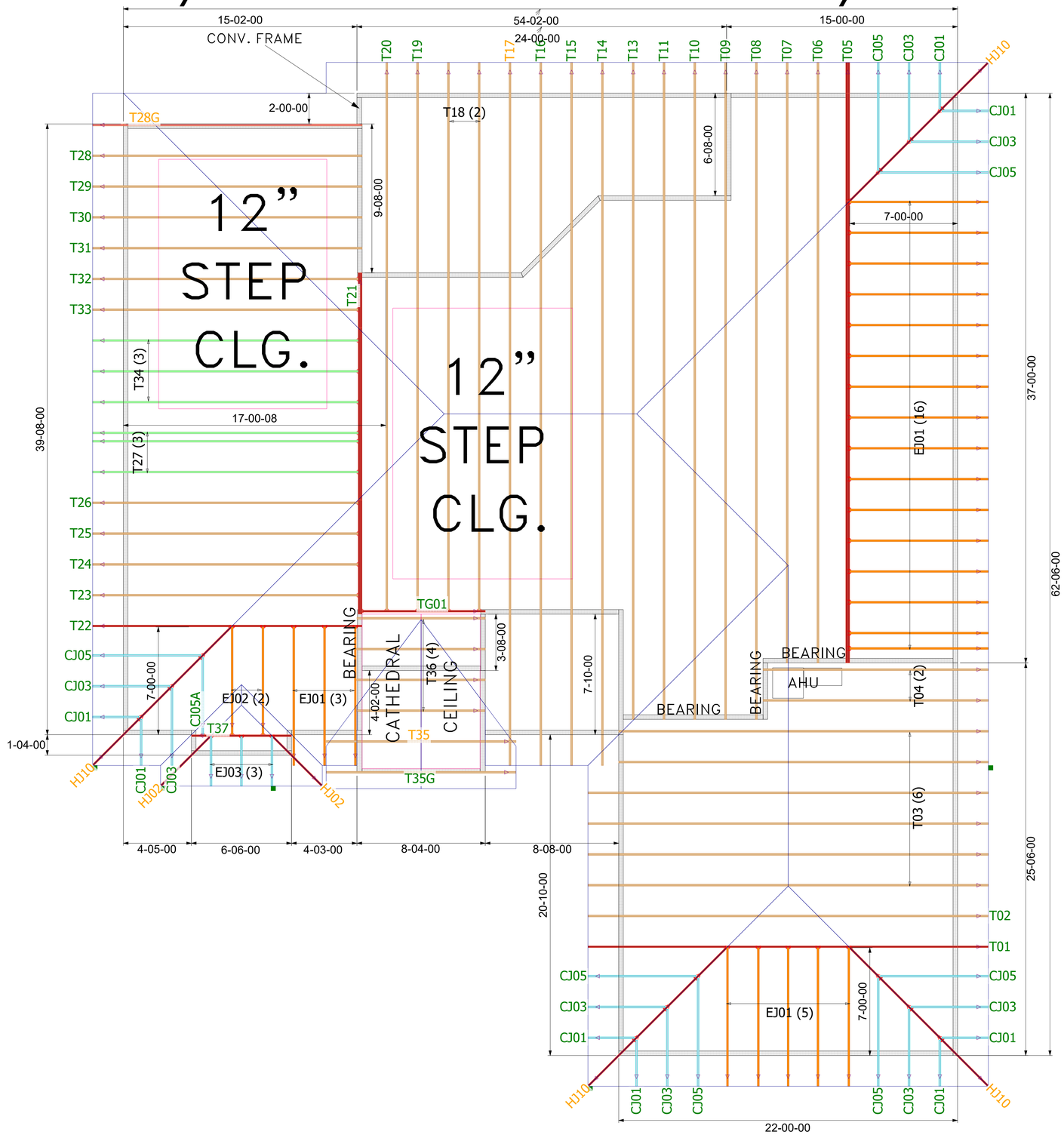
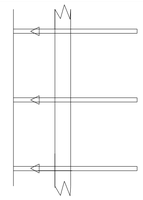
6/12 PITCH – 24" O/H



MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Builders FIRSTSOURCE

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder:
DWC CONTRACTING

Legal Address:
Lot 6 Rolling Meadows

Model:
Custom

Date:	Drawn By:	Original Ref #:
10-25-22	KLH	3308393
Floor 1 Job#	Floor 2 Job#:	Roof Job #:
N/A	N/A	3308393

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	DWC Lot 6	Builder Name:	DWC
Street:		Permit Office:	
City, State, Zip:	, FL,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Detached
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1843
Conditioned floor area below grade (ft²)	0

7. Windows(168.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.33	168.00 ft²
SHGC:	SHGC=0.21	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		2.000 ft
Area Weighted Average SHGC:		0.210

8. Skylights	Description	Area
U-Factor:(AVG)	N/A	N/A ft²
SHGC(AVG):	N/A	

9. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R= 0.0	1843.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(1737.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1503.00 ft²
b. Frame - Wood, Adjacent	R=13.0	234.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

11. Ceiling Types(1843.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=30.0	1843.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

12. Ducts, location & insulation level	R	ft²
a. a. Sup: Attic, Ret: Attic, AH: Garage	6	268.6
b.		
c.		

13. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	36.6	SEER:14.00

14. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	34.2	HSPF:8.50

15. Hot Water Systems	
a. Electric	Cap: 40 gallons EF: 0.920
b. Conservation features	None
16. Credits	CF, Pstat

Glass/Floor Area: 0.091

Total Proposed Modified Loads: 44.18
Total Baseline Loads: 45.34

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Breanna Holliday

DATE: 10/20/22 Tight-Seal Inc.

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.000 Qn for whole house.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

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

RE: 3308393 - DWC - LOT 6 RM

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

Site Information:

Customer Info: DWC Contracting, LLC Project Name: Spec Hse Model: Custom
Lot/Block: 6 Subdivision: Rolling Meadows
Address: 231 SW Morning Glory Dr, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 48 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.

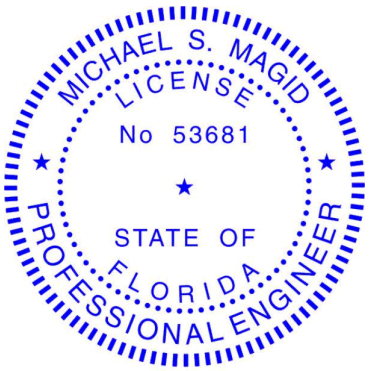
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T29057861	CJ01	10/25/22	15	T29057875	T06	10/25/22
2	T29057862	CJ03	10/25/22	16	T29057876	T07	10/25/22
3	T29057863	CJ05	10/25/22	17	T29057877	T08	10/25/22
4	T29057864	CJ05A	10/25/22	18	T29057878	T09	10/25/22
5	T29057865	EJ01	10/25/22	19	T29057879	T10	10/25/22
6	T29057866	EJ02	10/25/22	20	T29057880	T11	10/25/22
7	T29057867	EJ03	10/25/22	21	T29057881	T13	10/25/22
8	T29057868	HJ02	10/25/22	22	T29057882	T14	10/25/22
9	T29057869	HJ10	10/25/22	23	T29057883	T15	10/25/22
10	T29057870	T01	10/25/22	24	T29057884	T16	10/25/22
11	T29057871	T02	10/25/22	25	T29057885	T17	10/25/22
12	T29057872	T03	10/25/22	26	T29057886	T18	10/25/22
13	T29057873	T04	10/25/22	27	T29057887	T19	10/25/22
14	T29057874	T05	10/25/22	28	T29057888	T20	10/25/22

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature.
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: Magid, Michael
My license renewal date for the state of Florida is February 28, 2023.

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



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

RE: 3308393 - DWC - LOT 6 RM

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

Site Information:

Customer Info: DWC Contracting, LLC Project Name: Spec Hse Model: Custom
Lot/Block: 6 Subdivision: Rolling Meadows
Address: 231 SW Morning Glory Dr, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T29057889	T21	10/25/22
30	T29057890	T22	10/25/22
31	T29057891	T23	10/25/22
32	T29057892	T24	10/25/22
33	T29057893	T25	10/25/22
34	T29057894	T26	10/25/22
35	T29057895	T27	10/25/22
36	T29057896	T28	10/25/22
37	T29057897	T28G	10/25/22
38	T29057898	T29	10/25/22
39	T29057899	T30	10/25/22
40	T29057900	T31	10/25/22
41	T29057901	T32	10/25/22
42	T29057902	T33	10/25/22
43	T29057903	T34	10/25/22
44	T29057904	T35	10/25/22
45	T29057905	T35G	10/25/22
46	T29057906	T36	10/25/22
47	T29057907	T37	10/25/22
48	T29057908	TG01	10/25/22

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	CJ01	Jack-Open	8	1	T29057861
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:26 2022 Page 1
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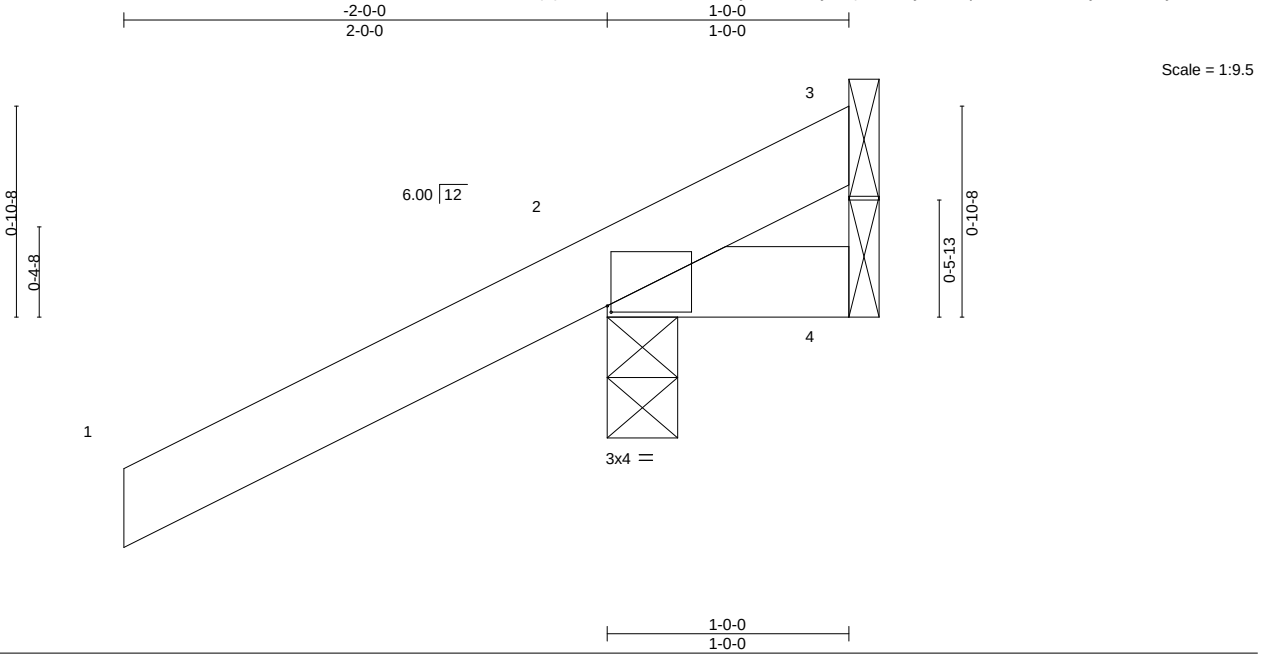

Plate Offsets (X,Y)-- [2:0-0-3,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	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 FBC2020/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=0-3-8, 4=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=-46(LC 1)
Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(LC 16)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 27 lb uplift at joint 3, 102 lb uplift at joint 2 and 46 lb uplift at joint 4.

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	CJ03	Jack-Open	8	1	T29057862
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:27 2022 Page 1
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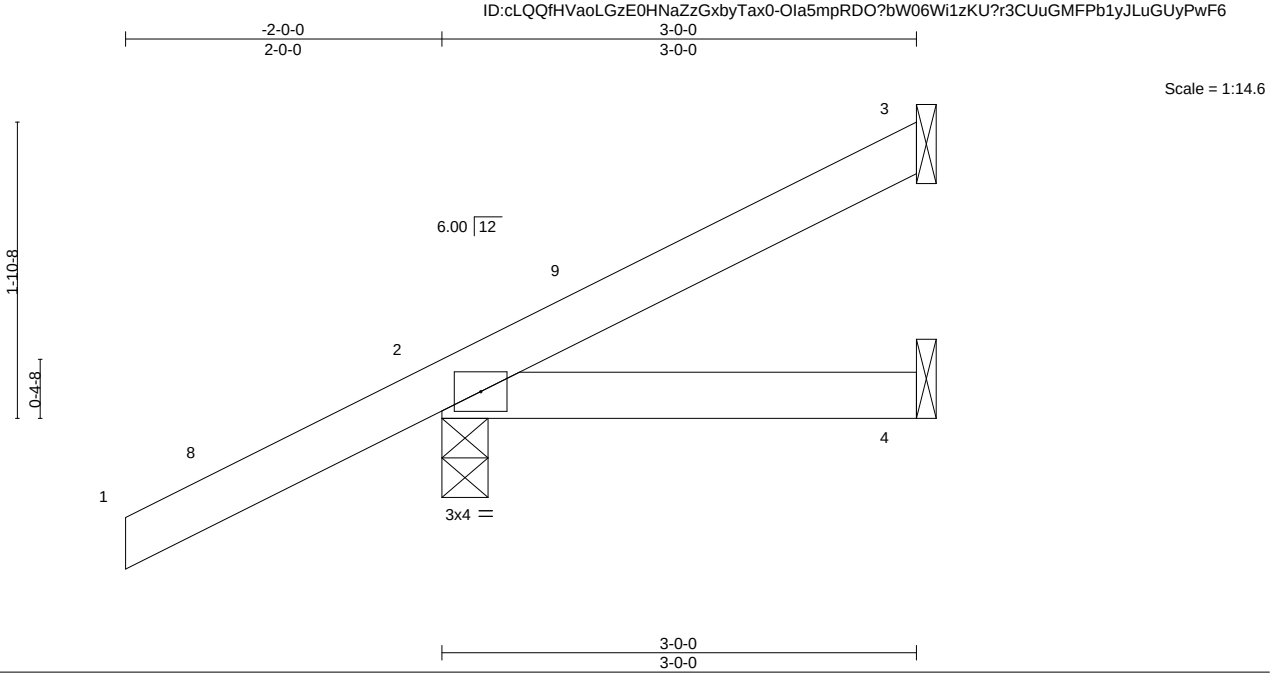

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=-31(LC 12), 2=-76(LC 12)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 76 lb uplift at joint 2.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	CJ05	Jack-Open	7	1	T29057863
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:28 2022 Page 1
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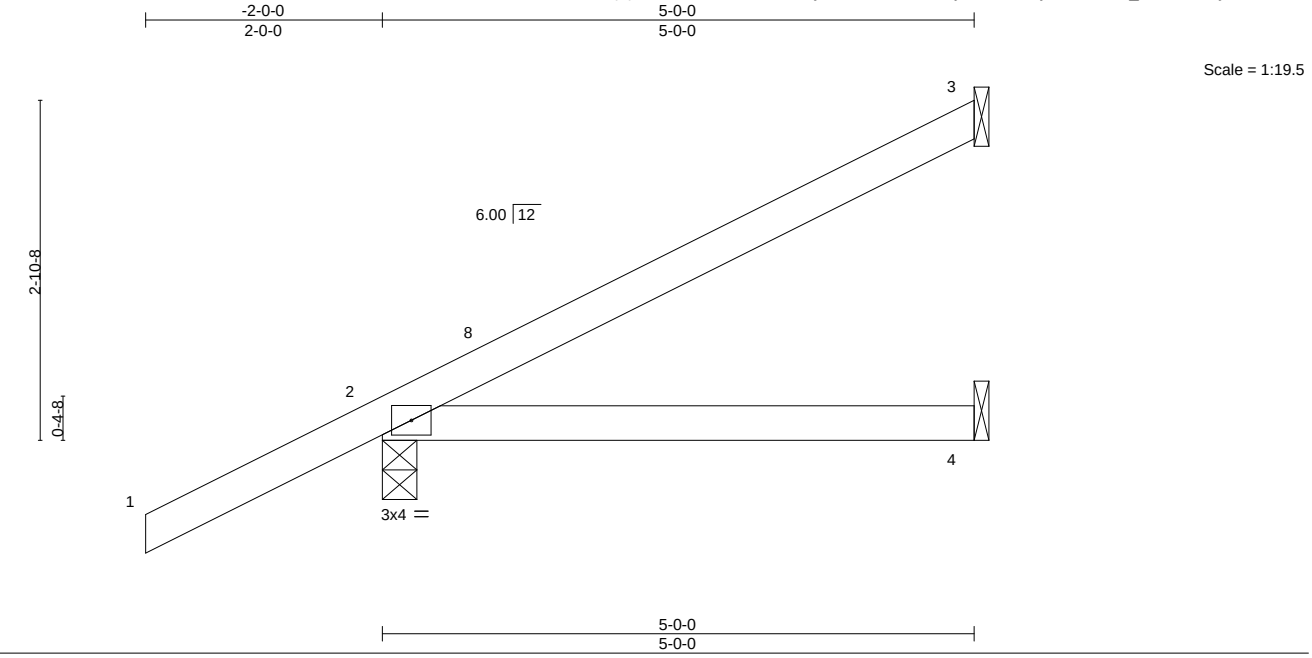

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 3=-64(LC 12), 2=-80(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 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 64 lb uplift at joint 3 and 80 lb uplift at joint 2.

