-0-12	20-4-12	21-8-12	23-0-12	24-3-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4
Plate Offsets (X,Y)-- [21:0:1-8.Edoel. [23:0:1-8.Edoel. [41:0:1-8.Edoel																		

LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.00 23 n/a n/a		
BCDL 5.0	Code FBC2023/TPI2014	Matrix-S		Weight: 134 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)		
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
OTHERS	2x4 SP No.3(flat)		10-0-0 oc bracing: 41-42.22-23.

REACTIONS. All bearings 24-3-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 23, 24, 25, 26, 27, 28, 29, 30, 31, 40, 39, 38, 36, 35, 34, 33, 32

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758760
4371416	KW6	GABLE	1	1	Job Reference (optional)	

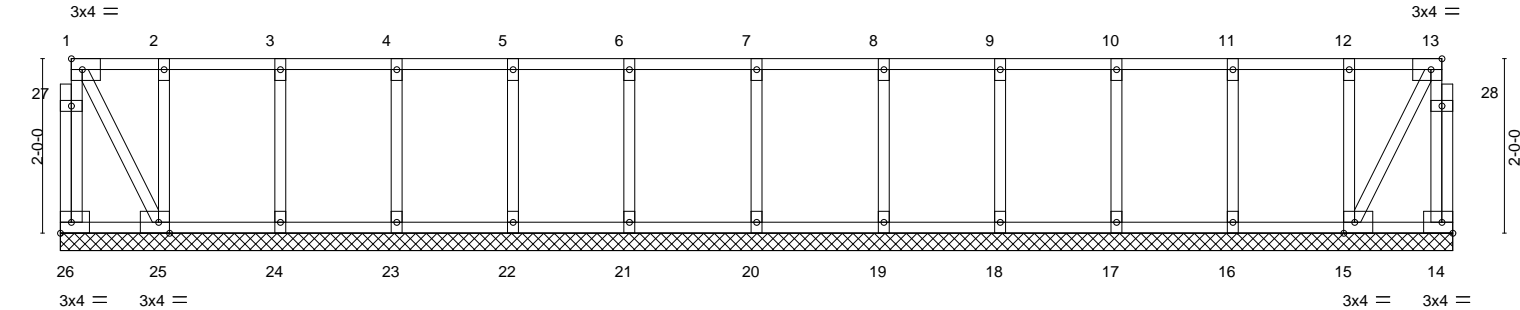
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:47 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ntSCOtNpOmFyD4iumA5?5Wy0RrFw_5H3wRiKwxyAnKo

0-1-8

0-1-8

Scale = 1:26.4



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-11-12	9-5-4	10-9-4	12-1-4	13-5-4	14-9-4	15-11-8
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-5-8	1-5-8	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4
Plate Offsets (X,Y)-- [13:0-1-8,Edge], [15:0-1-8,Edge], [25:0-1-8,Edge]											
LOADING (psf)		SPACING-1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	15	n/a	n/a	
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							
										Weight: 91 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,14-15.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 15-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

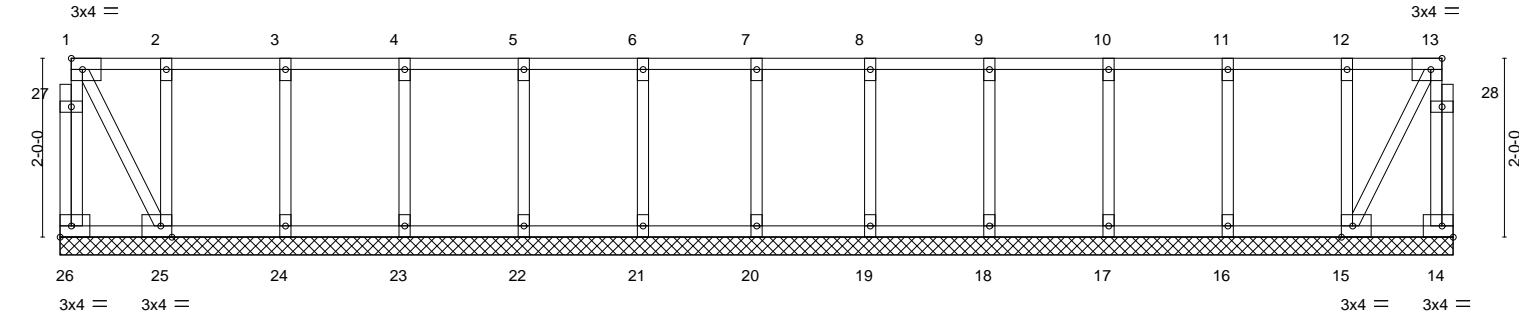
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758761
4371416	KW7	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:47 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ntSC0tNpOmFyD4iumA5?5Wyo0rFx_5H3wRiKwxyAnKo

0-1-8 0-1-8
Scale = 1:25.8



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-9-8	9-0-12	10-4-12	11-8-12	13-0-12	14-4-12	15-7-0																																																												
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-3-4	1-3-4	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4																																																												
Plate Offsets (X,Y)-- [13:0-1-8,Edge], [15:0-1-8,Edge], [25:0-1-8,Edge]																																																																							
<table><tr><td colspan="2">LOADING (psf)</td><td>SPACING-</td><td>1-4-0</td><td>CSI.</td><td>DEFL.</td><td>in</td><td>(loc)</td><td>l/defl</td><td>L/d</td><td>PLATES</td><td>GRIP</td></tr><tr><td>TCLL</td><td>40.0</td><td>Plate Grip DOL</td><td>1.00</td><td>TC</td><td>0.06</td><td></td><td></td><td></td><td></td><td>MT20</td><td>244/190</td></tr><tr><td>TCDL</td><td>15.0</td><td>Lumber DOL</td><td>1.00</td><td>BC</td><td>0.01</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BCLL</td><td>0.0</td><td>Rep Stress Incr</td><td>YES</td><td>WB</td><td>0.02</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BCDL</td><td>5.0</td><td>Code</td><td>FBC2023/TPI2014</td><td>Matrix-S</td><td></td><td></td><td></td><td></td><td></td><td>Weight: 90 lb</td><td>FT = 20%F, 11%E</td></tr></table>												LOADING (psf)		SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	TCLL	40.0	Plate Grip DOL	1.00	TC	0.06					MT20	244/190	TCDL	15.0	Lumber DOL	1.00	BC	0.01							BCLL	0.0	Rep Stress Incr	YES	WB	0.02							BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 90 lb	FT = 20%F, 11%E
LOADING (psf)		SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP																																																												
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06					MT20	244/190																																																												
TCDL	15.0	Lumber DOL	1.00	BC	0.01																																																																		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02																																																																		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 90 lb	FT = 20%F, 11%E																																																												

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,14-15.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 15-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758762
4371416	KW9	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:48 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-F40acDOS93NprEH4KtcEdjUAIFa4jYEC95RuSNyAnKn

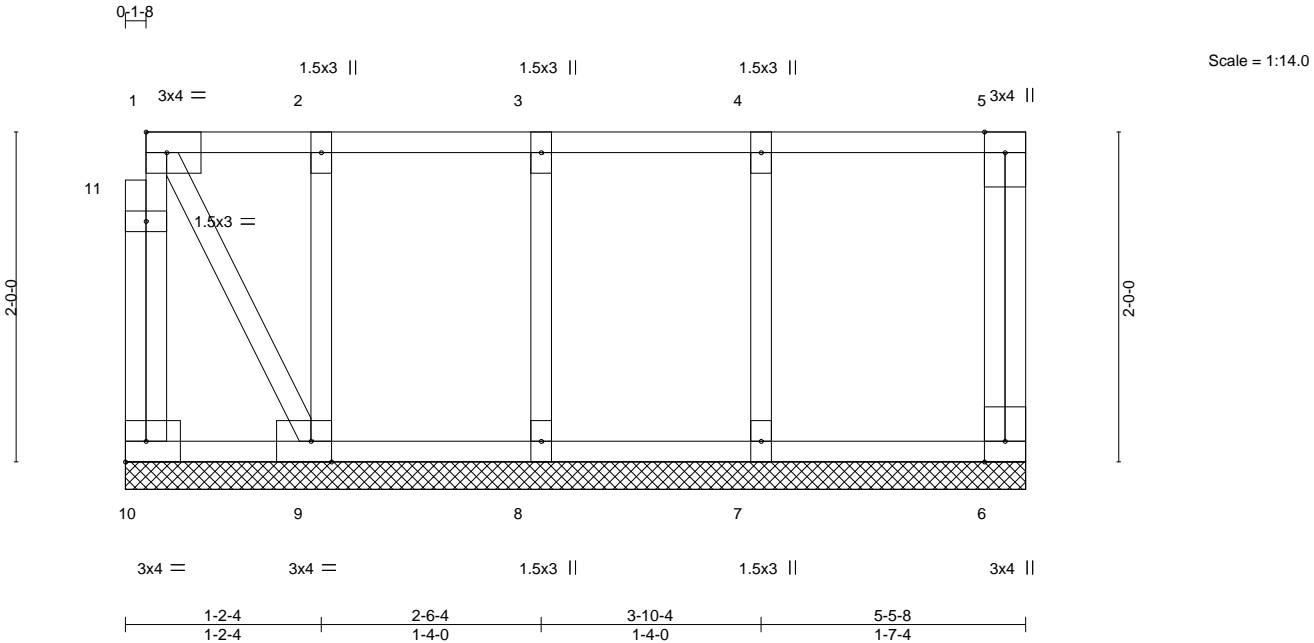


Plate Offsets (X,Y)--	[9:0-1-8,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.12	Vert(LL)	n/a	-	n/a	999	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999	
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	6	n/a	n/a	
BCDL 5.0	Code FBC2023/TPI2014		Matrix-P						
								Weight: 37 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

All bearings 5-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

FORCES.

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

NOTES-

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

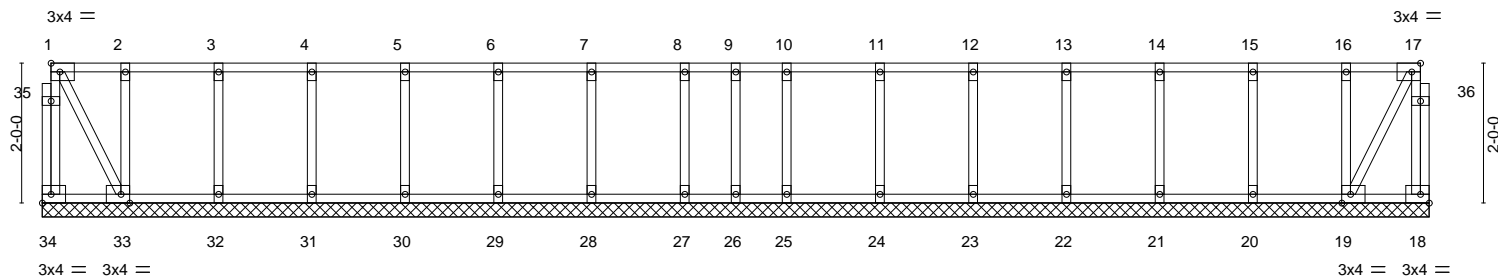
MiTek®

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

0-1-8

0-1-8

Scale = 1:32.9



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	9-11-0	10-7-12	11-11-12	13-3-12	14-7-12	15-11-12	17-3-12	18-7-12	19-10-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-12	0-8-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4
Plate Offsets (X,Y)-- [17:0-1-8.Edoel] [19:0-1-8.Edoel] [33:0-1-8.Edoel]															

LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.00 19 n/a n/a		
BCDL 5.0	Code FBC2023/TPI2014	Matrix-S		Weight: 113 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)		
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
OTHERS	2x4 SP No.3(flat)		10-0-0 oc bracing: 33-34,18-19.

REACTIONS. All bearings 19-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 19, 26, 20, 21, 22, 23, 24, 25, 32, 31, 30, 29, 28, 27

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbscomponents.com)

MiTek®

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

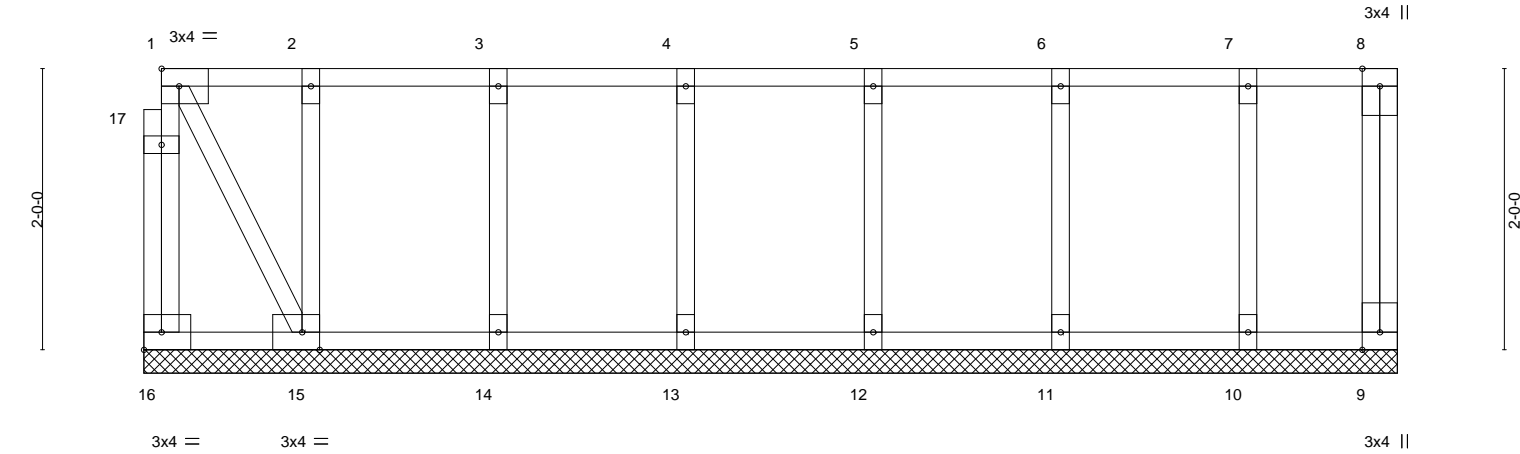
Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758765
4371416	KW13	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:44 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Mlm3msKx5rsNMdzJ51YITtKVMdEnkZdETTgJcyAnKr

0-1-8

Scale = 1:16.4



		1-2-4		2-6-4		3-10-4		5-2-4		6-6-4		7-10-4		8-11-0	
		1-2-4		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-0-12	
Plate Offsets (X,Y)-- [15:0-1-8,Edge]															
LOADING (psf)		SPACING- 1-4-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL 1.00				TC 0.05		Vert(LL) n/a - n/a 999				MT20		244/190	
TCDL	10.0	Lumber DOL 1.00				BC 0.01		Vert(CT) n/a - n/a 999							
BCLL	0.0	Rep Stress Incr YES				WB 0.02		Horz(CT) 0.00 9 n/a n/a							
BCDL	5.0	Code FBC2023/TPI2014				Matrix-S									
												Weight: 55 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 8-11-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 8-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

- NOTES-
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

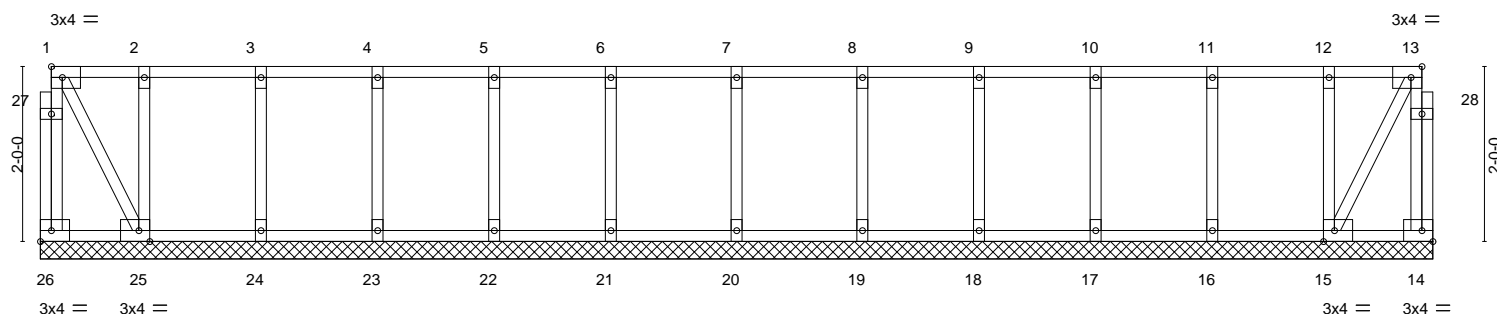
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:44 2024 Page 1
ID:1GsU3rgen88z VCSo8tWpyl f0E-Mlm3msKx5rsNMdzJ51YITkUldDDnKldETTqJcyAnKr

0-1-8

0-1-8

Scale = 1:26.3



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-11-8	9-4-12	10-8-12	12-0-12	13-4-12	14-8-12	15-11-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-5-4	1-5-4	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4
Plate Offsets (X,Y)-- [13:0-1-8,Edge], [15:0-1-8,Edge], [25:0-1-8,Edge]											

LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 60.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 15 n/a n/a		
BCDL 5.0	Code FBC2023/TPI2014	Matrix-S		Weight: 91 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)		
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
OTHERS	2x4 SP No.3(flat)		10-0-0 oc bracing: 25-26,14-15.

REACTIONS. All bearings 15-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758767
4371416	KW27	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:45 2024 Page 1
ID:j1GsU3rqn88z_VCSO8tWpyLf0E-qVKsZBLZs8_E_nYVfl3X05sfp1ZSWBYmT7DEr2yAnKq

0.1:8

Scale = 1:21.6

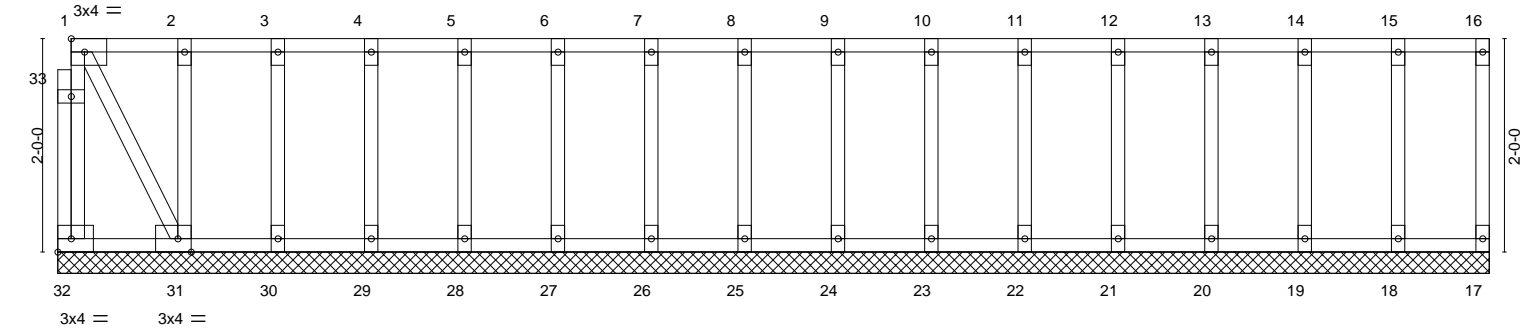


Plate Offsets (X,Y)-- [31:0-1-8,Edge]													
1-2-4 2-0-12 2-11-4 3-9-12 4-8-4 5-6-12 6-5-4 7-3-12 8-2-4 9-0-12 9-11-4 10-9-12 11-8-4 12-6-12 13-5-0													
1-2-4 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-8 0-10-4													
LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP													
TCLL 60.0 Plate Grip DOL 1.00 TC 0.07 Vert(LL) n/a - n/a 999 MT20 244/190													
TCDL 15.0 Lumber DOL 1.00 BC 0.01 Vert(CT) n/a - n/a 999													
BCLL 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 17 n/a n/a													
BCDL 5.0 Code FBC2023/TPI2014 Matrix-S													
Weight: 87 lb FT = 20%F, 11%E													

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 13-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 0-10-8 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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



Scale = 1:48.7

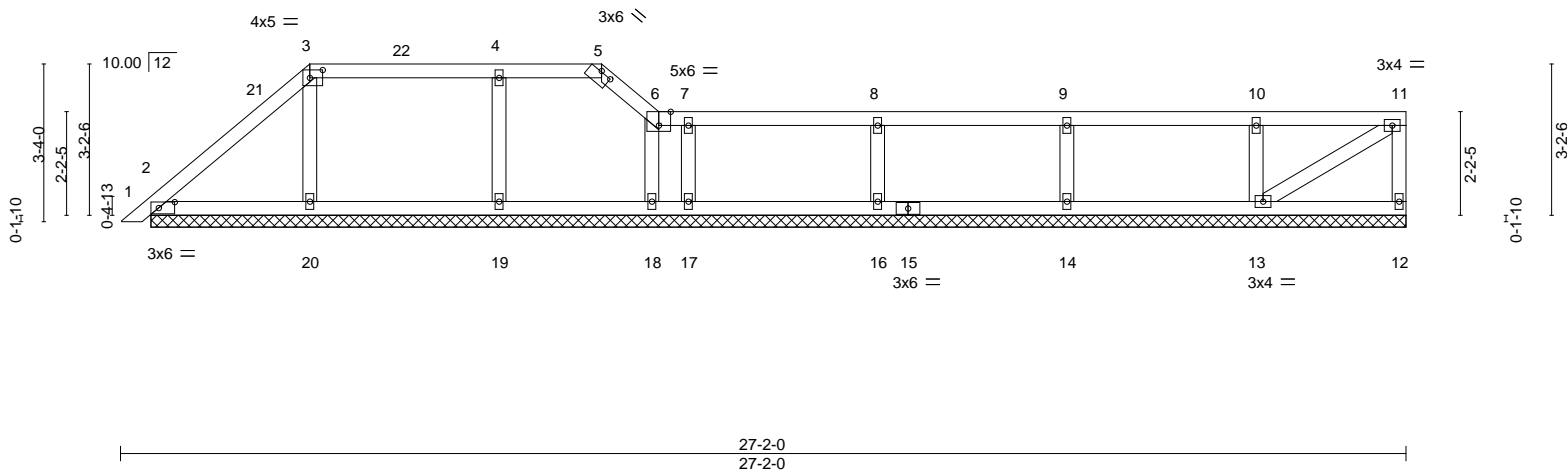


Plate Offsets (X,Y)-- [2:0-4-1,0-1-8], [3:0-3-4,0-2-0], [5:0-3-0,0-0-4], [6:0-3-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.00 1 n/r 120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00 1 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00 12 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S				Weight: 110 lb	FT = 20%

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

REACTIONS. All bearings 26-6-5.
(lb) - Max Horz 2=143(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 18 except 20=153(LC 12), 19=173(LC 8), 17=166(LC 9),
16=170(LC 9), 14=167(LC 13), 13=154(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18 except 20=266(LC 25), 19=296(LC 26), 17=252(LC 26),
16=302(LC 26), 14=298(LC 1), 13=263(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 10-2-0, Zone3 10-2-0 to 11-4-8, Zone1 11-4-8 to 27-0-4 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) 12, 2, 18 except (jt=lb) 20=153, 19=173, 17=166, 16=170, 14=167, 13=154.
- 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758769
4371416	PB02	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:49 2024 Page 1

ID:j1GsU3rqn88z_VCSO8tWpyLf0E-jGaypZO4wNVgSOtHub8TAx1KFevyS_8MOkBR_pyAnKm

14-2-0
14-2-0

Scale: 1/2"=1'

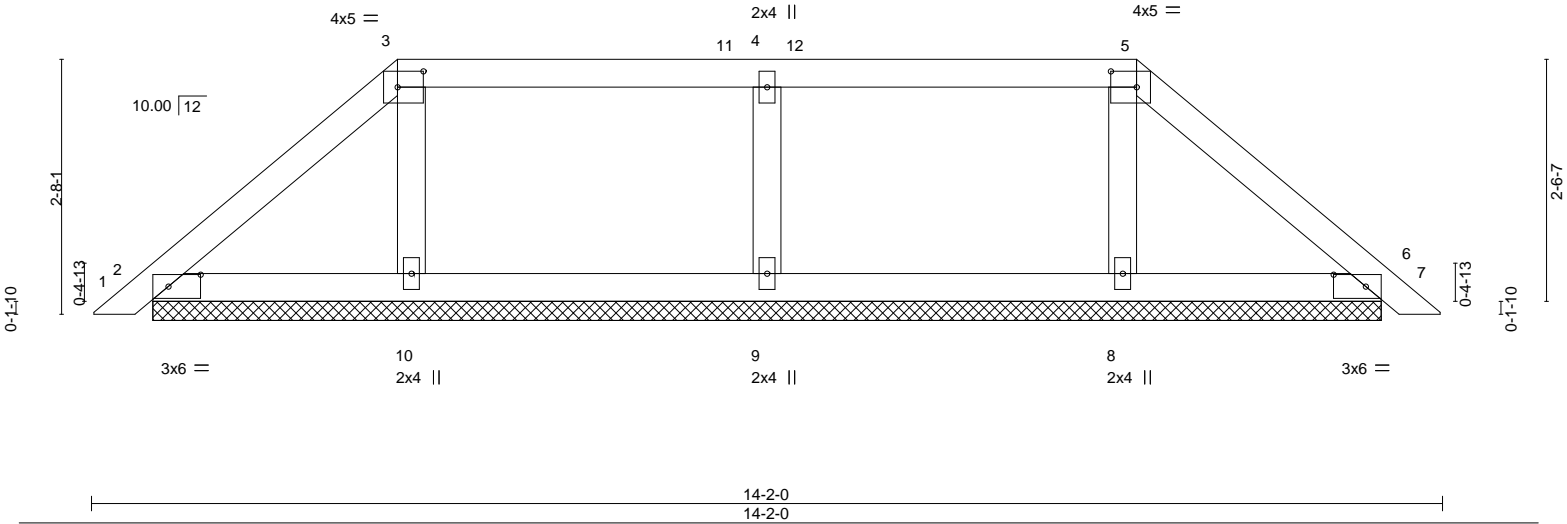


Plate Offsets (X,Y)--		[2:0-4-1,0-1-8], [3:0-3-4,0-2-0], [5:0-3-4,0-2-0], [6:0-4-1,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSL
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17
TCDL 7.0	Lumber DOL	1.25	BC 0.10
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.00 6 n/r 120
			Vert(CT) 0.00 7 n/r 120
			Horz(CT) 0.00 6 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 52 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 12-10-9.
(lb) - Max Horz 2=89(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 9=192(LC 9), 10=138(LC 12), 8=120(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=318(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-8, Zone2 3-2-8 to 7-5-7, Zone1 7-5-7 to 10-11-8, Zone3 10-11-8 to 13-11-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Loading 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 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, 6 except (jt=lb) 9=192, 10=138, 8=120.
- 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758770
4371416	PB03	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:49 2024 Page 1

ID;j1GsU3rqen88z_VCSO8tWpyLf0E-jGaypZO4wNVgSOrHub8TAx1KdevjS?EMOkBR_pyAnKm

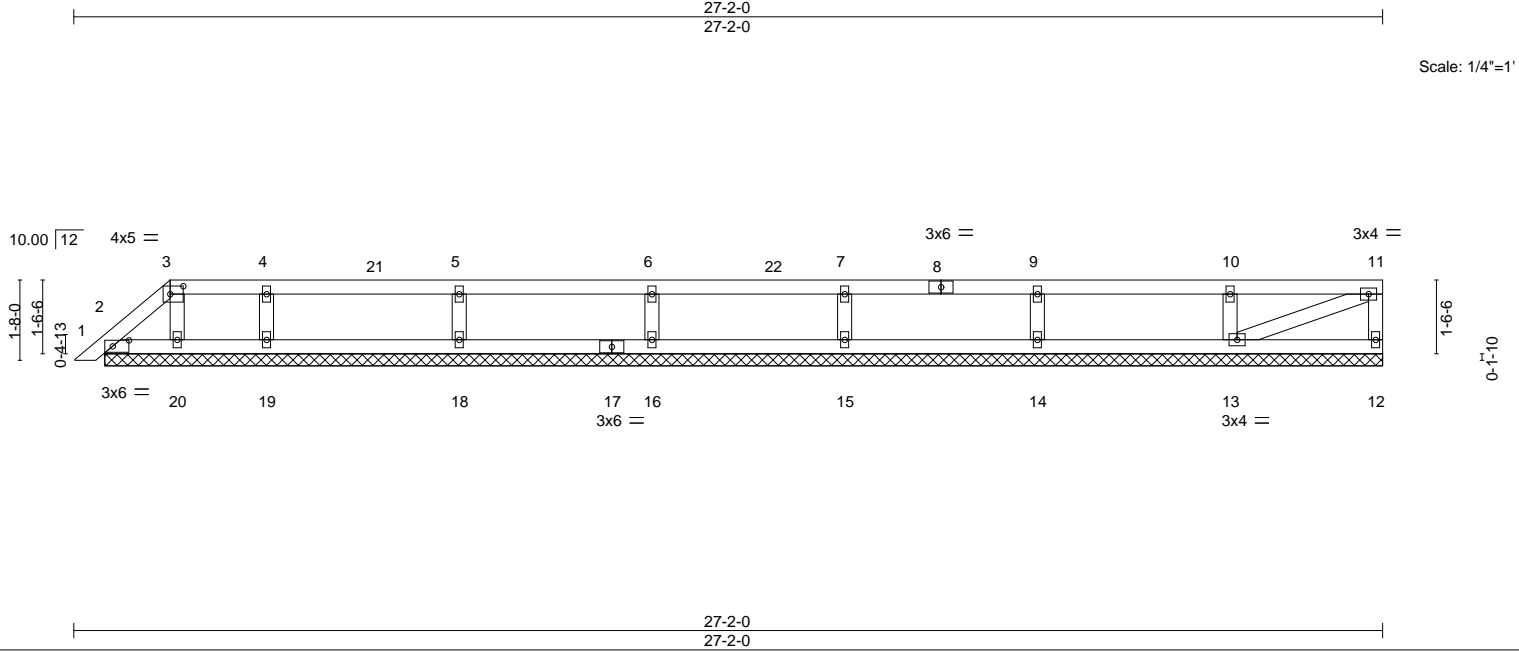


Plate Offsets (X,Y)--		[2:0-4-1,0-1-8], [3:0-3-4,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15
TCDL 7.0	Lumber DOL	1.25	BC 0.11
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.00	1	n/r
Vert(CT)	0.00	1	n/r
Horz(CT)	-0.00	12	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 96 lb	FT = 20%		

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

REACTIONS. All bearings 26-6-5.
(lb) - Max Horz 2=82(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20 except 19=143(LC 8), 18=171(LC 12), 16=164(LC 8), 15=165(LC 9), 14=171(LC 13), 13=160(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20 except 18=305(LC 1), 16=294(LC 1), 15=296(LC 1), 14=300(LC 1), 13=285(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 27-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 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 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) 12, 2, 20 except (jt=lb) 19=143, 18=171, 16=164, 15=165, 14=171, 13=160.
 - 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 O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

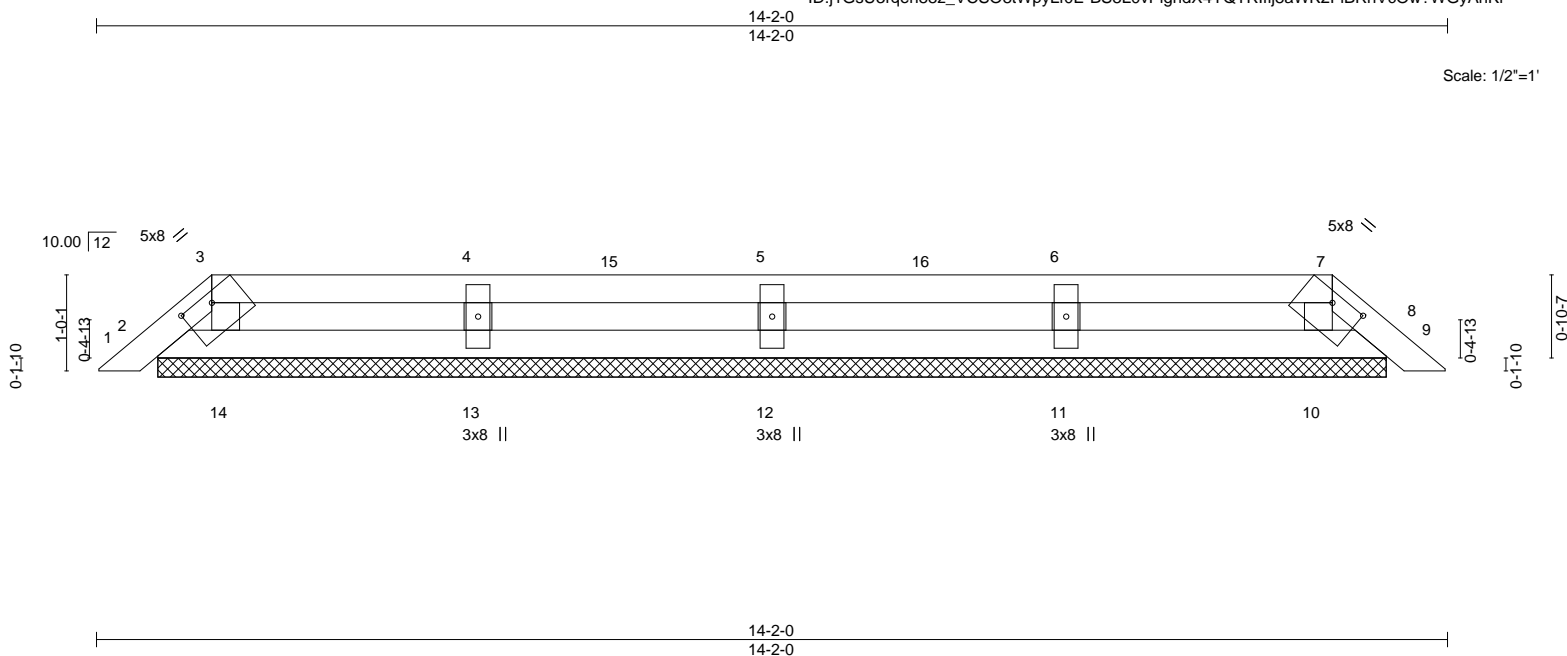


Plate Offsets (X,Y)-- [3:0-4-0,0-1-4], [7:0-4-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	-0.00 8 n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.00 8 n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 8 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 43 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.