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	CJ05A	Jack-Open	1	1	T29057864
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:28 2022 Page 1
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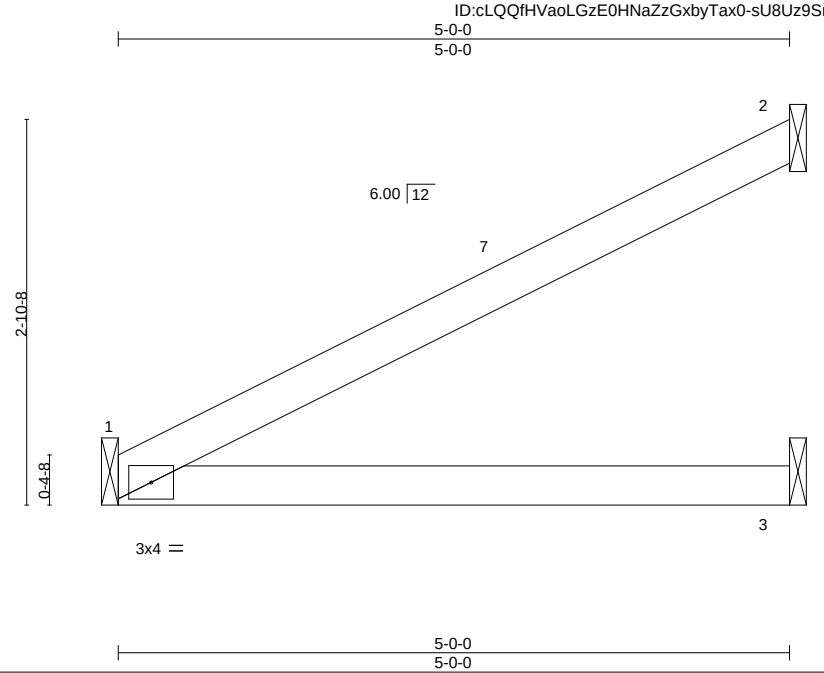

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.04	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	3-6	>975	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 16 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) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=85(LC 12)
Max Uplift 1=-27(LC 12), 2=-70(LC 12), 3=-2(LC 12)
Max Grav 1=183(LC 1), 2=118(LC 1), 3=90(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 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 27 lb uplift at joint 1, 70 lb uplift at joint 2 and 2 lb uplift at joint 3.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	EJ01	Jack-Partial	24	1	T29057865
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:29 2022 Page 1
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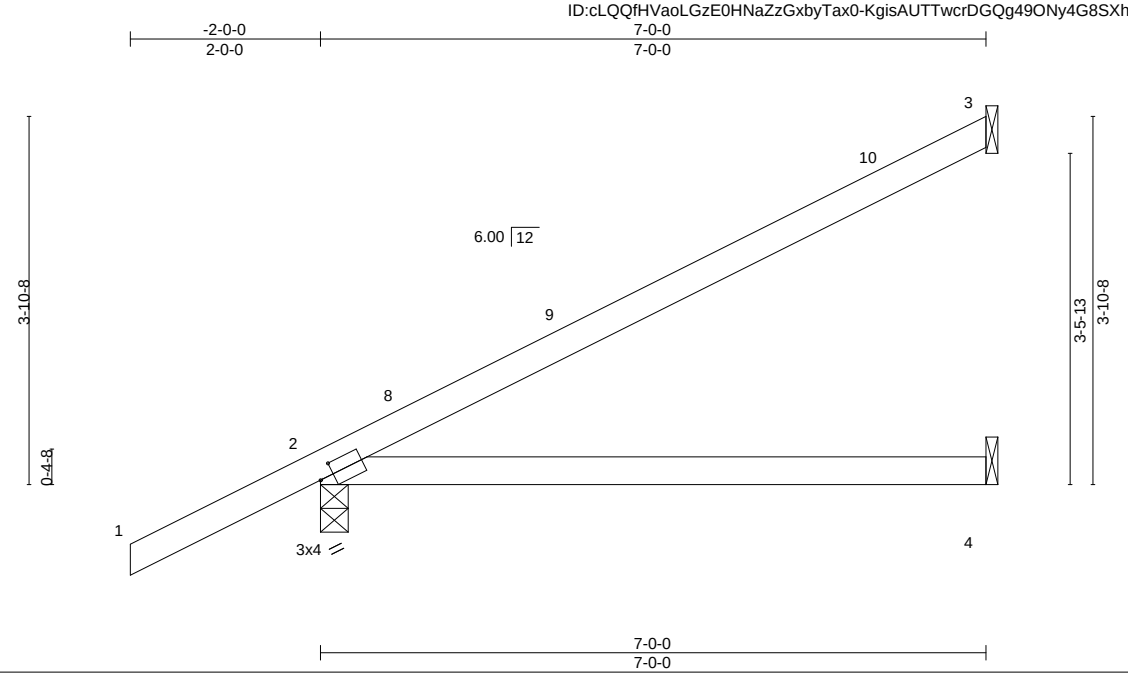

Plate Offsets (X,Y)-- [2:0-1-13,0-1-8]

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	0.60	Vert(LL)	0.10	4-7	>876	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	4-7	>393	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 26 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=144(LC 12)
Max Uplift 3=-84(LC 12), 2=-90(LC 12)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 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 84 lb uplift at joint 3 and 90 lb uplift at joint 2.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	EJ02	Jack-Partial	2	1	T29057866
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:30 2022 Page 1
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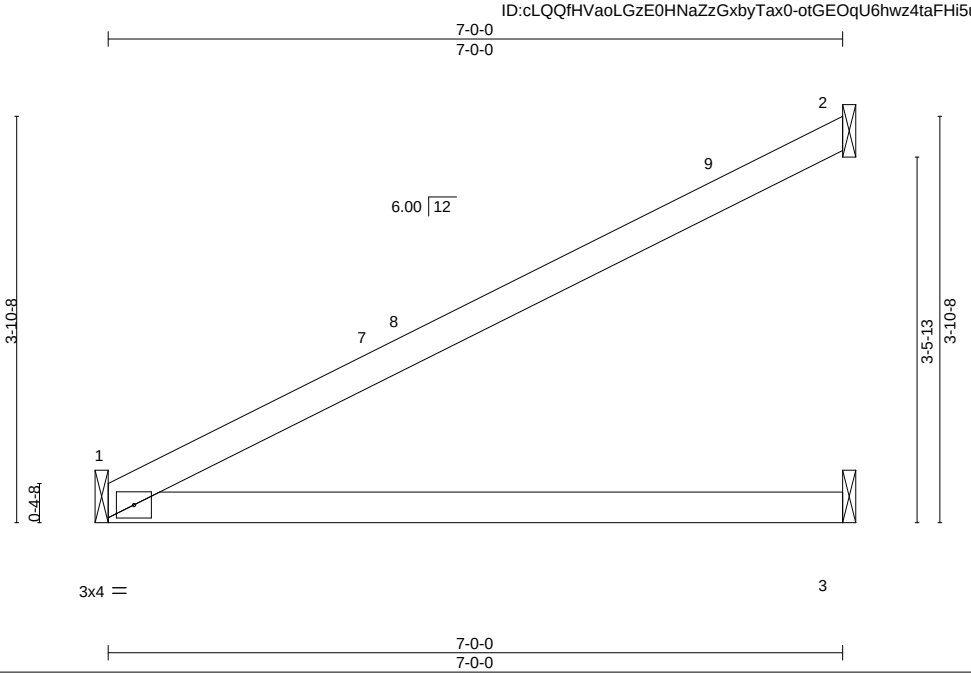

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.12	3-6	>711	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.23	3-6	>358	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 22 lb	FT = 20%

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

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

REACTIONS. (size) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=114(LC 12)
Max Uplift 1=-40(LC 12), 2=-88(LC 12), 3=-1(LC 12)
Max Grav 1=257(LC 1), 2=168(LC 1), 3=127(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 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 40 lb uplift at joint 1, 88 lb uplift at joint 2 and 1 lb uplift at joint 3.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	EJ03	Jack-Open	3	1	T29057867
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:31 2022 Page 1
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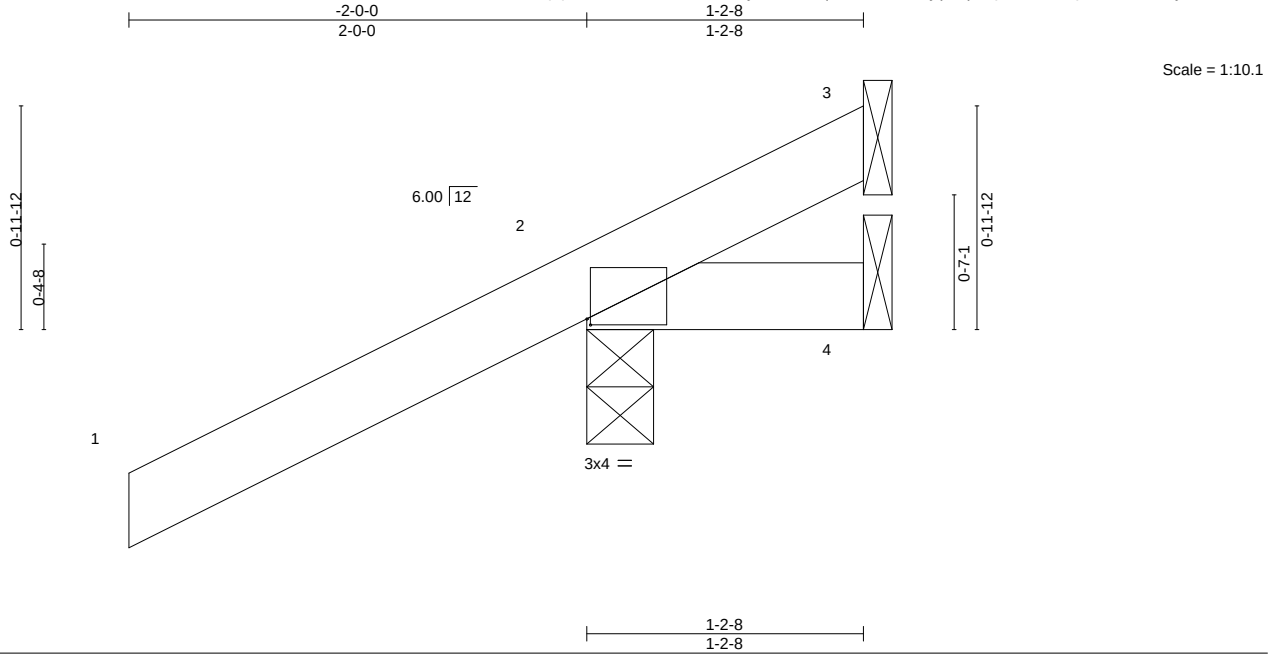

Plate Offsets (X,Y)-- [2:0-0-3,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	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 FBC2020/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 1-2-8 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=50(LC 12)
Max Uplift 3=-14(LC 1), 2=-94(LC 12), 4=-32(LC 1)
Max Grav 3=12(LC 8), 2=243(LC 1), 4=26(LC 16)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 14 lb uplift at joint 3, 94 lb uplift at joint 2 and 32 lb uplift at joint 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	HJ02	Diagonal Hip Girder	2	1	T29057868
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:31 2022 Page 1
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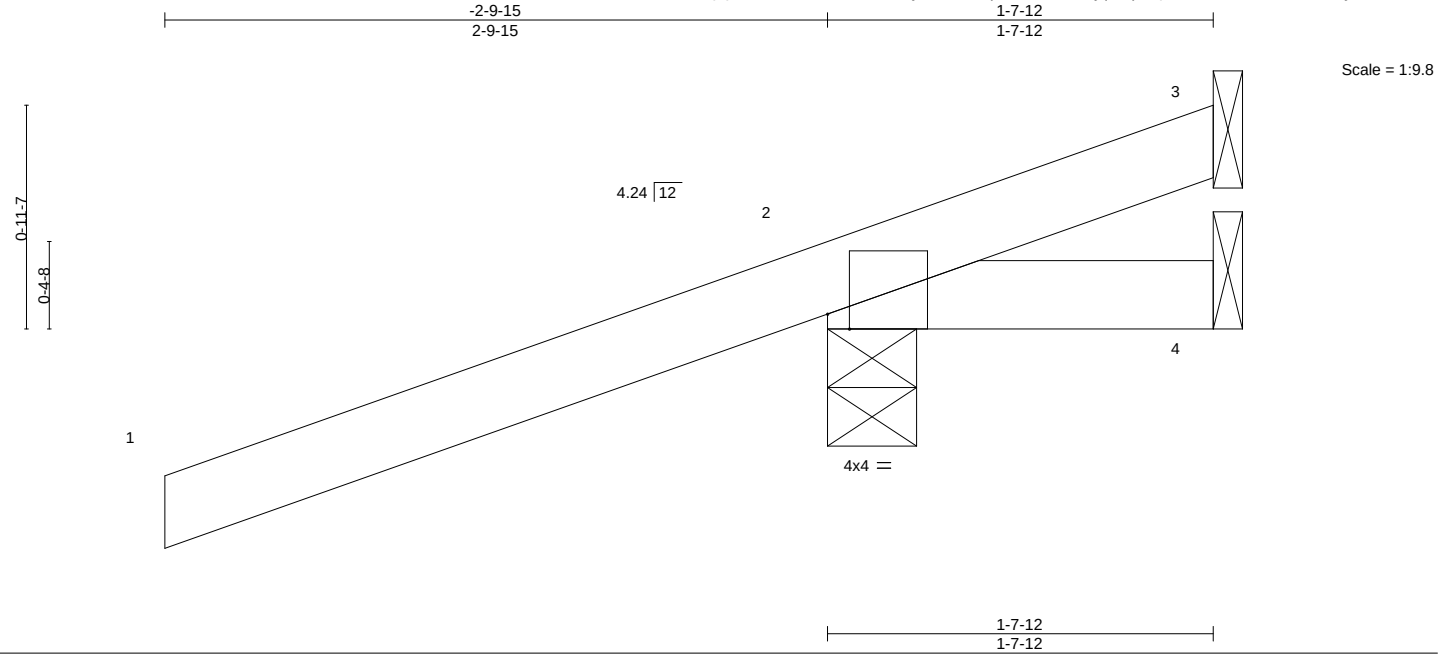

Plate Offsets (X,Y)-- [2:0-1-2,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00	7	>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 FBC2020/TPI2014		Matrix-MP							Weight: 10 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 1-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-4-9, 4=Mechanical, 3=Mechanical
Max Horz 2=66(LC 8)
Max Uplift 2=-222(LC 8), 4=-46(LC 1), 3=-26(LC 1)
Max Grav 2=345(LC 1), 4=52(LC 8), 3=31(LC 8)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) 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 222 lb uplift at joint 2, 46 lb uplift at joint 4 and 26 lb uplift at joint 3.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	HJ10	Diagonal Hip Girder	4	1	T29057869
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Scale = 1:23.6

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:33 2022 Page 1
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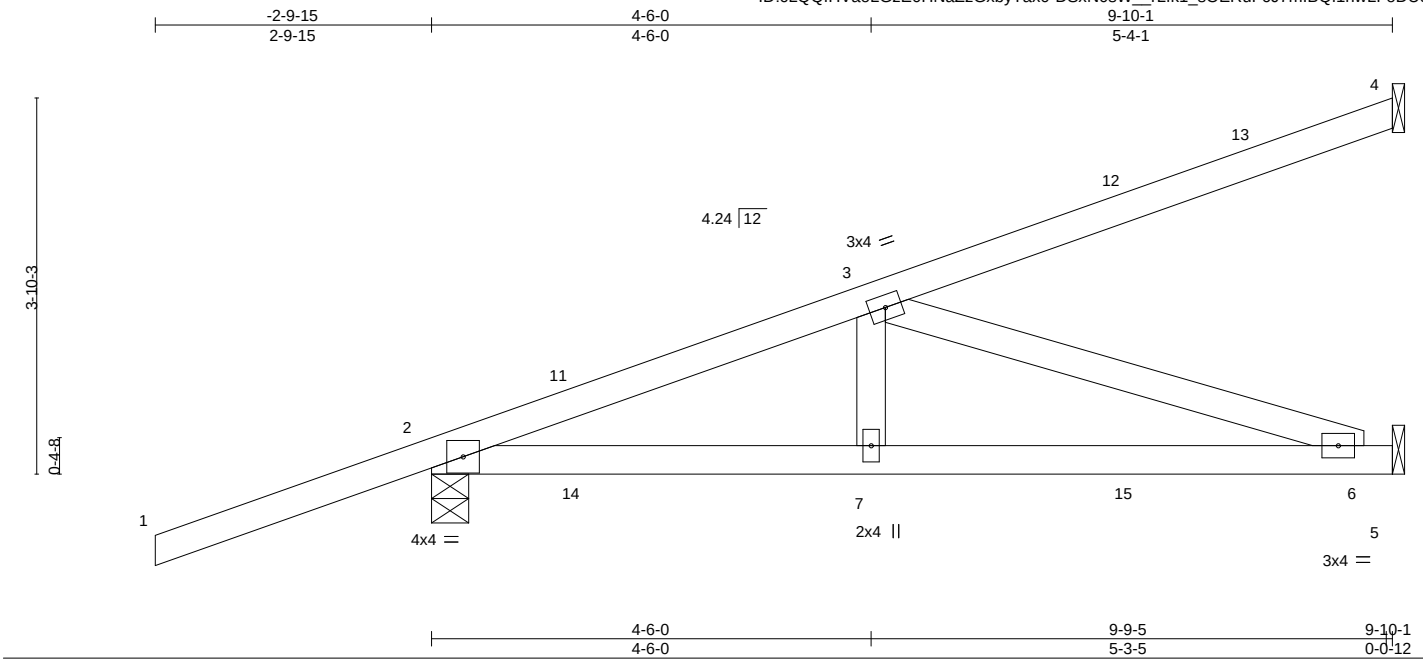

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.12	6-7	>967	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=160(LC 4)
Max Uplift 4=-79(LC 4), 2=-168(LC 4), 5=-43(LC 8)
Max Grav 4=150(LC 1), 2=463(LC 1), 5=266(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-672/142
BOT CHORD 2-7=-180/581, 6-7=-180/581
WEBS 3-6=-611/190

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 79 lb uplift at joint 4, 168 lb uplift at joint 2 and 43 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 62 lb down and 33 lb up at 4-4-0, 62 lb down and 33 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, 24 lb down and 2 lb up at 4-4-0, 24 lb down and 2 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 14=70(F=35, B=35) 15=-49(F=-24, B=-24)

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T01	Hip Girder	1	1	T29057870
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:34 2022 Page 1
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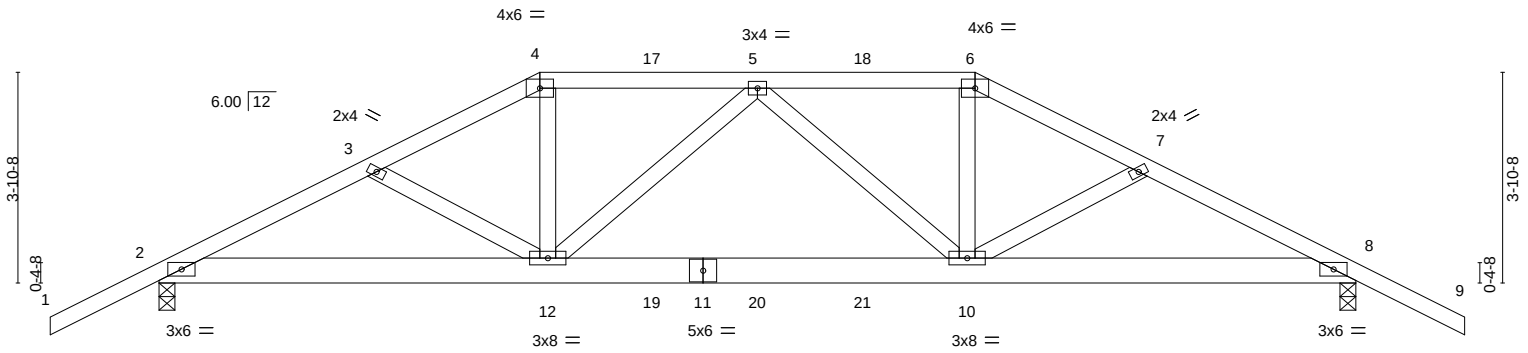

7-0-0	15-0-0	22-0-0
7-0-0	8-0-0	7-0-0

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	0.40	Vert(LL)	-0.12	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.26	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 128 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-11 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=67(LC 8)
Max Uplift 2=-412(LC 8), 8=-420(LC 9)
Max Grav 2=1586(LC 1), 8=1613(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2947/731, 3-4=-2777/681, 4-5=-2495/636, 5-6=-2545/652, 6-7=-2836/699, 7-8=-3006/750
BOT CHORD 2-12=-645/2599, 10-12=-678/2784, 8-10=-595/2652
WEBS 4-12=-140/899, 5-12=-447/234, 5-10=-365/182, 6-10=-106/855

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 412 lb uplift at joint 2 and 420 lb uplift at joint 8.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 81 lb up at 11-0-0, and 106 lb down and 88 lb up at 12-11-4, and 227 lb down and 174 lb up at 15-0-0 on top chord, and 294 lb down and 70 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-0, and 85 lb down at 12-11-4, and 294 lb down and 70 lb up at 14-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-106(B) 6=-180(B) 12=-284(B) 5=-106(B) 10=-284(B) 17=-106(B) 18=-106(B) 19=-61(B) 20=-61(B) 21=-61(B)

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

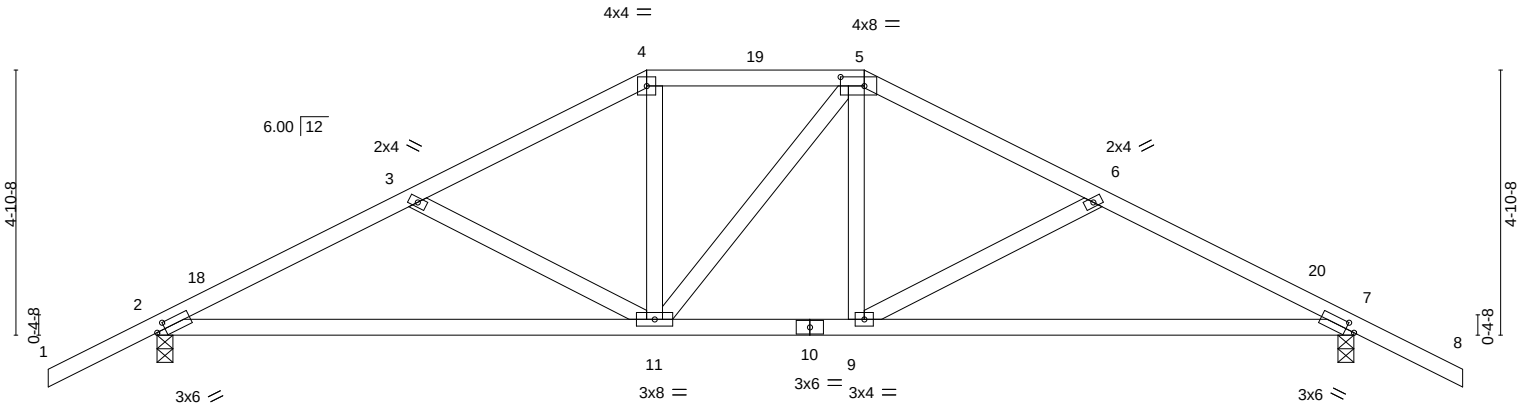
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T02	Hip	1	1	T29057871
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:35 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-9q37RYXEWSbN_L7EVfUMKXOWp6sX7_ECoZHJY1yPwF_

-2-0-0	4-9-8	9-0-0	13-0-0	17-2-8	22-0-0	24-0-0
2-0-0	4-9-8	4-2-8	4-0-0	4-2-8	4-9-8	2-0-0

Scale = 1:42.4



9-0-0	13-0-0	22-0-0
9-0-0	4-0-0	9-0-0

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-1-15,0-1-8]

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	0.42	Vert(LL)	-0.16	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.32	9-17	>823	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 111 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 4-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=82(LC 12)
Max Uplift 2=-216(LC 12), 7=-216(LC 13)
Max Grav 2=922(LC 1), 7=922(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1378/335, 3-4=-1115/271, 4-5=-952/272, 5-6=-1114/271, 6-7=-1378/335
BOT CHORD 2-11=-270/1207, 9-11=-112/951, 7-9=-234/1207
WEBS 3-11=-300/163, 4-11=-36/318, 5-9=-39/318, 6-9=-300/163

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-4-7, Interior(1) 17-4-7 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2 and 216 lb uplift at joint 7.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T03	Common	6	1	T29057872
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:36 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-d1dVeuYsHmjEbViR3M?btlxh2W8gsPEM1D0t4TyPwEz

-2-0-0 5-8-5 11-0-0 16-3-11 22-0-0 24-0-0
2-0-0 5-8-5 5-3-11 5-3-11 5-8-5 2-0-0

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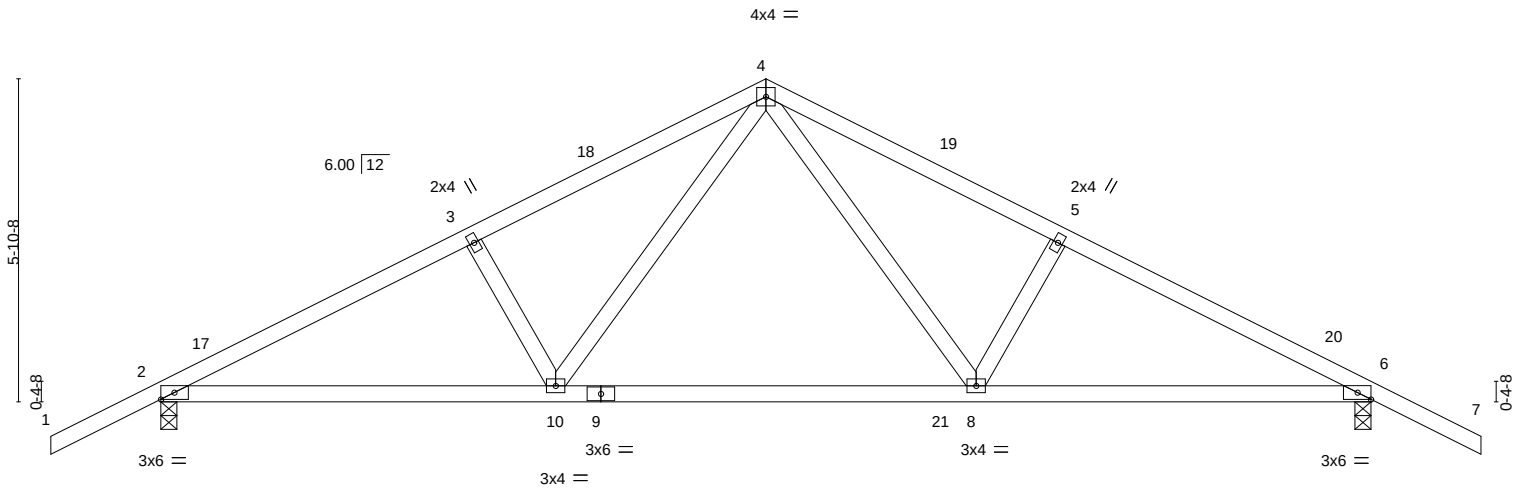

7-2-2 14-9-14 22-0-0
7-2-2 7-7-12 7-2-2

Plate Offsets (X,Y)-- [6:0-2-15,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	0.39	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.40	8-10	>659	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 105 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-4 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=97(LC 16)
Max Uplift 2=-271(LC 12), 6=-268(LC 13)
Max Grav 2=1138(LC 1), 6=1126(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1902/507, 3-4=-1770/523, 4-5=-1754/517, 5-6=-1887/502
BOT CHORD 2-10=-378/1645, 8-10=-177/1091, 6-8=-366/1630
WEBS 4-8=-207/750, 5-8=-265/173, 4-10=-215/774, 3-10=-267/173

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 2 and 268 lb uplift at joint 6.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 10-21=-80(F=-60), 14-21=-20

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017

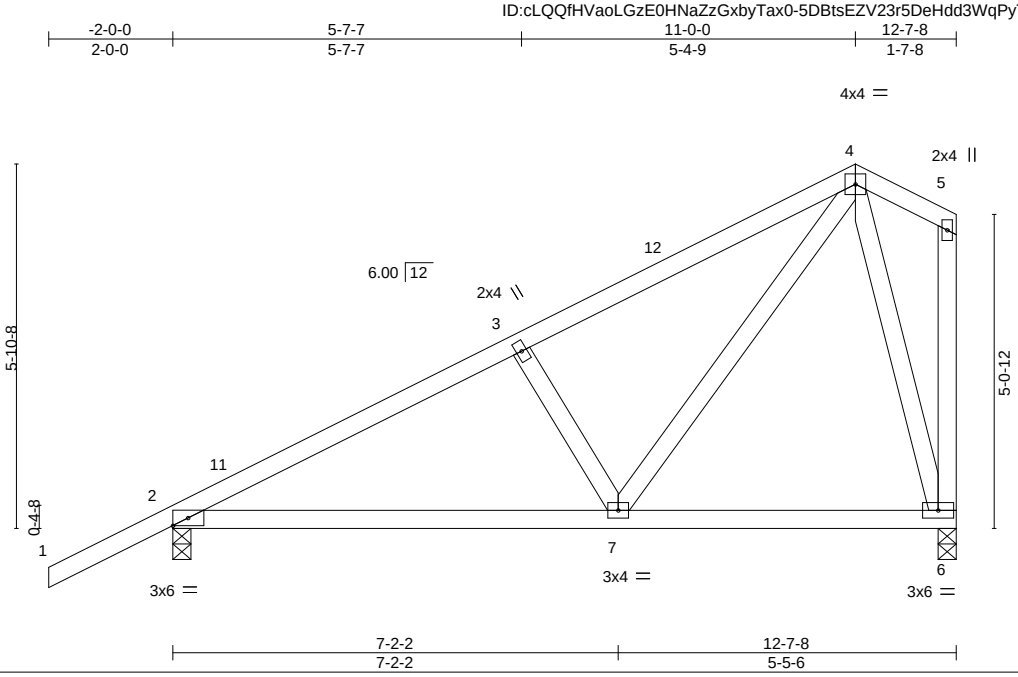
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T04	Roof Special	2	1	T29057873
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:37 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-5DBtsEZV23r5DeHdd3WqPyTtgwYTbr?VGtmQcvyPwEy



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)	0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 73 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=204(LC 12)
Max Uplift 2=-152(LC 12), 6=-204(LC 12)
Max Grav 2=646(LC 1), 6=704(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-813/248, 3-4=-674/255
BOT CHORD 2-7=-359/679
WEBS 3-7=-285/220, 4-7=-294/691, 4-6=-506/296

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 12-5-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 2 and 204 lb uplift at joint 6.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 7-8=-20, 6-7=-80(F=-60)

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

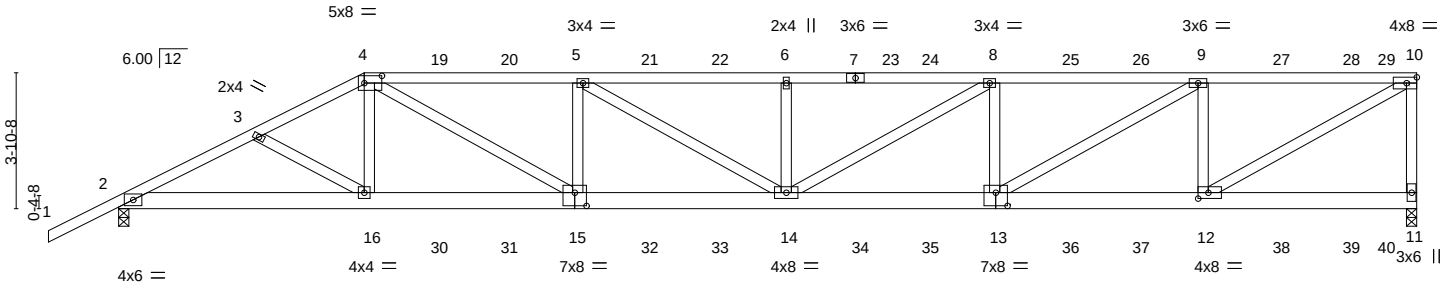
Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T05	Half Hip Girder	1	2	T29057874

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:43 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-wNY96HeFdvcExZknzKdEfDjnzKaI?Q?OeoDlpZyPwEs

-2-0-0	3-11-15	7-0-0	13-1-1	19-0-6	24-11-10	30-10-15	37-0-0
2-0-0	3-11-15	3-0-1	6-1-1	5-11-5	5-11-5	5-11-5	6-1-1

Scale = 1:65.7



7-0-0	13-1-1	19-0-6	24-11-10	30-10-15	37-0-0
7-0-0	6-1-1	5-11-5	5-11-5	5-11-5	6-1-1

Plate Offsets (X,Y)-- [4:0-6-0,0-2-8], [12:0-3-8,0-2-0], [13:0-4-0,0-4-8], [15:0-4-0,0-4-8]

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	0.86	Vert(LL)	-0.31	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.58	14-15	>761	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 455 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=151(LC 8)
Max Uplift 11=-784(LC 5), 2=-702(LC 8)
Max Grav 11=3006(LC 1), 2=2734(LC 1)

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

TOP CHORD	2-3=-5475/1377, 3-4=-5335/1344, 4-5=-7094/1828, 5-6=-7730/2002, 6-8=-7730/2002, 8-9=-6788/1765, 9-10=-4289/1116, 10-11=-2823/815
BOT CHORD	2-16=-1303/4851, 15-16=-1231/4781, 14-15=-1840/7120, 13-14=-1769/6798, 12-13=-1116/4289
WEBS	4-16=-32/692, 4-15=-749/2720, 5-15=-1070/459, 5-14=-204/749, 6-14=-624/321, 8-14=-326/1082, 8-13=-1175/457, 9-13=-754/2903, 9-12=-2174/745, 10-12=-1266/4895

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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 784 lb uplift at joint 11 and 702 lb uplift at joint 2.