ONS. All bearings 12-10-9.
(lb) - Max Horz 2=30(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 14, 10 except 12=126(LC 8), 11=137(LC 13), 13=137(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 11, 13, 14, 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; TCDDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 1-2-8, Zone2 1-2-8 to 5-5-7, Zone1 5-5-7 to 12-11-8, Zone3 12-11-8 to 13-11-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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 4'-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" tall by 2'-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, 8, 14, 10 except (jt=lb) 12=126, 11=137, 13=137.
- 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

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

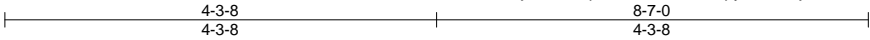
Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758772
4371416	PB05	GABLE	3	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:51 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-feijEFQKR_IOii?i??AxFM6d9SZkwusfr2gY3iyAnKk



Scale = 1:22.9

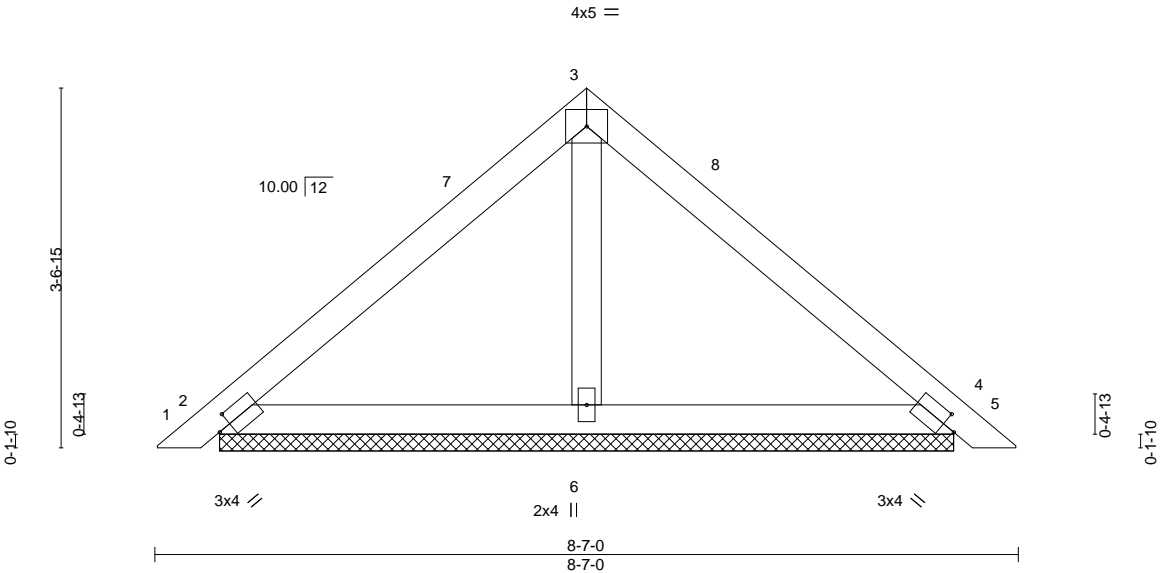


Plate Offsets (X,Y)--		[2:0-1-9,0-1-8], [4:0-1-9,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.34	Vert(LL)	0.00	5	n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.21	Vert(CT)	0.01	5	n/r	120	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.05	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 32 lb FT = 20%

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

REACTIONS. (size) 2=7-3-9, 4=7-3-9, 6=7-3-9
Max Horz 2=-121(LC 10)
Max Uplift 2=-87(LC 12), 4=-102(LC 13), 6=-86(LC 12)
Max Grav 2=164(LC 1), 4=164(LC 1), 6=255(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-3-8, Zone3 4-3-8 to 8-4-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 4=102.
 - 10) 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

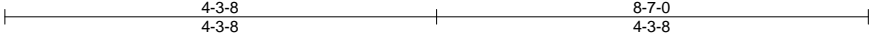
Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758773
4371416	PB06	PIGGYBACK	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:51 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-feijEFQKR_I0ii?f??AxFM6gnSbLwuFfr2gY3iyAnKk



Scale = 1:22.9

Plate Offsets (X,Y)--		[2:0-2-1,0-1-0], [4:0-2-1,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17
TCDL 7.0	Lumber DOL	1.25	BC 0.10
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.00 5 n/r 120
			Vert(CT) 0.00 5 n/r 120
			Horz(CT) 0.00 4 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 63 lb FT = 20%

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

REACTIONS. (size) 2=7-3-9, 4=7-3-9, 6=7-3-9
Max Horz 2=-121(LC 10)
Max Uplift 2=-87(LC 12), 4=-102(LC 13), 6=-86(LC 12)
Max Grav 2=164(LC 1), 4=164(LC 1), 6=255(LC 1)

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

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-3-8, Zone3 4-3-8 to 8-4-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 4=102.
 - 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 ORegan, Philip, 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.

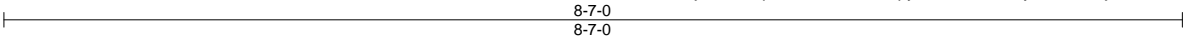
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758774
4371416	PB07	PIGGYBACK	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:52 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7rF5RbRyCltFJsarZjhAoZfrPxBfLzo4iP5b8yAnKj



Scale = 1:16.8

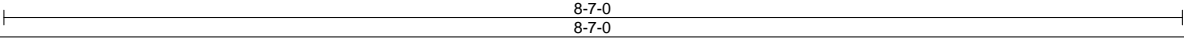
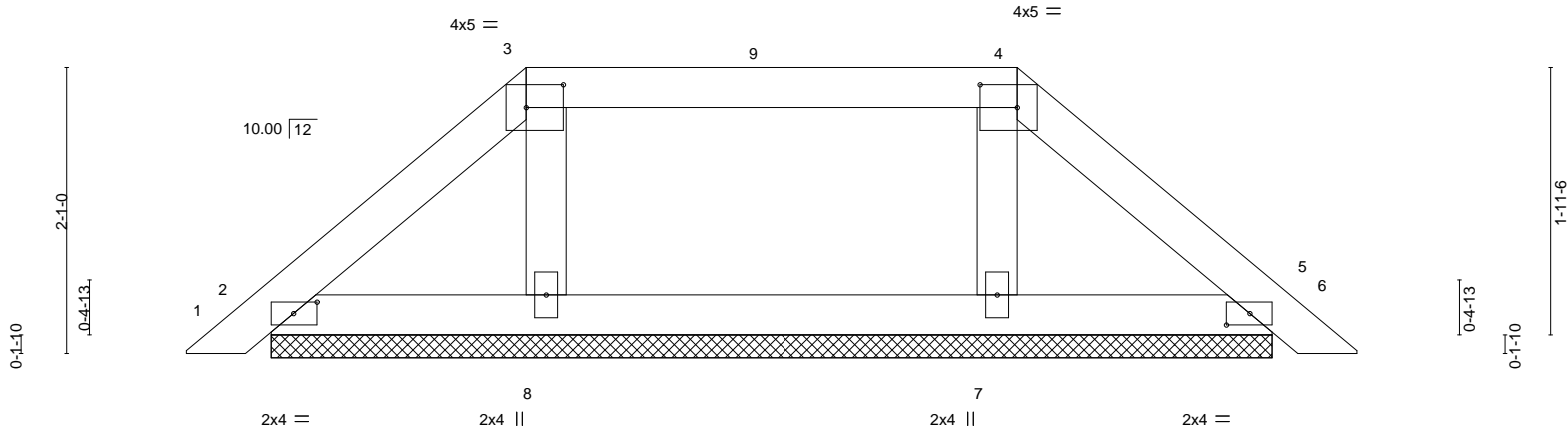


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-3-4,0-2-0], [4:0-3-4,0-2-0], [5:0-2-1,0-1-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	in (loc)	l/defl	L/d	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.06	0.00 5	n/r	120	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	0.00 5	n/r	120	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		0.00 5	n/a	n/a	
								Weight: 30 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.

All bearings 7-3-9.
(lb) - Max Horz 2=68(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7 except 8=104(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7 except (jt=lb) 8=104.
- 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 O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758775
4371416	PB08	Piggyback	9	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:52 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7rF5RbRyCltFJsarZjhAoZfnwsvOfL6o4iP5b8yAnKj

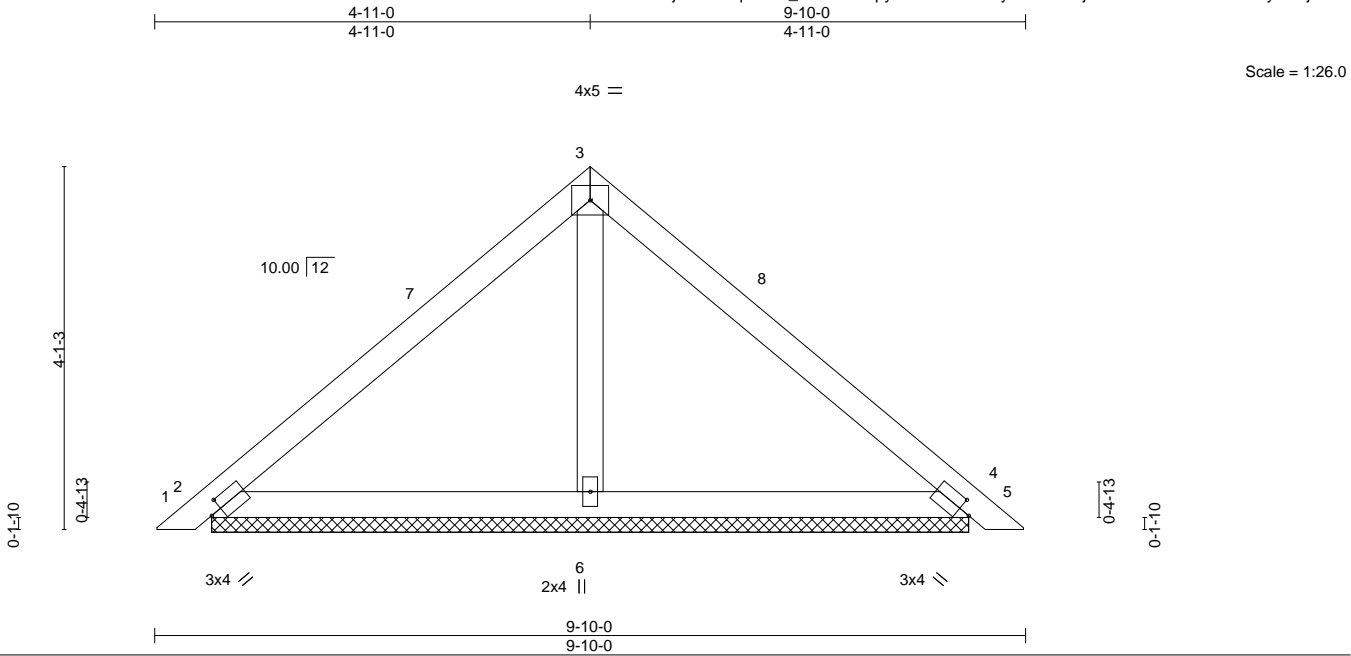


Plate Offsets (X,Y)-- [2:0-1-9,0-1-8], [4:0-1-9,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.40	Vert(LL)	0.01 5 n/r 120	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.24	Vert(CT)	0.01 5 n/r 120		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.05	Horz(CT)	0.00 4 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S				Weight: 37 lb	FT = 20%

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

REACTIONS. (size) 2=8-6-9, 4=8-6-9, 6=8-6-9
Max Horz 2=-139(LC 10)
Max Uplift 2=-98(LC 12), 4=-115(LC 13), 6=-102(LC 12)
Max Grav 2=188(LC 1), 4=188(LC 1), 6=300(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-11-0, Zone2 4-11-0 to 9-2-5, Zone1 9-2-5 to 9-7-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=115, 6=102.
 - 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 O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

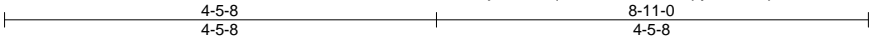
Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758776
4371416	PB08G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:53 2024 Page 1

ID:j1GsU3rqn88z_VCSO8tWpyLf0E-b1pTfxRazc?5x?927QCPKnC15GlcOnSxJM9f7ayAnKi



Scale: 1/2"=1'

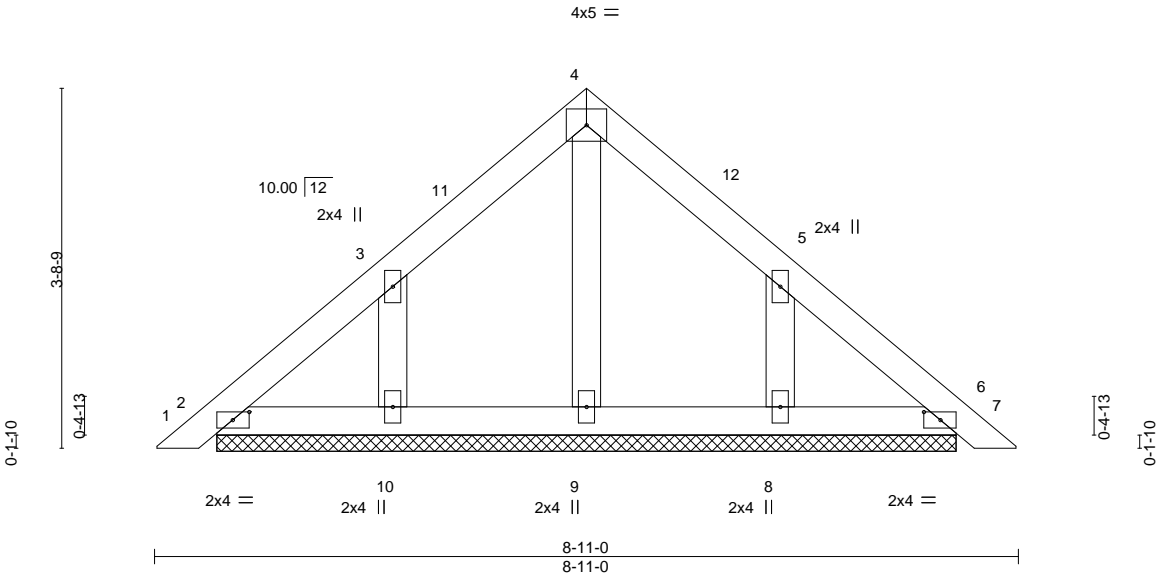


Plate Offsets (X,Y)--		[2:0-2-1,0-1-0], [6:0-2-1,0-1-0]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.12	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.05	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 37 lb FT = 20%		

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

REACTIONS. All bearings 7-7-9.
(lb) - Max Horz 2=-126(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-182(LC 12), 8=-181(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-192/330, 5-8=-192/361

- 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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-5-8, Zone3 4-5-8 to 8-8-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=-182, 8=-181.
 - 10) 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

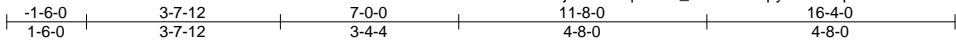
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758777
4371416	T01	Half Hip Girder	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:53 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-b1pTfxRazcz?5x?927QCPKnCxJGBAOe0xJM9f7ayAnKi



Scale = 1:43.3

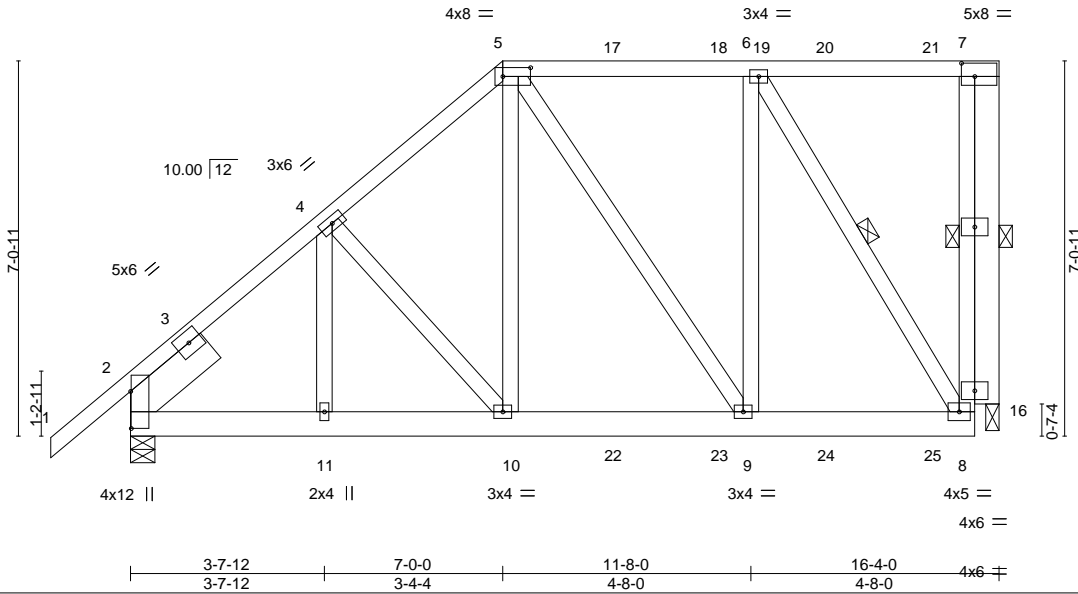


Plate Offsets (X,Y)--		[2:0-8-6,0-0-2], [5:0-6-4,0-2-0], [7:0-3-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49
TCDL 7.0	Lumber DOL	1.25	BC 0.46
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.65
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	0.08 9-10 >999 240
		Vert(CT)	0.07 9-10 >999 180
		Horz(CT)	-0.02 16 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-15 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-1-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-8, 6-8, 7-16
OTHERS 2x6 SP No.2	
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8	

REACTIONS. (size) 2=0-5-8, 16=0-3-0 (req. 0-3-1)
Max Horz 2=388(LC 8)
Max Uplift 2=955(LC 8), 16=-2024(LC 8)
Max Grav 2=1199(LC 35), 16=2591(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1218/1048, 4-5=-1237/1185, 5-6=-802/797, 7-8=-1231/1202
BOT CHORD 2-11=-1005/944, 10-11=-1005/944, 9-10=-998/960, 8-9=-817/823
WEBS 4-10=-368/400, 5-10=-775/763, 5-9=-276/351, 6-9=-653/675, 6-8=-1099/1171, 7-16=-2598/2030

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
 - Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=955, 16=2024.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1282 lb down and 672 lb up at 16-4-0, 118 lb down and 102 lb up at 7-0-0, 118 lb down and 98 lb up at 9-0-12, 118 lb down and 90 lb up at 11-0-12, and 118 lb down and 98 lb up at 13-0-12, and 108 lb down and 101 lb up at 15-0-12 on top chord, and 536 lb down and 646 lb up at 7-0-0, 174 lb down and 204 lb up at 9-0-12, 174 lb down and 204 lb up at 11-0-12, and 174 lb down and 204 lb up at 13-0-12, and 177 lb down and 200 lb up at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758777
4371416	T01	Half Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-7=-54, 8-12=-20
Concentrated Loads (lb)
Vert: 5=-26(F) 7=-1200 10=-358(F) 17=-26(F) 18=-26(F) 20=-26(F) 21=-33(F) 22=-136(F) 23=-136(F) 24=-136(F) 25=-140(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758778
4371416	T02	Half Hip	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-800

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:54 2024 Page 1

-1-6-0	5-7-0	11-0-0	16-4-0
1-6-0	5-7-0	5-5-0	5-4-0

The diagram illustrates a roof truss system with the following components and dimensions:

- Members:**
 - Top chord: 3x8 (12), 3x6 (3, 4), 3x6 (13), 4x8 (5), 5x8 (16)
 - Vertical posts: 2x4 (10), 4x5 (9), 3x4 (8), 3x4 (7)
 - Diagonal bracing: 3x6 (14, 15), 11x4 (11)
 - Bottom chord: 2x4 (1), 4x6 (6)
- Joints:** Labeled 1 through 16.
- Dimensions:**
 - Overall height: 10'-4" ± 11"
 - Overall width: 31'-0" ± 4"
 - Horizontal segments: 5'-7'-0", 11'-0"-0", 16'-4'-0", 5'-4'-0"
 - Vertical segments: 1'-2"-11", 0'-7'-4"

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-7-10 oc bracing.
WEBS	1 Row at midpt 5-7, 6-11

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 15-8-12 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=226, 11=651.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 503 lb down and 231 lb up at 16-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54 2-5=-54 5-6=-54 7-10=-20

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024

Continued on page 2



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758779
4371416	T03	Half Hip	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-400

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T04	Half Hip	1	1	T35758780
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:55 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-YQxE4cTrVDFpAJJQErFtQCHEX3sNsZfEmgemCTyAnKg

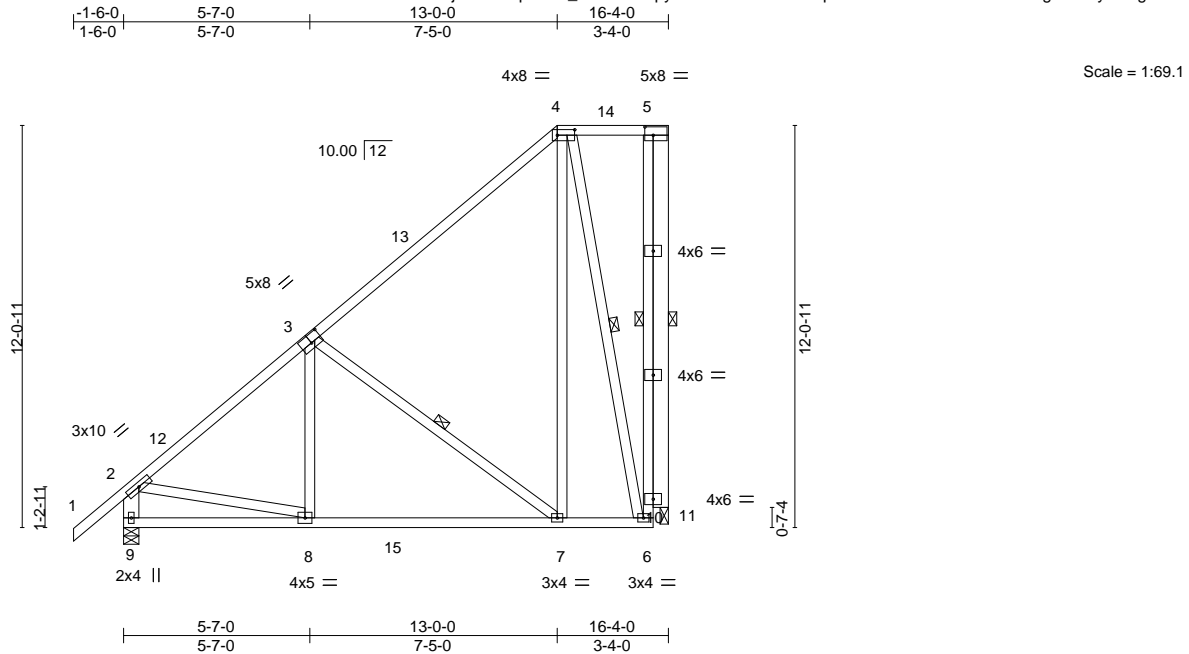


Plate Offsets (X,Y)--		[3:0-4-0,0-3-0], [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.69		Vert(LL)	-0.09 7-8	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.48		Vert(CT)	-0.17 7-8	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.64		Horz(CT)	-0.01 11	n/a	n/a		
BCDL 10.0		Code	FBC2023/TPI2014	Matrix-MS						Weight: 166 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-9: 2x6 SP No.2
OTHERS 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 7-5-13 oc bracing.
WEBS 1 Row at midpt 5-10, 3-7, 4-6, 5-11

REACTIONS.

(size) 9=0-5-8, 11=0-3-0
Max Horz 9=645(LC 12)
Max Uplift 9=-159(LC 12), 11=-518(LC 12)
Max Grav 9=789(LC 19), 11=675(LC 19)

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

TOP CHORD 2-3=-718/64, 3-4=-322/7, 6-10=-545/707, 5-10=-545/707, 2-9=-721/211
BOT CHORD 8-9=-627/330, 7-8=-540/645
WEBS 3-8=0/269, 3-7=-566/490, 4-7=-237/558, 4-6=-728/549, 2-8=0/471, 5-11=-675/518

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 13-0-0, Zone3 13-0-0 to 15-8-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=159, 11=518.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T05	Half Hip	1	1	T35758781
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:55 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-YQxE4cTrVDFpAJJQErFtQCHCK3qQscxEmgemCTyAnKg

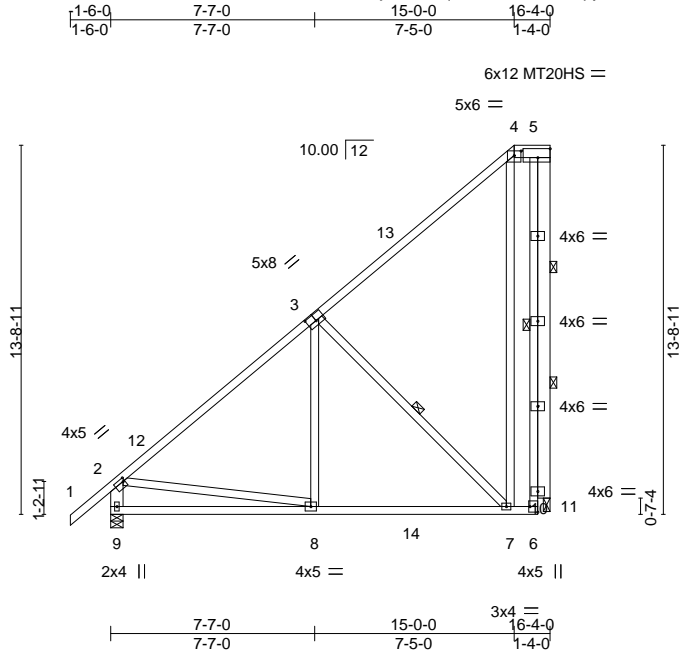


Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [3:0-4-0,0-3-0], [4:0-3-0,0-2-1], [5:Edge,0-4-0], [6:Edge,0-3-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.19	7-8	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.26	7-8	>736	180	MT20HS 187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	-0.02	11	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
Weight: 165 lb										FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-2-10 oc bracing.
WEBS	2x4 SP No.3 *Except* 5-6,4-7: 2x4 SP No.2, 2-9: 2x6 SP No.2	WEBS	1 Row at midpt 5-10, 3-7 2 Rows at 1/3 pts 5-11
OTHERS	2x6 SP No.2		

REACTIONS.	(size) 9=0-5-8, 11=0-3-0
	Max Horz 9=734(LC 12)
	Max Uplift 9=91(LC 12), 11=602(LC 12)
	Max Grav 9=782(LC 19), 11=787(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-666/0, 3-4=-260/33, 6-10=-337/290, 5-10=-337/290, 2-9=-680/168
BOT CHORD	8-9=-891/498, 7-8=-472/584
WEBS	3-8=-49/369, 3-7=-712/585, 4-7=-20/354, 2-8=-98/471, 5-11=-788/603

- 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=35ft; Cat. II; Exp C; 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 15-0-0, Zone3 15-0-0 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 MT20 plates 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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 11=602.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

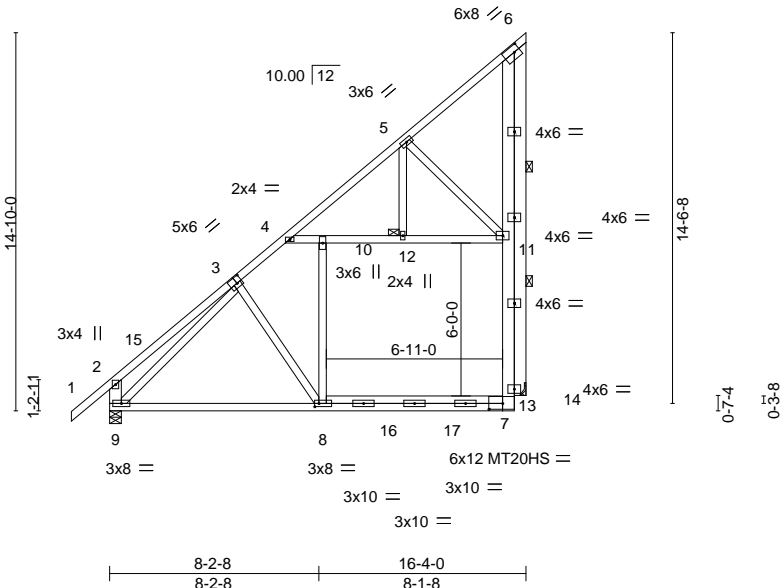
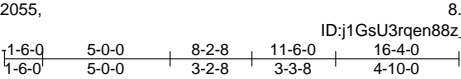
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T06	ATTIC	2	1	T35758782
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)



Scale = 1:90.4

Plate Offsets (X,Y)--		[3:0-2-8,0-3-0], [6:0-2-12,0-3-0], [7:0-6-8,0-2-12], [8:0-2-0,0-1-8]									
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 0.93		Vert(LL) 0.38	8-9	>505	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.72		Vert(CT) -0.55	8-9	>346	180	MT20HS	187/143
BCLL 0.0 *		Rep Stress Incr YES		WB 0.64		Horz(CT) 0.03	14	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS		Attic 0.08	7-8	1114	360	Weight: 189 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-1-7 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 2 Rows at 1/3 pts 6-14
6-7,2-9: 2x6 SP No.2, 8-10: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 12
4-11: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	
OTHERS 2x6 SP No.2	

REACTIONS. (size) 9=0-5-8, 14=Mechanical
Max Horz 9=765(LC 12)
Max Uplift 14=432(LC 12)
Max Grav 9=846(LC 20), 14=1195(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-338/234, 3-4=-696/153, 4-5=-476/394, 5-6=-492/704, 7-13=0/517, 11-13=0/529, 6-11=-190/875, 2-9=-391/411
BOT CHORD 8-9=-675/1036, 7-8=-426/795
WEBS 3-8=-435/444, 8-10=-105/456, 5-11=-610/366, 3-9=-746/283, 4-10=-464/187, 10-12=-464/187, 11-12=-464/187, 5-12=0/306, 6-14=-1265/535

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 15-7-12 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) 100.0lb AC unit load placed on the bottom chord, 12-0-0 from left end, supported at two points, 2-6-0 apart.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 4-10, 10-12, 11-12; Wall dead load (5.0psf) on member(s).8-10
- 8) Bottom chord live load (30.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 7-8
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=432.
- 11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T07	Half Hip	1	1	T35758783
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:56 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-0cVchYUTGXNgtudoZm6yPpP5TCKbxIO?KNJkvyAnKf

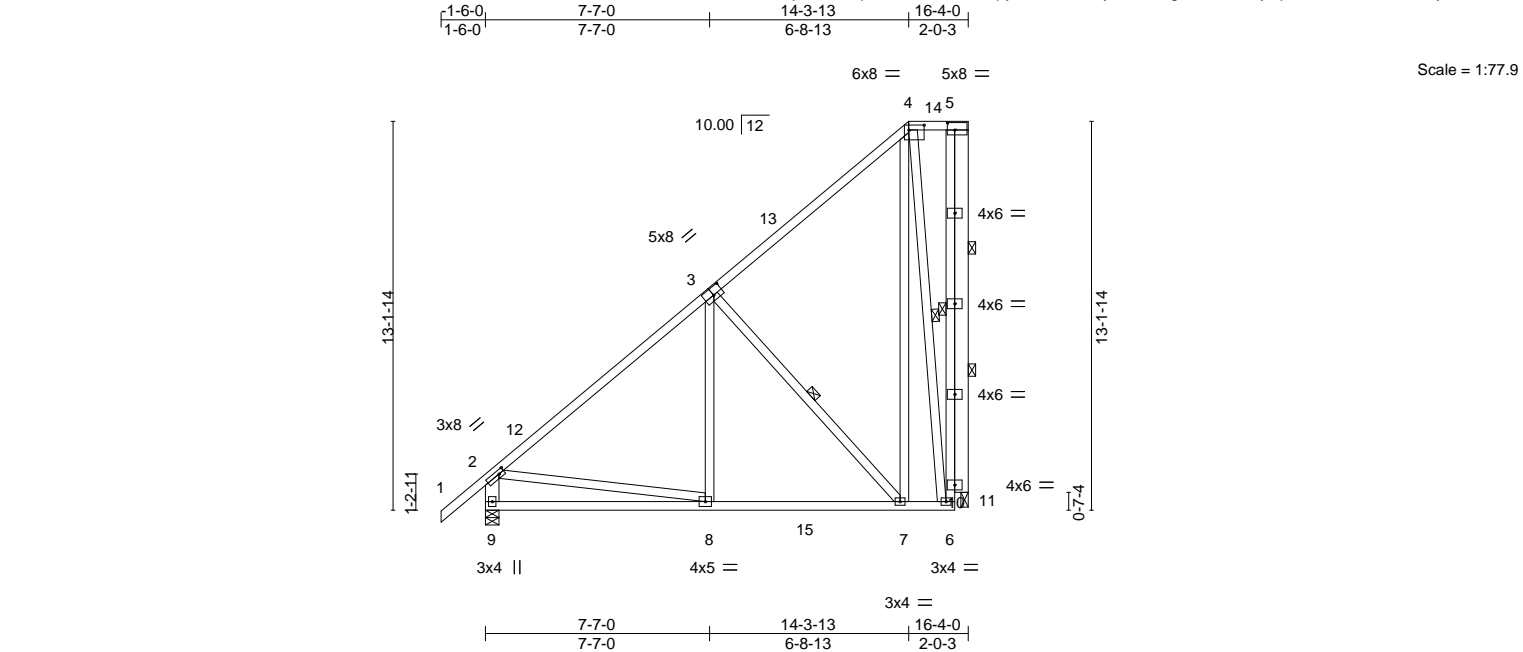


Plate Offsets (X,Y)--	[2:0-2-4,0-1-8], [3:0-4-0,0-3-0], [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.07 8-9 >999 240
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.14 8-9 >999 180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	-0.01 11 n/a n/a
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS		
					Weight: 179 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-8,3-7,2-8: 2x4 SP No.3, 2-9: 2x6 SP No.2
OTHERS 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 6-2-10 oc bracing.
WEBS 1 Row at midpt 5-10, 3-7, 4-6
2 Rows at 1/3 pts 5-11

REACTIONS.