Continued on page 2

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 88 lb up at 17-0-12, 106 lb down and 88 lb up at 19-0-12, 106 lb down and 87 lb up at 21-0-12, 106 lb down and 88 lb up at 23-0-12, 106 lb down and 88 lb up at 25-0-12, 106 lb down and 88 lb up at 27-0-12, 106 lb down and 88 lb up at 29-0-12, 106 lb down and 88 lb up at 31-0-12, 106 lb down and 88 lb up at 33-0-12, and 106 lb down and 88 lb up at 35-0-12, and 112 lb down and 88 lb up at 36-0-12 on top chord, and 294 lb down and 70 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 25-0-12, 85 lb down at 27-0-12, 85 lb down at 29-0-12, 85 lb down at 31-0-12, 85 lb down at 33-0-12, and 85 lb down at 35-0-12, and 89 lb down at 36-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-10=-54, 2-11=-20
   Concentrated Loads (lb)
   Vert: 4=-106(B) 7=-106(B) 16=-284(B) 15=-61(B) 5=-106(B) 6=-106(B) 14=-61(B) 8=-106(B) 13=-61(B) 9=-106(B) 12=-61(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 24=-106(B) 25=-106(B) 26=-106(B) 27=-106(B) 28=-106(B) 29=-112(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B) 34=-61(B) 35=-61(B) 36=-61(B) 37=-61(B) 38=-61(B) 39=-61(B) 40=-63(B)

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T06	Half Hip	1	1	T29057875
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:44 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-OZ6XKdeuODk5ZjJzX28TBRG4hktykvBXtSyIM?yPwEr

-2-0-0	4-9-8	9-0-0	14-7-6	20-1-13	25-10-3	31-4-10	37-0-0
2-0-0	4-9-8	4-2-8	5-7-6	5-6-7	5-8-6	5-6-8	5-7-6

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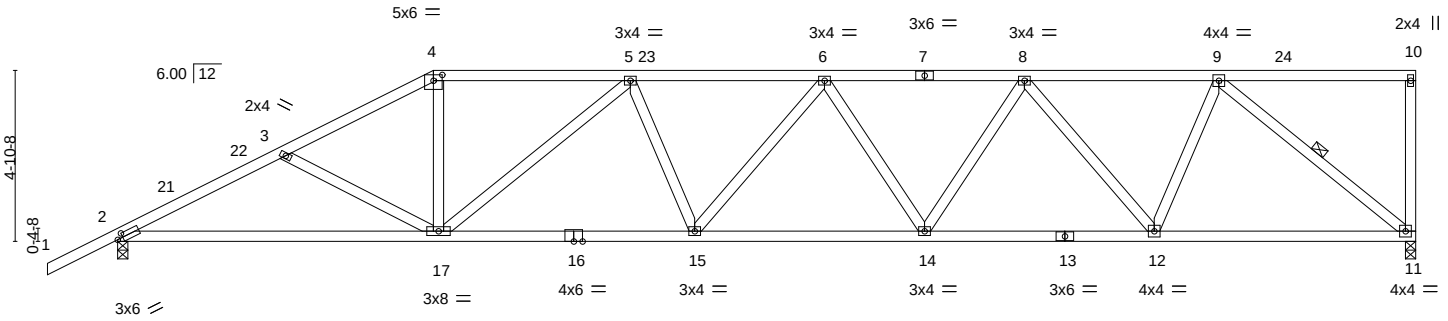

9-0-0	16-5-6	23-0-0	29-6-9	37-0-0
9-0-0	7-5-6	6-6-10	6-6-9	7-5-7

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

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	0.35	Vert(LL)	-0.20	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.39	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 201 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-0-2 oc bracing.
WEBS	1 Row at midpt 9-11

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=185(LC 12)
Max Uplift 11=-360(LC 9), 2=-364(LC 12)
Max Grav 11=1361(LC 1), 2=1475(LC 1)

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

TOP CHORD	2-3=-2587/621, 3-4=-2335/548, 4-5=-2062/524, 5-6=-2702/683, 6-8=-2557/654, 8-9=-1749/446
BOT CHORD	2-17=-656/2271, 15-17=-681/2637, 14-15=-718/2726, 12-14=-615/2311, 11-12=-381/1409
WEBS	3-17=-263/154, 4-17=-137/770, 5-17=-820/272, 6-14=-319/179, 8-14=-135/466, 8-12=-895/268, 9-12=-174/912, 9-11=-1814/493

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-8-6, Interior(1) 1-8-6 to 9-0-0, Exterior(2R) 9-0-0 to 14-2-13, Interior(1) 14-2-13 to 36-10-4 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 11 and 364 lb uplift at joint 2.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

October 25,2022

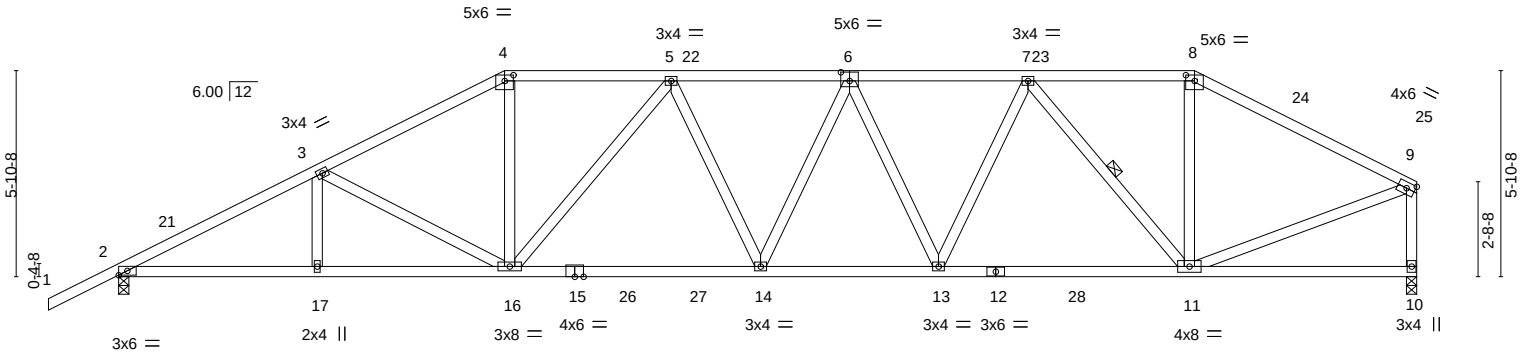
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T07	Hip	1	1	T29057876
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:46 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-KyEHllg8wq_po1TMeSAxHsLLWYZiCsTqKmRPQuyPwEp

-2-0-0	5-7-15	11-0-0	15-9-0	20-10-0	25-11-0	30-8-0	37-0-0
2-0-0	5-7-15	5-4-1	4-9-0	5-1-0	5-1-0	4-9-0	6-4-0

Scale = 1:65.7



5-7-15	11-0-0	18-3-9	23-4-7	30-8-0	37-0-0
5-7-15	5-4-1	7-3-9	5-0-14	7-3-9	6-4-0

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

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	0.58	Vert(LL)	-0.24	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.43	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 214 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-9-1 oc bracing.
WEBS	1 Row at midpt 7-11

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=159(LC 12)
Max Uplift 2=-353(LC 12), 10=-277(LC 13)
Max Grav 2=1573(LC 2), 10=1490(LC 2)

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

TOP CHORD	2-3=-2823/574, 3-4=-2390/502, 4-5=-2107/485, 5-6=-2481/524, 6-7=-2307/486, 7-8=-1448/327, 8-9=-1668/327, 9-10=-1398/296
BOT CHORD	2-17=-583/2482, 16-17=-583/2482, 14-16=-499/2412, 13-14=-503/2445, 11-13=-420/2064
WEBS	3-16=-460/183, 4-16=-115/840, 5-16=-552/200, 6-13=-364/152, 7-13=-115/598, 7-11=-1002/274, 8-11=-71/538, 9-11=-261/1484

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-8-6, Interior(1) 1-8-6 to 11-0-0, Exterior(2R) 11-0-0 to 16-2-13, Interior(1) 16-2-13 to 30-8-0, Exterior(2R) 30-8-0 to 35-10-13, Interior(1) 35-10-13 to 36-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 353 lb uplift at joint 2 and 277 lb uplift at joint 10.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

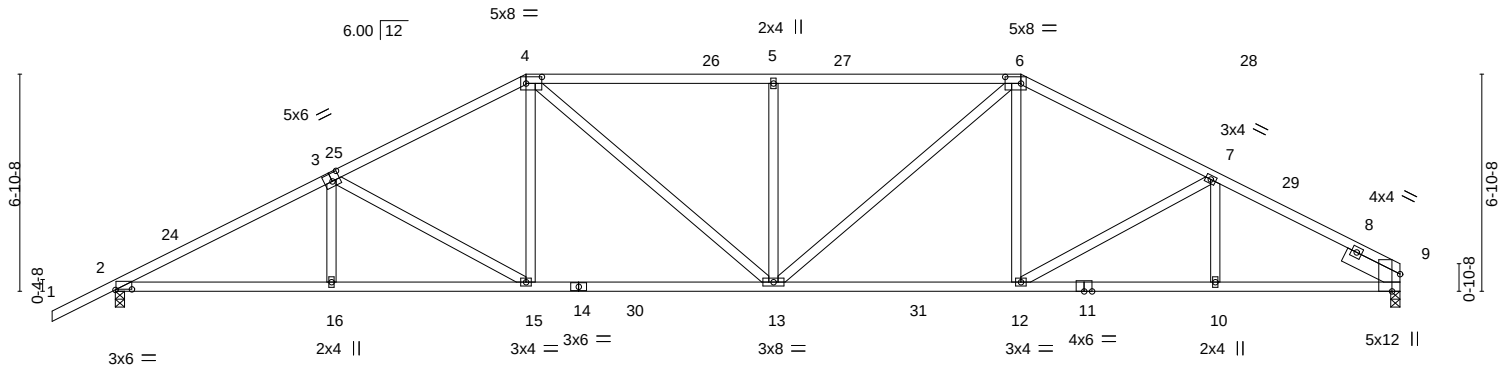
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T08	Hip	1	1	T29057877
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:47 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-p8nfyehmh86gQB2YCAhAp3uR4xu5xJq_ZQByyKyPwEo

-2-0-0	6-10-2	13-0-0	20-10-0	28-8-0	34-9-13	40-8-0
2-0-0	6-10-2	6-1-14	7-10-0	7-10-0	6-1-14	5-10-3

Scale = 1:72.9



6-10-2	13-0-0	20-10-0	28-8-0	34-9-13	40-8-0
6-10-2	6-1-14	7-10-0	7-10-0	6-1-14	5-10-3

Plate Offsets (X,Y)-- [2:0-6-4,0-0-3], [3:0-3-0,0-3-0], [4:0-6-0,0-2-8], [6:0-6-0,0-2-8], [9:0-6-9,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	0.92	Vert(LL)	-0.29	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.51	13-15	>962	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 221 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 6-9: 2x4 SP M 31
BOT CHORD	2x4 SP No.2 *Except* 9-11: 2x4 SP M 31
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 7-8-15 oc bracing.

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=136(LC 12)
Max Uplift 9=-319(LC 13), 2=-371(LC 12)
Max Grav 9=1653(LC 2), 2=1743(LC 2)

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

TOP CHORD	2-3=-3147/603, 3-4=-2609/518, 4-5=-2648/566, 5-6=-2648/566, 6-7=-2495/505, 7-9=-2722/534
BOT CHORD	2-16=-575/2763, 15-16=-575/2765, 13-15=-385/2286, 12-13=-309/2202, 10-12=-409/2353, 9-10=-409/2353
WEBS	3-16=0/253, 3-15=-573/218, 4-15=-63/565, 4-13=-182/573, 5-13=-483/236, 6-13=-192/671, 6-12=-36/432

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-0-13, Interior(1) 2-0-13 to 13-0-0, Exterior(2R) 13-0-0 to 18-9-0, Interior(1) 18-9-0 to 28-8-0, Exterior(2R) 28-8-0 to 34-5-0, Interior(1) 34-5-0 to 40-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 9 and 371 lb uplift at joint 2.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T09	Hip	1	1	T29057878
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:48 2022 Page 1
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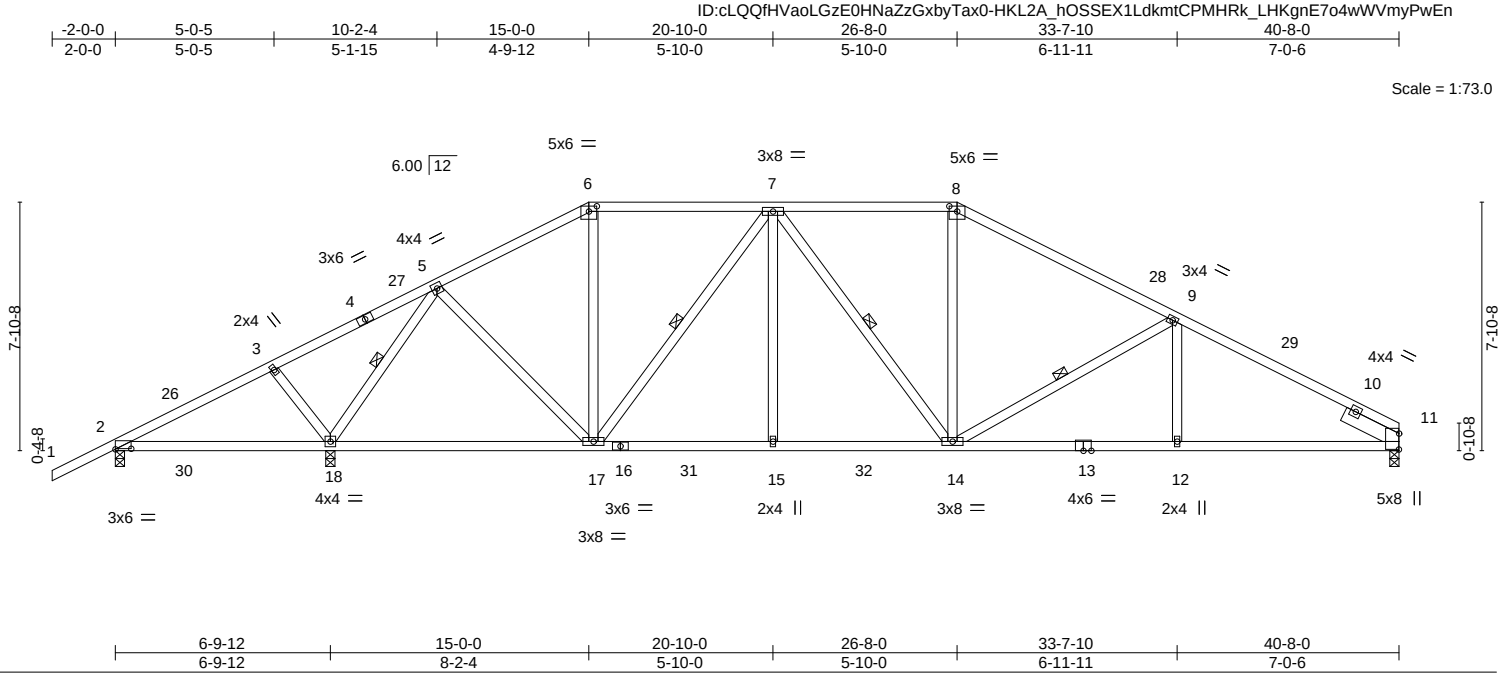

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [6:0-3-0,0-2-0], [8:0-3-0,0-2-0], [11:0-6-1,0-0-1]

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	0.39	Vert(LL)	0.10	18-25	>809	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.28	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 234 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP M 31
BOT CHORD	2x4 SP No.2 *Except* 11-13: 2x4 SP M 31
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-18.
WEBS	1 Row at midpt 5-18, 7-17, 7-14, 9-14

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 18=0-3-8
Max Horz 2=151(LC 12)
Max Uplift 11=-278(LC 13), 2=-125(LC 24), 18=-392(LC 12)
Max Grav 11=1302(LC 2), 2=124(LC 23), 18=2059(LC 2)

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

TOP CHORD	2-3=-106/603, 3-5=-117/747, 5-6=-1113/286, 6-7=-954/284, 7-8=-1418/388, 8-9=-1645/384, 9-11=-2082/456
BOT CHORD	2-18=-509/151, 17-18=-98/416, 15-17=-176/1379, 14-15=-176/1379, 12-14=-332/1797, 11-12=-332/1797
WEBS	3-18=-271/163, 5-18=-1883/369, 5-17=-89/796, 6-17=-59/284, 7-17=-742/182, 7-15=0/286, 8-14=-46/431, 9-14=-469/215

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-0-13, Interior(1) 2-0-13 to 15-0-0, Exterior(2R) 15-0-0 to 20-10-0, Interior(1) 20-10-0 to 26-8-0, Exterior(2R) 26-8-0 to 32-5-0, Interior(1) 32-5-0 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 11, 125 lb uplift at joint 2 and 392 lb uplift at joint 18.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T10	Hip	1	1	T29057879
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:50 2022 Page 1
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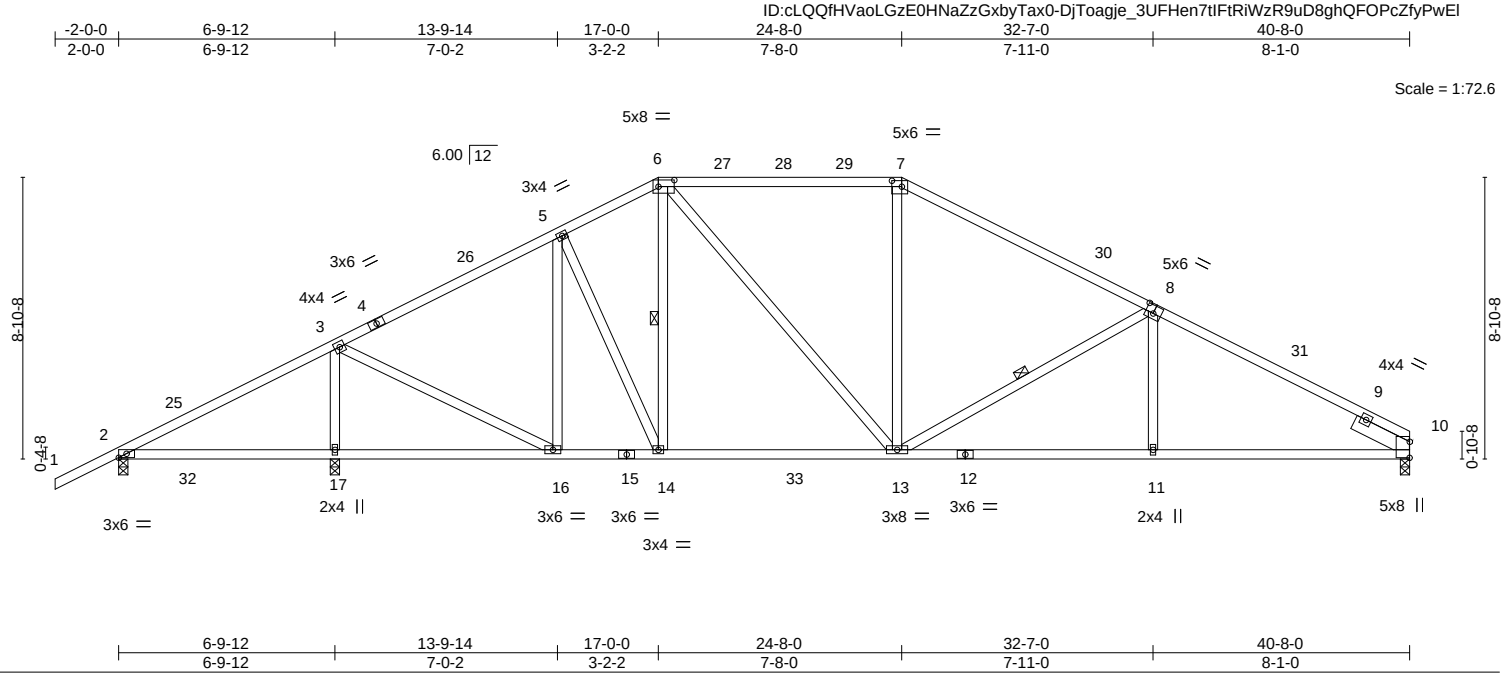

Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [7:0-3-12,0-2-4], [8:0-3-0,0-3-0], [10:0-6-1,0-0-1]

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	0.84	Vert(LL)	0.12	17-20	>685	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.32	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 233 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 7-8,8-10: 2x4 SP M 31
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS	1 Row at midpt 6-14, 8-13

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 10=0-3-8
Max Horz 2=166(LC 12)
Max Uplift 2=-88(LC 8), 17=-371(LC 12), 10=-281(LC 13)
Max Grav 2=211(LC 23), 17=1928(LC 2), 10=1310(LC 2)

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

TOP CHORD	2-3=-102/487, 3-5=-1126/289, 5-6=-1207/358, 6-7=-1306/376, 7-8=-1534/373, 8-10=-2082/460
BOT CHORD	2-17=-365/116, 16-17=-365/116, 14-16=-148/938, 13-14=-119/1048, 11-13=-327/1798, 10-11=-328/1794
WEBS	3-17=-1636/402, 3-16=-167/1446, 5-16=-500/126, 5-14=-60/343, 6-13=-141/446, 7-13=-11/340, 8-13=-589/260, 8-11=0/288

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-0-13, Interior(1) 2-0-13 to 17-0-0, Exterior(2R) 17-0-0 to 22-9-0, Interior(1) 22-9-0 to 24-8-0, Exterior(2R) 24-8-0 to 30-5-0, Interior(1) 30-5-0 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2, 371 lb uplift at joint 17 and 281 lb uplift at joint 10.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T11	Hip	1	1	T29057880
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:51 2022 Page 1
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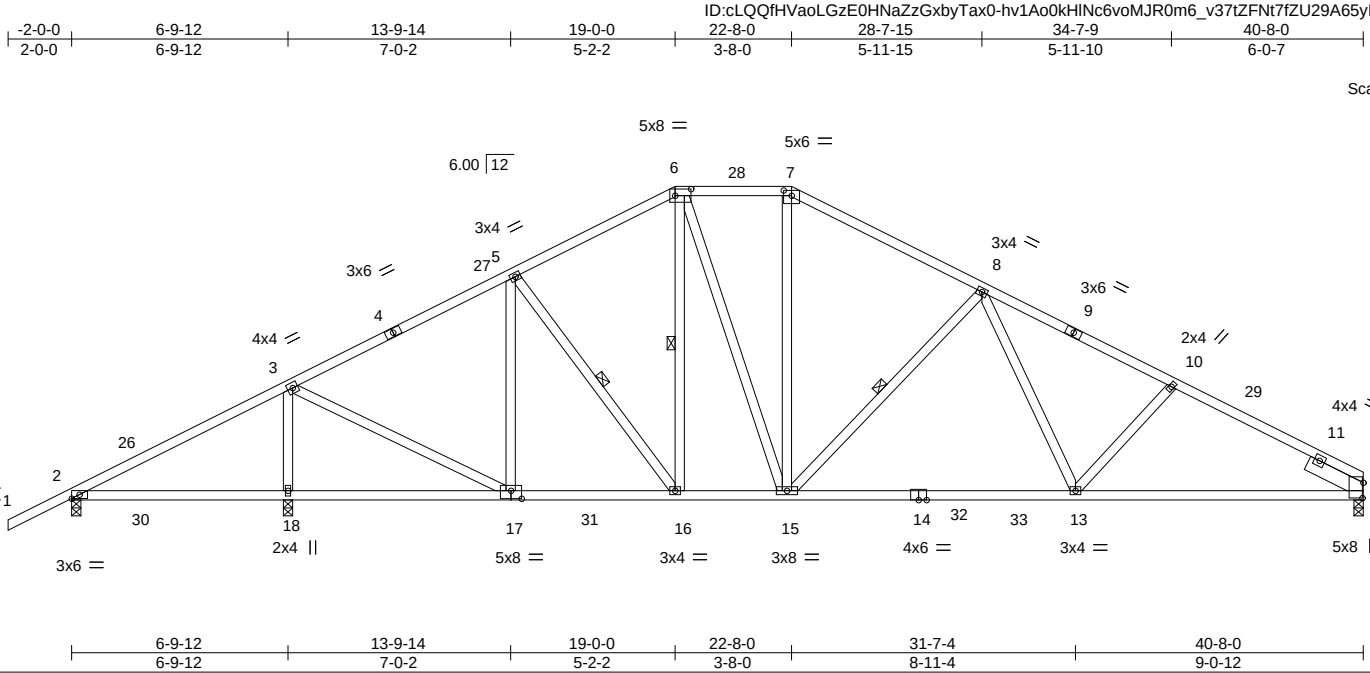

Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [7:0-3-0,0-2-0], [12:0-5-13,0-0-5], [17:0-4-0,0-3-0]

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	0.93	Vert(LL)	0.12	18-21	>672	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.47	13-15	>857	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 246 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	12-14: 2x4 SP M 31
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-9-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 5-16, 6-16, 8-15

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 12=0-3-8
Max Horz 2=181(LC 12)
Max Uplift 2=-88(LC 8), 18=-384(LC 12), 12=-274(LC 13)
Max Grav 2=222(LC 23), 18=1950(LC 2), 12=1327(LC 2)

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

TOP CHORD	2-3=-134/525, 3-5=-1138/272, 5-6=-1205/345, 6-7=-1155/350, 7-8=-1355/357, 8-10=-1985/442, 10-12=-2116/461
BOT CHORD	2-18=-406/157, 17-18=-406/157, 16-17=-151/951, 15-16=-96/1023, 13-15=-225/1559, 12-13=-341/1826
WEBS	3-18=-1670/413, 3-17=-186/1493, 5-17=-469/136, 6-15=-124/451, 7-15=-63/383, 8-15=-606/262, 8-13=-65/467

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-0-13, Interior(1) 2-0-13 to 19-0-0, Exterior(2E) 19-0-0 to 22-8-0, Exterior(2R) 22-8-0 to 28-7-15, Interior(1) 28-7-15 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2, 384 lb uplift at joint 18 and 274 lb uplift at joint 12.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T13	Common	1	1	T29057881
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:53 2022 Page 1
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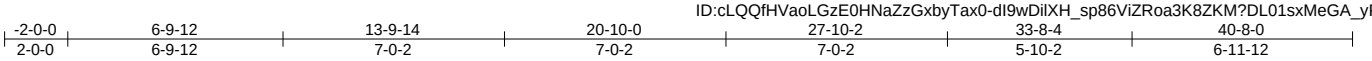

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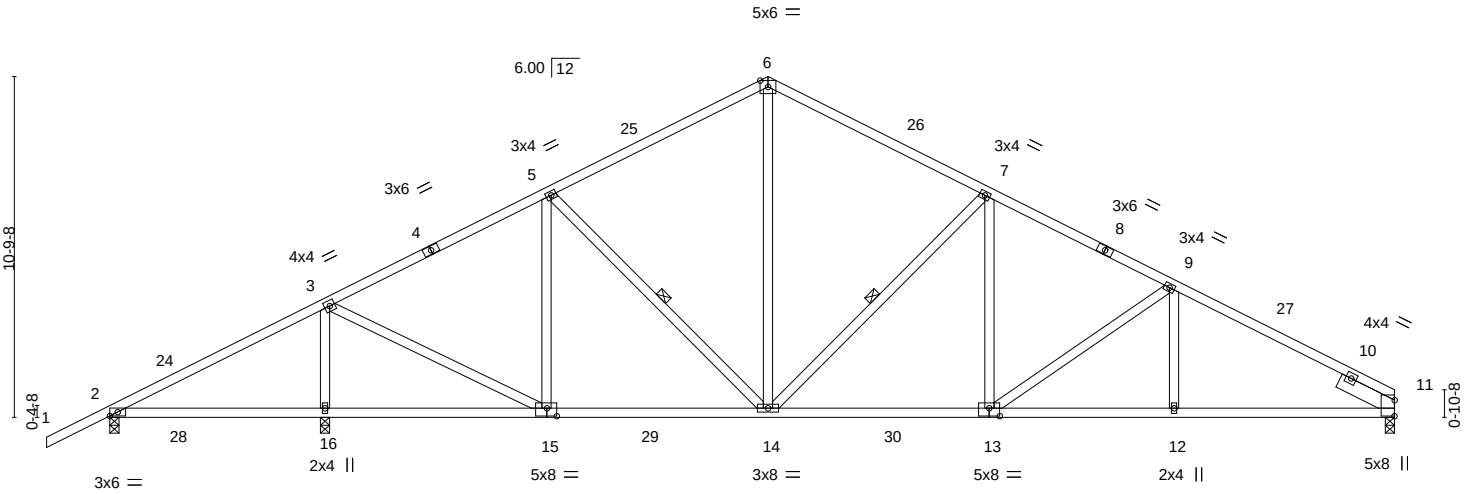

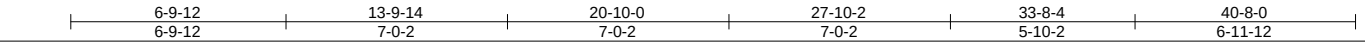

Plate Offsets (X,Y)-- [11:0-6-1,0-0-1], [13:0-4-0,0-3-0], [15:0-3-12,0-3-0]

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	0.55	Vert(LL)	0.12	16-19	>661	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.24	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 231 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 8-11: 2x4 SP M 31
BOT CHORD	2x4 SP No.2 *Except* 11-13: 2x4 SP M 31
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-9 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-14, 7-14

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 11=0-3-8
Max Horz 2=194(LC 12)
Max Uplift 2=-103(LC 8), 16=-376(LC 12), 11=-273(LC 13)
Max Grav 2=231(LC 23), 16=1955(LC 2), 11=1325(LC 2)

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

TOP CHORD	2-3=-128/542, 3-5=-1157/279, 5-6=-1222/348, 6-7=-1223/352, 7-9=-1770/400, 9-11=-2103/441
BOT CHORD	2-16=-419/147, 15-16=-419/147, 14-15=-168/982, 13-14=-200/1555, 12-13=-315/1812, 11-12=-315/1812
WEBS	3-16=-1678/404, 3-15=-186/1514, 5-15=-463/130, 6-14=-159/743, 7-14=-757/281, 7-13=-53/470, 9-13=-330/163

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-0-13, Interior(1) 2-0-13 to 20-10-0, Exterior(2R) 20-10-0 to 24-10-13, Interior(1) 24-10-13 to 40-8-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2, 376 lb uplift at joint 16 and 273 lb uplift at joint 11.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T14	Common	1	1	T29057882
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:54 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-5UiJQ2m91I?gmG4u68JpbYgkimNN4Ww?A0NqiQyPwEh

-2-0-0	6-9-12	13-9-14	20-10-0	27-10-2	33-8-4	41-8-0	43-8-0
2-0-0	6-9-12	7-0-2	7-0-2	7-0-2	5-10-2	7-11-12	2-0-0

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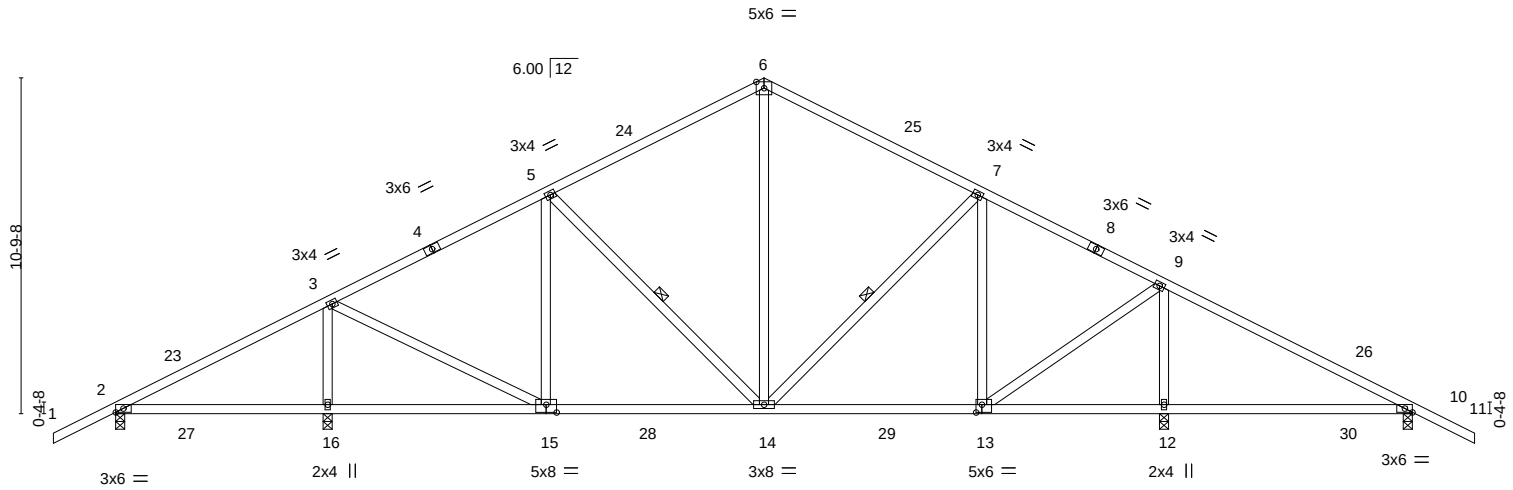

6-9-12	13-9-14	20-10-0	27-10-2	33-8-4	41-8-0
6-9-12	7-0-2	7-0-2	7-0-2	5-10-2	7-11-12

Plate Offsets (X,Y)-- [10:0-2-15,Edge], [13:0-2-4,0-3-0], [15:0-4-0,0-3-0]

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	0.57	Vert(LL)	0.23	12-22	>417	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.24	12-22	>398	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 233 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 5-5-9 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-14, 7-14

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=170(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-110(LC 8), 16=-311(LC 12), 12=-260(LC 13), 10=-134(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=336(LC 23), 16=1431(LC 2), 12=1468(LC 2), 10=396(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-983/263, 5-6=-857/303, 6-7=-855/304, 7-9=-859/262
BOT CHORD 14-15=-130/851, 13-14=-40/711
WEBS 3-16=-1159/340, 3-15=-115/937, 6-14=-100/409, 7-13=-325/90, 9-13=-88/868, 9-12=-1182/280

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-2-0, Interior(1) 2-2-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 43-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 311 lb uplift at joint 16, 260 lb uplift at joint 12 and 134 lb uplift at joint 10.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T15	Roof Special	1	1	T29057883
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:56 2022 Page 1
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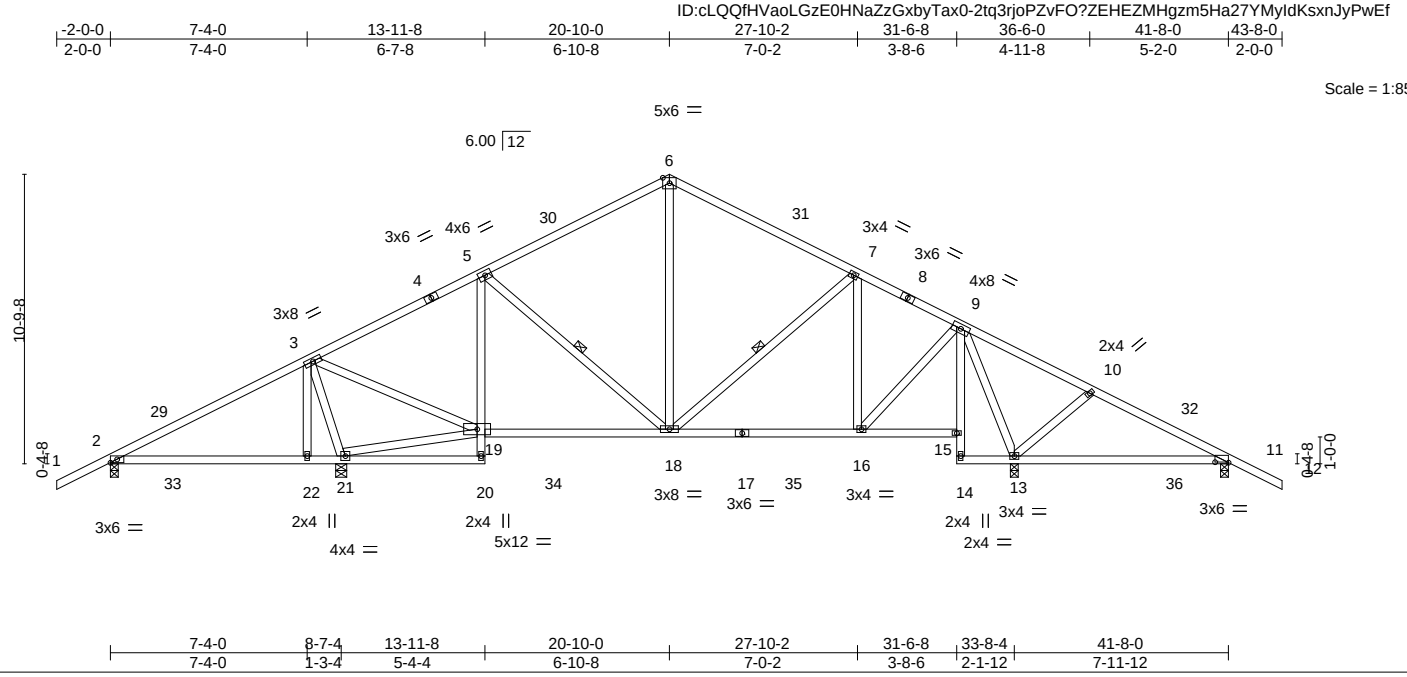