(size) 9=0-5-8, 11=0-3-0
Max Horz 9=706(LC 12)
Max Uplift 9=-114(LC 12), 11=-579(LC 12)
Max Grav 9=785(LC 19), 11=748(LC 19)

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

TOP CHORD 2-3=-653/0, 3-4=-256/3, 6-10=-628/778, 5-10=-628/778, 2-9=-672/182
BOT CHORD 8-9=-910/523, 7-8=-450/554
WEBS 3-8=-29/335, 3-7=-639/531, 4-7=-326/636, 4-6=-783/596, 2-8=-139/464, 5-11=-749/580

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 14-3-13, Zone3 14-3-13 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=114, 11=579.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T08	Half Hip	1	1	T35758784
Job Reference (optional)					

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:57 2024 Page 1

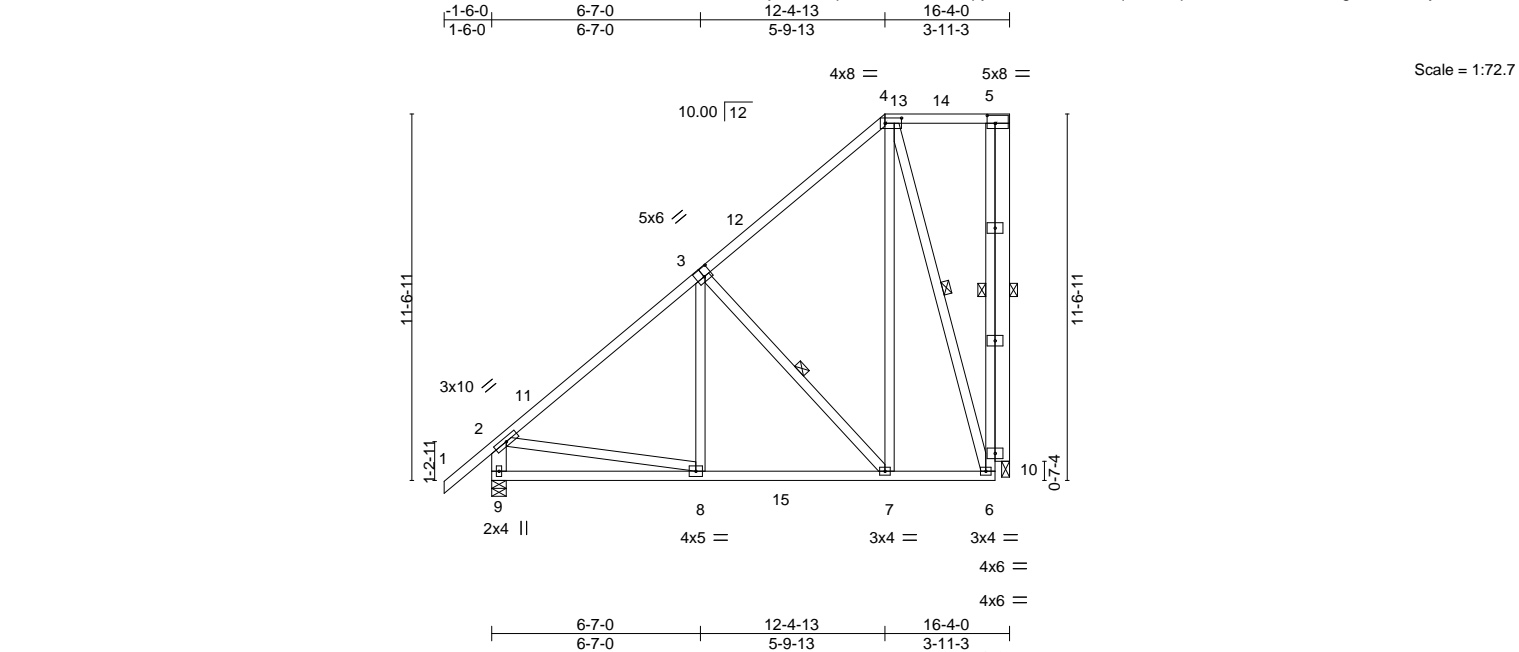


Plate Offsets (X,Y)--		[3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]					4x6 =				
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.48		Vert(LL) -0.04	7-8	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.39		Vert(CT) -0.08	8-9	>999	180		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.67		Horz(CT) -0.01	10	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 164 lb	FT = 20%

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

REACTIONS. (size) 9=0-5-8, 10=0-3-0
Max Horz 9=617(LC 12)
Max Uplift 9=-179(LC 12), 10=-491(LC 12)
Max Grav 9=786(LC 19), 10=651(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-675/66, 3-4=-318/67, 5-6=-466/645, 2-9=-688/233
BOT CHORD 8-9=-745/428, 7-8=-463/565
WEBS 3-8=-11/274, 3-7=-533/449, 4-7=-272/538, 4-6=-608/466, 2-8=-46/421, 5-10=-651/492

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 12-4-13, Zone3 12-4-13 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=179, 10=491.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T09	Half Hip	1	1	T35758785
Job Reference (optional)					

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:57 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Uo3_UIV51qVXQdTpMGHLVdMY?tbWKVtXD_7sGMyAnKe

1-6-01-6-05-7-05-7-011-6-55-11-516-4-04-9-11

Scale = 1:67.3

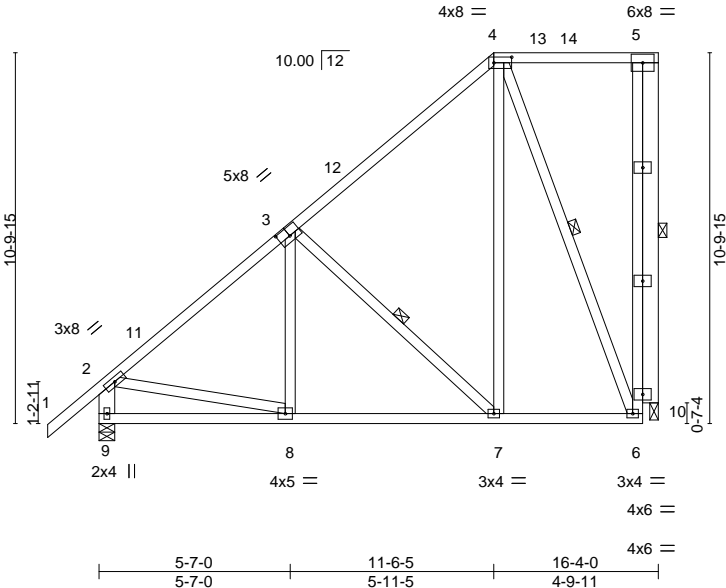


Plate Offsets (X,Y)--		[3:0-4-0,0-3-0], [4:0-6-4,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		4x6 = L/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.76		Vert(LL) -0.03 7-8		>999 240		MT20 244/190	
TCDL 7.0		Lumber DOL 1.25		BC 0.31		Vert(CT) -0.07 7-8		>999 180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.46		Horz(CT) -0.01 10		n/a n/a			
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 156 lb FT = 20%	

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

REACTIONS. (size) 9=0-5-8, 10=0-3-0
Max Horz 9=576(LC 12)
Max Uplift 9=-205(LC 12), 10=-455(LC 12)
Max Grav 9=689(LC 1), 10=551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-622/116, 3-4=-365/94, 5-6=-416/473, 2-9=-641/254
BOT CHORD 8-9=-602/336, 7-8=-498/492
WEBS 3-7=-396/413, 4-7=-215/352, 4-6=-456/434, 2-8=0/374, 5-10=-552/455

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=35ft; Cat. II; Exp C; 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 11-6-5, Zone3 11-6-5 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=205, 10=455.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

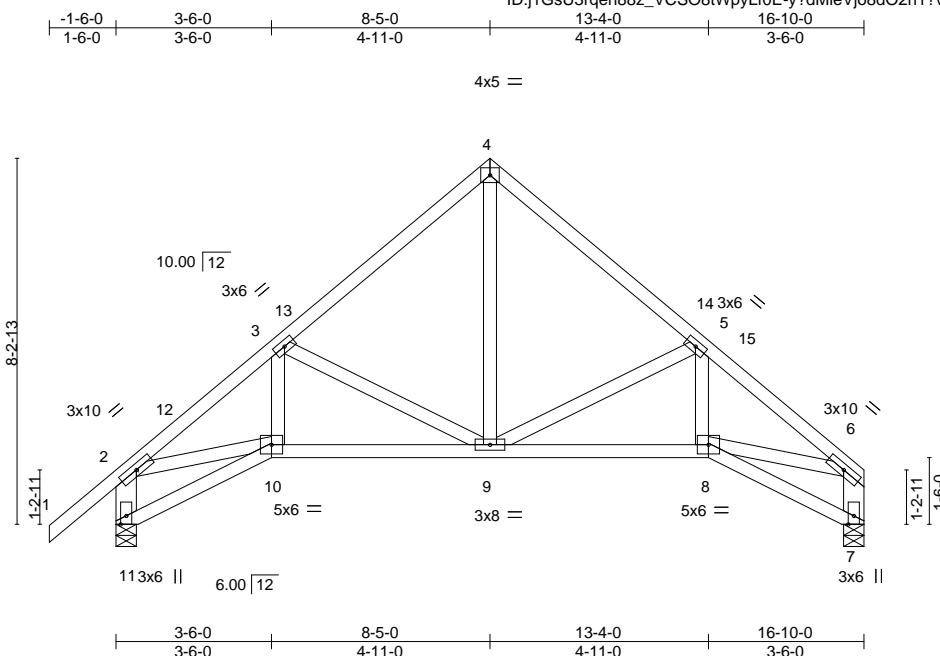
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:58 2024 Page 1
 ID: j1GsU3rqen88z_VCS08tWpyLf0E-y?dMieVjo8dO2n1?v_oa1qvoaHxi3?7gSesQooyAnKd

 1-6-0 3-6-0 4-11-0 13-4-0 16-10-0 3-6-0
 4x5 = Scale = 1:51.5



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-5 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
	2-11,6-7: 2x6 SP No.2		

REACTIONS. (size) 11=0-5-8, 7=0-5-8
 Max Horz 11=340(LC 9)
 Max Uplift 11=-315(LC 12), 7=-245(LC 13)
 Max Grav 11=704(LC 1), 7=601(LC 1)

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

TOP CHORD 2-3=-1005/544, 3-4=-605/380, 4-5=-606/425, 5-6=-978/564, 2-11=-701/446,
6-7=-581/404

BOT CHORD 10-11=-333/338, 9-10=-419/902, 8-9=-381/705

WEBS 4-9=-294/509, 5-9=-425/359, 3-9=-474/398, 3-10=-136/274, 2-10=-331/719,
6-8=-322/688

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCFL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 16-7-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
11=315. 7=245.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9, 2024



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbscomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758787
4371416	T10G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:59 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-QBAkv_WLZSIFwcCThJpa2RzBgGios3qhlczLEyAnKc
1-6-0 3-6-0 8-5-0 13-4-0 16-10-0 18-4-0
1-6-0 3-6-0 4-11-0 4-11-0 3-6-0 1-6-0
4x5 = Scale = 1:49.4

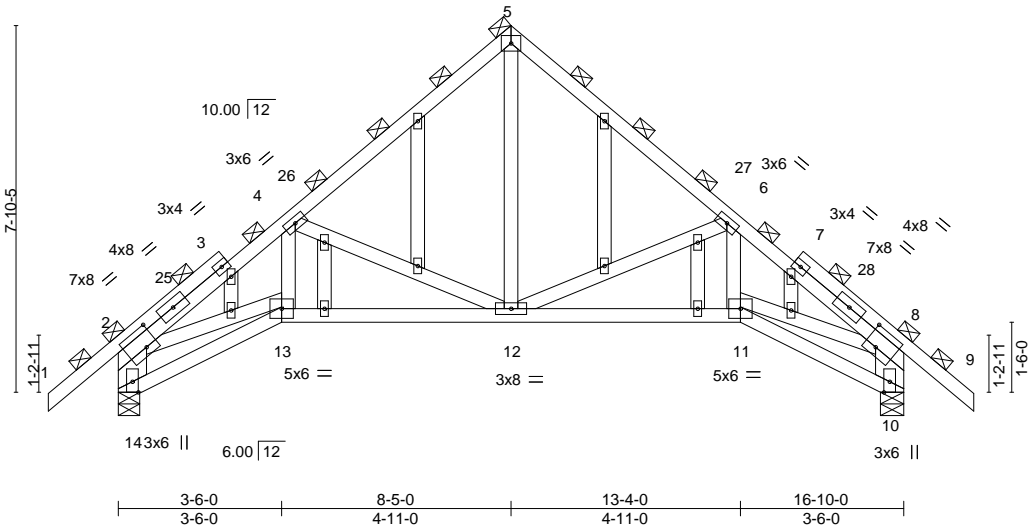


Plate Offsets (X,Y)--		[2:0-3-0,0-5-0], [8:0-3-0,0-5-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.03	12-13	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.06	12-13	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.05	10	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 135 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-14,8-10: 2x8 SP 2400F 2.0E
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (5-7-7 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-6 oc bracing.

REACTIONS. (size) 14=0-5-8, 10=0-6-0
Max Horz 14=336(LC 11)
Max Uplift 14=-319(LC 12), 10=-319(LC 13)
Max Grav 14=698(LC 1), 10=698(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1143/493, 4-5=-619/335, 5-6=-619/356, 6-8=-1061/412, 2-14=-724/420,
8-10=-680/450
BOT CHORD 13-14=-279/370, 12-13=-423/1040, 11-12=-200/777
WEBS 5-12=-206/500, 6-12=-473/346, 6-11=-4/268, 4-12=-571/423, 4-13=-118/330,
2-13=-337/824, 8-11=-266/765

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 18-4-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=319, 10=319.
 - 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 O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

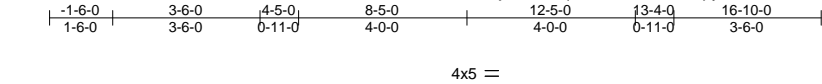
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758788
4371416	T11	Roof Special	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:59 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-QBAkv_WLZSIFwcCThJpa2Rzjg7GoR0qhIczLEyAnKc



Scale = 1:54.7

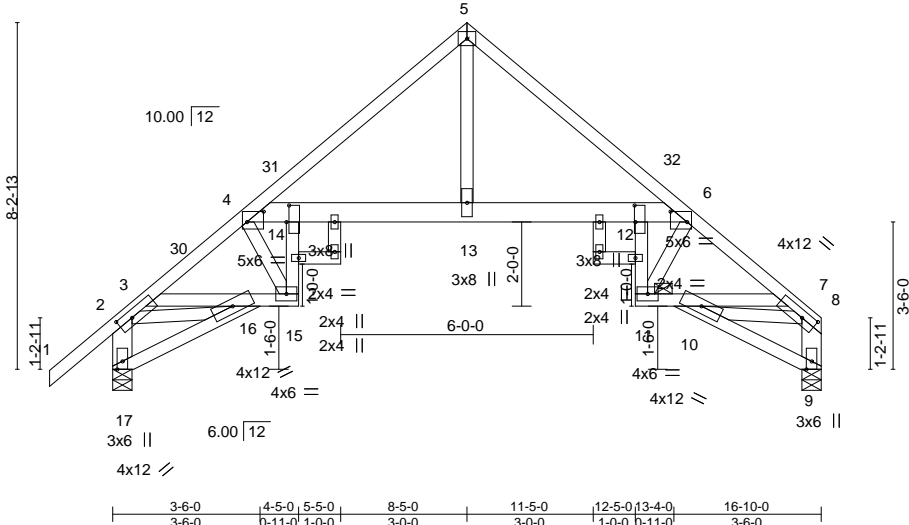


Plate Offsets (X,Y)-- [3:0-4-4,0-2-0], [4:0-4-11,0-3-0], [6:0-4-11,0-3-0], [8:0-4-4,0-2-0], [12:0-4-12,0-0-4], [14:0-4-12,0-0-12]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.21 13-14	>917	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.28 12-13	>699	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.50 9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 117 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
14-15,11-12,18-19,21-22: 2x4 SP No.3
4-6: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
2-17,8-9: 2x6 SP No.2

REACTIONS.

(size) 17=0-5-8, 9=0-5-8
Max Horz 17=340(LC 9)
Max Uplift 17=-315(LC 12), 9=-245(LC 13)
Max Grav 17=704(LC 1), 9=601(LC 1)

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

TOP CHORD 2-3=-833/449, 4-25=-913/514, 4-5=-1045/545, 5-6=-1108/587, 6-7=-903/566,
7-8=-843/560, 2-17=-732/453, 8-9=-597/402
BOT CHORD 16-17=-351/380, 15-16=-399/874, 14-15=-791/1757, 4-14=-199/788, 13-14=-251/887,
12-13=-251/887, 6-12=-248/821, 11-12=-747/1362, 10-11=-380/685
WEBS 5-13=-478/1045, 6-11=-1378/761, 2-16=-188/435, 8-10=-328/473, 4-15=-1742/790

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 16-7-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 17, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=315, 9=245.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing. Except:
9-6-0 oc bracing: 10-11
10-0-0 oc bracing: 12-13
JOINTS 1 Brace at Jt(s): 11

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

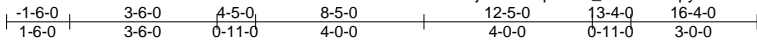
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758789
4371416	T12	Roof Special	3	1		
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,						8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:00 2024 Page 1
Job Reference (optional)						ID:j1GsU3rqen88z_VCSO8tWpyLf0E-uNk77KXzKlt6H4BO1Oq27F_8S4UIXuezwyLWtgyAnKb



4x5 =

Scale = 1:54.7

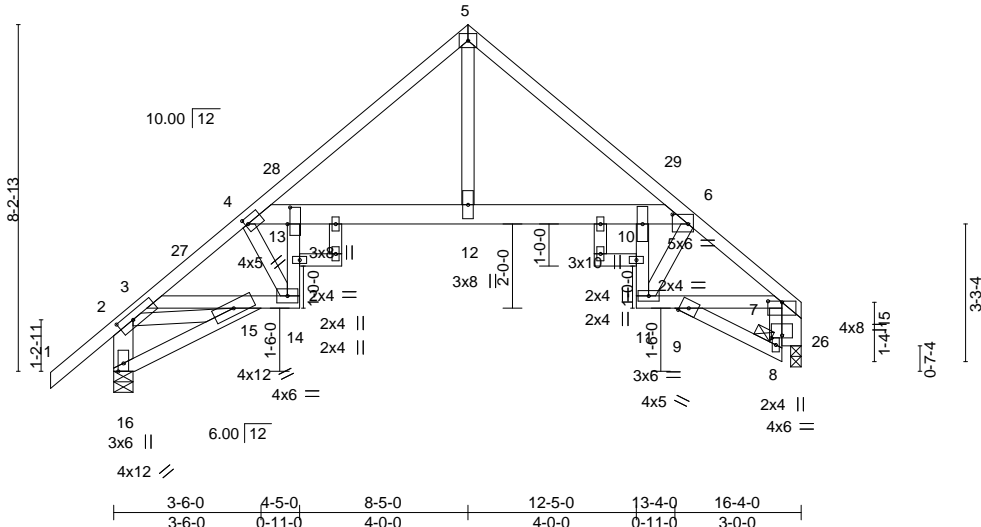


Plate Offsets (X,Y)--		[3:0-4-8,0-2-0], [4:0-0-12,0-1-12], [6:0-4-7,0-2-12], [7:0-4-0,0-0-5], [8:0-3-0,0-0-12], [13:0-4-12,0-0-12]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.23 12-13	>822	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.26 12-13	>752	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.42 26	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 112 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
13-14,10-11,17-18,20-21: 2x4 SP No.3
4-6: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
2-16: 2x6 SP No.2
OTHERS 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-4-1 oc bracing: 14-15.
10-0-0 oc bracing: 10-12

REACTIONS.

(size) 16=0-5-8, 26=0-3-0
Max Horz 16=310(LC 9)
Max Uplift 16=306(LC 12), 26=228(LC 12)
Max Grav 16=689(LC 1), 26=551(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-799/445, 4-24=-875/512, 4-5=-986/528, 5-6=-1036/568, 6-7=-812/524,
2-16=-708/508
BOT CHORD 15-16=-315/347, 14-15=-477/824, 13-14=-952/1656, 4-13=-215/715, 12-13=-273/809,
10-12=-273/809, 6-10=-254/762, 10-11=-640/1150, 9-11=-333/586, 7-9=-179/359,
8-9=-171/258
WEBS 4-14=-1642/943, 5-12=-451/955, 6-11=-1198/682, 2-15=-209/415, 7-26=-592/381

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 16, 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=306, 26=228.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758790
4371416	T13	Roof Special	2	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:01 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-MaIVKgYb53?zvEmab6LHfTXJjUyRGM?78c54P7yAnKa

-1-6-0
1-6-0

3-6-0
3-6-0

8-5-0
4-11-0

13-4-0
4-11-0

16-4-0
3-0-0

4x5 =

Scale = 1:51.9

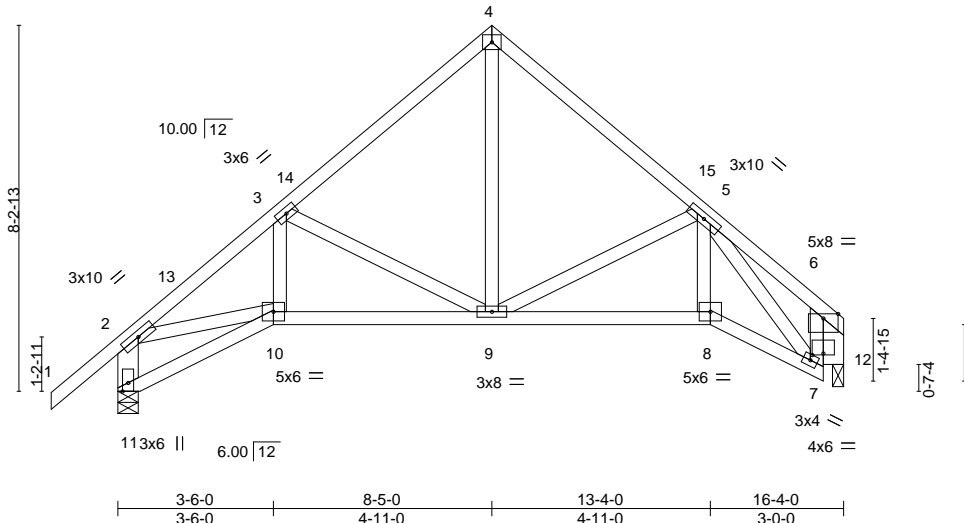


Plate Offsets (X,Y)--	[7:0-3-0,0-0-7]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	0.03 9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.05 8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 108 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	
2-11: 2x6 SP No.2, 6-7: 2x4 SP No.2	
OTHERS 2x6 SP No.2	

REACTIONS. (size) 11=0-5-8, 12=0-3-0
Max Horz 11=310(LC 9)
Max Uplift 11=306(LC 12), 12=228(LC 12)
Max Grav 11=689(LC 1), 12=551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-964/540, 3-4=-580/381, 4-5=-580/422, 5-6=-315/267, 2-11=-679/496, 6-7=-166/324
BOT CHORD 10-11=-300/307, 9-10=-498/852, 8-9=-344/619, 7-8=-383/704
WEBS 3-10=-119/257, 3-9=-462/421, 4-9=-284/467, 5-9=-342/320, 5-8=-124/334, 2-10=-325/691, 5-7=-708/376, 6-12=-586/377

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 11, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=306, 12=228.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758791
4371416	T14	Half Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:01 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-MaIVKgYb53?zvEmab6LHfTXJHUrqGLI78c54P7yAnKa

Job Reference (optional)

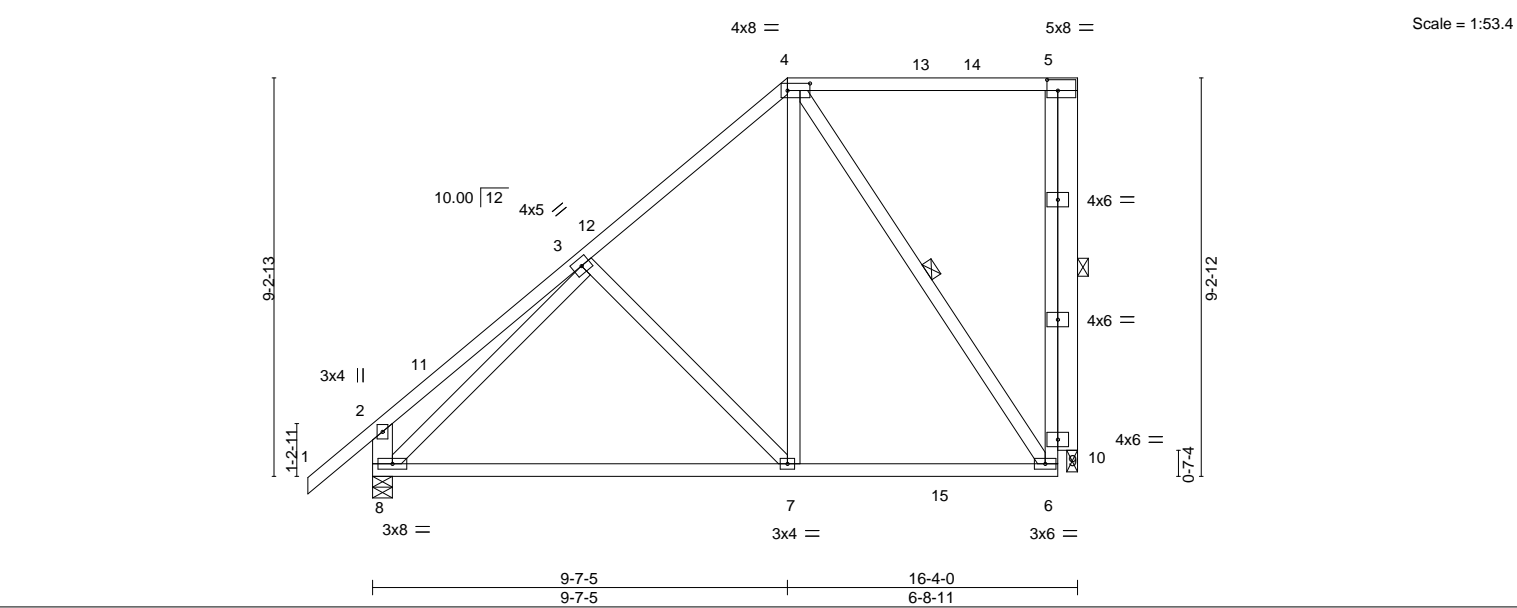


Plate Offsets (X,Y)--		[4:0-6-4,0-2-0], [5:0-3-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.42	Vert(LL)	-0.20	7-8	>965	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.73	Vert(CT)	-0.40	7-8	>480	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.34	Horz(CT)	-0.01	10	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 137 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-5-11 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-6, 5-10
2-8: 2x6 SP No.2	
OTHERS 2x6 SP No.2	

REACTIONS.	(size) 8=0-5-8, 10=0-3-0
	Max Horz 8=487(LC 12)
	Max Uplift 8=255(LC 12), 10=382(LC 12)
	Max Grav 8=763(LC 19), 10=625(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=340/206, 3-4=486/184, 6-9=297/524, 5-9=297/524, 2-8=399/297
BOT CHORD	7-8=476/502, 6-7=237/340
WEBS	3-7=239/341, 4-7=182/528, 4-6=539/371, 3-8=402/47, 5-10=626/382

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 9-7-5, Zone2 9-7-5 to 13-10-4, Zone1 13-10-4 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=255, 10=382.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758792
4371416	T15	Monopitch	12	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:01 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-MalVKgYb53?zvEmab6LHfTXEuUtwGK378c54P7yAnKa



Scale = 1:18.1

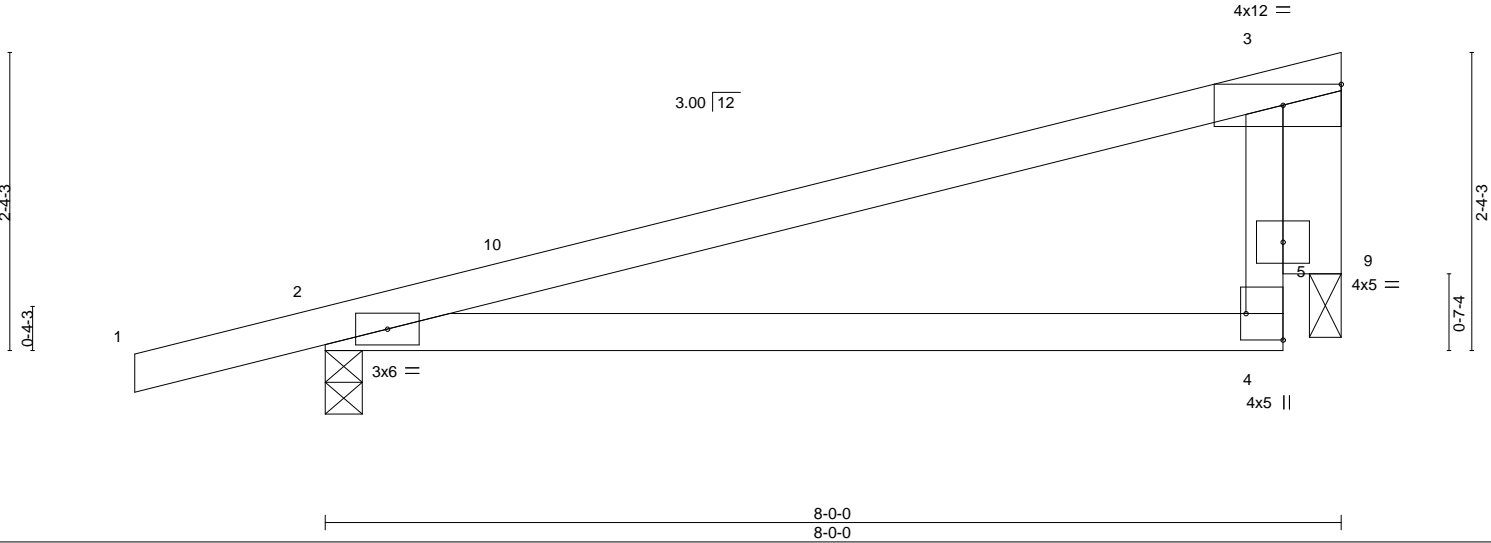


Plate Offsets (X,Y)--		[4:Edge,0-3-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77
TCDL 7.0	Lumber DOL	1.25	BC 0.60
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.39
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.23 4-8	>416	240
Vert(CT)	0.19 4-8	>499	180
Horz(CT)	-0.01 9	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 32 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-11-2 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 9=0-3-0
Max Horz 2=131(LC 8)
Max Uplift 2=-396(LC 8), 9=-757(LC 8)
Max Grav 2=416(LC 1), 9=813(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-386/591
BOT CHORD 2-4=-641/346
WEBS 3-9=-886/1821

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 7-4-12 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) 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=396, 9=757.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 600 lb down and 1383 lb up at 8-0-0 on top 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: 1-3=-54, 4-6=-20
Concentrated Loads (lb)
Vert: 3=-600

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

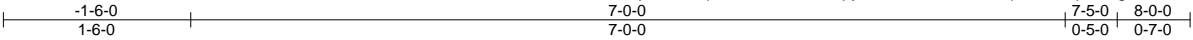
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758793
4371416	T16	Half Hip Girder	2	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:02 2024 Page 1

ID;j1GsU3rqen88z_VCSO8tWpyLf0E-rmstY0YEsN8qWOLm8ptWCg3SluEE?ooGNGqdxZyAnKZ



Scale = 1:18.4

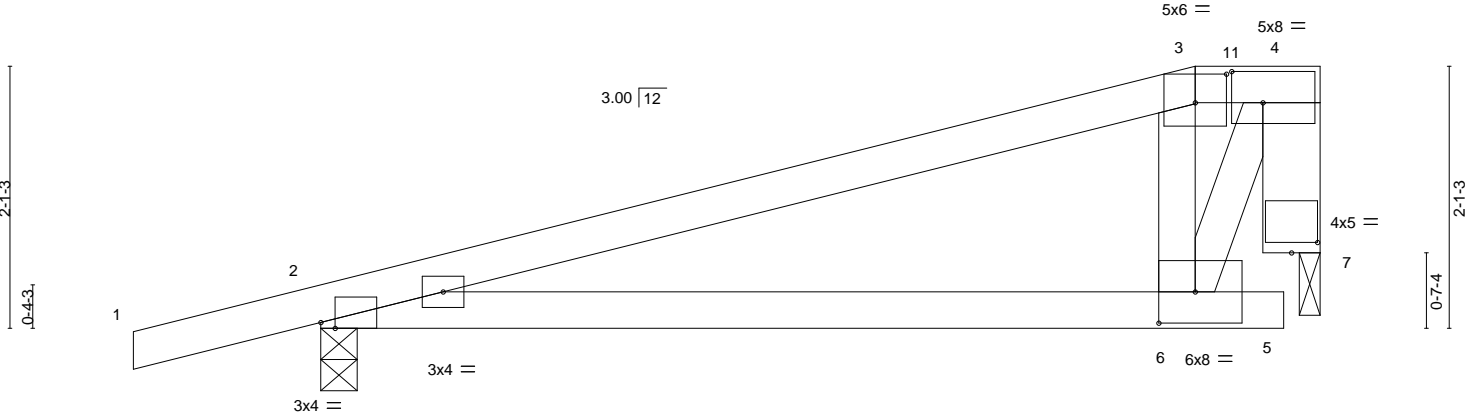


Plate Offsets (X,Y)--		[2:0-1-6,Edge], [3:0-3-0,0-2-12], [4:0-3-0,0-3-0], [6:0-3-8,0-3-0], [7:0-2-8,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57
TCDL 7.0	Lumber DOL	1.25	BC 0.53
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.36
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	0.12 6-10 >791 240
		Vert(CT)	-0.17 6-10 >538 180
		Horz(CT)	-0.01 7 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 34 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-3-15 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 7=0-2-0
Max Horz 2=126(LC 25)
Max Uplift 2=-315(LC 4), 7=-608(LC 4)
Max Grav 2=428(LC 1), 7=685(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-430/313, 3-4=-424/368, 4-7=-685/608
BOT CHORD 2-6=-341/392
WEBS 3-6=-397/337, 4-6=-813/936

- 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=35ft; Cat. II; Exp C; 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=315, 7=608.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 149 lb up at 7-0-0 on top chord, and 343 lb down and 415 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) 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, 5-8=-20

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758793
4371416	T16	Half Hip Girder	2	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-116(B) 6=-343(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758794
4371416	T17	Monopitch	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:02 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-rmstY0YEsN8qWOLm8ptWCg3Q5uEh?m_GNGqdxZyAnKZ



Scale = 1:18.1

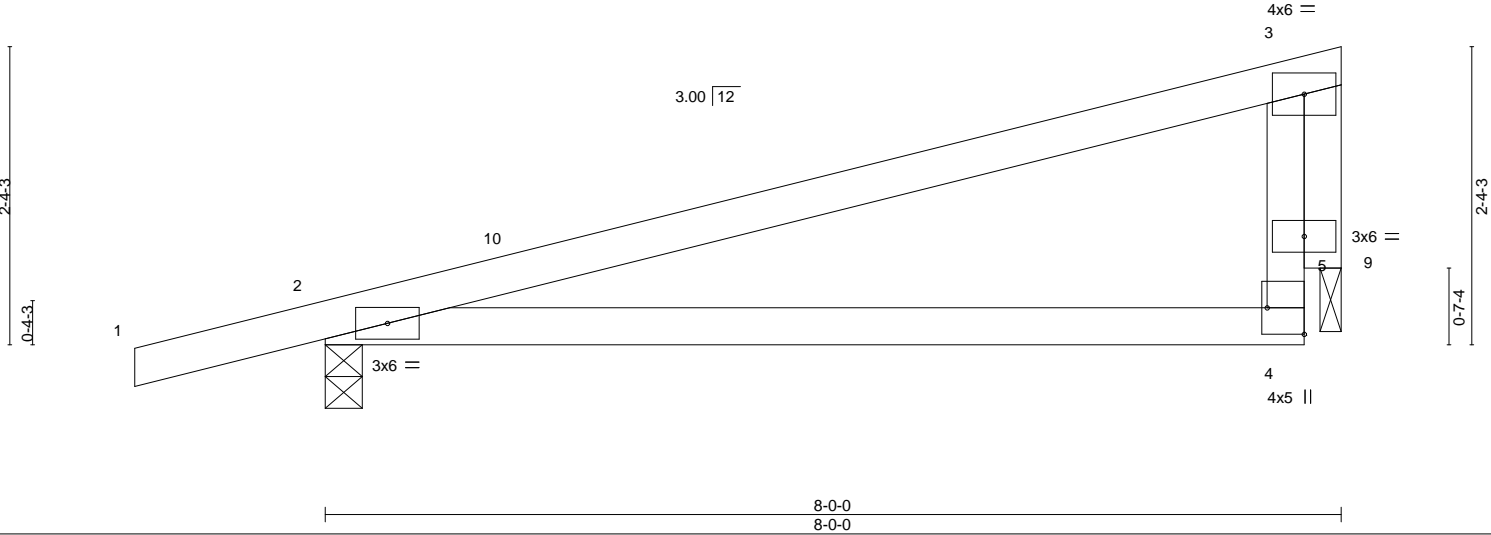


Plate Offsets (X,Y)--		[4:Edge,0-3-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.67	Vert(LL)	0.26	4-8	>371	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.57	Vert(CT)	0.21	4-8	>445	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.47	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR						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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-3 oc bracing.

REACTIONS.

(size) 2=0-3-8, 9=0-2-0
Max Horz 2=133(LC 8)
Max Uplift 2=-364(LC 8), 9=-249(LC 8)
Max Grav 2=381(LC 1), 9=260(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-4=-297/188
WEBS 3-9=-279/438

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 7-6-12 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) 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 at joint(s) 9.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=364, 9=249.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758795
4371416	T18	MONO TRUSS	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:03 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JyQFILZsdgGh8YwziXOlkucamIYlkDqQcwaBU?yAnKY

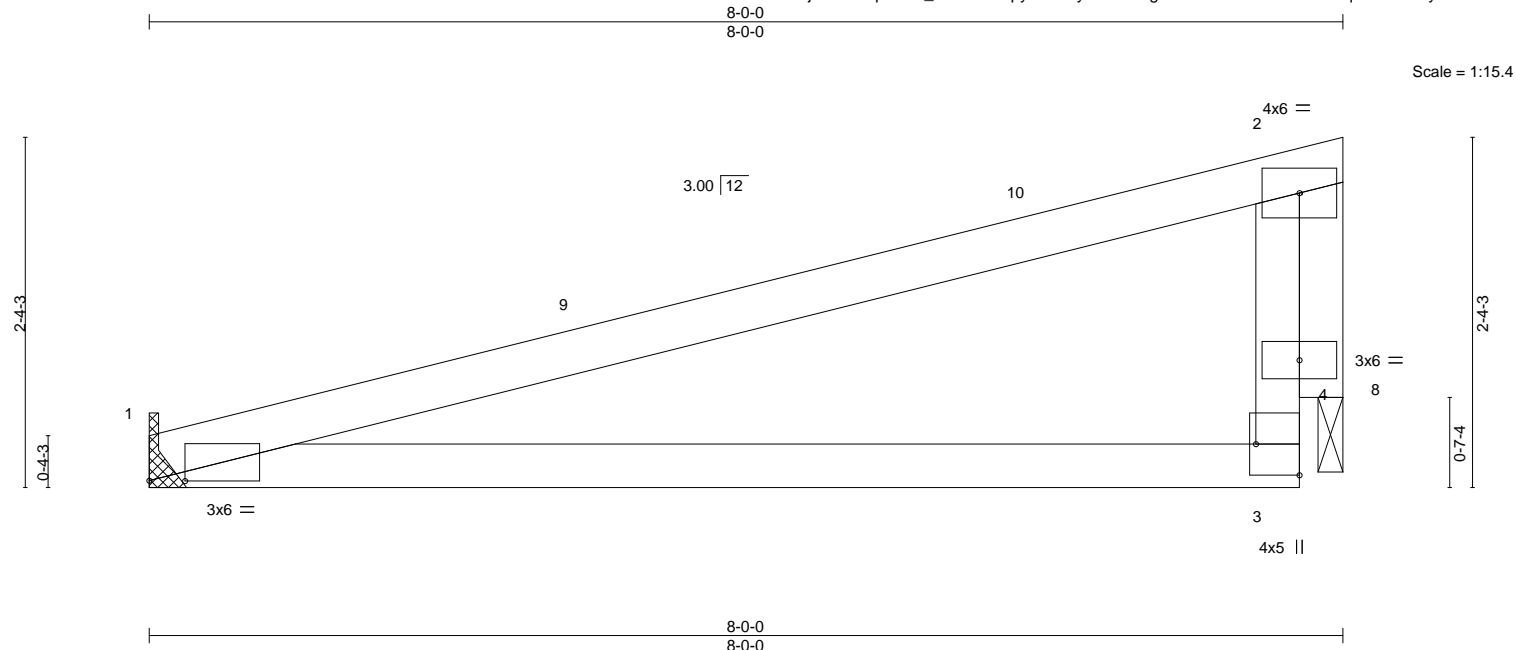


Plate Offsets (X,Y)--		[1:0-2-14,0-0-0], [3:Edge,0-3-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74
TCDL 7.0	Lumber DOL	1.25	BC 0.67
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.29 3-7 >326 240
			Vert(CT) 0.25 3-7 >385 180
			Horz(CT) -0.01 1 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 28 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-0-8 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 1=Mechanical, 8=0-2-0
Max Horz 1=106(LC 8)
Max Uplift 1=-255(LC 8), 8=-259(LC 8)
Max Grav 1=292(LC 1), 8=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-231/255
BOT CHORD 1-3=-319/197
WEBS 2-8=-287/449

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 7-6-12 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) Refer to girder(s) for truss to truss connections.
 - 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=255, 8=259.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758796
4371416	T19	Common Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:03 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JyQFILZsdgGh8YwziXOlkuceblWRkGcQcwaBU?yAnKY

4-5-0 4-5-0 8-10-0 4-5-0

Scale = 1:16.2

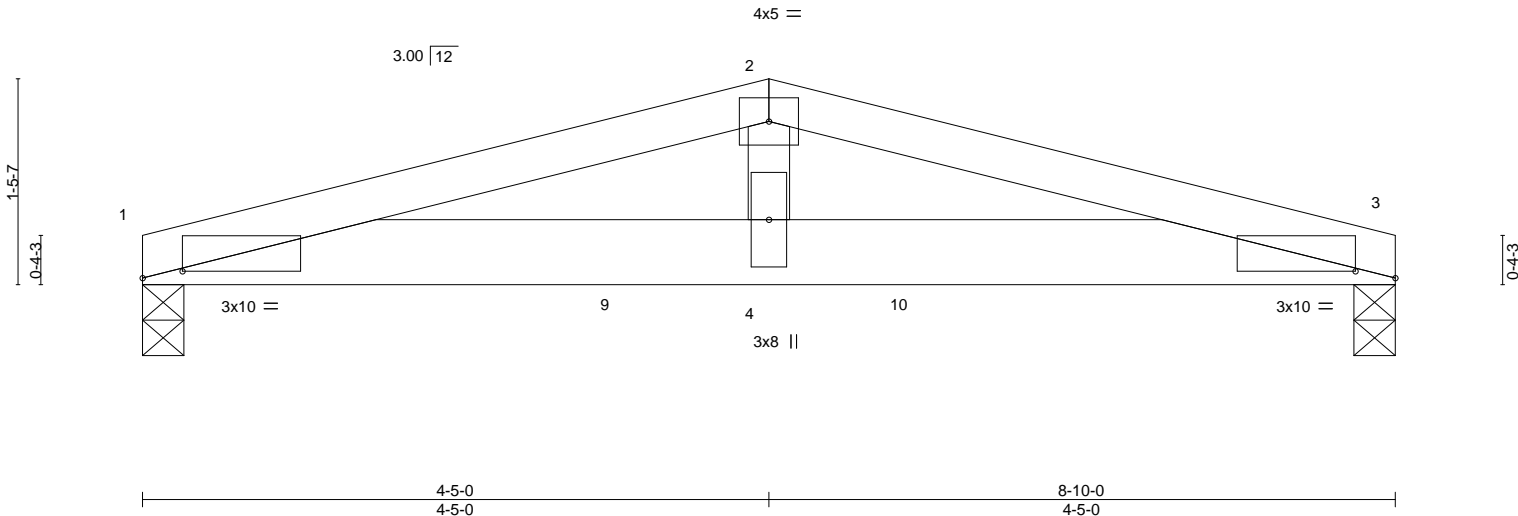


Plate Offsets (X,Y)--		[1:0-3-6,0-0-9], [3:0-3-6,0-0-9]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50
TCDL 7.0	Lumber DOL	1.25	BC 0.79
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.32
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.12 4-6 >875 240
			Vert(CT) -0.12 4-8 >909 180
			Horz(CT) -0.02 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 35 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-1-8 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 1=0-3-8, 3=0-3-8
	Max Horz 1=27(LC 8)
	Max Uplift 1=-746(LC 4), 3=-746(LC 5)
	Max Grav 1=871(LC 1), 3=872(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2218/1864, 2-3=-2218/1863
BOT CHORD	1-4=-1786/2147, 3-4=-1786/2147
WEBS	2-4=-728/839

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=746, 3=746.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 272 lb down and 275 lb up at 1-4-12, 272 lb down and 275 lb up at 3-4-12, and 272 lb down and 275 lb up at 5-5-4, and 272 lb down and 275 lb up at 7-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced):	Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)	
Vert:	1-2=-54, 2-3=-54, 1-3=-20
Concentrated Loads (lb)	
Vert:	6=-272(B) 8=-272(B) 9=-272(B) 10=-272(B)

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

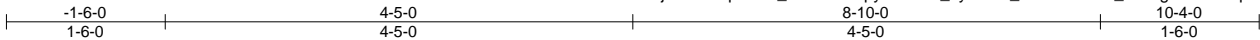
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758797
4371416	T19G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:04 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-n9_dyhaUN_OYmiV9GEv_H59rgh0CTIaZqaJk0SyAnKX



Scale = 1:21.8

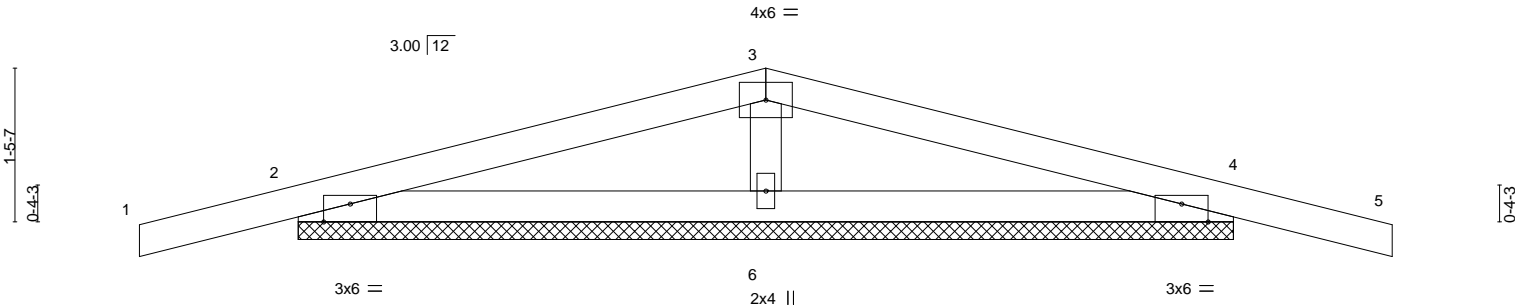


Plate Offsets (X,Y)--	[2:0-3-0,Edge], [4:0-3-0,Edge]
-----------------------	--------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	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 0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 33 lb	FT = 20%

LUMBER-

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

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=8-10-0, 4=8-10-0, 6=8-10-0
Max Horz 2=38(LC 8)
Max Uplift 2=-204(LC 8), 4=-208(LC 9), 6=-123(LC 12)
Max Grav 2=240(LC 25), 4=240(LC 26), 6=344(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-228/487

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=35ft; Cat. II; Exp C; 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=204, 4=208, 6=123.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

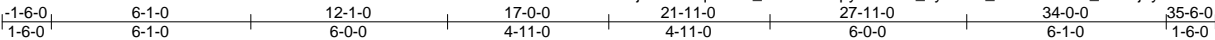
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758798
4371416	T20	Piggyback Base	2	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:04 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-n9_dyhaUN_OYmiV9GEv_H59kjhyCTchZqaJk0SyAnKX



Scale = 1:70.3

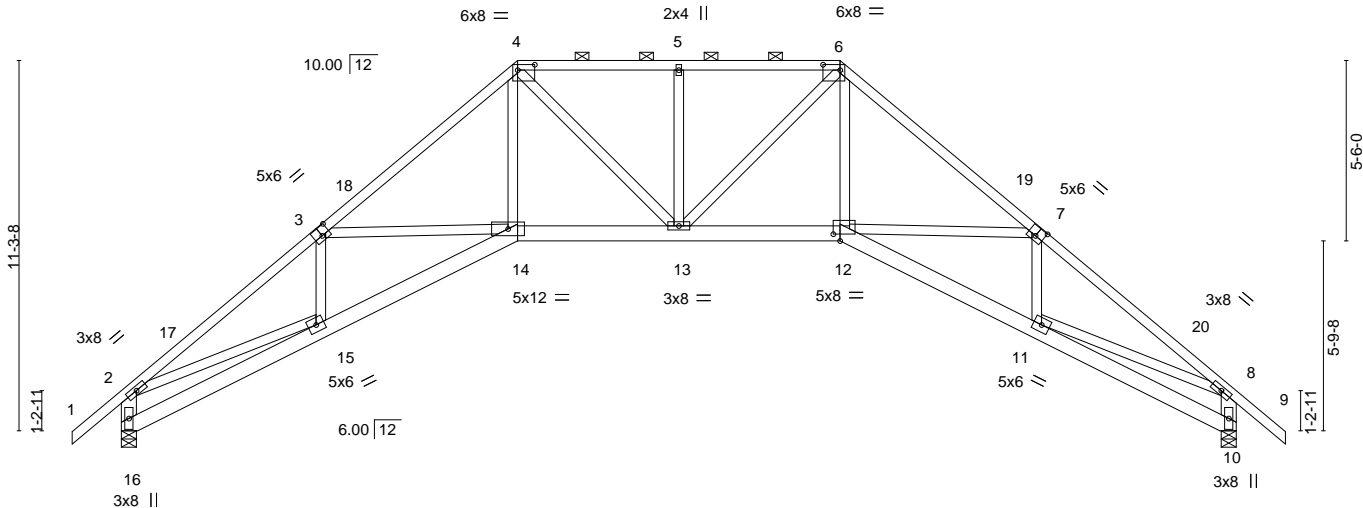


Plate Offsets (X,Y)--	[3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-3-0,0-3-4], [12:0-2-8,0-2-8]
-----------------------	--

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 0.79	Vert(LL)	0.20 14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.34 13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.38 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 243 lb	FT = 20%

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

REACTIONS. (size) 16=0-5-8, 10=0-5-8
Max Horz 16=464(LC 10)
Max Uplift 16=620(LC 12), 10=620(LC 13)
Max Grav 16=1334(LC 1), 10=1334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2689/1276, 3-4=-2540/1076, 4-5=-2042/886, 5-6=-2042/886, 6-7=-2540/850,
7-8=-2689/1002, 2-16=-1345/798, 8-10=-1345/686
BOT CHORD 15-16=-541/648, 14-15=-1155/2315, 13-14=-864/1858, 12-13=-585/1858,
11-12=-652/2226
WEBS 3-14=-335/443, 4-14=-487/1127, 4-13=-360/394, 5-13=-291/268, 6-13=-363/394,
6-12=-270/1091, 7-12=-435/491, 2-15=-689/1877, 8-11=-478/1877

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 16, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=620, 10=620.
 - 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 O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758799
4371416	T20G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:06 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-jX6ONNckvbeF??fYNfxSMWE6yVaDxWLSluor5KyAnKV

-1-6-0
1-6-0

6-1-0
6-1-0

12-6-8
6-5-8

17-0-0
4-5-8

21-5-8
4-5-8

27-11-0
6-5-8

34-0-0
6-1-0

35-6-0
1-6-0

Scale = 1:71.1

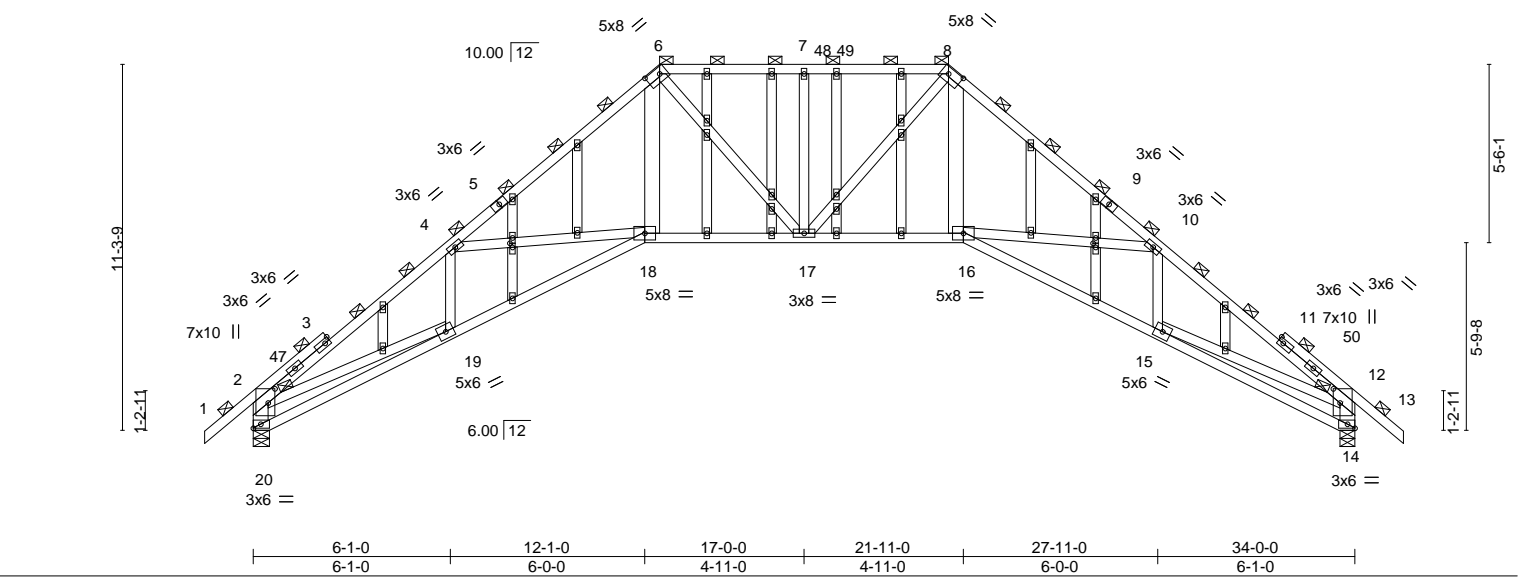


Plate Offsets (X,Y)--										[2:0-5-4,0-2-8], [6:0-5-4,0-2-4], [8:0-5-4,0-2-4], [12:0-5-4,0-2-8], [25:0-1-8,0-1-0], [36:0-1-8,0-1-0]									
LOADING (psf)		SPACING- 2-0-0			CSI.		DEFL. in (loc) l/defl L/d			PLATES		GRIP							
TCLL	20.0	Plate Grip DOL 1.25			TC	0.68	Vert(LL)	0.22	18	>999	240	MT20	244/190						
TCDL	7.0	Lumber DOL 1.25			BC	0.66	Vert(CT)	-0.37	16-17	>999	180								
BCLL	0.0 *	Rep Stress Incr YES			WB	0.70	Horz(CT)	0.46	14	n/a	n/a								
BCDL	10.0	Code FBC2023/TPI2014			Matrix-MS							Weight: 279 lb	FT = 20%						

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x4 SP No.2 *Except*	2-0-0 oc purlins (3-5-2 max.), except end verticals.
5-6,8-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	Rigid ceiling directly applied or 5-0-10 oc bracing.
2-5,9-12: 2x4 SP No.1	
BOT CHORD	
2x4 SP No.2	
WEBS	
2x4 SP No.3 *Except*	
6-18,8-16,2-20,12-14: 2x6 SP No.2	
OTHERS	
2x4 SP No.3	

REACTIONS.	(size) 20=0-6-0, 14=0-5-8
	Max Horz 20=-406(LC 10)
	Max Uplift 20=-618(LC 12), 14=-618(LC 13)
	Max Grav 20=1334(LC 1), 14=1334(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-2974/1466, 4-6=-2684/1173, 6-7=-2004/909, 7-8=-2004/909, 8-10=-2684/942, 10-12=-2974/1091, 2-20=-1505/903, 12-14=-1505/752
BOT CHORD	19-20=-615/857, 18-19=-1359/2573, 17-18=-775/1858, 16-17=-513/1858, 15-16=-753/2501, 14-15=-276/548
WEBS	4-18=-440/536, 6-18=-558/1224, 6-17=-336/360, 7-17=-254/238, 8-17=-337/360, 8-16=-298/1200, 10-16=-493/583, 2-19=-701/1849, 12-15=-512/1849

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-6-8, Zone2 12-6-8 to 17-4-3, Zone1 17-4-3 to 21-5-8, Zone2 21-5-8 to 26-3-3, Zone1 26-3-3 to 35-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 20, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758799
4371416	T20G	GABLE	1	1	Job Reference (optional)	

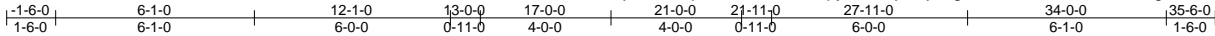
NOTES-
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758800
4371416	T21	Piggyback Base	2	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:07 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-BjfmBjcMgvm6d9DkxMShvknCAvuPgvyQ?XYYOdnYAnKU



Scale = 1:70.5

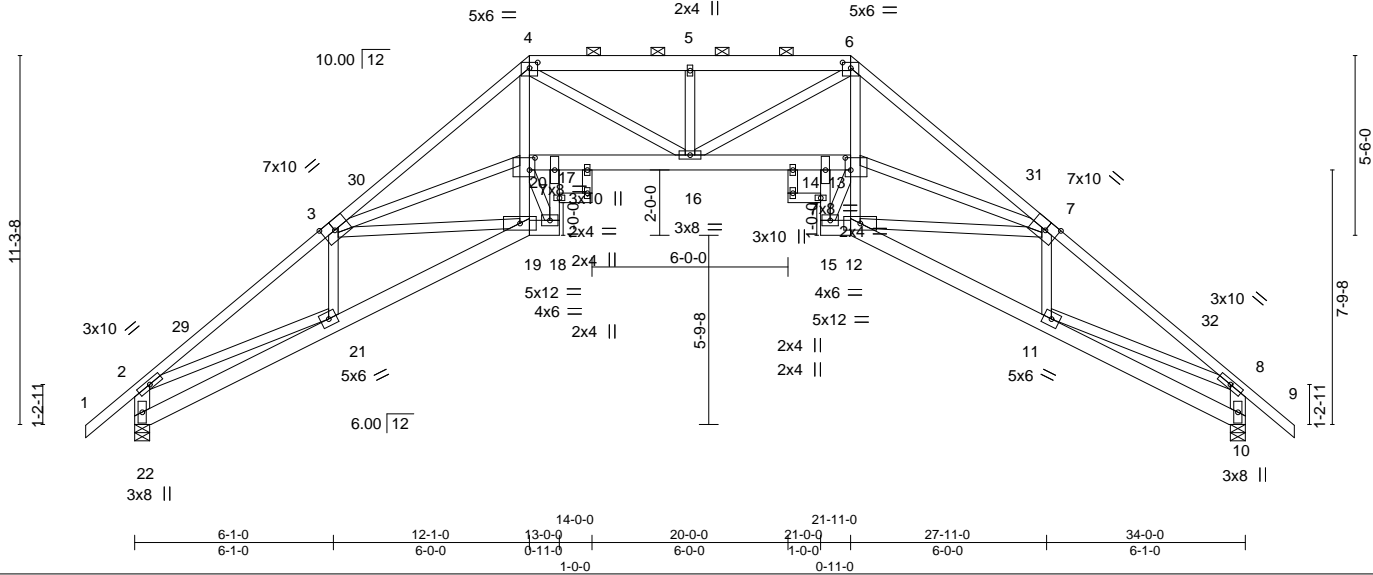


Plate Offsets (X,Y)-- [3:0-4-8,Edge], [4:0-3-0,0-2-1], [6:0-3-0,0-2-1], [7:0-4-8,Edge], [13:0-2-0,0-4-8], [20:0-2-0,0-4-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	0.40 16-17 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.70 14-16 >573 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.94 10 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 281 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
4-6: 2x6 SP No.2, 1-3,7-9: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
17-18,14-15,23-24,26-27: 2x4 SP No.3
13-20: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
4-19,6-12: 2x4 SP No.2, 2-22,8-10: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-7 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-10-5 oc bracing.