Plate Offsets (X,Y)-- [11:0-6-0,0-0-3]

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	0.50	Vert(LL)	0.14	13-28	>683	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16	22-25	>631	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 253 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	5-20,9-14: 2x4 SP No.3
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 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-18, 7-18

REACTIONS. All bearings 0-3-8 except (jt=length) 21=0-4-15.
(lb) - Max Horz 2=-170(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-121(LC 8), 11=-131(LC 13), 21=-306(LC 12), 13=-260(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=393(LC 23), 21=1389(LC 2), 13=1619(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-737/218, 5-6=-721/256, 6-7=-719/264, 7-9=-645/231, 9-10=0/539, 10-11=0/365
BOT CHORD 5-19=-328/111, 18-19=-103/657, 16-18=-14/558
WEBS 3-22=-396/246, 3-21=-1321/609, 19-21=-361/150, 3-19=-165/1056, 6-18=-77/319, 7-16=-373/110, 9-16=-99/767, 9-13=-1240/196, 10-13=-302/187

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-2-0, Interior(1) 2-2-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 43-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2, 131 lb uplift at joint 11, 306 lb uplift at joint 21 and 260 lb uplift at joint 13.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T16	Roof Special	1	1	T29057884
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:57 2022 Page 1
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-2-0-0	7-4-0	13-11-8	20-10-0	26-2-4	31-6-8	36-6-0	41-8-0	43-8-0
2-0-0	7-4-0	6-7-8	6-10-8	5-4-4	5-4-4	4-11-8	5-2-0	2-0-0

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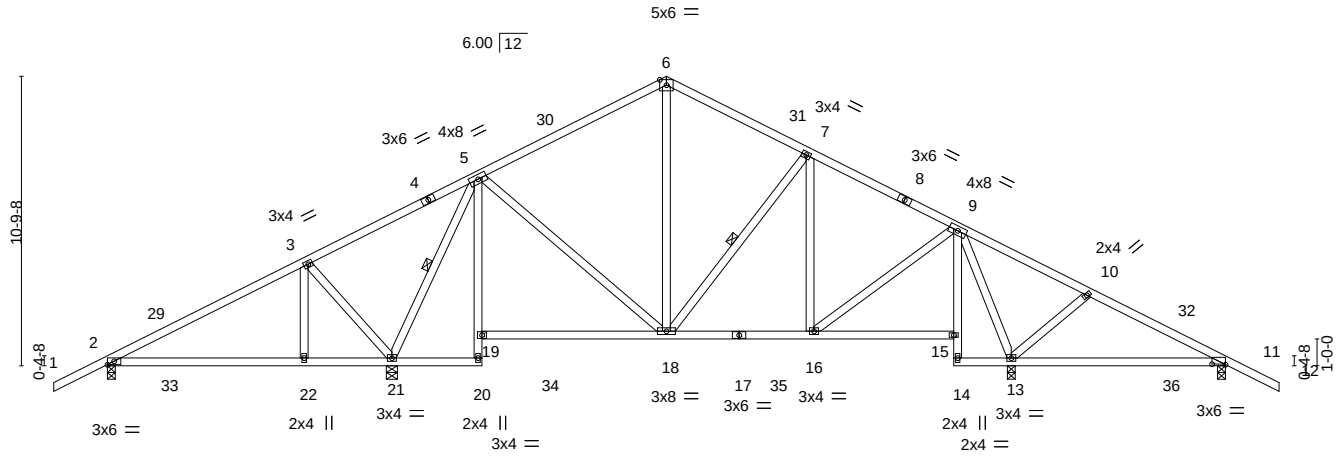

7-4-0	10-7-4	13-11-8	20-10-0	26-2-4	31-6-8	33-8-4	41-8-0
7-4-0	3-3-4	3-4-4	6-10-8	5-4-4	5-4-4	2-1-12	7-11-12

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

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	0.54	Vert(LL)	0.14	22-25	>880	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	0.12	13-28	>813	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-20,9-14: 2x4 SP No.3
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 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-21, 7-18

REACTIONS. All bearings 0-3-8 except (jt=length) 21=0-4-15.
(lb) - Max Horz 2=-170(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-173(LC 8), 11=-138(LC 13), 21=-328(LC 12), 13=-265(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=348(LC 23), 21=1628(LC 2), 13=1431(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-76/360, 3-5=-44/705, 5-6=-493/275, 6-7=-472/262, 7-9=-558/262, 9-10=0/497, 10-11=0/331
BOT CHORD 16-18=0/453
WEBS 3-22=-311/271, 3-21=-545/470, 5-21=-1294/217, 5-18=0/373, 9-16=-43/542, 9-13=-1063/211, 10-13=-286/179

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-2-0, Interior(1) 2-2-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 43-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2, 138 lb uplift at joint 11, 328 lb uplift at joint 21 and 265 lb uplift at joint 13.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T17	Roof Special	1	1	T29057885
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:01:59 2022 Page 1
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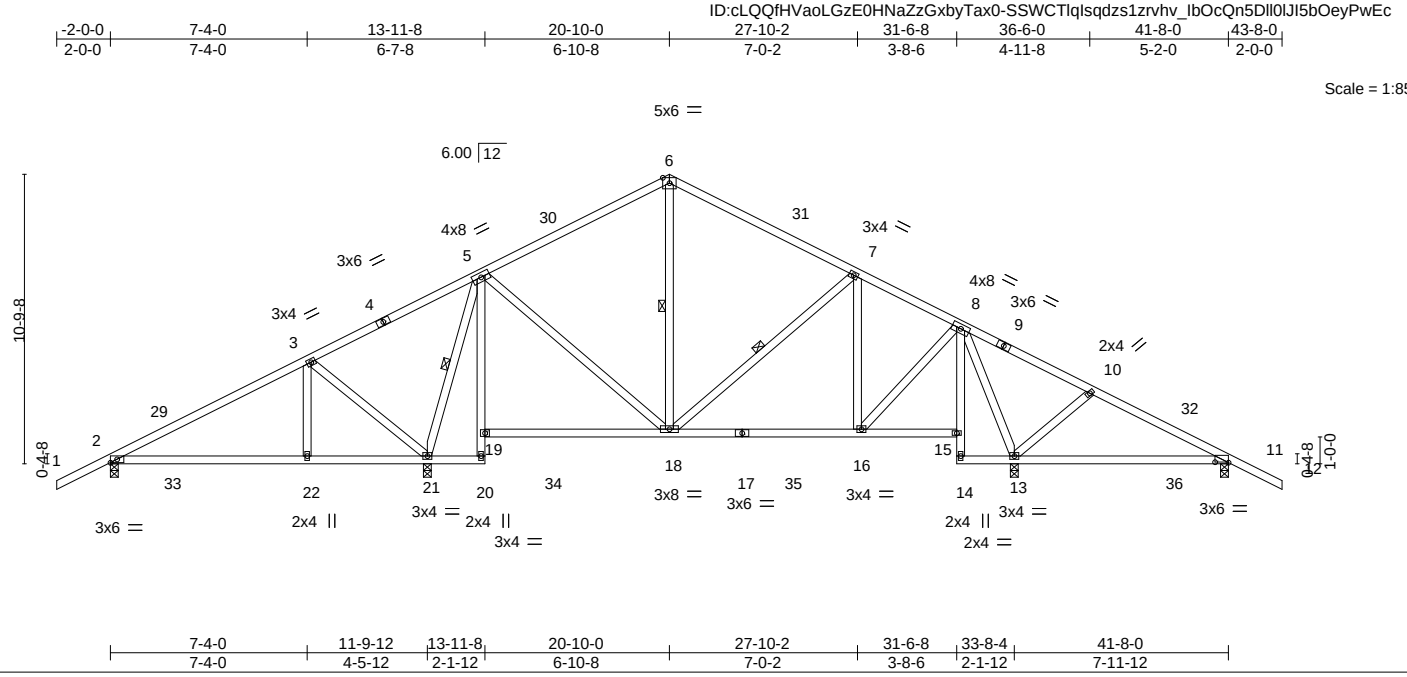

Plate Offsets (X,Y)-- [11:0-6-0,0-0-3]

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)	0.15	22-25	>974	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	0.12	13-28	>817	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 248 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-20,8-14: 2x4 SP No.3
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 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-21, 6-18, 7-18

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=170(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-172(LC 8), 11=-134(LC 13), 21=-309(LC 12), 13=-271(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=438(LC 23), 11=259(LC 24), 21=1556(LC 2), 13=1367(LC 2)

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

TOP CHORD	2-3=-271/440, 3-5=-23/563, 5-6=-461/273, 6-7=-459/249, 7-8=-497/252, 8-10=0/435, 10-11=0/267
BOT CHORD	2-22=-301/178, 21-22=-301/178, 16-18=0/425
WEBS	3-22=-312/278, 3-21=-573/497, 5-21=-1153/202, 5-18=0/458, 7-16=-253/90, 8-16=-75/579, 8-13=-996/211, 10-13=-300/187

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-2-0, Interior(1) 2-2-0 to 20-10-0, Exterior(2R) 20-10-0 to 25-0-0, Interior(1) 25-0-0 to 43-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2, 134 lb uplift at joint 11, 309 lb uplift at joint 21 and 271 lb uplift at joint 13.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T18	Roof Special	2	1	T29057886
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:00 2022 Page 1
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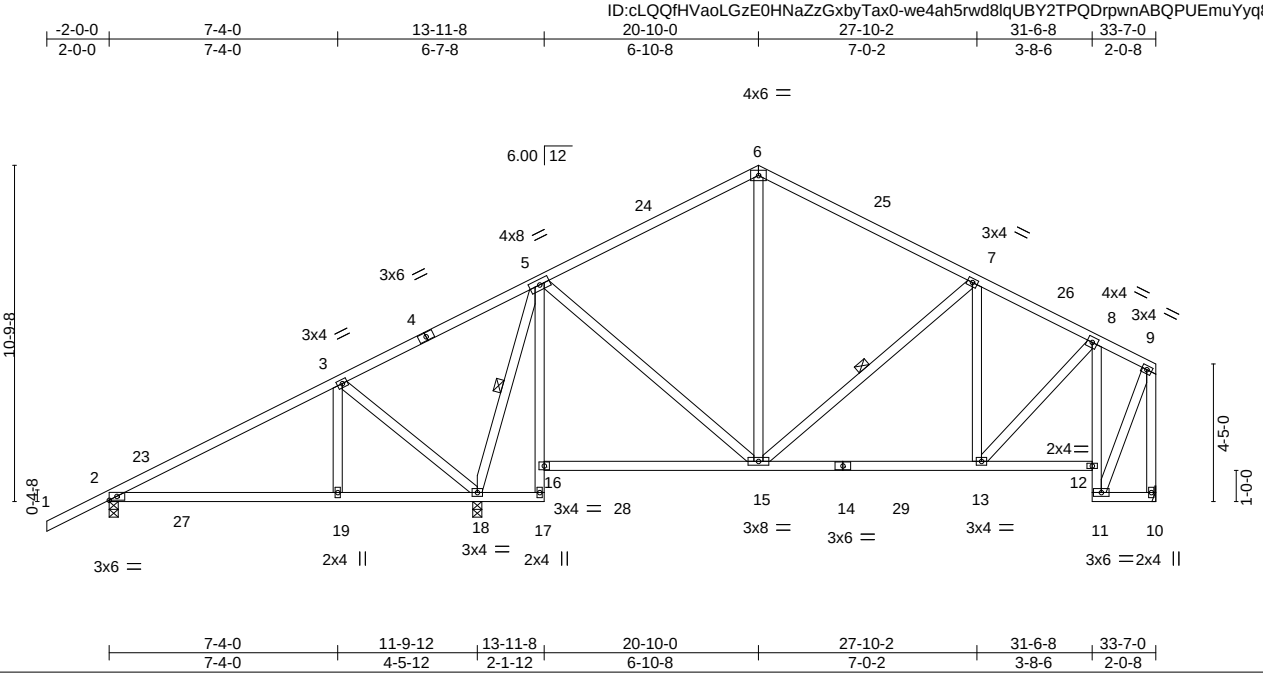

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.15	19-22	>969	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.17	19-22	>848	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 219 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-17,8-11: 2x4 SP No.3
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 5-18, 7-15

REACTIONS. (size) 2=0-3-8, 10=Mechanical, 18=0-3-8
Max Horz 2=265(LC 12)
Max Uplift 2=-123(LC 8), 10=-171(LC 13), 18=-369(LC 12)
Max Grav 2=429(LC 23), 10=786(LC 2), 18=1642(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-253/282, 3-5=-125/495, 5-6=-511/206, 6-7=-509/182, 7-8=-655/179, 8-9=-320/81, 9-10=-804/185
BOT CHORD 2-19=-307/161, 18-19=-307/161, 13-15=-105/578, 12-13=-59/293, 11-12=-521/117, 8-12=-501/127
WEBS 3-19=-314/277, 3-18=-573/502, 5-18=-1222/270, 5-15=-44/526, 7-15=-273/152, 8-13=-68/414, 9-11=-131/651

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-4-5, Interior(1) 1-4-5 to 20-10-0, Exterior(2R) 20-10-0 to 24-2-5, Interior(1) 24-2-5 to 33-5-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 123 lb uplift at joint 2, 171 lb uplift at joint 10 and 369 lb uplift at joint 18.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T19	Hip	1	1	T29057887
					Job Reference (optional)

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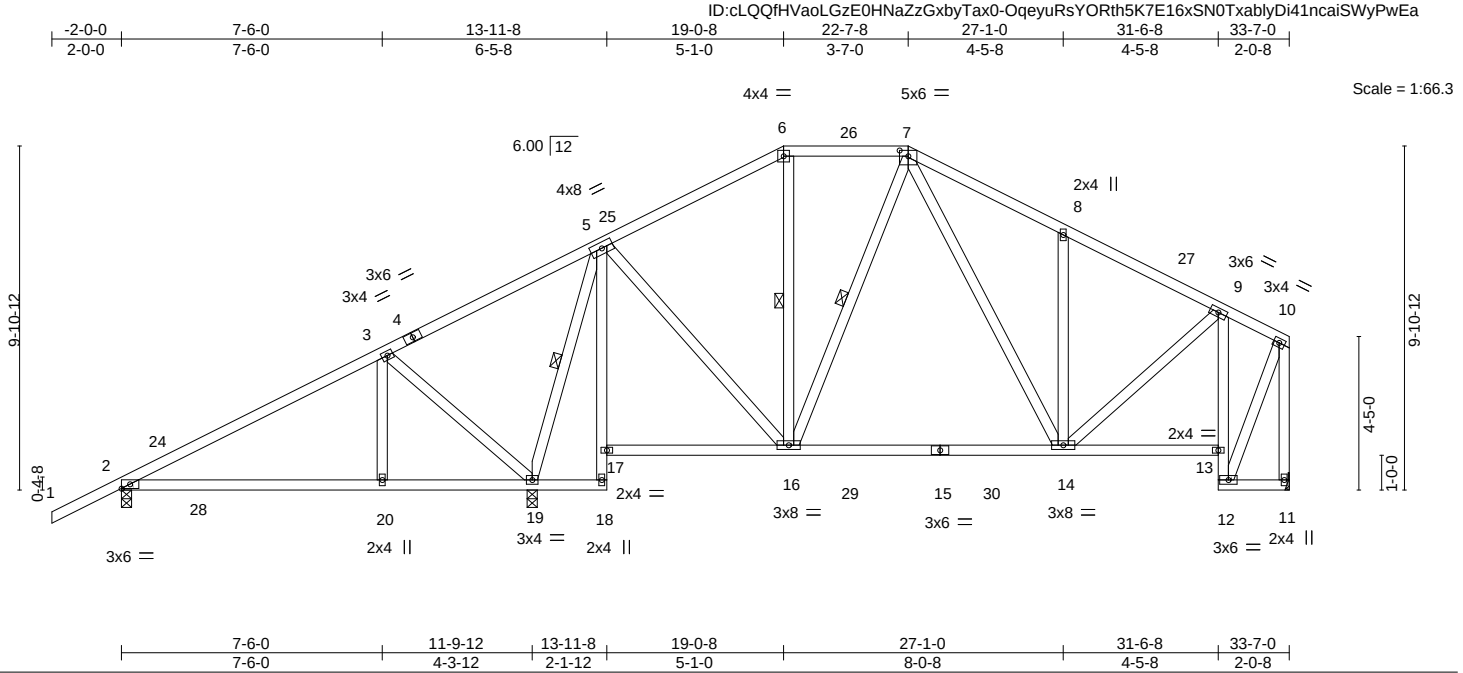

7-6-0	11-9-12	13-11-8	19-0-8	27-1-0	31-6-8	33-7-0
7-6-0	4-3-12	2-1-12	5-1-0	8-0-8	4-5-8	2-0-8

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

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	0.53	Vert(LL)	0.16	20-23	>887	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.24	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-18,9-12: 2x4 SP No.3
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 5-19, 6-16, 7-16

REACTIONS. (size) 2=0-3-8, 11=Mechanical, 19=0-3-8
Max Horz 2=252(LC 12)
Max Uplift 2=-111(LC 8), 11=-172(LC 13), 19=-370(LC 12)
Max Grav 2=434(LC 23), 11=801(LC 2), 19=1582(LC 2)