REACTIONS. (size) 22=0-5-8, 10=0-5-8
Max Horz 22=462(LC 11)
Max Uplift 22=620(LC 12), 10=620(LC 13)
Max Grav 22=1334(LC 1), 10=1334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2671/1267, 3-4=-3707/1531, 4-5=-3560/1402, 5-6=-3560/1402, 6-7=-3707/1096,
7-8=-2671/1000, 2-22=-1343/799, 8-10=-1343/689
BOT CHORD 21-22=-546/654, 19-21=-1148/2306, 18-19=-281/610, 17-18=-543/1140,
17-20=-1232/2656, 16-17=-1268/2732, 14-16=-866/2732, 13-14=-846/2656,
14-15=-330/1139, 12-15=-167/611, 11-12=-649/2221, 10-11=-148/254
WEBS 3-21=-254/183, 3-20=-1062/2286, 19-20=-494/1139, 4-20=-693/1519, 12-13=-273/1104,
6-13=-275/1513, 7-13=-730/2285, 7-11=-254/140, 2-21=-673/1849, 8-11=-468/1849,
4-16=-399/1032, 6-16=-686/1032, 5-16=-312/279, 18-20=-1282/589, 13-15=-1281/353,
3-19=-1472/779, 7-12=-1362/498

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 35-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 22, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=620, 10=620.
 - 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

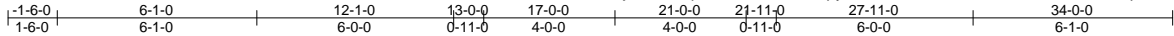
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758801
4371416	T22	PIGGYBACK BASE	2	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:08 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-fwD8o3d_RDuzEJowV4zwRxJNqJEdPM_9lCHy9DyAnKT



Scale = 1:70.2

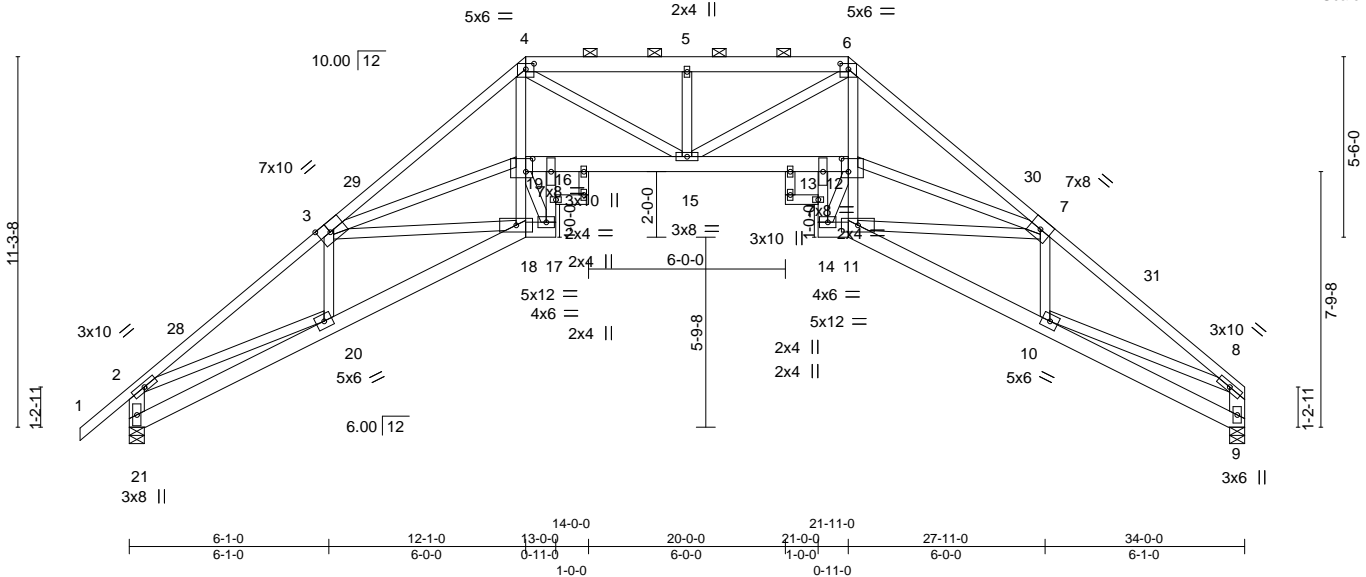


Plate Offsets (X,Y)-- [3:0-4-4,Edge], [4:0-3-0,0-2-1], [6:0-3-0,0-2-1], [12:0-2-8,0-4-12], [19:0-2-8,0-4-12]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.41	15-16	>977	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.70	15-16	>575	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.93	9	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 278 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
4-6: 2x6 SP No.2, 1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
16-17,13-14,22-23,25-26: 2x4 SP No.3
12-19: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
4-18,6-11: 2x4 SP No.2, 2-21,8-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-3 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.

REACTIONS. (size) 21=0-5-8, 9=0-5-8
Max Horz 21=445(LC 11)
Max Uplift 21=621(LC 12), 9=551(LC 13)
Max Grav 21=1337(LC 1), 9=1239(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2677/1309, 3-4=-3719/1592, 4-5=-3573/1459, 5-6=-3573/1459, 6-7=-3732/1158,
7-8=-2694/1083, 2-21=-1346/816, 8-9=-1251/629
BOT CHORD 20-21=-570/615, 18-20=-1197/2255, 17-18=-294/611, 16-17=-569/1141,
16-19=-1297/2665, 15-16=-1335/2741, 13-15=-935/2749, 12-13=-913/2673,
13-14=-350/1128, 11-14=-178/603, 10-11=-812/2261
WEBS 3-20=-255/190, 3-19=-1119/2295, 18-19=-520/1115, 4-19=-724/1519, 11-12=-357/1145,
6-12=-389/1543, 7-12=-791/2308, 7-10=-260/167, 2-20=-706/1853, 8-10=-590/1868,
4-15=-423/1038, 6-15=-696/1027, 5-15=-315/279, 17-19=-1284/617, 12-14=-1263/375,
3-18=-1442/823, 7-11=-1410/601

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 33-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 21, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=621, 9=551.
 - 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758802
4371416	T23	Piggyback Base	3	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:08 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-fwD8o3d_RDuzEJowV4zwRxJQfJJ2PPY9lCHy9DyAnKT

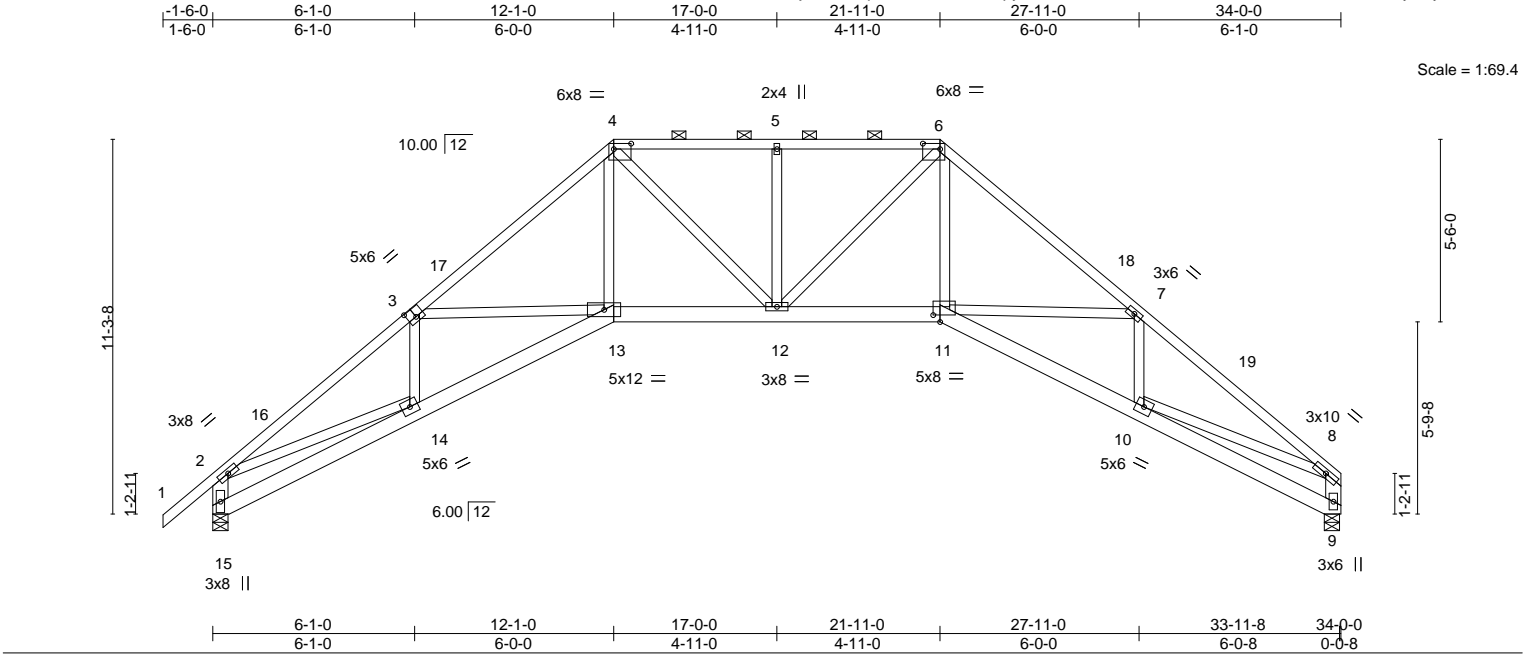


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [11:0-2-8,0-2-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	0.21 12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.34 12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.39 9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (3-11-3 max.): 4-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing.
2-15,8-9: 2x6 SP No.2	

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=446(LC 9)
Max Uplift 15=620(LC 12), 9=551(LC 13)
Max Grav 15=1337(LC 1), 9=1239(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2695/1319, 3-4=-2547/1128, 4-5=-2050/927, 5-6=-2050/927, 6-7=-2554/915,
7-8=-2713/1091, 2-15=-1348/816, 8-9=-1251/625
BOT CHORD 14-15=-565/614, 13-14=-1207/2262, 12-13=-909/1863, 11-12=-630/1867,
10-11=-816/2259
WEBS 3-13=-343/436, 4-13=-515/1104, 4-12=-361/397, 5-12=-292/269, 6-12=-363/393,
6-11=-346/1107, 7-11=-438/487, 8-10=-609/1899, 2-14=-723/1881

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 33-9-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 15, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=620, 9=551.
 - 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 O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

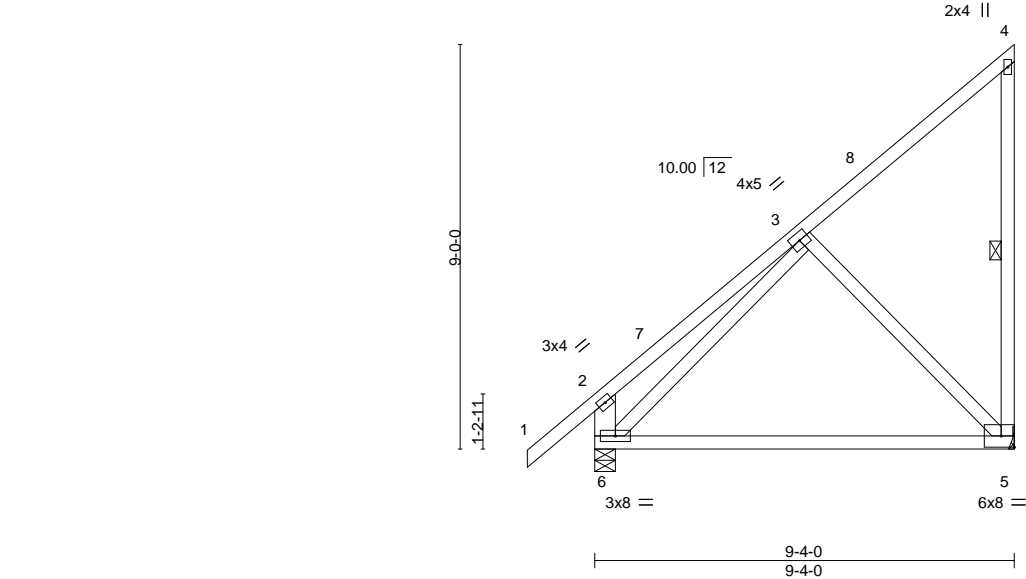
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T24	Monopitch	3	1	T35758803
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:09 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-86nW0PedCW0qsTN73nV9_9seeiZc8zHI_s1VhfyAnKS



Scale = 1:51.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.22 5-6	>480	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.45 5-6	>241	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.31	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
									Weight: 68 lb FT = 20%

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

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

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Horz 6=465(LC 12)
Max Uplift 5=-516(LC 12), 6=-35(LC 12)
Max Grav 5=660(LC 19), 6=434(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-325/189, 4-5=-392/513, 2-6=-328/456
BOT CHORD 5-6=-373/277
WEBS 3-5=-377/519, 3-6=-353/306

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 9-2-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=516.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 252 lb down and 220 lb up at 9-2-4 on top 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, 5-6=-20
Concentrated Loads (lb)
Vert: 4=-200

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

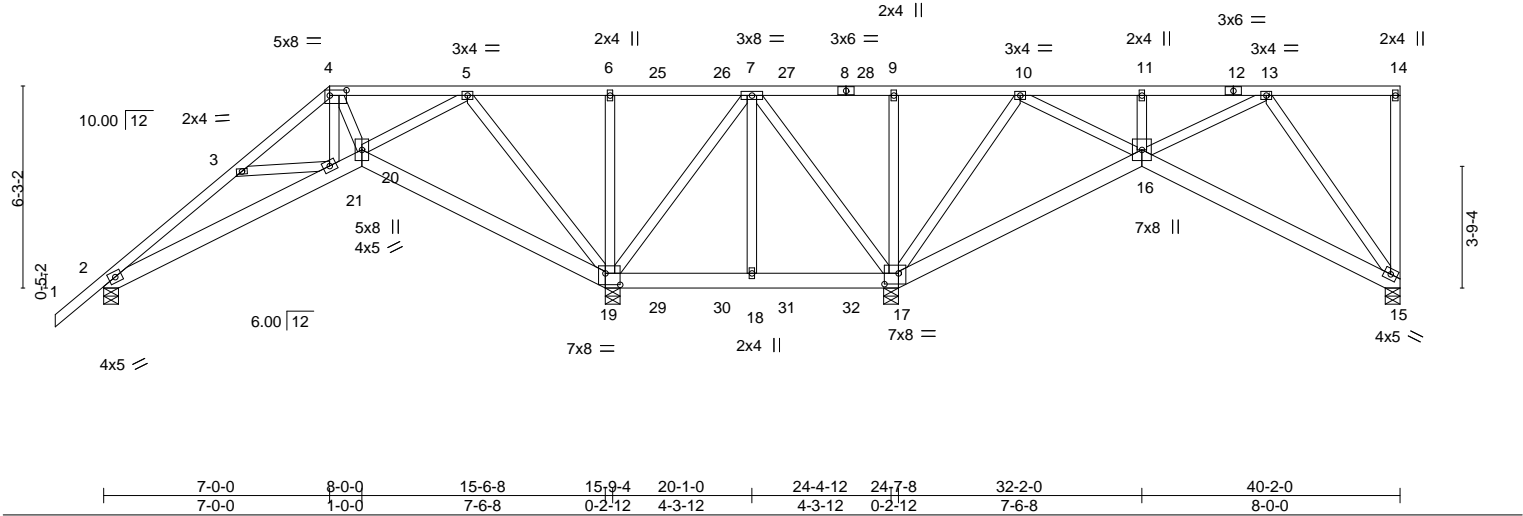
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758804
4371416	T25	Half Hip Girder	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:09 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-86nW0PedCW0qsTN73nV9_9siAihc8uNI_s1VhfyAnKS
-1-6-0 4-3-6 7-0-0 11-3-4 15-6-8 20-1-0 24-7-8 28-4-12 32-2-0 36-0-4 40-2-0
1-6-0 4-3-6 2-8-10 4-3-4 4-3-4 4-6-8 4-6-8 3-9-4 3-9-4 3-10-4 4-1-12
Scale = 1:71.4



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 0.36	Vert(LL)	-0.05 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.29	Vert(CT)	-0.09 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.62	Horz(CT)	0.05 15	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 284 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 0-5-8.
(lb) - Max Horz 2=388(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 15=213(LC 21), 2=154(LC 25), 19=1327(LC 8), 17=1130(LC 4)
Max Grav All reactions 250 lb or less at joint(s) except 15=340(LC 1), 2=417(LC 1), 19=1527(LC 1), 17=1454(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-637/471, 3-4=-327/223, 5-6=-445/613, 6-7=-438/606, 7-9=-317/566, 9-10=-323/572, 10-11=-255/200, 11-13=-255/200
BOT CHORD 2-21=-651/612, 20-21=-274/261, 19-20=-324/195, 18-19=-491/530, 17-18=-491/530, 16-17=-331/159
WEBS 3-21=-300/346, 4-21=-147/254, 5-20=-355/455, 5-19=-606/524, 6-19=-256/256, 7-19=-632/662, 7-18=-374/555, 7-17=-606/574, 10-17=-571/409, 10-16=-297/578, 13-15=-320/279

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 15, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 15, 154 lb uplift at joint 2, 1327 lb uplift at joint 19 and 1130 lb uplift at joint 17.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 95 lb up at 17-0-12, 110 lb down and 95 lb up at 19-0-12, and 110 lb down and 95 lb up at 21-0-12, and 110 lb down and 90 lb up at 23-0-12 on top chord, and 181 lb down and 166 lb up at 17-0-12, 181 lb down and 166 lb up at 19-0-12, and 181 lb down and 166 lb up at 21-0-12, and 181 lb down and 166 lb up at 23-0-12 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).

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758804
4371416	T25	Half Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-14=-54, 20-22=-20, 19-20=-20, 17-19=-20, 16-17=-20, 15-16=-20
Concentrated Loads (lb)
Vert: 8=-19(F) 25=-19(F) 26=-19(F) 27=-19(F) 29=-155(F) 30=-155(F) 31=-155(F) 32=-155(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758805
4371416	T26	Half Hip	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:10 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-clLvDlFzq8hUdyJcV0OWMPo662TtJ9SDWm2E5yAnKR



Scale = 1:71.4

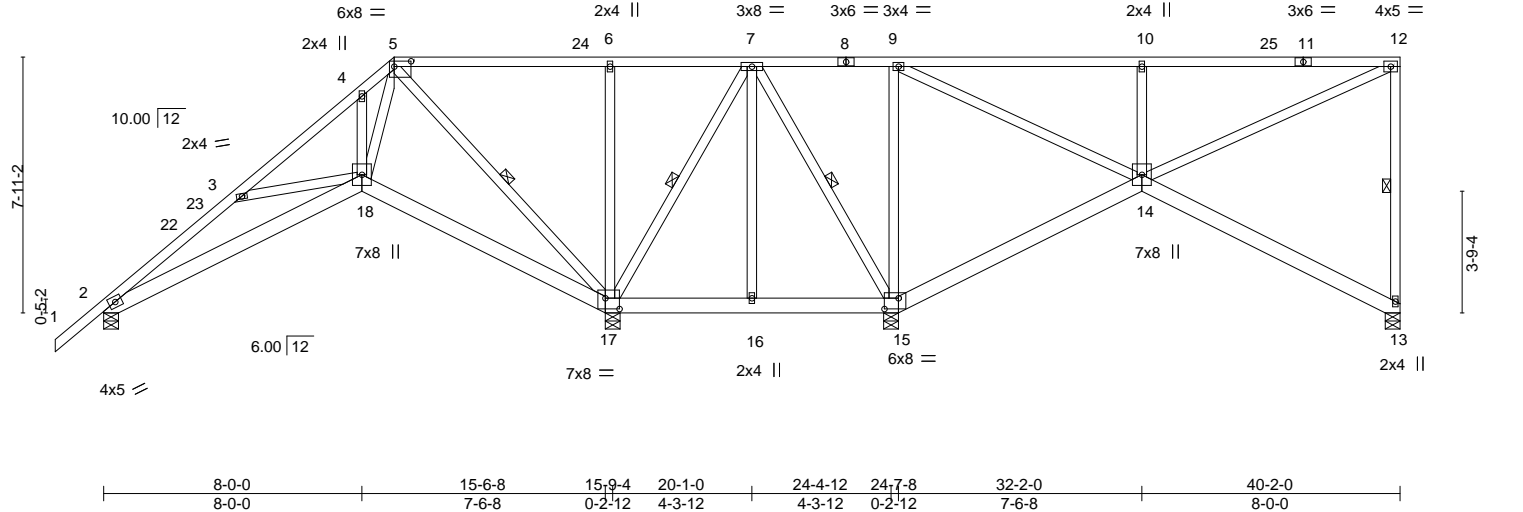


Plate Offsets (X,Y)--		[5:0-6-4,0-2-0], [15:0-5-4,0-4-0], [17:0-5-4,0-4-0]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.05 13-14	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.09 13-14	>999	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05 13	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
						Weight: 297 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 end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-13, 5-17, 7-17, 7-15

REACTIONS.

All bearings 0-5-8.
(lb) - Max Horz 2=481(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 13=212(LC 8), 17=1028(LC 12), 15=771(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 13=346(LC 26), 2=391(LC 1), 17=1214(LC 1), 15=1211(LC 26)

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

TOP CHORD 2-3=-550/343, 5-6=-427/523, 6-7=-421/516, 7-9=-266/473, 12-13=-278/234
BOT CHORD 2-18=-653/585, 16-17=-423/266, 15-16=-423/266, 14-15=-577/319
WEBS 3-18=-406/465, 5-18=-421/552, 5-17=-732/659, 6-17=-353/309, 7-17=-264/301, 7-15=-235/252, 9-15=-661/483, 9-14=-422/728, 10-14=-473/419

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-3, Zone1 2-6-3 to 9-0-0, Zone2 9-0-0 to 14-8-3, Zone1 14-8-3 to 40-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 13, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=212, 17=1028, 15=771.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758806
4371416	T27	Half Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:11 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-4VvHR4ftk8GY5mXVACXd3axyfWMgcnlBRAWcmYyAnKQ
4-0-14 8-0-0 11-0-0 15-6-8 20-1-0 24-7-8 32-2-0 40-2-0
4-0-14 3-11-2 3-0-0 4-6-8 4-6-8 4-6-8 7-6-8 8-0-0
Scale = 1:69.4

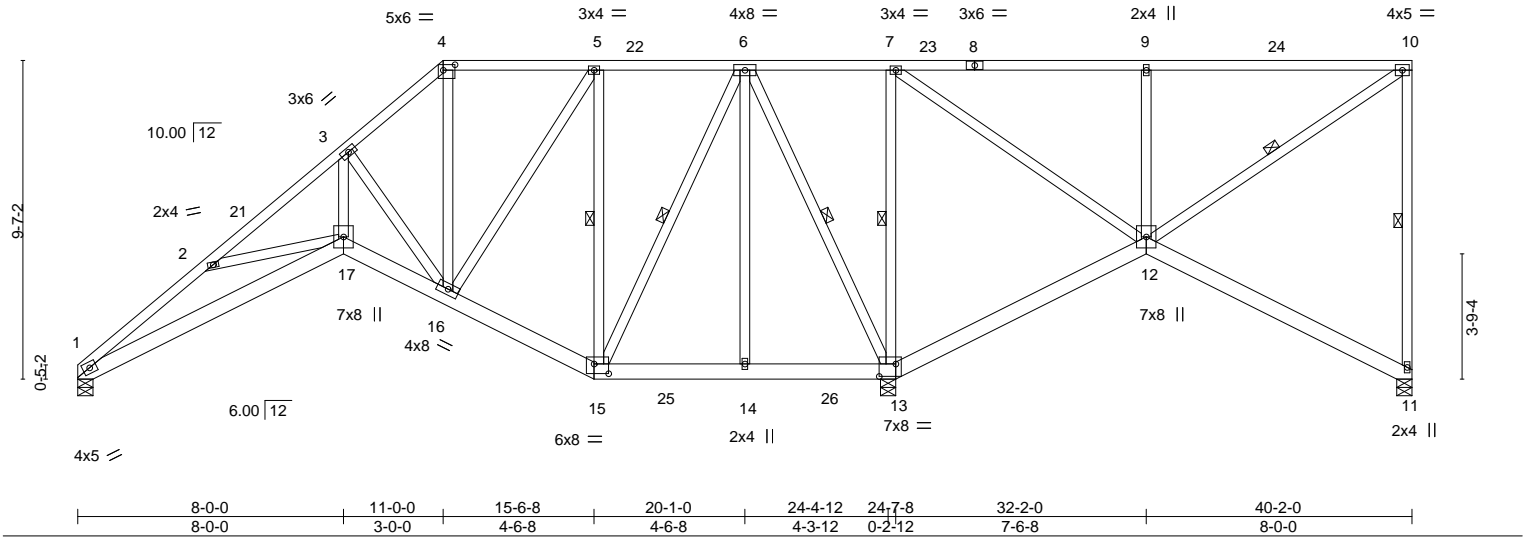


Plate Offsets (X,Y)--		[4:0-4-4,0-2-0], [13:0-6-0,0-4-8], [15:0-5-4,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.75	Vert(LL)	0.14 17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.38	Vert(CT)	-0.15 17-20	>999	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.69	Horz(CT)	-0.12 13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 324 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 10-11, 5-15, 6-15, 6-13, 7-13, 10-12

REACTIONS.	(size) 1=0-5-8, 11=0-5-8, 13=0-5-8
	Max Horz 1=514(LC 12)
	Max Uplift 1=-160(LC 12), 11=-250(LC 10), 13=-1413(LC 12)
	Max Grav 1=626(LC 19), 11=266(LC 12), 13=2599(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1634/1096, 2-3=-1203/731, 3-4=-426/251, 4-5=-293/244, 6-7=-654/954, 7-9=-459/500, 9-10=-459/500, 10-11=-243/320
BOT CHORD	1-17=-1399/1553, 16-17=-885/1075, 14-15=-416/284, 13-14=-416/284, 12-13=-1138/750
WEBS	2-17=-413/453, 3-17=-895/1249, 3-16=-1175/957, 5-16=-455/595, 5-15=-673/612, 6-15=-655/898, 6-14=0/253, 6-13=-1310/839, 7-13=-746/526, 7-12=-405/756, 9-12=-476/420, 10-12=-613/562

- 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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-5, Zone1 3-9-5 to 11-0-0, Zone2 11-0-0 to 16-8-3, Zone1 16-8-3 to 40-0-4 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, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=160, 11=250, 13=1413.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758807
4371416	T28	Half Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:12 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-YhTfeQgVVROPjw6hkw2scnU7Swi7LAXkgpF9I_yAnkP

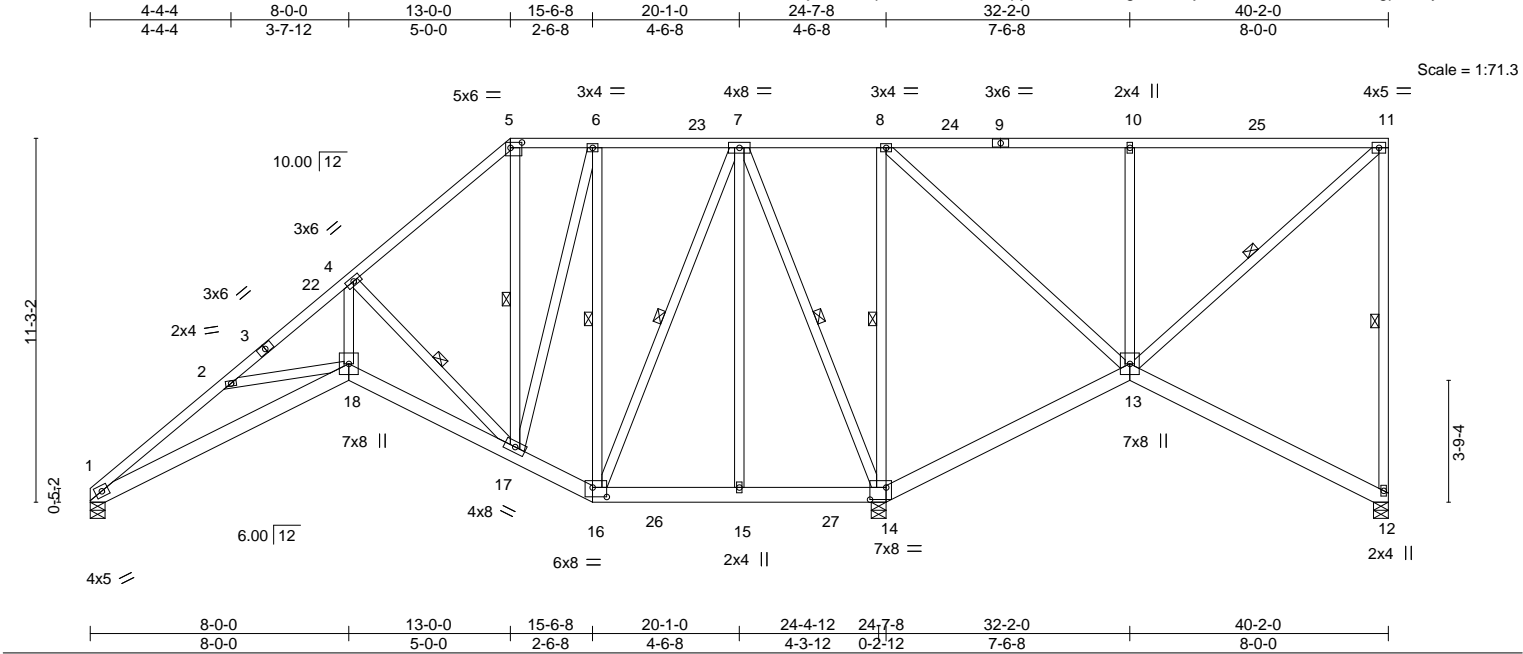


Plate Offsets (X,Y)--		[5:0-4-4,0-2-0], [14:0-6-0,0-4-8], [16:0-5-4,0-3-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.75		Vert(LL) 0.15 18		>999	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.37		Vert(CT) -0.16 18-21		>999	180		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.95		Horz(CT) -0.13 14		n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 354 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-12, 4-17, 5-17, 6-16, 7-16, 7-14, 8-14, 11-13

REACTIONS. (size) 12=0-5-8, 1=0-5-8, 14=0-5-8
Max Horz 1=607(LC 12)
Max Uplift 12=335(LC 10), 1=-85(LC 12), 14=-1568(LC 12)
Max Grav 12=321(LC 12), 1=606(LC 19), 14=2670(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1564/949, 2-4=-1197/660, 7-8=-635/905, 8-10=-413/483, 10-11=-413/483, 11-12=-300/404
BOT CHORD 1-18=-1368/1514, 17-18=-945/1131, 15-16=-433/291, 14-15=-433/291, 13-14=-1078/729
WEBS 2-18=-340/375, 4-18=-952/1329, 4-17=-1289/1070, 6-17=-505/675, 6-16=-674/636, 7-16=-711/931, 7-15=0/256, 7-14=-1307/893, 8-14=-820/560, 8-13=-401/769, 10-13=-477/420, 11-13=-656/559

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-0-15, Zone1 4-0-15 to 13-0-0, Zone2 13-0-0 to 18-8-3, Zone1 18-8-3 to 40-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 12, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=335, 14=1568.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

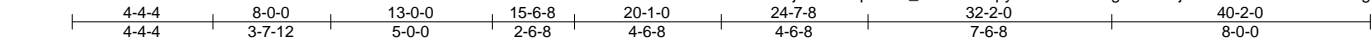
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758808
4371416	T29	Piggyback Base	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:12 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-YhTfeQgVVROPjw6hkw2scnU6zwi7LAXkgpF9I_yAnkP



Scale = 1:71.3

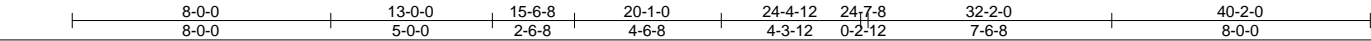
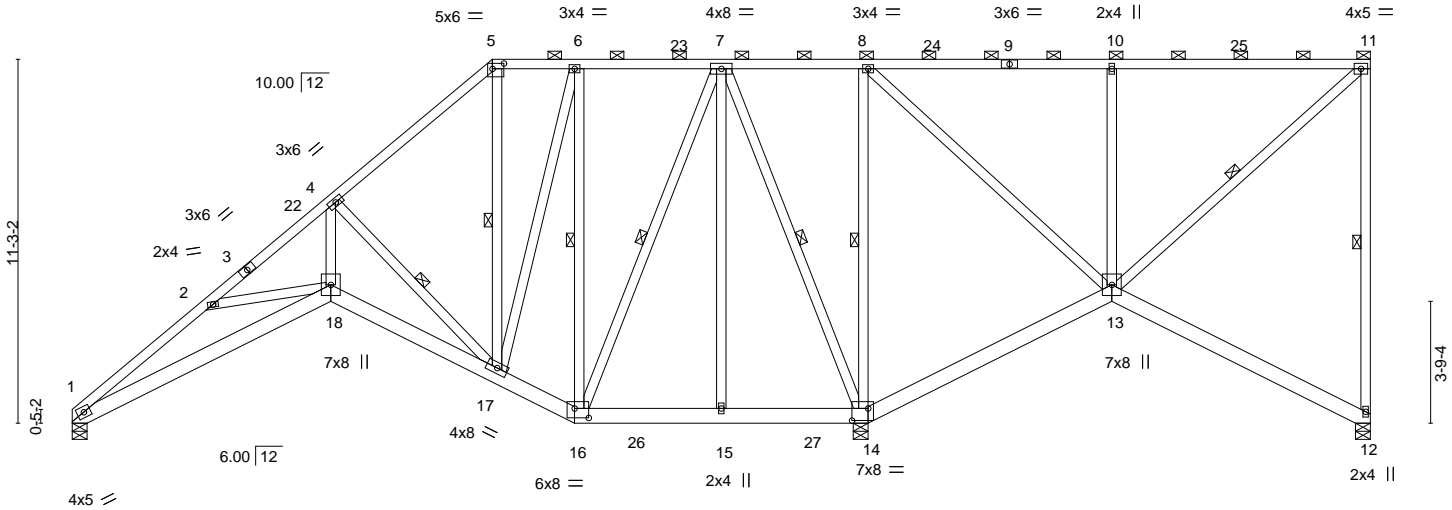


Plate Offsets (X,Y)-- [5:0-4-4,0-2-0], [14:0-6-0,0-4-8], [16:0-5-4,0-3-8]

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 0.78	Vert(LL)	0.15 18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.16 18-21	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	-0.13 14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 354 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 4-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 11-12, 4-17, 5-17, 6-16, 7-16, 7-14, 8-14, 11-13