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

TOP CHORD	2-3=-256/265, 3-5=-115/418, 5-6=-501/182, 6-7=-395/178, 7-8=-715/278, 8-9=-707/183, 9-10=-325/81, 10-11=-823/189
BOT CHORD	2-20=-294/163, 19-20=-294/163, 14-16=-35/451, 13-14=-72/315, 12-13=-556/137, 9-13=-530/148
WEBS	3-20=-319/282, 3-19=-580/510, 5-19=-1152/260, 5-16=-59/569, 7-14=-134/329, 8-14=-270/173, 9-14=-30/373, 10-12=-155/693

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-4-5, Interior(1) 1-4-5 to 19-0-8, Exterior(2E) 19-0-8 to 22-7-8, Exterior(2R) 22-7-8 to 27-1-0, Interior(1) 27-1-0 to 33-5-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2, 172 lb uplift at joint 11 and 370 lb uplift at joint 19.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T20	Hip	1	1	T29057888
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:03 2022 Page 1
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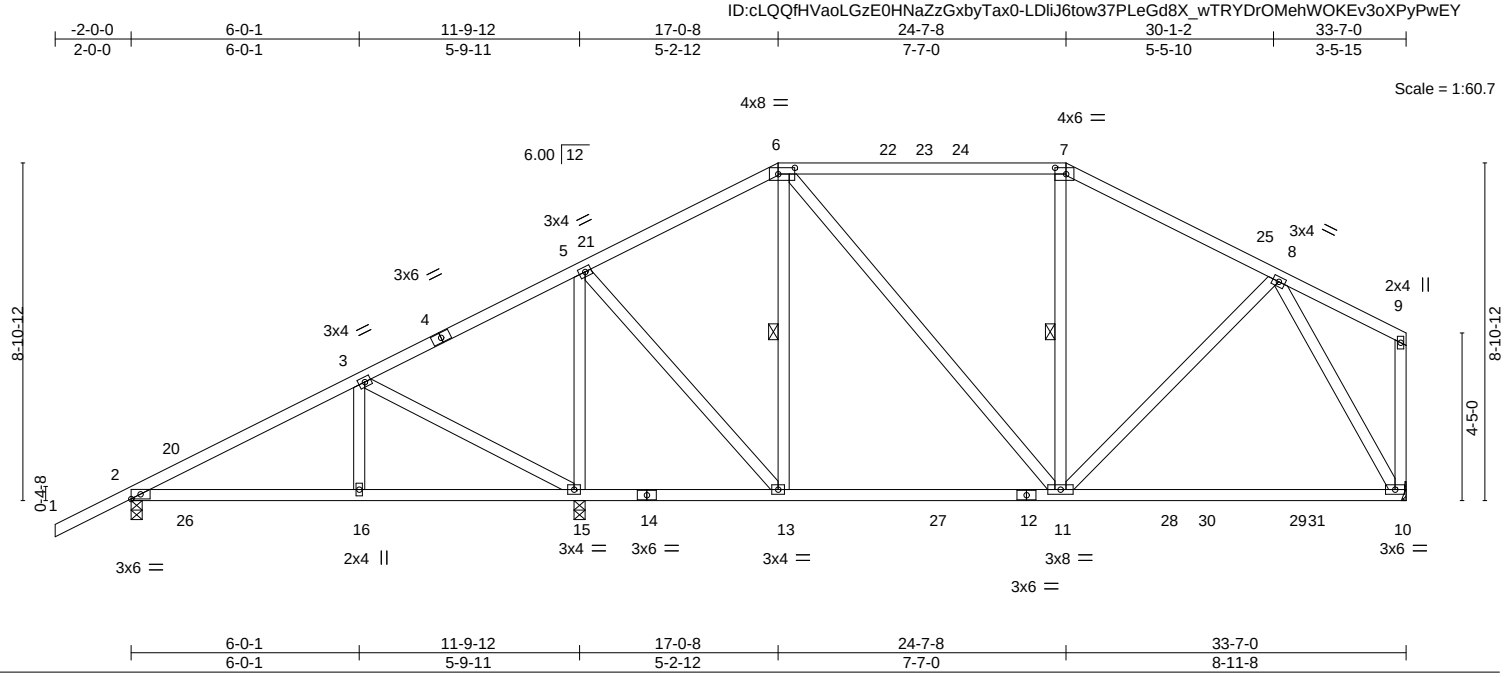

Plate Offsets (X,Y)-- [6:0-5-4,0-2-0], [7:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.25	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.42	10-11	>617	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 209 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-13, 7-11

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=Mechanical
Max Horz 2=237(LC 12)
Max Uplift 2=-103(LC 9), 15=-340(LC 12), 10=-175(LC 13)
Max Grav 2=495(LC 23), 15=1471(LC 2), 10=872(LC 2)

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

TOP CHORD	2-3=-465/286, 5-6=-479/150, 6-7=-558/203, 7-8=-677/187
BOT CHORD	2-16=-327/381, 15-16=-327/381, 11-13=-46/377, 10-11=-91/390
WEBS	3-16=-293/252, 3-15=-552/506, 5-15=-1028/319, 5-13=-156/732, 6-13=-354/170, 6-11=-93/286, 8-11=-27/271, 8-10=-735/194

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-4-5, Interior(1) 1-4-5 to 17-0-8, Exterior(2R) 17-0-8 to 21-9-8, Interior(1) 21-9-8 to 24-7-8, Exterior(2R) 24-7-8 to 29-4-8, Interior(1) 29-4-8 to 33-5-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2, 340 lb uplift at joint 15 and 175 lb uplift at joint 10.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T21	Hip Girder	1	2	T29057889
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:04 2022 Page 1
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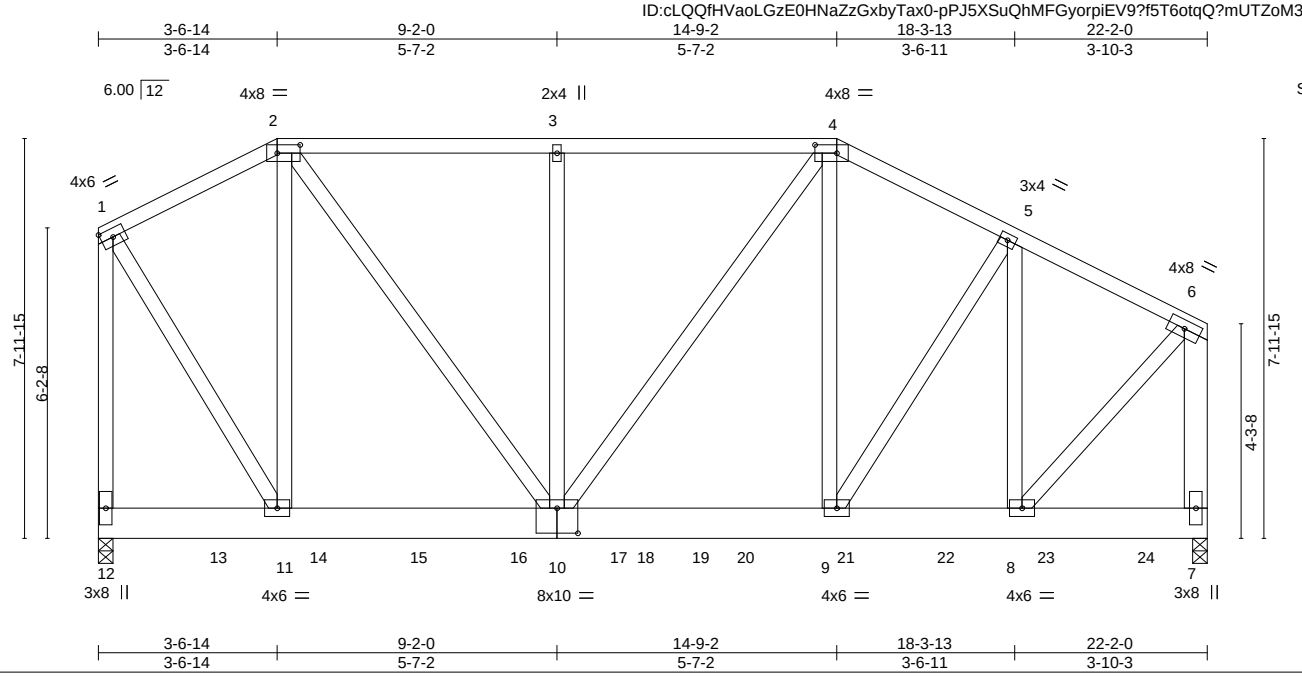

Plate Offsets (X,Y)-- [2:0-5-8,0-2-0], [4:0-5-4,0-2-0], [10:0-5-0,0-6-0]

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	0.45	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.09	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 424 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except* 6-7: 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) 12=0-3-8, 7=0-3-8
Max Horz 12=-90(LC 9)
Max Uplift 12=-1144(LC 8), 7=-1458(LC 9)
Max Grav 12=4119(LC 1), 7=5350(LC 1)

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

TOP CHORD	1-2=-1822/505, 2-3=-2939/830, 3-4=-2939/830, 4-5=-2977/882, 5-6=-2392/692, 1-12=-3461/937, 6-7=-3378/968
BOT CHORD	10-11=-415/1567, 9-10=-704/2635, 8-9=-583/2098
WEBS	2-11=-1279/367, 2-10=-648/2318, 3-10=-342/172, 4-10=-121/570, 4-9=-263/684, 5-9=-276/1009, 5-8=-1270/347, 1-11=-818/3019, 6-8=-837/3022

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: 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1144 lb uplift at joint 12 and 1458 lb uplift at joint 7.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 178 lb up at 0-1-12, 532 lb down and 217 lb up at 2-4-12, 532 lb down and 150 lb up at 4-4-12, 532 lb down and 150 lb up at 6-4-12, 532 lb down and 150 lb up at 8-4-12, 531 lb down and 150 lb up at 10-4-12, 531 lb down and 150 lb up at 10-11-4, 531 lb down and 150 lb up at 12-11-4, 531 lb down and 233 lb up at 14-11-4, 531 lb down and 202 lb up at 16-11-4, 531 lb down and 175 lb up at 18-11-4, and 531 lb down and 151 lb up at 20-11-4, and 1578 lb down and 384 lb up at 21-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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Date:

October 25,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-6=-54, 7-12=-20
   Concentrated Loads (lb)
   Vert: 12=-539(F) 7=-1472(B) 13=-532(F) 14=-532(F) 15=-532(F) 16=-532(F) 17=-531(F) 18=-531(F) 20=-531(F) 21=-531(F) 22=-531(F) 23=-531(F) 24=-531(F)

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T22	Half Hip Girder	1	1	T29057890
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:06 2022 Page 1
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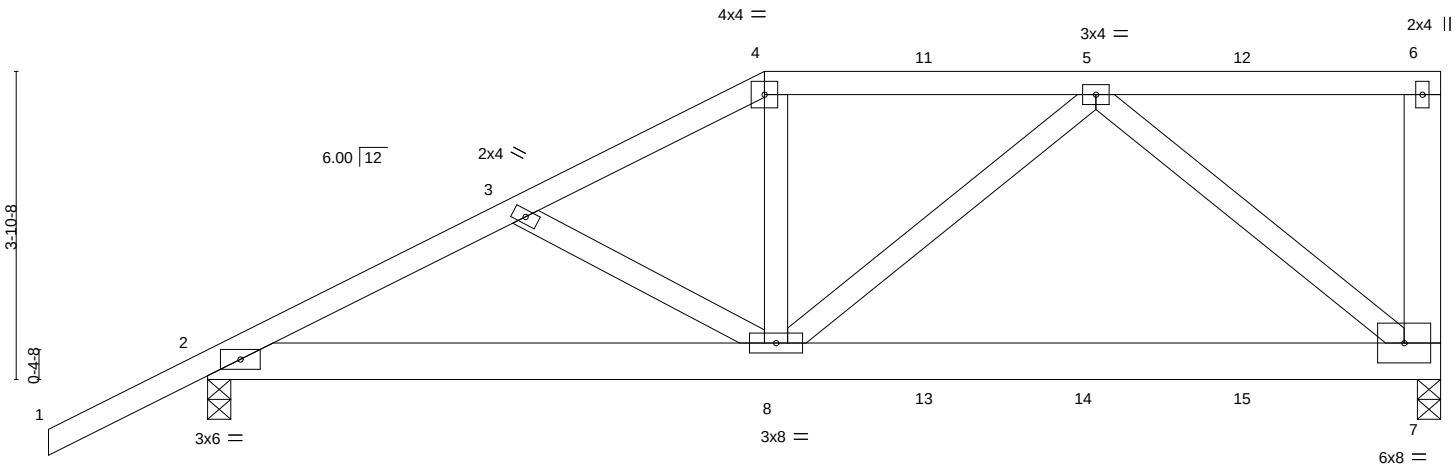

7-0-0 15-6-0
7-0-0 8-6-0

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	0.38	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.16	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 96 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=151(LC 23)
Max Uplift 2=-291(LC 8), 7=-356(LC 5)
Max Grav 2=1041(LC 1), 7=1316(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1746/462, 3-4=-1580/411, 4-5=-1394/390, 6-7=-263/136
BOT CHORD 2-8=-489/1527, 7-8=-335/1019
WEBS 4-8=-6/452, 5-8=-73/585, 5-7=-1265/440

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 2 and 356 lb uplift at joint 7.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 92 lb up at 7-0-0, 114 lb down and 92 lb up at 9-0-12, 106 lb down and 81 lb up at 11-0-12, and 106 lb down and 88 lb up at 13-0-12, and 128 lb down and 87 lb up at 15-3-4 on top chord, and 296 lb down and 92 lb up at 7-0-0, 87 lb down and 21 lb up at 9-0-12, 85 lb down at 11-0-12, and 85 lb down at 13-0-12, and 101 lb down at 15-3-4 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, 4-6=-54, 2-7=-20
Concentrated Loads (lb)
Vert: 4=-114(F) 6=-128(F) 8=-292(F) 5=-106(F) 7=-69(F) 11=-114(F) 12=-106(F) 13=-69(F) 14=-61(F) 15=-61(F)

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T23	Half Hip	1	1	T29057891
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:07 2022 Page 1
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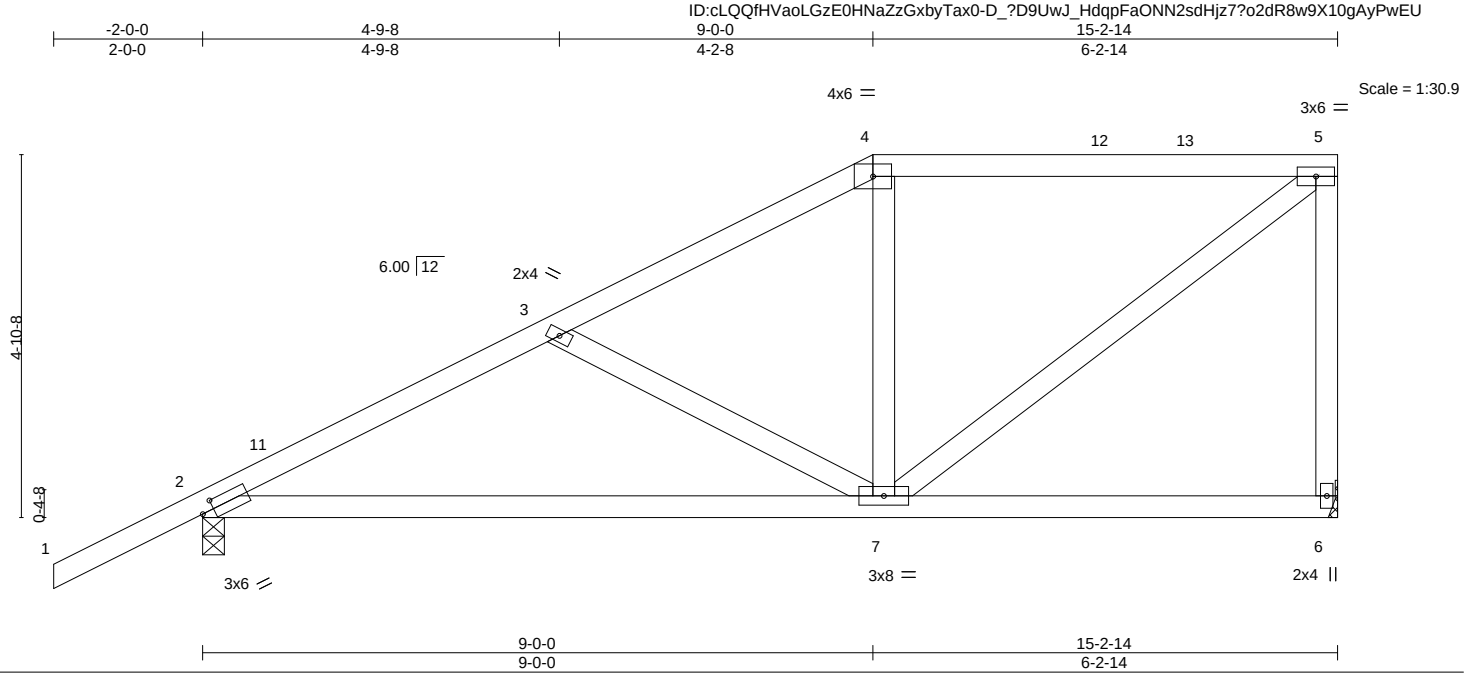

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8]

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	0.46	Vert(LL)	-0.13	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.27	7-10	>680	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 81 lb	FT = 20%

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

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

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=185(LC 12)
Max Uplift 6=-131(LC 12), 2=-168(LC 12)
Max Grav 6=551(LC 1), 2=674(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-839/214, 3-4=-581/135, 4-5=-468/156, 5-6=-507/201
BOT CHORD 2-7=-304/725
WEBS 3-7=-289/164, 5-7=-187/566