REACTIONS. (size) 12=0-5-8, 1=0-5-8, 14=0-5-8
Max Horz 1=607(LC 12)
Max Uplift 12=335(LC 10), 1=-85(LC 12), 14=-1568(LC 12)
Max Grav 12=321(LC 12), 1=606(LC 19), 14=2670(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1564/949, 2-4=-1197/660, 7-8=-635/905, 8-10=-413/483, 10-11=-413/483, 11-12=-300/404
BOT CHORD 1-18=-1368/1514, 17-18=-945/1131, 15-16=-433/291, 14-15=-433/291, 13-14=-1078/729
WEBS 2-18=-340/375, 4-18=-952/1329, 4-17=-1289/1070, 6-17=-505/675, 6-16=-674/636, 7-16=-711/931, 7-15=0/256, 7-14=-1307/893, 8-14=-820/560, 8-13=-401/769, 10-13=-477/420, 11-13=-656/559

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-0-15, Zone1 4-0-15 to 13-0-0, Zone2 13-0-0 to 18-8-3, Zone1 18-8-3 to 40-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 12, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=335, 14=1568.
 - 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

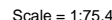
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:13 2024 Page 1

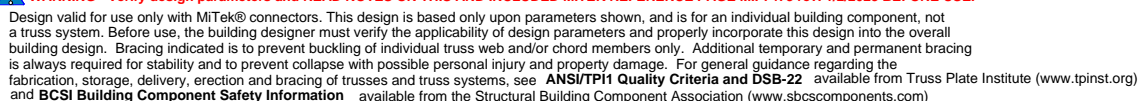
ID:j1GsU3rgen88z VCSO8tWpyLf0E-0t11rmh7GIWGL4hyldZ58?1DmKwh4d6uyT?igQvAnKO



- 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=35ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0 to 4-0-15, Zone1 4-0-15 to 13-0-0, Zone2 13-0-0 to 18-8-3 Zone1 18-8-3 to 40-0-4 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 12, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=826, 1=688.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9.2024



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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758810
4371416	T31	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:15 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-yG8nGSjNoMm_aOrGP2bZDQ6fY7dbYaDBMnUpvJyAnKM

-1-6-0

3-8-15

7-0-0

11-4-14

15-9-12

20-2-10

24-7-8

28-4-12

32-2-0

33-2-0

36-0-0

40-2-0

1-6-0

3-8-15

3-3-1

4-4-14

4-4-14

4-4-14

4-4-14

3-9-4

3-9-4

1-0-0

2-10-0

4-2-0

Scale = 1:71.0

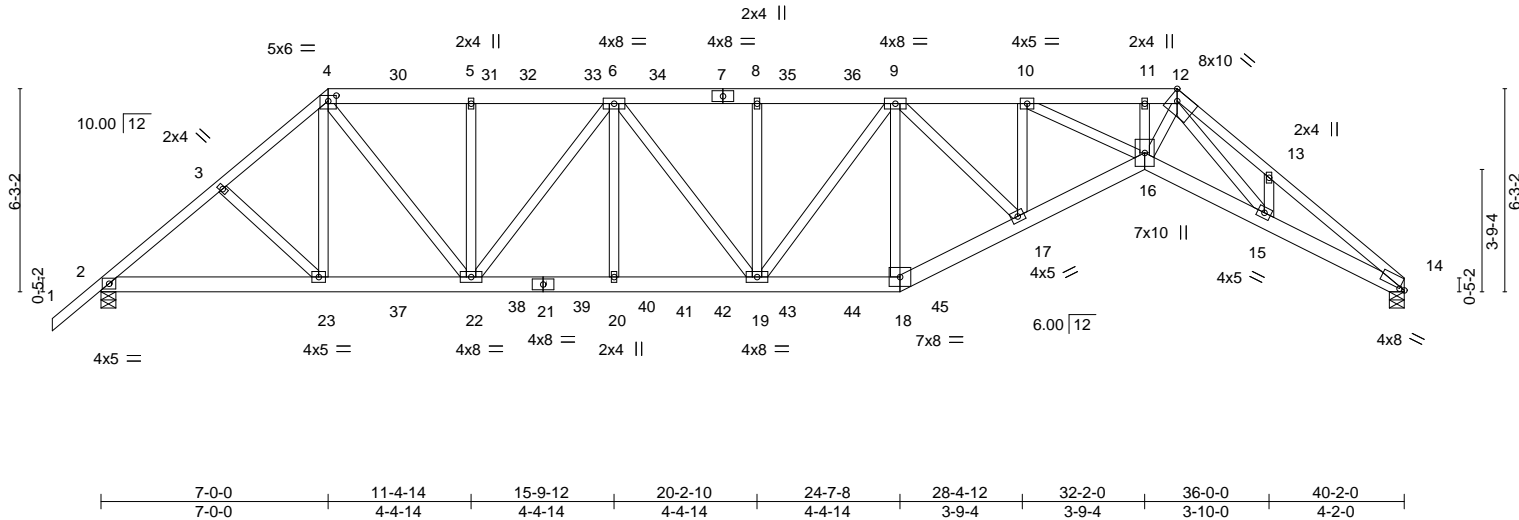


Plate Offsets (X,Y)--										[4:0-3-0,0-2-1], [12:Edge,0-3-8], [14:0-1-14,0-0-4]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.63	Vert(LL)	0.46	17	>999	240	MT20	244/190					
TCDL	7.0	Lumber DOL 1.25				BC	0.77	Vert(CT)	-0.53	16-17	>912	180							
BCLL	0.0 *	Rep Stress Incr NO				WB	0.73	Horz(CT)	0.36	14	n/a	n/a							
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS						Weight: 617 lb		FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-7,7-12: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* 14-16: 2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 6-8-10 oc bracing.
WEBS 2x4 SP No.3 *Except* 12-16: 2x4 SP No.2	

REACTIONS.	(size) 14=0-5-8, 2=0-5-8 Max Horz 2=238(LC 5) Max Uplift 14=1924(LC 9), 2=2448(LC 8) Max Grav 14=2883(LC 1), 2=3281(LC 1)
------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4776/3617, 3-4=-4642/3611, 4-5=-5059/3950, 5-6=-5058/3949, 6-8=-6456/4776, 8-9=-6456/4776, 9-10=-7402/5156, 10-11=-9950/6635, 11-12=-9929/6622, 12-13=-8310/5674, 13-14=-8452/5561
BOT CHORD	2-23=-2862/3621, 22-23=-2786/3521, 20-22=-4597/6010, 19-20=-4597/6010, 18-19=-4421/6249, 17-18=-4892/6934, 16-17=-5671/8287, 15-16=-5204/8071, 14-15=-4482/6957
WEBS	3-23=-216/263, 4-23=-587/820, 4-22=-2042/2582, 5-22=-319/366, 6-22=-1598/1145, 6-20=-269/431, 6-19=-409/763, 8-19=-252/304, 9-19=-671/699, 9-18=-1717/1414, 9-17=-961/1686, 10-17=-1753/1081, 10-16=-1674/2885, 11-16=-263/437, 12-16=-4409/6441, 12-15=-1420/1278, 13-15=-258/363

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758810
4371416	T31	Hip Girder	1	2	Job Reference (optional)	

- NOTES-**
- 9) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1924, 2=2448.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 99 lb up at 7-0-0, 110 lb down and 95 lb up at 9-0-12, 110 lb down and 95 lb up at 11-0-12, 110 lb down and 95 lb up at 13-0-12, 110 lb down and 95 lb up at 15-0-12, 110 lb down and 95 lb up at 17-0-12, 110 lb down and 95 lb up at 19-0-12, and 110 lb down and 95 lb up at 21-0-12, and 110 lb down and 95 lb up at 23-0-12 on top chord, and 508 lb down and 452 lb up at 7-0-0, 181 lb down and 166 lb up at 9-0-12, 181 lb down and 166 lb up at 11-0-12, 181 lb down and 166 lb up at 13-0-12, 181 lb down and 166 lb up at 15-0-12, 181 lb down and 166 lb up at 17-0-12, 181 lb down and 166 lb up at 19-0-12, 181 lb down and 166 lb up at 21-0-12, and 181 lb down and 166 lb up at 23-0-12, and 1278 lb down and 740 lb up at 24-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-12=-54, 12-14=-54, 18-27=-20, 16-18=-20, 16-24=-20

Concentrated Loads (lb)

Vert: 4=-19(B) 7=-19(B) 23=-423(B) 30=-19(B) 31=-19(B) 32=-19(B) 33=-19(B) 34=-19(B) 35=-19(B) 36=-19(B) 37=-155(B) 38=-155(B) 39=-155(B) 40=-155(B) 41=-155(B) 42=-155(B) 43=-155(B) 44=-155(B) 45=-1278(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758811
4371416	T32	Hip	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:15 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-yG8nGSjNoMm_aOrGP2bZDQ6fv7Z8YZZBMnUpvJyAnKM
-1-6-0 4-8-15 9-0-0 14-2-8 19-5-0 24-7-8 31-2-0 32-2-0 35-9-12 40-2-0
1-6-0 4-8-15 4-3-1 5-2-8 5-2-8 5-2-8 6-6-8 1-0-0 3-7-12 4-4-4
Scale = 1:70.9

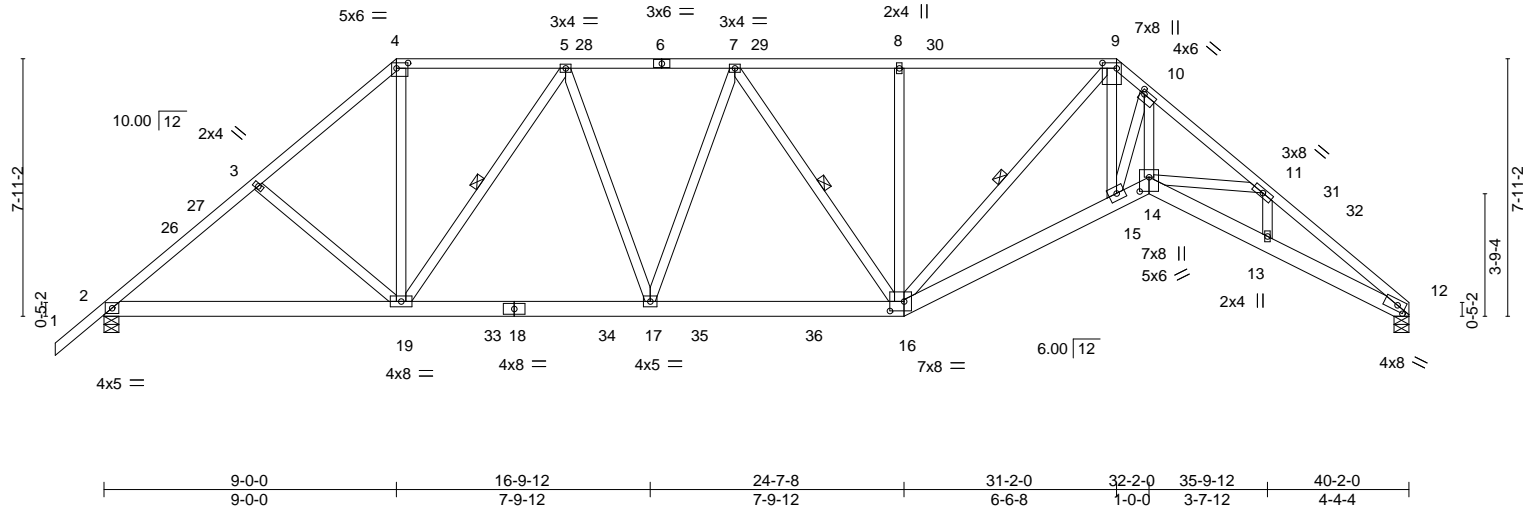


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [9:0-2-0,0-5-4], [10:0-1-4,0-1-8], [12:0-3-0,0-2-0], [14:0-5-4,0-3-8], [16:0-5-4,0-3-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.60	Vert(LL)	-0.35	14	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.99	Vert(CT)	-0.60	14	>808	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.77	Horz(CT)	0.45	12	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 284 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-2 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-19, 7-16, 9-16
10-14,9-15: 2x4 SP No.2	

REACTIONS.	(size) 12=0-5-8, 2=0-5-8
	Max Horz 2=299(LC 9)
	Max Uplift 12=693(LC 13), 2=755(LC 12)
	Max Grav 12=1630(LC 2), 2=1715(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2255/974, 3-4=-2120/946, 4-5=-1591/816, 5-7=-2186/959, 7-8=-2126/997, 8-9=-2121/991, 9-10=-3447/1405, 10-11=-4659/1712, 11-12=-4778/1898
BOT CHORD	2-19=-835/1709, 17-19=-930/2040, 16-17=-977/2213, 15-16=-1097/3143, 14-15=-1284/3813, 13-14=-1498/4071, 12-13=-1474/3984
WEBS	3-19=-286/317, 4-19=-397/1132, 5-19=-846/535, 5-17=-183/477, 8-16=-348/313, 9-16=-973/228, 10-14=-1072/3332, 11-14=-332/319, 9-15=-892/2741, 10-15=-2776/1025

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-3, Zone1 2-6-3 to 9-0-0, Zone2 9-0-0 to 14-8-3, Zone1 14-8-3 to 31-2-0, Zone2 31-2-0 to 36-10-3, Zone1 36-10-3 to 40-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - The Fabrication Tolerance at joint 9 = 16%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=693, 2=755.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758812
4371416	T33	Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

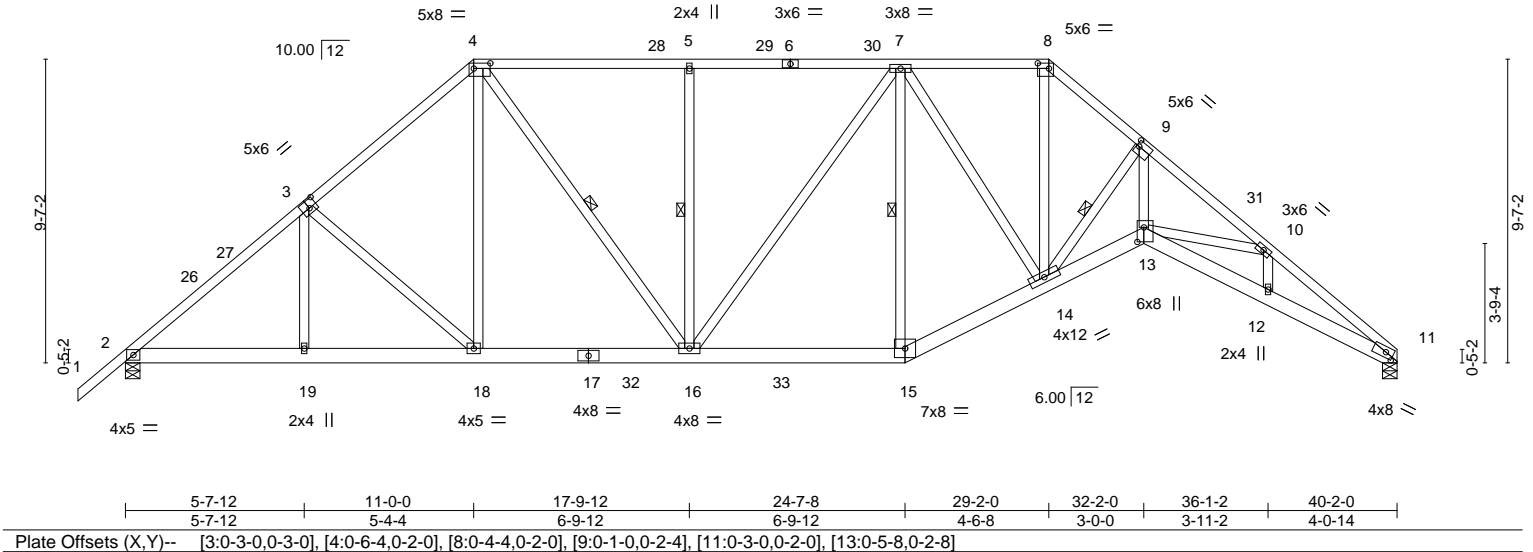
8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:16 2024 Page 1

ID:j1GsU3rqn88z_VCSO8tWpyLf0E-QSiAUoj0ZgurCYQTzI7omdeqfXwxH?ikbRDNrlyAnKL

Job Reference (optional)

-1-6-0	5-7-12	11-0-0	17-9-12	24-7-8	29-2-0	32-2-0	36-1-2	40-2-0
1-6-0	5-7-12	5-4-4	6-9-12	6-9-12	4-6-8	3-0-0	3-11-2	4-0-14

Scale = 1:72.8



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)	-0.33 13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.56 13	>863	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.42 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 301 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-16, 5-16, 7-15, 9-14
9-13: 2x4 SP No.2	

REACTIONS.	(size) 11=0-5-8, 2=0-5-8
	Max Horz 2=359(LC 11)
	Max Uplift 11=684(LC 13), 2=746(LC 12)
	Max Grav 11=1638(LC 2), 2=1719(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2327/946, 3-4=-1994/915, 4-5=-1839/878, 5-7=-1839/878, 7-8=-1926/903, 8-9=-2512/1094, 9-10=-4762/1704, 10-11=-4760/1863
BOT CHORD	2-19=-802/1736, 18-19=-802/1733, 16-18=-640/1473, 15-16=-658/1753, 14-15=-737/1989, 13-14=-1138/4049, 12-13=-1483/4072, 11-12=-1448/3959
WEBS	3-18=-495/388, 4-18=-219/578, 4-16=-432/674, 5-16=-404/359, 7-15=-681/358, 7-14=-41/366, 8-14=-552/1443, 9-14=-3002/1116, 9-13=-1119/3719, 10-13=-298/293

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-3, Zone1 2-6-3 to 11-0-0, Zone2 11-0-0 to 16-8-3, Zone1 16-8-3 to 29-2-0, Zone2 29-2-0 to 34-10-3, Zone1 34-10-3 to 40-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=684, 2=746.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

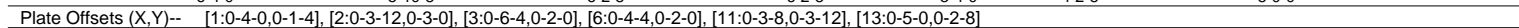
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:17 2024 Page 1

ID:i1GslJ3rgen88z VC:SO8tWpyl f0E-vfGYh8keK 0ipj fXTe1.lrbwmxME0BnTq5zwzByApKK



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758813
4371416	T34	Roof Special	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 6-7=-54, 7-9=-54, 1-13=-20, 11-13=-20, 10-11=-20
Concentrated Loads (lb)
Vert: 26=-500(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758814
4371416	T35	Piggyback Base	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:18 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-NrqwvUIG4H9YRrZr4A9Gr2k7xLnPltEd2IiTWeyAnKJ

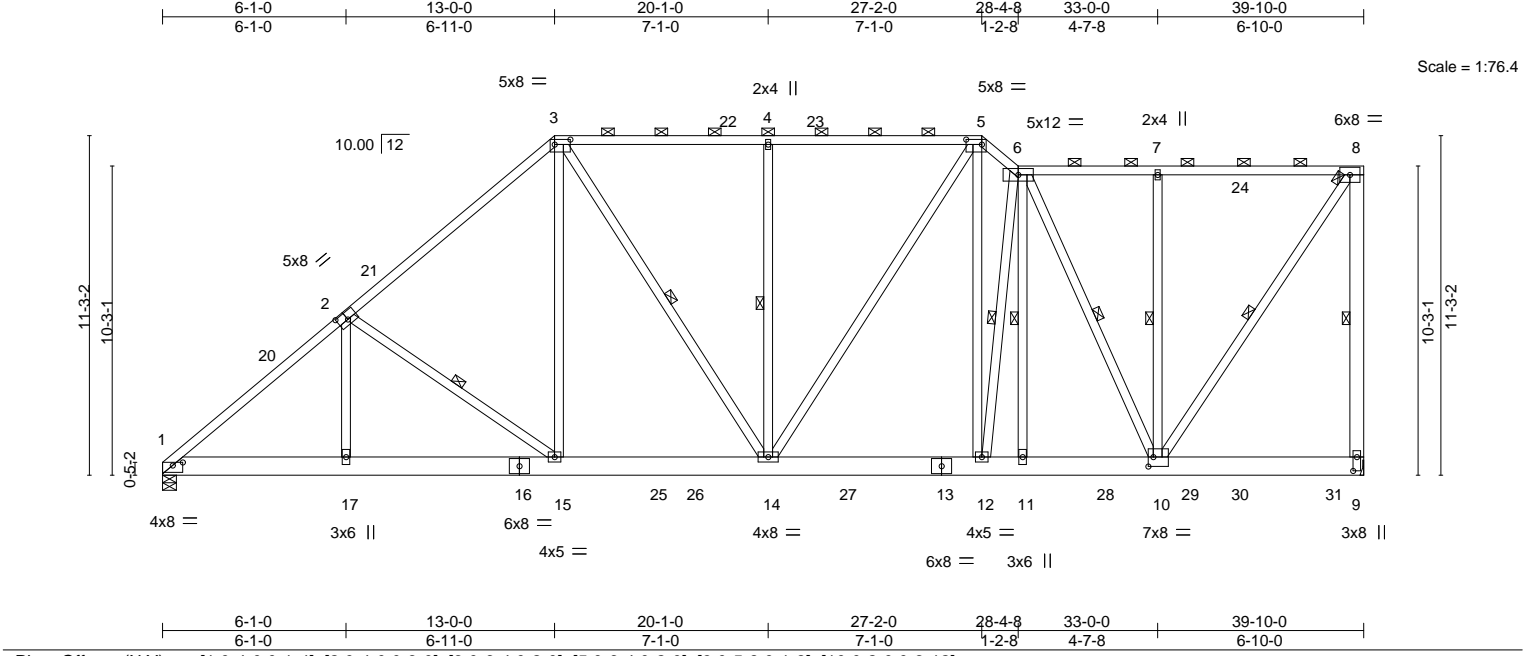


Plate Offsets (X,Y)--		[1:0-4-0,0-1-4], [2:0-4-0,0-3-0], [3:0-6-4,0-2-0], [5:0-6-4,0-2-0], [9:0-5-8,0-1-8], [10:0-2-0,0-3-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.81		Vert(LL) 0.16 14-15 >999 240				MT20 244/190	
TCDL 7.0		Lumber DOL 1.25		BC 0.25		Vert(CT) -0.23 14-15 >999 180					
BCLL 0.0 **		Rep Stress Incr NO		WB 0.97		Horz(CT) 0.04 9 n/a n/a					
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 387 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-3: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-0 max.): 3-5, 6-8.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 8-9: 2x6 SP No.2, 3-14,5-14,8-10: 2x4 SP No.2	WEBS 1 Row at midpt 8-9, 2-15, 3-14, 4-14, 6-12, 6-11, 6-10, 7-10, 8-10

REACTIONS. (size) 9=Mechanical, 1=0-5-8
Max Horz 1=575(LC 12)
Max Uplift 9=1412(LC 9), 1=789(LC 12)
Max Grav 9=2717(LC 2), 1=2045(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2947/1214, 2-3=-2559/1182, 3-4=-2197/1129, 4-5=-2197/1129, 5-6=-2473/1207, 6-7=-1536/794, 7-8=-1536/794, 8-9=-2387/1301
BOT CHORD 1-17=-1301/2325, 15-17=-1301/2326, 14-15=-992/1891, 12-14=-967/1939, 11-12=-1005/2003, 10-11=-1004/2002
WEBS 2-15=-569/470, 3-15=-408/973, 3-14=-428/640, 4-14=-435/392, 5-14=-283/543, 5-12=-439/1011, 6-12=-600/398, 6-10=-1092/520, 7-10=-366/320, 8-10=-1398/2716

- 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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-11-13, Zone1 3-11-13 to 13-0-0, Zone2 13-0-0 to 18-7-10, Zone1 18-7-10 to 27-2-0, Zone3 27-2-0 to 28-4-8, Zone1 28-4-8 to 39-7-4 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, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1412, 1=789.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 534 lb down and 280 lb up at 16-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) 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

Continued on page 2

December 9,2024

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE.No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758814
4371416	T35	Piggyback Base	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-6=-54, 6-8=-54, 1-11=-20, 10-11=-120(F=-100), 10-29=-220(F=-200), 29-31=-120(F=-100), 9-31=-20
Concentrated Loads (lb)
Vert: 25=-500(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758815
4371416	T36	Piggyback Base	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:18 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-NrqwvUIG4H9YRrZr4A9Gr2k4?LnYuDd2IiTWeyAnKJ

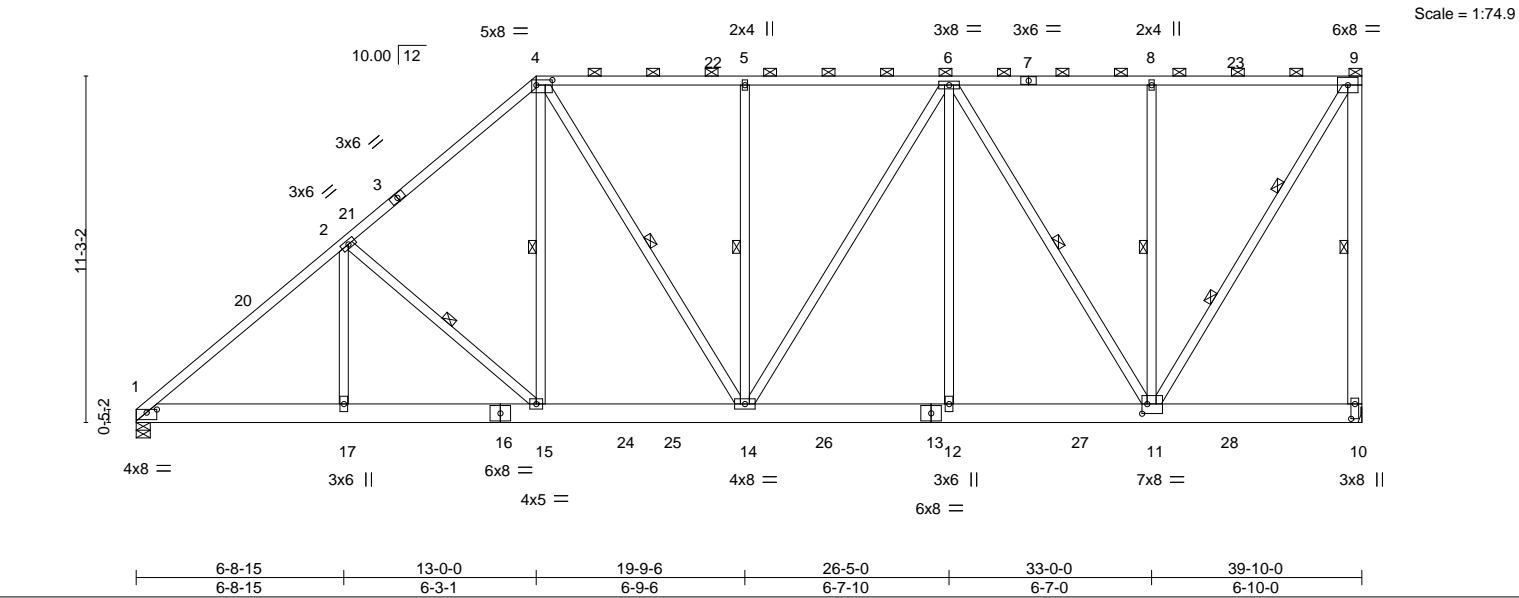


Plate Offsets (X,Y)--		[1:0-4-0,0-1-4], [4:0-6-4,0-2-0], [10:0-5-12,0-1-8], [11:0-2-0,0-3-12]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	1.00	Vert(LL)	0.17	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.24	Vert(CT)	-0.24	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr NO		WB	0.90	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 366 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-3-4 max.): 4-9.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 9-4-8 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 9-10, 2-15, 4-15, 4-14, 5-14, 6-11, 8-11
9-10: 2x6 SP No.2, 4-14,6-14,6-11,9-11: 2x4 SP No.2	2 Rows at 1/3 pts 9-11
REACTIONS. (size) 10=Mechanical, 1=0-5-8	
Max Horz 1=607(LC 12)	
Max Uplift 10=-1543(LC 9), 1=-975(LC 12)	
Max Grav 10=2854(LC 2), 1=2098(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3008/1416, 2-4=-2630/1376, 4-5=-2267/1260, 5-6=-2267/1260, 6-8=-1446/779, 8-9=-1446/779, 9-10=-2473/1396
BOT CHORD 1-17=-1521/2312, 15-17=-1521/2312, 14-15=-1178/1952, 12-14=-1116/2105, 11-12=-1116/2105
WEBS 2-17=0/258, 2-15=-569/463, 4-15=-463/1027, 4-14=-480/671, 5-14=-394/353, 6-14=-327/330, 6-12=-120/578, 6-11=-1267/727, 8-11=-380/345, 9-11=-1473/2744

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-11-13, Zone1 3-11-13 to 13-0-0, Zone2 13-0-0 to 18-7-10, Zone1 18-7-10 to 39-7-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1543, 1=975.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 534 lb down and 280 lb up at 15-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758815
4371416	T36	Piggyback Base	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-9=-54, 1-12=-20, 10-12=-120(F=-100)
Concentrated Loads (lb)
Vert: 24=-500(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758816
4371416	T37	Roof Special Girder	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:19 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-r1OI6qmurbHP3?82eugVOGGLwk3IUOfmHPS124yAnKI

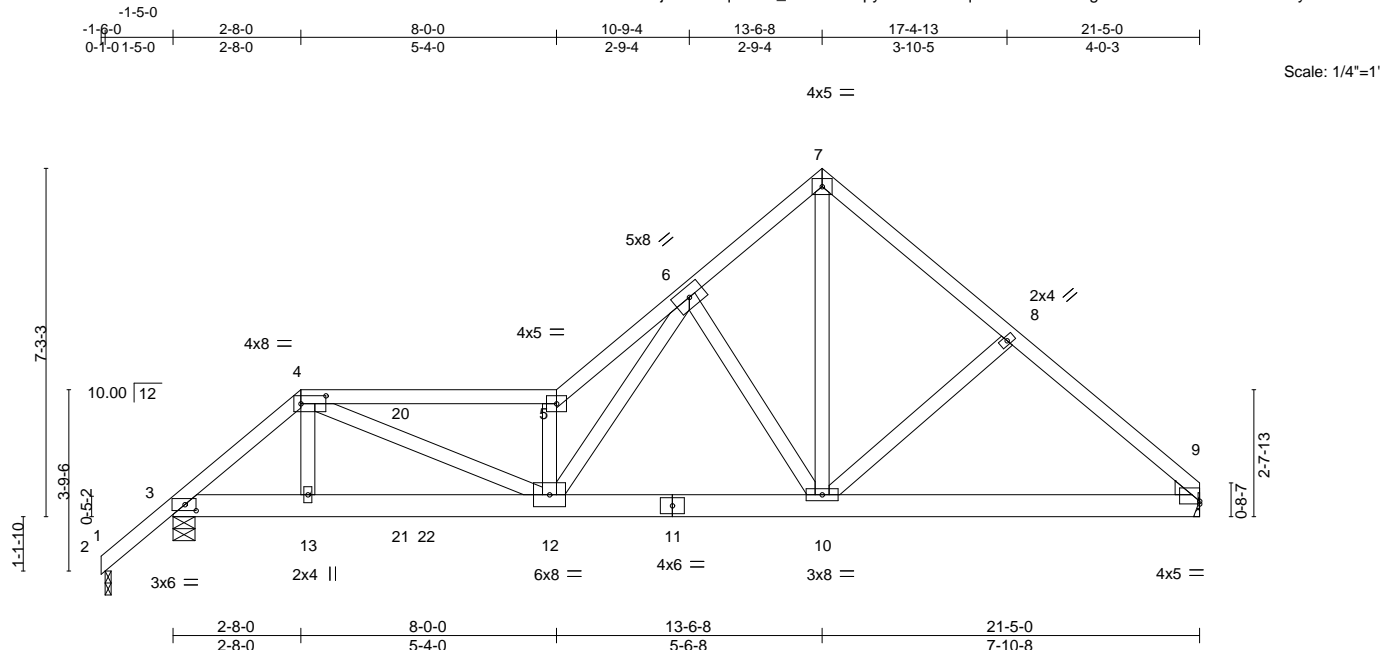


Plate Offsets (X,Y)-- [3:0-2-13,0-1-8], [4:0-6-4,0-2-0], [9:0-0-0,0-0-11]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.17 12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.21 12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.02 9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 138 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-10-7 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (size) 9=Mechanical, 3=0-5-8, 2=0-1-8
Max Horz 3=272(LC 5), 2=37(LC 37)
Max Uplift 9=380(LC 9), 3=711(LC 8), 2=50(LC 36)
Max Grav 9=845(LC 1), 3=1193(LC 1), 2=40(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1480/900, 4-5=-2009/1134, 5-6=-2796/1649, 6-7=-903/533, 7-8=-925/539, 8-9=-1079/537
BOT CHORD 3-13=-789/1163, 12-13=-799/1186, 10-12=-565/1052, 9-10=-348/777
WEBS 4-13=-165/372, 4-12=-417/962, 5-12=-1947/1234, 6-12=-1286/2001, 6-10=-762/608, 7-10=-567/920, 8-10=-228/286

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=380, 3=711.
 - Non Standard bearing condition. Review required.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 77 lb up at 2-8-0, and 105 lb down and 74 lb up at 4-8-13 on top chord, and 171 lb down and 53 lb up at 2-8-0, and 31 lb down at 4-8-13, and 199 lb down and 189 lb up at 5-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758816
4371416	T37	Roof Special Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-14, 2-18=-80, 4-18=-54, 4-5=-54, 5-7=-54, 7-9=-54, 14-17=-20
Concentrated Loads (lb)
Vert: 4=-2(B) 13=-79(B) 20=-2(B) 21=-2(B) 22=-199(B)

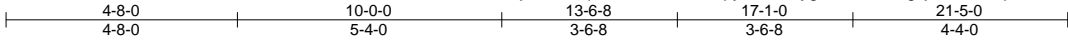
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758817
4371416	T38	Roof Special	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:20 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JEygJ9mWcvPGg9jECbBkwTpaU8NHDutwW3BaaWyAnKH



4x5 = Scale = 1:46.5

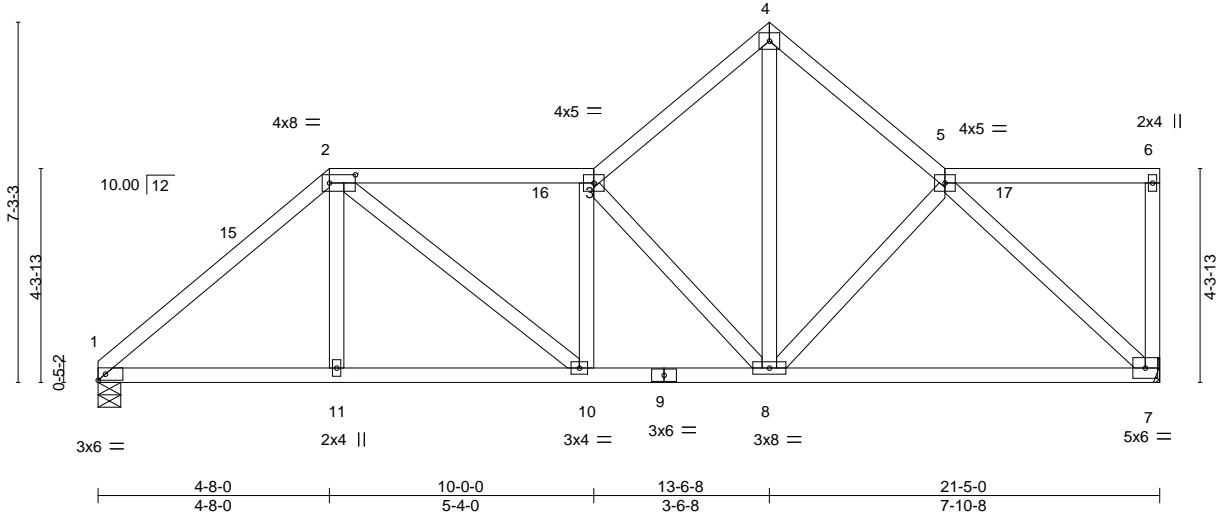


Plate Offsets (X,Y)--	[2:0-6-4,0-2-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.11 7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.22 7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 128 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 5-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.

REACTIONS.

(size) 1=0-5-8, 7=Mechanical
Max Horz 1=290(LC 12)
Max Uplift 1=-367(LC 12), 7=-331(LC 13)
Max Grav 1=787(LC 1), 7=787(LC 1)

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

TOP CHORD 1-2=-1045/510, 2-3=-1045/591, 3-4=-811/471, 4-5=-808/445
BOT CHORD 1-11=-521/743, 10-11=-521/748, 8-10=-592/1051, 7-8=-357/648
WEBS 2-10=-151/376, 3-8=-717/482, 4-8=-413/762, 5-7=-871/489

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 4-8-0, Zone2 4-8-0 to 8-10-15, Zone1 8-10-15 to 13-6-8, Zone3 13-6-8 to 17-1-0, Zone1 17-1-0 to 21-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=367, 7=331.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758818
4371416	T39	Half Hip	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:20 2024 Page 1

ID:j1GsU3rqn88z_VCSO8tWpyLf0E-JEygJ9mWcvPGg9jECbBkwTpWX8NmDqFwW3BaaVWyAnKH

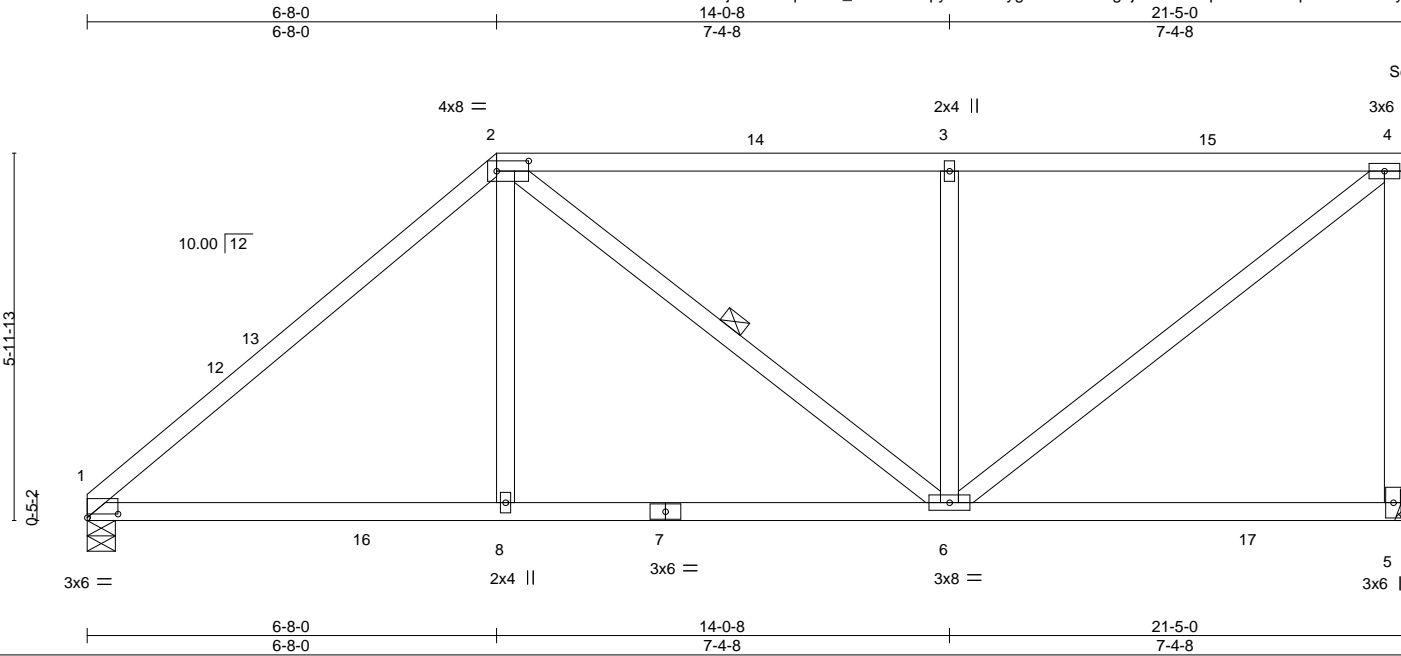


Plate Offsets (X,Y)--		[1:0-6-0,0-0-11], [2:0-6-4,0-2-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.61	Vert(LL) 0.15 8-11 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.57	Vert(CT) -0.17 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.02 5 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 117 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-2 oc bracing.
WEBS 1 Row at midpt 2-6

REACTIONS.

(size) 1=0-5-8, 5=Mechanical
Max Horz 1=313(LC 12)
Max Uplift 1=-368(LC 12), 5=-439(LC 9)
Max Grav 1=892(LC 2), 5=898(LC 2)

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

TOP CHORD 1-2=-1103/431, 2-3=-814/408, 3-4=-814/408, 4-5=-757/454
BOT CHORD 1-8=-464/780, 6-8=-465/789
WEBS 2-8=-15/383, 3-6=-451/415, 4-6=-506/1008

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 21-3-4 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=368, 5=439.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758819
4371416	T40	Half Hip	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:21 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-nQW3XVn8NCX7IJIQmJizThMjcYiOyNI3ljx86zyAnKG

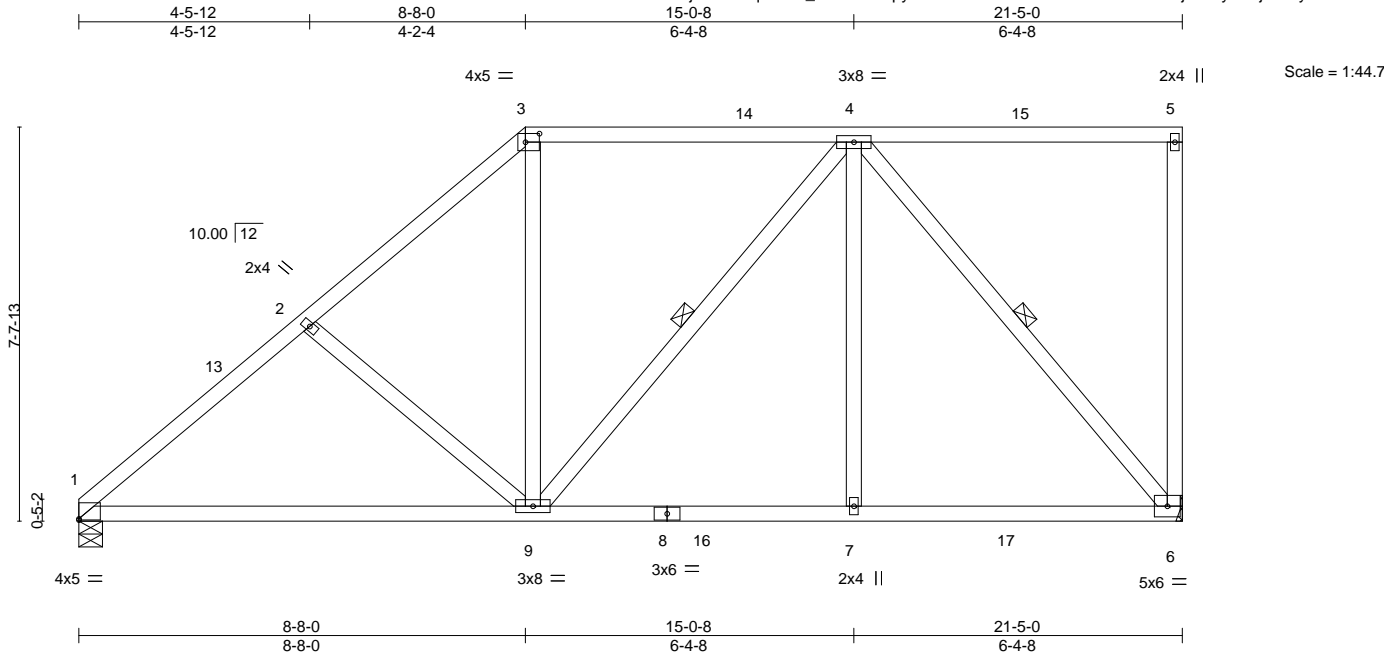


Plate Offsets (X,Y)-- [1:0-0-0,0-0-5], [3:0-3-4,0-2-0]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.13 9-12 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.26 9-12 >975	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02 6 n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 135 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 5-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-9 oc bracing.
WEBS 1 Row at midpt 4-9, 4-6

REACTIONS.

(size) 1=0-5-8, 6=Mechanical
Max Horz 1=406(LC 12)
Max Uplift 1=-347(LC 12), 6=-438(LC 9)
Max Grav 1=866(LC 2), 6=903(LC 2)

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

TOP CHORD 1-2=-1052/455, 2-3=-914/423, 3-4=-652/409
BOT CHORD 1-9=-650/827, 7-9=-296/592, 6-7=-296/592
WEBS 2-9=-309/315, 3-9=-46/344, 4-7=0/352, 4-6=-900/457

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-8-0, Zone2 8-8-0 to 12-10-15, Zone1 12-10-15 to 21-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=347, 6=438.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758820
4371416	T41	Half Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:21 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-nQW3XVn8NCX7IJIQmJizThMk8YmGyEz3ljx86zyAnKG

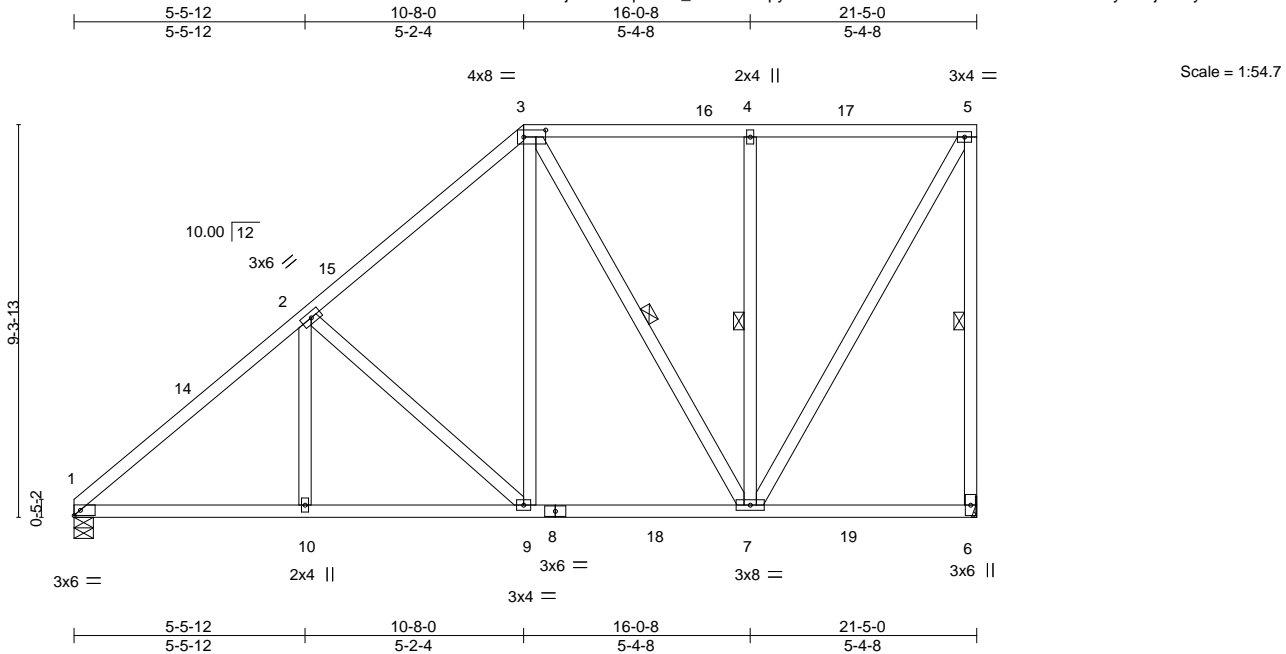


Plate Offsets (X,Y)-- [3:0-6-4,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.06	10-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.07	10-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014		Matrix-MS						Weight: 154 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-12 oc bracing.
WEBS 1 Row at midpt 5-6, 3-7, 4-7

REACTIONS.

(size) 1=0-5-8, 6=Mechanical
Max Horz 1=499(LC 12)
Max Uplift 1=-318(LC 12), 6=-437(LC 12)
Max Grav 1=875(LC 19), 6=907(LC 2)

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

TOP CHORD 1-2=-1110/392, 2-3=-775/358, 3-4=-414/236, 4-5=-414/236, 5-6=-800/449
BOT CHORD 1-10=-670/893, 9-10=-670/893, 7-9=-373/537
WEBS 2-9=-500/398, 3-9=-223/533, 3-7=-339/269, 4-7=-338/303, 5-7=-469/815

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-8-0, Zone2 10-8-0 to 14-10-15, Zone1 14-10-15 to 21-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=318, 6=437.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

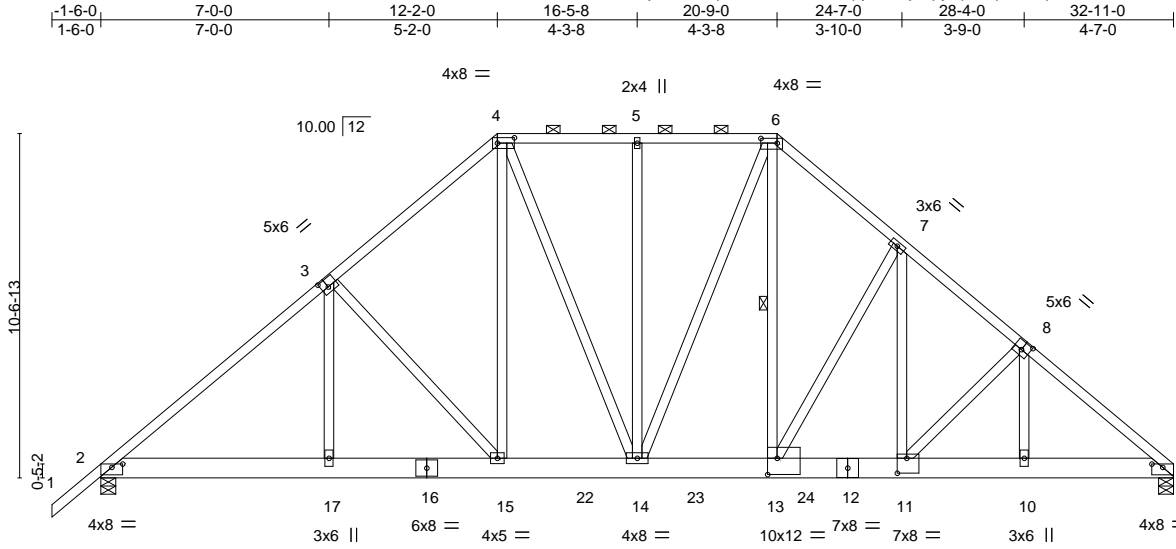
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758823
4371416	T44	Piggyback Base Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:23 2024 Page 1

ID:j1GsU3rgen88z_VCSO8tWpyLf0E-jodpyBpPvqnrXdSptkIRY6R4XMREQ9xMC1QEBryAnKE



Scale = 1:70.7

<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>									
Plate Offsets (X,Y)-- [2:0-4-0,0-1-4], [3:0-2-8,0-3-0], [4:0-6-4,0-2-0], [6:0-6-0,0-1-12], [8:0-3-0,0-3-0], [9:0-4-0,0-1-4], [11:0-3-8,0-5-8], [13:0-3-8,0-6-0]									
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	0.43	Vert(LL)	0.18 11-13 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.23 11-13 >999	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.04 9 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 582 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-13

REACTIONS.

(size) 2=0-5-8, 9=0-5-8
Max Horz 2=393(LC 28)
Max Uplift 2=1544(LC 8), 9=2463(LC 9)
Max Grav 2=2988(LC 2), 9=4532(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4282/2187, 3-4=-3927/2178, 4-5=-3710/2152, 5-6=-3710/2152, 6-7=-5627/3236, 7-8=-6777/3822, 8-9=-6808/3723
BOT CHORD 2-17=-1741/3224, 15-17=-1741/3229, 14-15=-1512/2947, 13-14=-2224/4341, 11-13=-2678/5164, 10-11=-2732/5188, 9-10=-2732/5189
WEBS 3-17=-51/327, 3-15=-599/458, 4-15=-269/565, 4-14=-1279/2025, 5-14=-251/241, 6-14=-1688/1237, 6-13=-2930/4909, 7-13=-1798/1287, 7-11=-1290/2090, 8-11=-438/372, 8-10=-198/306

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1544, 9=2463.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3766 lb down and 2115 lb up at 21-6-9, and 591 lb down and 423 lb up at 22-10-4, and 588 lb down and 361 lb up at 24-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758823
4371416	T44	Piggyback Base Girder	1	2	Job Reference (optional)	

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-9=-20
Concentrated Loads (lb)
Vert: 11=-588(B) 12=-591(B) 24=-3456(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

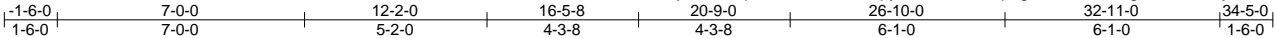
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758824
4371416	T45	HIP	3	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:24 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-B?BB9Xp1g7vi9m1?RRGg5J_B8lfu9ejVRh9ojHyAnKD



Scale = 1:65.2

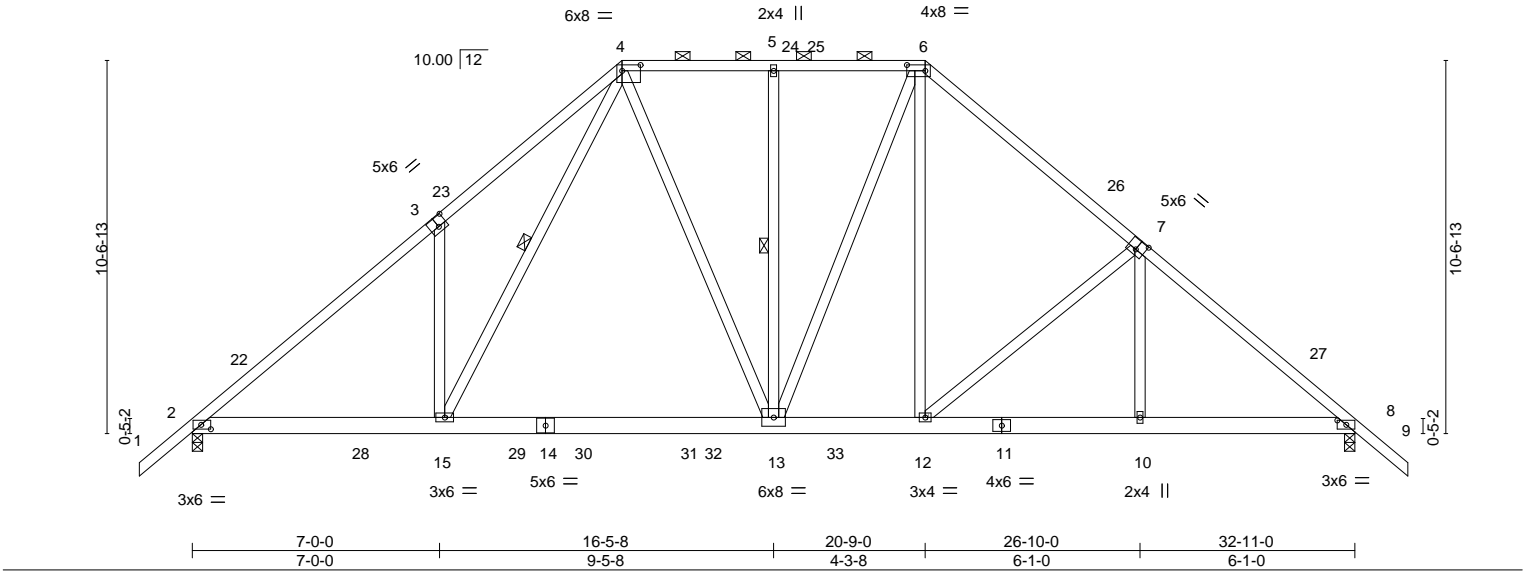


Plate Offsets (X,Y)-- [2:0-3-5,0-1-8], [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-3-0,0-3-4], [8:0-3-1,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.19 13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.39 13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05 8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 247 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except 2-0-0 oc purlins (4-8-13 max.): 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-3-6 oc bracing: 2-15.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-15, 5-13

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=408(LC 10)
Max Uplift 2=713(LC 12), 8=661(LC 13)
Max Grav 2=1818(LC 19), 8=1610(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2480/885, 3-4=-2554/1256, 4-5=-1494/707, 5-6=-1494/707, 6-7=-1741/762, 7-8=-2159/813
BOT CHORD 2-15=-714/2067, 13-15=-455/1446, 12-13=-307/1270, 10-12=-420/1603, 8-10=-419/1605
WEBS 3-15=-442/546, 4-15=-720/1352, 4-13=-271/484, 5-13=-250/235, 6-13=-340/679, 6-12=-221/364, 7-12=-593/444, 7-10=-3/298

- 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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-9-8, Zone1 1-9-8 to 12-2-0, Zone2 12-2-0 to 16-9-14, Zone1 16-9-14 to 20-9-0, Zone2 20-9-0 to 25-4-14, Zone1 25-4-14 to 34-5-0 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) 100.0lb AC unit load placed on the bottom chord, 12-6-0 from left end, supported at two points, 3-0-0 apart.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 2=713, 8=661.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-9=-54, 15-16=-20, 13-15=-70(F=-50), 13-19=-20

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758824
4371416	T45	HIP	3	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 30=-50 31=-50

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

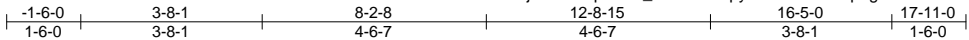
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758825
4371416	T46	Scissor	4	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:24 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-B?BB9Xp1g7vi9m1?RRGg5J_FwljK9kEVRh9ojHyAnKD



Scale = 1:46.6

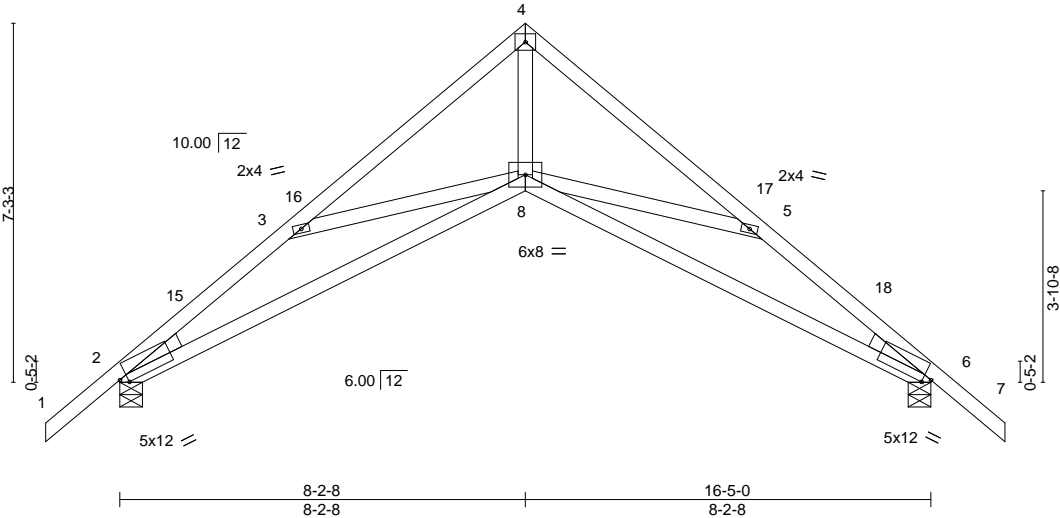


Plate Offsets (X,Y)--		[2:0-1-14,0-1-7], [6:0-1-14,0-1-7]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.39		Vert(LL)	-0.12 8-14	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.66		Vert(CT)	-0.25 8-14	>778	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.42		Horz(CT)	0.20 6	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 88 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-5 oc bracing.

REACTIONS.

(size) 2=0-5-8, 6=0-5-8
Max Horz 2=-289(LC 10)
Max Uplift 2=-314(LC 12), 6=-314(LC 13)
Max Grav 2=688(LC 1), 6=688(LC 1)

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

TOP CHORD 2-3=-1613/778, 3-4=-1195/339, 4-5=-1241/393, 5-6=-1499/679
BOT CHORD 2-8=-713/1554, 6-8=-448/1241
WEBS 4-8=-274/1243, 5-8=-456/573, 3-8=-467/546

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-2-8, Zone2 8-2-8 to 12-5-7, Zone1 12-5-7 to 17-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 6=314.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758826
4371416	T46G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:25 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-gBIZNtqfRR1ZnwcB78nvdXWQN95cuAaffLvLGkyAnKC

-1-6-0
1-6-0

4-5-11
4-5-11

8-2-8
3-8-13

11-11-5
3-8-13

16-5-0
4-5-11

17-11-0
1-6-0

4x5 ==

Scale = 1:44.9

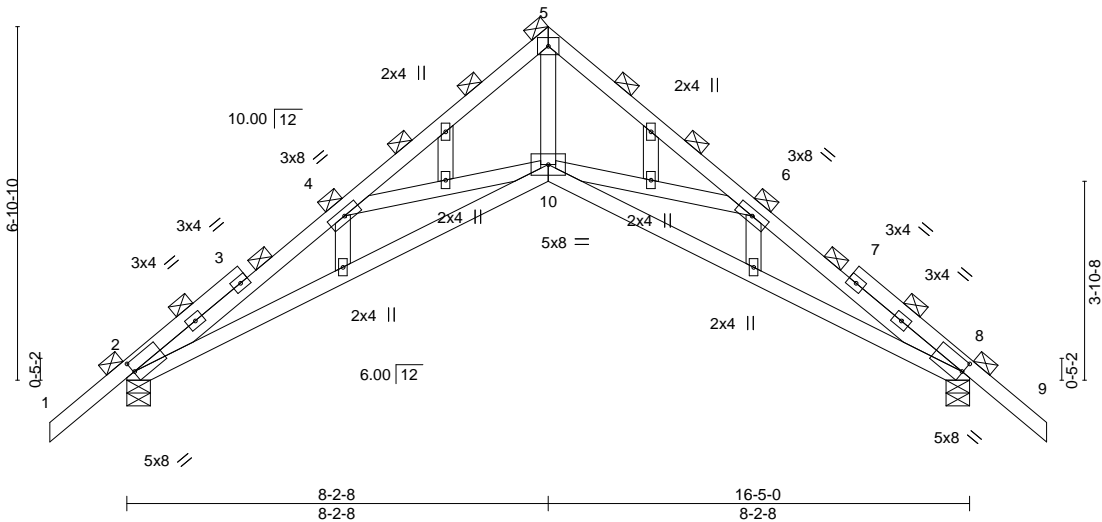


Plate Offsets (X,Y)--		[2:0-0-4,0-2-8], [8:0-0-4,0-2-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.09 10-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.21 10-22	>905	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.19 8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 95 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 2-0-0 oc purlins (4-2-3 max.).

BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.

REACTIONS. (size) 2=0-5-8, 8=0-5-8
Max Horz 2=-275(LC 10)
Max Uplift 2=-320(LC 12), 8=-320(LC 13)
Max Grav 2=684(LC 1), 8=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1766/789, 4-5=-1269/359, 5-6=-1307/403, 6-8=-1640/664
BOT CHORD 2-10=-723/1747, 8-10=-443/1437
WEBS 5-10=-332/1398, 4-10=-557/532, 6-10=-553/533

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-3-8, Zone1 1-3-8 to 8-2-8, Zone2 8-2-8 to 12-2-15, Zone1 12-2-15 to 17-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=320, 8=320.
 - 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

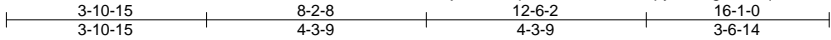
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758827
4371416	T47	Common	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:25 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-gBlZNtqfRR1ZnwcB?8nvdXWRi95NuDpffLvLGkyAnKC



4x5 = Scale = 1:45.0

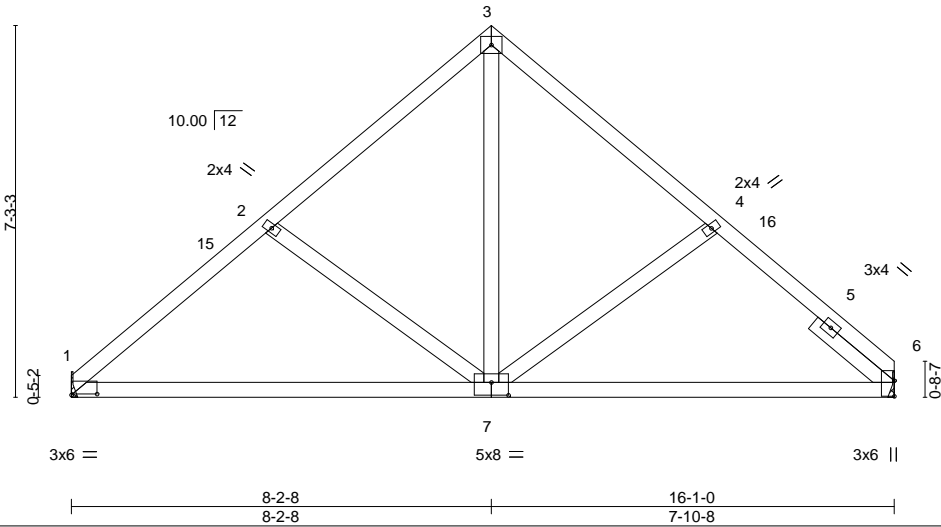


Plate Offsets (X,Y)-- [1:0-6-0,0-0-3], [6:Edge,0-0-0], [7:0-4-0,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.08	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.17	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 84 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Right 2x4 SP No.3 1-11-8		

REACTIONS. (size) 1=Mechanical, 6=Mechanical
Max Horz 1=243(LC 9)
Max Uplift 1=250(LC 12), 6=247(LC 13)
Max Grav 1=595(LC 1), 6=595(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-723/464, 2-3=-563/419, 3-4=-559/418, 4-6=-620/458
BOT CHORD 1-7=-336/635, 6-7=-252/506
WEBS 2-7=-286/314, 3-7=-298/487, 4-7=-248/290

- 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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-2-8, Zone2 8-2-8 to 12-7-9, Zone1 12-7-9 to 16-1-0 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=250, 6=247.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T48	Half Hip Girder	1	2	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:26 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-8NjyaDrHCI9QP4AOYsl8Ak3dJZWBdX5ou?evoAyAnKB

4-0-15 7-7-14 11-2-14 16-8-0
4-0-15 3-7-0 3-7-0 5-5-2

4x8 = 2x4 ||

4 13 5

3x8 // 3x6 //

10.00 12

9-9-8

0-5-2

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 20

4x8 = 3x8 || 6x8 = 8x10 = 7x8 =

4x5 =

4-0-15 7-7-14 11-2-14 16-8-0
4-0-15 3-7-0 3-7-0 5-5-2

Plate Offsets (X,Y)--		[1:0-4-0,0-1-4], [4:0-6-4,0-2-0], [6:Edge,0-5-4], [7:0-3-8,0-5-12]																			
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 0.27		Vert(LL)		0.07		9		>999		240		MT20		244/190	
TCDL 7.0		Lumber DOL		1.25		BC 0.19		Vert(CT)		-0.10		9		>999		180					
BCLL 0.0 *		Rep Stress Incr		NO		WB 0.78		Horz(CT)		0.01		6		n/a		n/a					
BCDL 10.0		Code FBC2023/TPI2014				Matrix-MS												Weight: 306 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=525(LC 8)
Max Uplift 1=-1783(LC 8), 6=-2095(LC 8)
Max Grav 1=3749(LC 1), 6=3801(LC 2)

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

TOP CHORD 1-2=-4728/2260, 2-3=-3479/1682, 3-4=-2155/1104

BOT CHORD 1-10=-2151/3610, 9-10=-2151/3610, 7-9=-1538/2632, 6-7=-951/1677

WEBS 2-10=-767/1675, 2-9=-1461/838, 3-9=-1242/2415, 3-7=-2004/1220, 4-7=-2182/4103, 4-6=-3388/1921

- NOTES-
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1783, 6=2095.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 578 lb down and 264 lb up at 0-8-12, 825 lb down and 400 lb up at 2-8-12, 767 lb down and 351 lb up at 4-8-12, 863 lb down and 459 lb up at 6-8-12, 868 lb down and 458 lb up at 8-8-12, 870 lb down and 457 lb up at 10-8-12, and 848 lb down and 494 lb up at 12-8-12, and 855 lb down and 485 lb up at 14-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

LOAD CASE(S) Standard
Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758828
4371416	T48	Half Hip Girder	1	2	Job Reference (optional)	

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 1-6=-20

Concentrated Loads (lb)

Vert: 8=-767(F) 12=-578(F) 14=-825(F) 15=-767(F) 16=-767(F) 17=-767(F) 18=-767(F) 20=-764(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758829
4371416	T49	Scissor	3	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:27 2024 Page 1

ID:j1GsU3rqn88z_VCSO8tWpyLf0E-catKnZsvz2HH0Ela6ZpNjycnVzljM4_y7fOSKcyAnKA

-1-6-0
1-6-0

4-3-6
4-3-6

8-0-0
3-8-10

11-8-10
3-8-10

16-0-0
4-3-6

17-6-0
1-6-0

4x5 =

Scale = 1:45.6

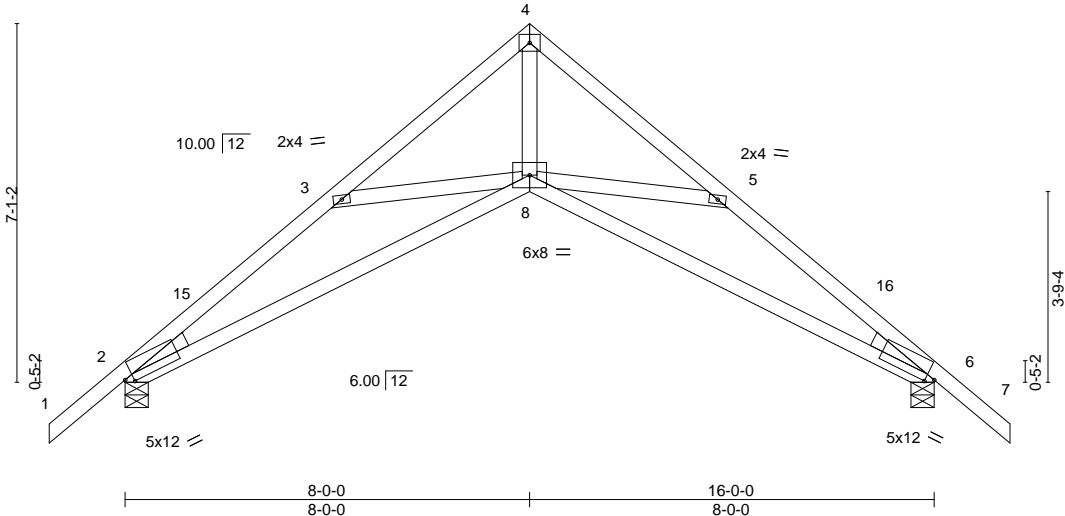


Plate Offsets (X,Y)--		[2:0-2-0,0-1-4], [6:0-2-0,0-1-4]											
LOADING (psf)		SPACING-	2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
	TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.11	8-14	>999	240	MT20	244/190
	TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.23	8-14	>827	180		
	BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.18	6	n/a	n/a		
	BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 83 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-0 oc bracing.

REACTIONS.

(size) 2=0-5-8, 6=0-5-8
Max Horz 2=283(LC 11)
Max Uplift 2=-308(LC 12), 6=-308(LC 13)
Max Grav 2=673(LC 1), 6=673(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1513/679, 3-4=-1149/341, 4-5=-1185/384, 5-6=-1421/591
BOT CHORD 2-8=-610/1454, 6-8=-353/1168
WEBS 4-8=-310/1234, 5-8=-382/472, 3-8=-390/458

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-0-0, Zone2 8-0-0 to 11-11-12, Zone1 11-11-12 to 17-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=308, 6=308.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

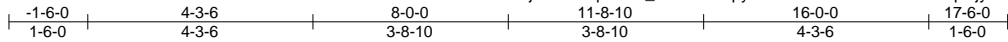
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758830
4371416	T49G	GABLE	4	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:27 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-catKnZsvz2HH0El6ZpNijycmmznUM3Ly7fOSKcyAnKA



4x5 =

Scale = 1:43.8

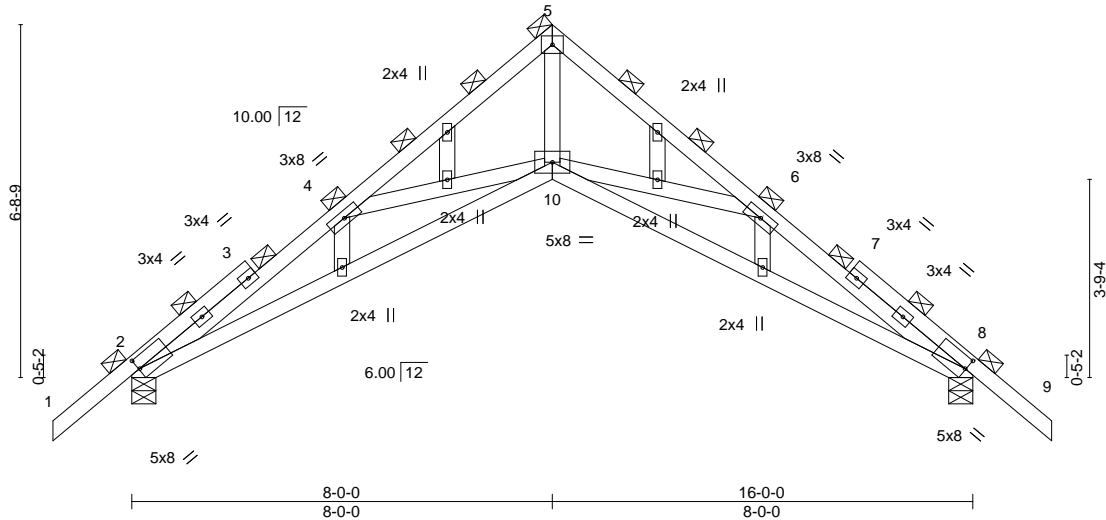


Plate Offsets (X,Y)-- [2:0-0-4,0-2-8], [8:0-0-4,0-2-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.09 10-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.19 10-22	>975	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.18 8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 93 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 2-0-0 oc purlins (4-3-12 max.).
BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing.

REACTIONS.

(size) 2=0-5-8, 8=0-5-8
Max Horz 2=-269(LC 10)
Max Uplift 2=-314(LC 12), 8=-314(LC 13)
Max Grav 2=668(LC 1), 8=668(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1727/775, 4-5=-1236/345, 5-6=-1273/389, 6-8=-1600/671
BOT CHORD 2-10=-711/1709, 8-10=-450/1402
WEBS 5-10=-313/1353, 4-10=-558/541, 6-10=-554/538

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-3-8, Zone1 1-3-8 to 8-0-0, Zone2 8-0-0 to 12-0-5, Zone1 12-0-5 to 17-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 8=314.
- 10) 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 ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758831
4371416	T50	Scissor	4	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:28 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-4mRi?utXkMP8eOKmgHKcF98wiN5x5X65MJ8?s3yAnK9

-1-6-0

1-6-0

4-3-6

4-3-6

8-0-0

3-8-10

11-8-10

3-8-10

16-0-0

4-3-6

4x5 =

Scale = 1:45.6

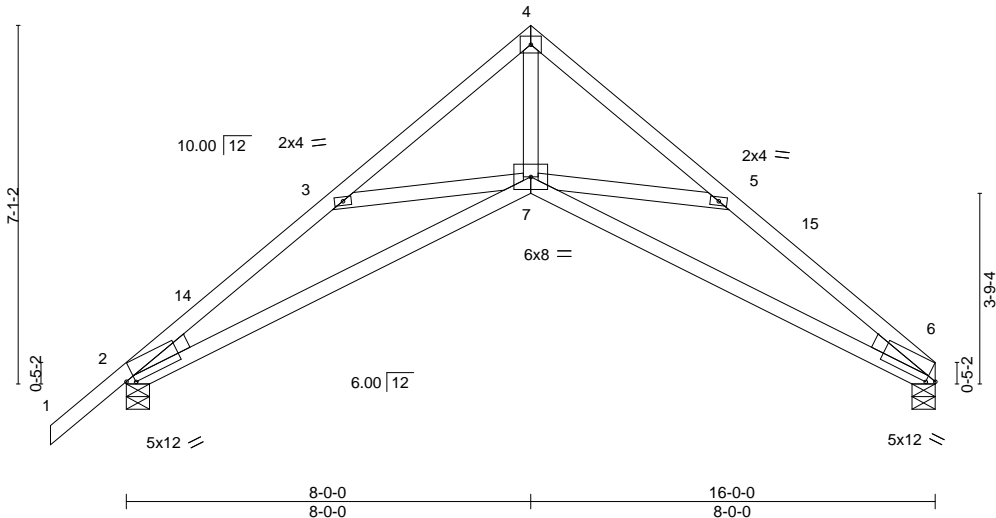


Plate Offsets (X,Y)--	[2:0-2-0,0-1-1], [6:0-2-0,0-1-1]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.11 7-10	>999	240	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.24 7-10	>816	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.18 6	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 80 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-0-15 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 6=0-5-8, 2=0-5-8
Max Horz 2=268(LC 9)
Max Uplift 6=245(LC 13), 2=310(LC 12)
Max Grav 6=588(LC 1), 2=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1483/731, 3-4=-1116/398, 4-5=-1153/441, 5-6=-1452/762
BOT CHORD 2-7=-684/1405, 6-7=-514/1203
WEBS 4-7=-382/1194, 5-7=-384/482, 3-7=-383/436

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-0-0, Zone2 8-0-0 to 11-11-12, Zone1 11-11-12 to 16-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=245, 2=310.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758832
4371416	T51	Scissor	6	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:28 2024 Page 1

ID;j1GsU3rqen88z_VCSO8tWpyLf0E-4mRi?utXkMP8eOKmgHKcF98xmN5?5X_5MJ8?s3yAnK9

4-3-6

8-0-0

11-8-10

16-0-0

4-3-6

3-8-10

3-8-10

4-3-6

4x5 =

Scale = 1:44.2

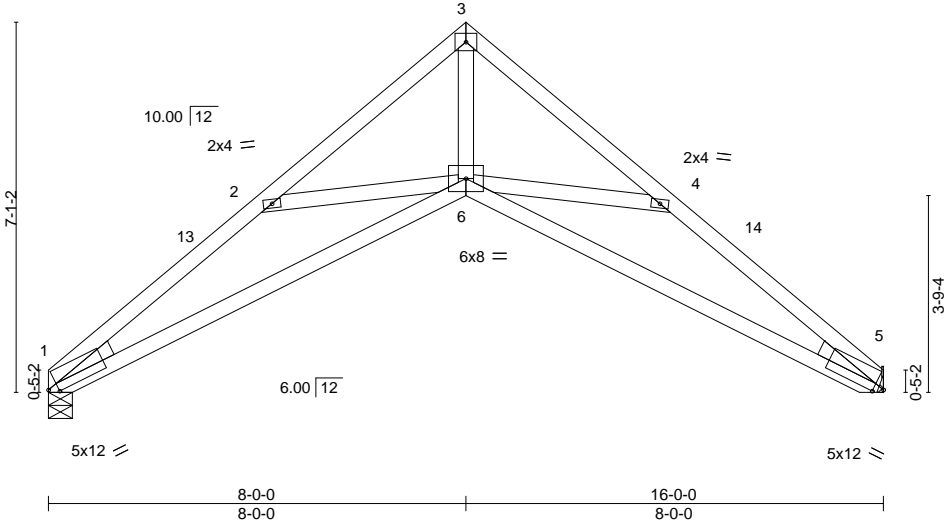


Plate Offsets (X,Y)--		[1:0-2-3,0-1-6], [5:0-2-3,0-1-6]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL		1.25		TC 0.34		Vert(LL)		-0.11 6-12		>999		240		MT20		244/190	
TCDL 7.0		Lumber DOL		1.25		BC 0.62		Vert(CT)		-0.23 6-12		>819		180					
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.44		Horz(CT)		0.18 5		n/a		n/a					
BCDL 10.0		Code FBC2023/TPI2014				Matrix-MS										Weight: 77 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-11-4 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 1=0-5-8, 5=Mechanical
Max Horz 1=-238(LC 8)
Max Uplift 1=-247(LC 12), 5=-247(LC 13)
Max Grav 1=592(LC 1), 5=592(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1517/774, 2-3=-1137/445, 3-4=-1167/456, 4-5=-1465/773
BOT CHORD 1-6=-722/1441, 5-6=-552/1213
WEBS 3-6=-404/1216, 4-6=-383/481, 2-6=-383/453

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-0-0, Zone2 8-0-0 to 11-11-12, Zone1 11-11-12 to 16-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=247, 5=247.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758833
4371416	T52	Scissor	4	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL),Lake City, FL - 32055,8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:29 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Yy_4CEtAVgX?GYvzE_sroNh5MmR6q_WFaztZPVyAnK8

-1-6-0
1-6-0

4-3-6
4-3-6

8-0-0
3-8-10

11-8-10
3-8-10

15-10-0
4-1-6

4x5 =

Scale = 1:45.5

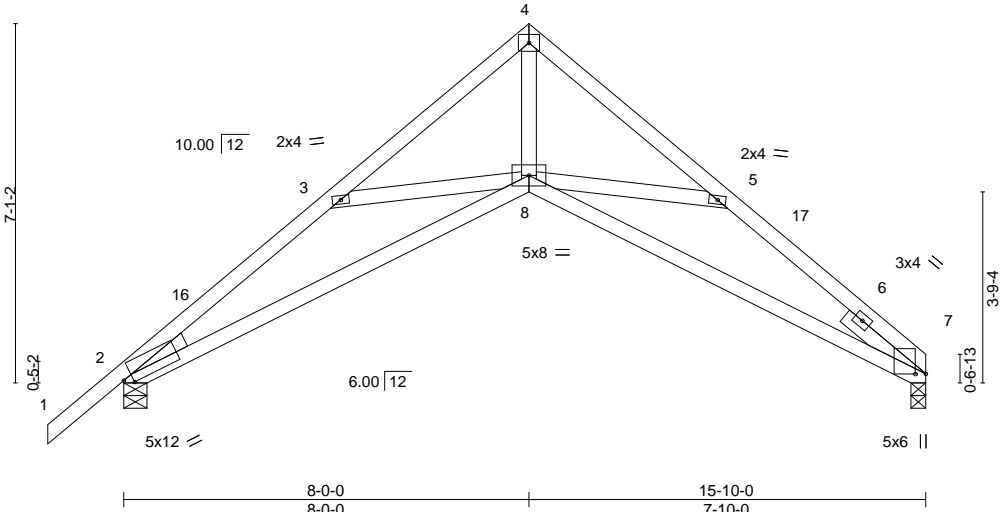


Plate Offsets (X,Y)-- [2:0-2-3,0-1-7], [7:0-0-1,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.41	Vert(LL)	-0.11 8-15 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.62	Vert(CT)	-0.24 8-15 >805 180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.42	Horz(CT)	0.16 7 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 81 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-7 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-0-4 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3			
SLIDER	Right 2x4 SP No.3 1-11-8		

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=267(LC 9)
Max Uplift 7=241(LC 13), 2=307(LC 12)
Max Grav 7=582(LC 1), 2=671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1464/736, 3-4=-1094/399, 4-5=-1132/442, 5-7=-1372/747
BOT CHORD 2-8=-689/1387, 7-8=-496/1164
WEBS 3-8=-385/437, 4-8=-383/1168, 5-8=-368/454

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-0-0, Zone2 8-0-0 to 11-11-13, Zone1 11-11-13 to 15-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=241, 2=307.

This item has been digitally signed and sealed by O'Regan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758834
4371416	T53	Half Hip	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:29 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Yy_4CEtAVgX?GYvzE_sroNh4qmR8qvKFaztZPVyAnK8

-1-6-0
1-6-0

4-3-6
4-3-6

8-0-0
3-8-10

12-2-4
4-2-4

16-8-0
4-5-12

Scale = 1:42.4

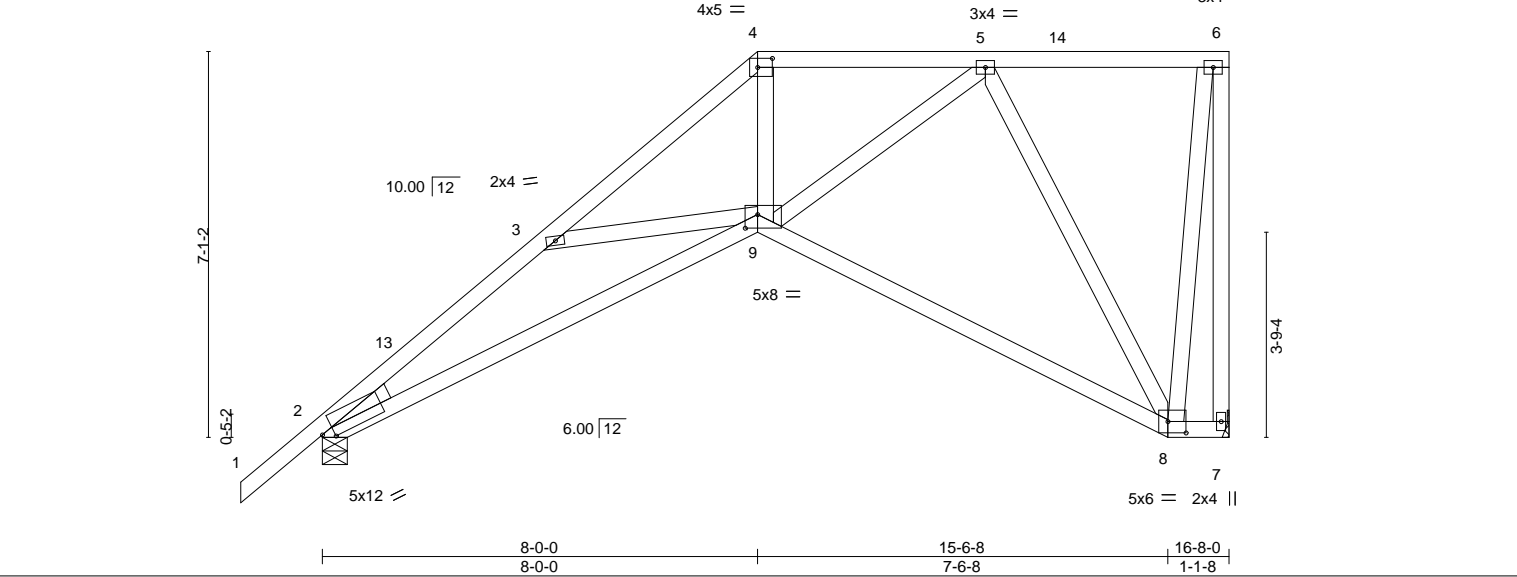


Plate Offsets (X,Y)--										[2:0-2-9,0-1-9], [4:0-3-4,0-2-0], [8:0-4-0,0-2-8], [9:0-2-12,0-3-0]										
LOADING (psf)		SPACING- 2-0-0			CSI.		DEFL.			in (loc)		l/defl		L/d		PLATES		GRIP		
TCLL 20.0		Plate Grip DOL 1.25			TC 0.51		Vert(LL)		-0.13		8-9		>999		240		MT20		244/190	
TCDL 7.0		Lumber DOL 1.25			BC 0.62		Vert(CT)		-0.27		8-9		>728		180					
BCLL 0.0 *		Rep Stress Incr YES			WB 0.75		Horz(CT)		-0.13		7		n/a		n/a					
BCDL 10.0		Code FBC2023/TPI2014			Matrix-MS												Weight: 109 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS.	(size) 7=Mechanical, 2=0-5-8
	Max Horz 2=434(LC 12)
	Max Uplift 7=341(LC 9), 2=308(LC 12)
	Max Grav 7=608(LC 1), 2=696(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1501/1067, 3-4=-1170/757, 4-5=-856/665, 6-7=-633/313
BOT CHORD	2-9=-1199/1235, 8-9=-303/458
WEBS	3-9=-343/404, 4-9=-286/505, 5-9=-496/587, 5-8=-672/501, 6-8=-269/539

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 8-0-0, Zone2 8-0-0 to 12-2-4, Zone1 12-2-4 to 16-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=341, 2=308.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758835
4371416	T54	Half Hip	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:30 2024 Page 1

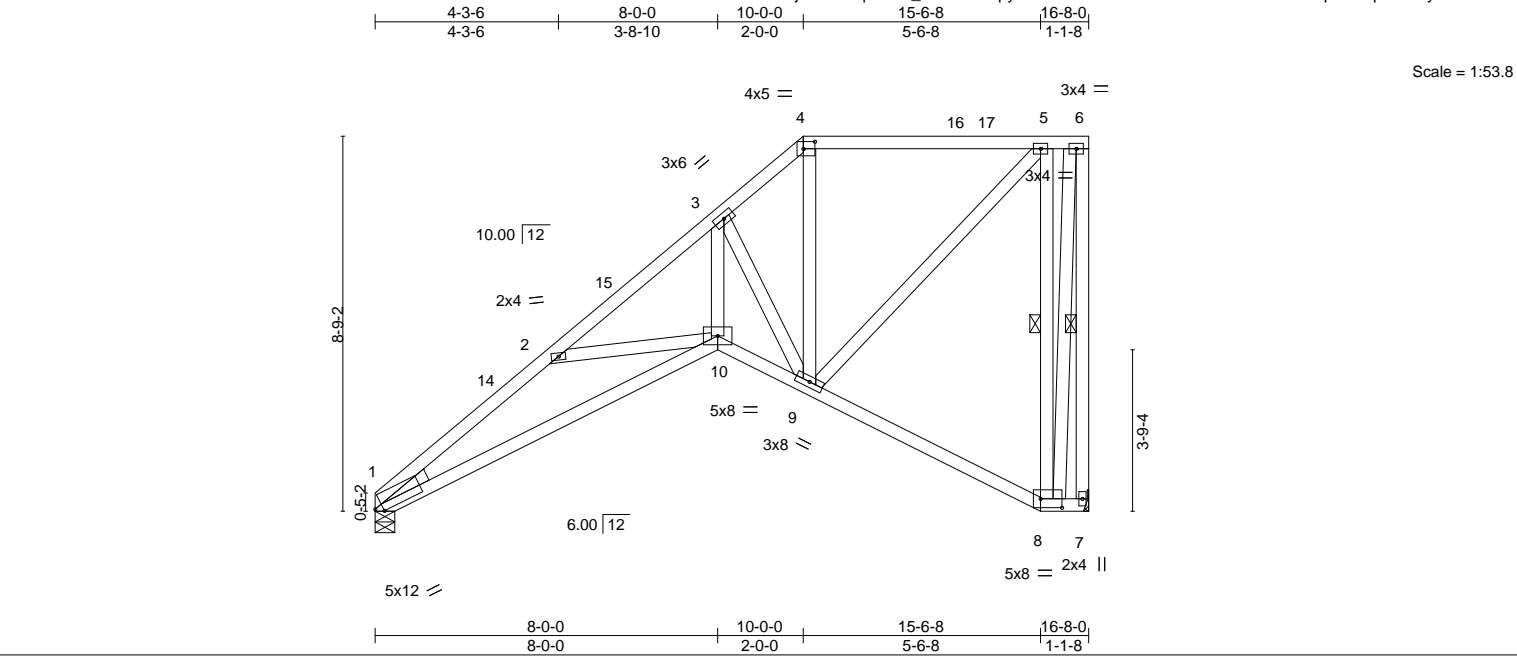


Plate Offsets (X,Y)--										[1:0-2-2,0-1-9], [4:0-3-4,0-2-0], [8:0-6-0,0-2-8]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.47	Vert(LL)	0.14	10	>999	240	MT20	244/190					
TCDL	7.0	Lumber DOL 1.25				BC	0.66	Vert(CT)	-0.26	10-13	>777	180							
BCLL	0.0 *	Rep Stress Incr YES				WB	0.61	Horz(CT)	-0.16	7	n/a	n/a							
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS						Weight: 131 lb		FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-0-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 5-8
WEDGE	
Left: 2x4 SP No.3	

REACTIONS.	(size) 1=0-5-8, 7=Mechanical
	Max Horz 1=468(LC 12)
	Max Uplift 1=208(LC 12), 7=403(LC 12)
	Max Grav 1=611(LC 1), 7=611(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1525/1122, 2-3=-1195/816, 3-4=-592/433, 4-5=-433/368, 6-7=-586/370
BOT CHORD	1-10=-1356/1361, 9-10=-899/972
WEBS	2-10=-332/399, 3-10=-920/1069, 3-9=-1027/948, 5-9=-466/522, 5-8=-671/518, 6-8=-439/678

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 16-6-4 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=208, 7=403.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.	T35758836
4371416	TG01	FLAT	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:30 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-09YSQauoGzfrthU9niN4KaEJSAtnZOaOpdd6xxyAnK7

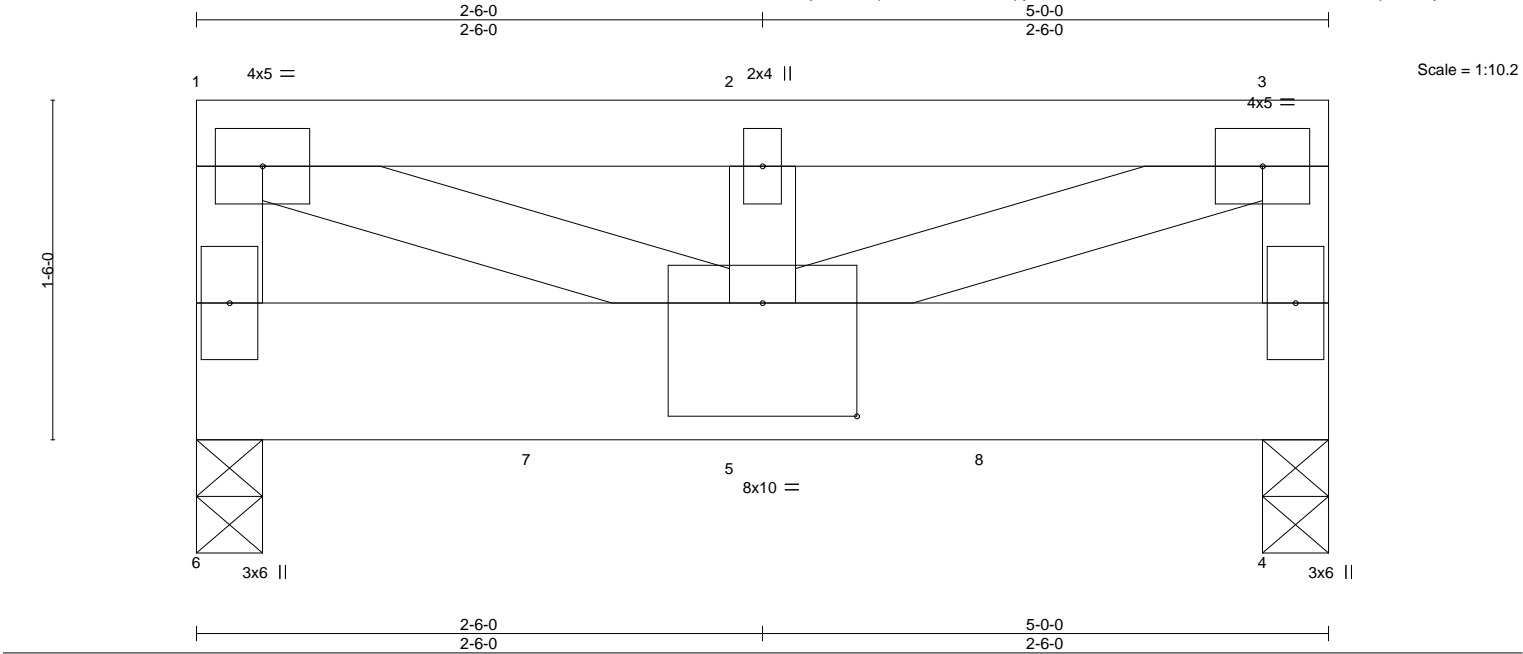


Plate Offsets (X,Y)--	[5:0-5-0,0-6-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	-0.02 5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.03 5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.62	Horz(CT)	-0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP					Weight: 64 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 6=0-3-8, 4=0-3-8
Max Uplift 6=1488(LC 4), 4=1674(LC 4)
Max Grav 6=2765(LC 2), 4=3068(LC 2)

THIS TRUSS IS DESIGNED TO BE
USED FOR ROOF APPLICATION ONLY.

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

TOP CHORD 1-6=-1431/794, 1-2=-2977/1608, 2-3=-2977/1608, 3-4=-1431/794
WEBS 1-5=-1762/3261, 3-5=-1762/3261

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1488, 4=1674.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2697 lb down and 1432 lb up at 1-7-4, and 2834 lb down and 1563 lb up at 3-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-2599(F) 8=-2744(F)

This item has been
digitally signed and
sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

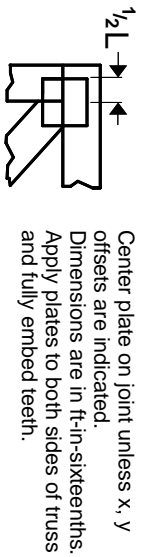
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

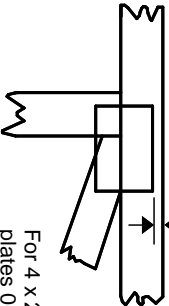
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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.

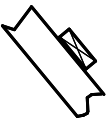
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

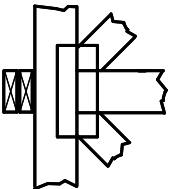
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

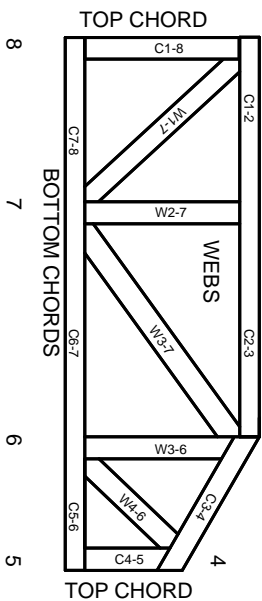
Industry Standards:

ANSI/TP1: 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



1 2 3 Joint ID typ.



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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

© 2023 MITek® All Rights Reserved

MITek®

MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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