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 15-1-2 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) 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 6 and 168 lb uplift at joint 2.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T24	Half Hip	1	1	T29057892
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:07 2022 Page 1
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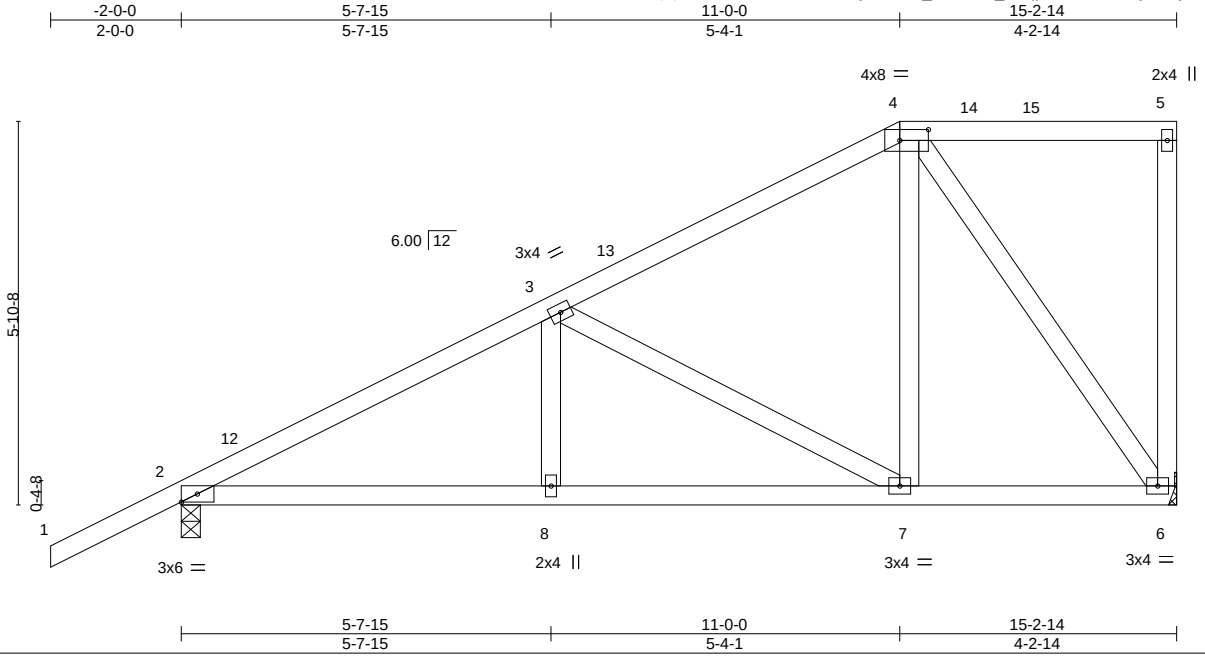

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.02	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.05	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 89 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=219(LC 12)
Max Uplift 2=-159(LC 12), 6=-155(LC 12)
Max Grav 2=674(LC 1), 6=551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-869/155, 3-4=-413/85
BOT CHORD 2-8=-273/728, 7-8=-273/728, 6-7=-119/313
WEBS 3-7=-478/190, 4-7=-56/370, 4-6=-519/198

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 15-1-2 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) 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 2 and 155 lb uplift at joint 6.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T25	Half Hip	1	1	T29057893
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:08 2022 Page 1
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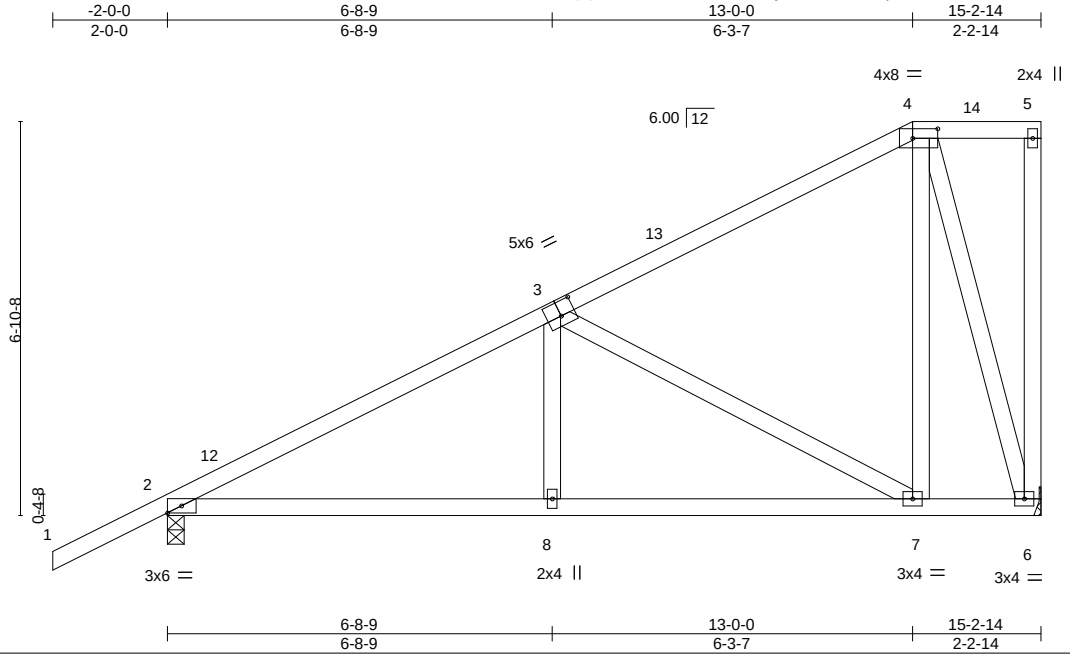

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.04	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.10	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/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

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

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=254(LC 12)
Max Uplift 2=-147(LC 12), 6=-182(LC 12)
Max Grav 2=674(LC 1), 6=551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-824/116, 3-4=-265/21
BOT CHORD 2-8=-259/678, 7-8=-260/674
WEBS 3-8=0/287, 3-7=-586/232, 4-7=-72/410, 4-6=-549/216

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2E) 13-0-0 to 15-1-2 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) 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2 and 182 lb uplift at joint 6.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T26	Half Hip	1	1	T29057894
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:09 2022 Page 1
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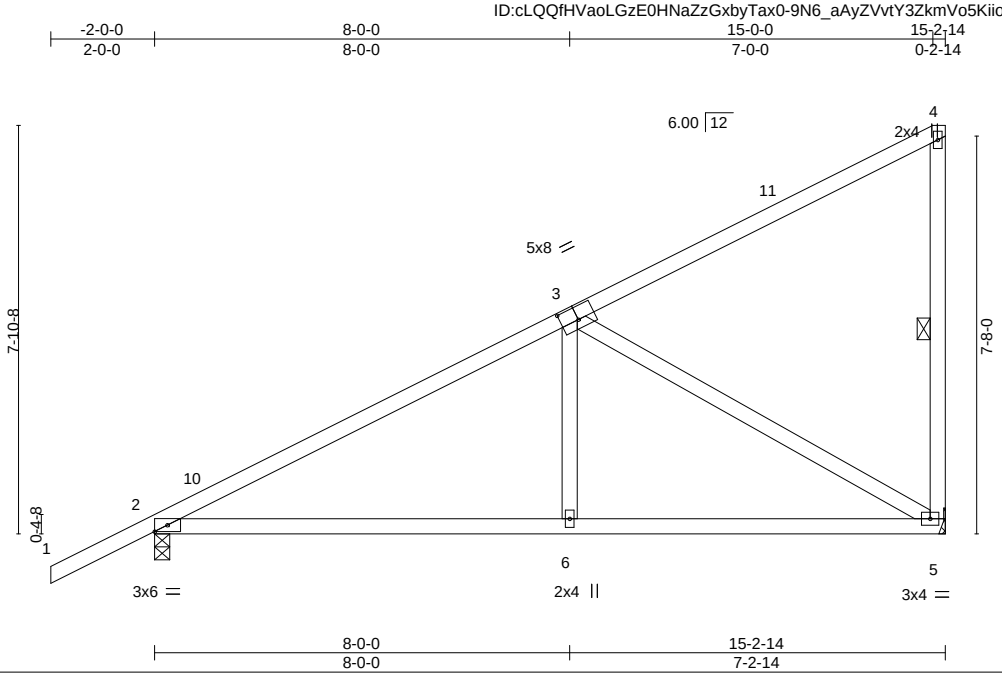

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0]

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	0.64	Vert(LL)	-0.08	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.19	6-9	>976	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 80 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 5-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=289(LC 12)
Max Uplift 2=-131(LC 12), 5=-213(LC 12)
Max Grav 2=674(LC 1), 5=551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-764/65
BOT CHORD 2-6=-237/613, 5-6=-238/608
WEBS 3-6=0/350, 3-5=-694/271

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-1-2 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 131 lb uplift at joint 2 and 213 lb uplift at joint 5.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T27	Jack-Closed	3	1	T29057895
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:10 2022 Page 1
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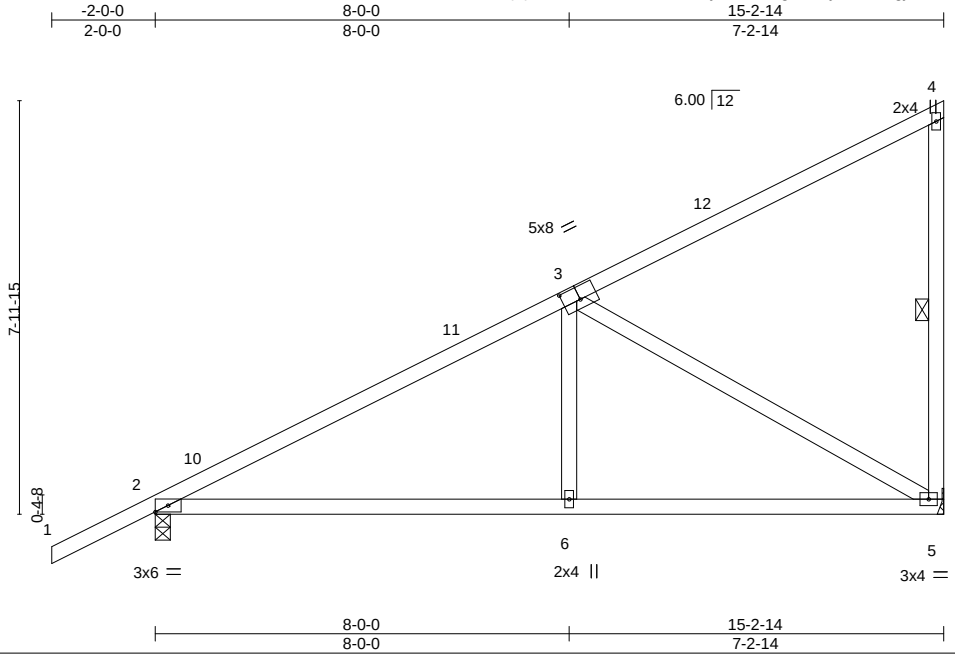

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0]

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	0.64	Vert(LL)	0.09	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.19	6-9	>973	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 80 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 5-9-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=242(LC 12)
Max Uplift 2=-119(LC 12), 5=-130(LC 12)
Max Grav 2=674(LC 1), 5=551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-762/36
BOT CHORD 2-6=-201/611, 5-6=-203/604
WEBS 3-6=0/351, 3-5=-692/230

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-1-2 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 119 lb uplift at joint 2 and 130 lb uplift at joint 5.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T28	Half Hip	1	1	T29057896
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:11 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-6mEk?szp1W8Gltt9cC7on7uh1dDFZC4W49?DpxyPwEQ

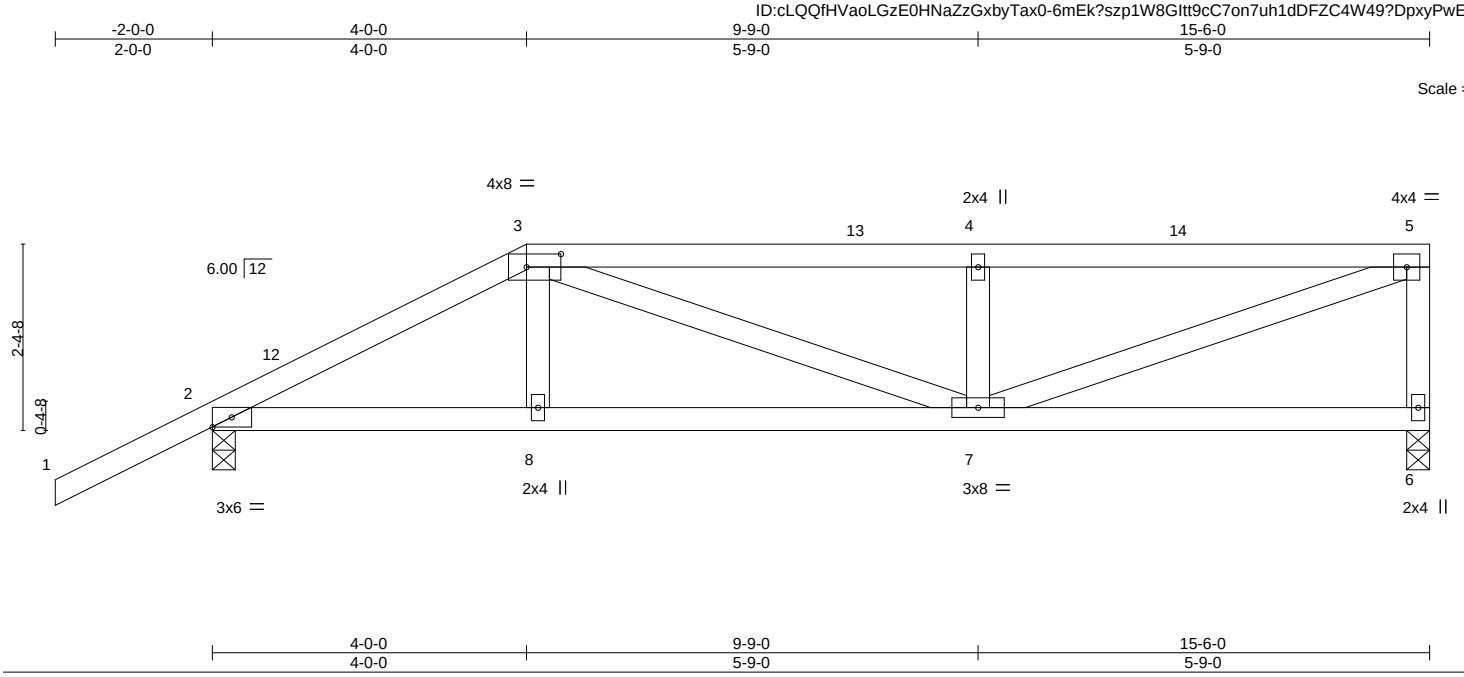

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 75 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 5-3-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=99(LC 12)
Max Uplift 6=-148(LC 9), 2=-179(LC 12)
Max Grav 6=561(LC 1), 2=683(LC 1)

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

TOP CHORD	2-3=-948/217, 3-4=-1054/278, 4-5=-1054/278, 5-6=-507/164
BOT CHORD	2-8=-223/807, 7-8=-221/814
WEBS	3-7=-120/308, 4-7=-349/171, 5-7=-284/1077

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 15-4-4 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 6 and 179 lb uplift at joint 2.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

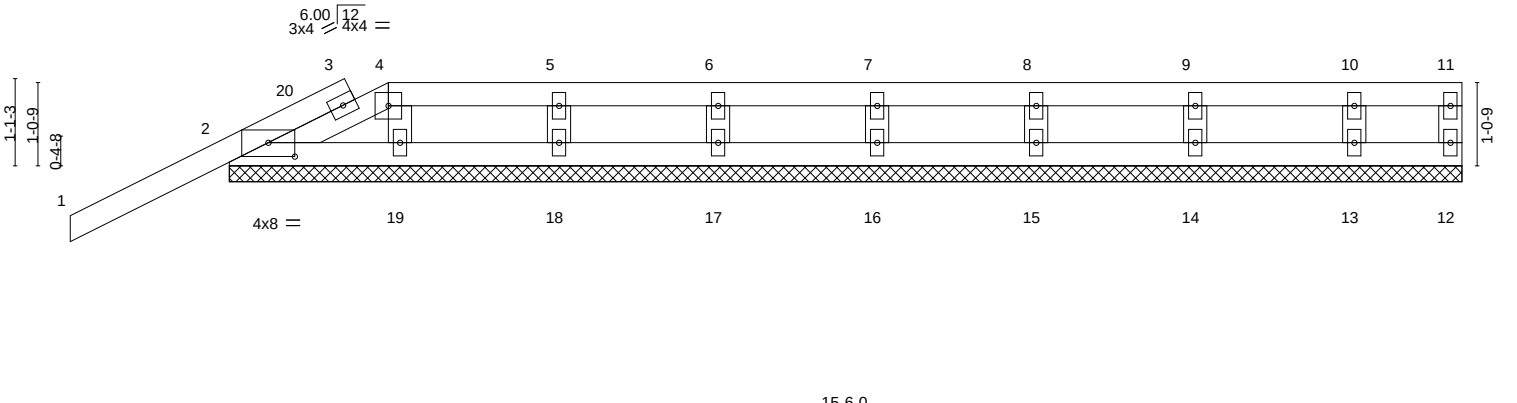
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T28G	GABLE COMMON	1	1	T29057897
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:12 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-ayo6CB_SoqG7w1SLAwe1KLQuR0eVIlKfJpknLNyPwEP

-2-0-0 2-0-0 15-6-0
2-0-0 2-0-0 13-6-0

Scale = 1:29.0



15-6-0
15-6-0

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

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	0.23	Vert(LL)	0.01	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 15-6-0.
(lb) - Max Horz 2=53(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 18, 17, 16, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 19, 18, 17, 16, 15, 14, 13

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 2-0-0, Corner(3R) 2-0-0 to 5-0-0, Exterior(2N) 5-0-0 to 15-4-4 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 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 18, 17, 16, 15, 14, 13.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

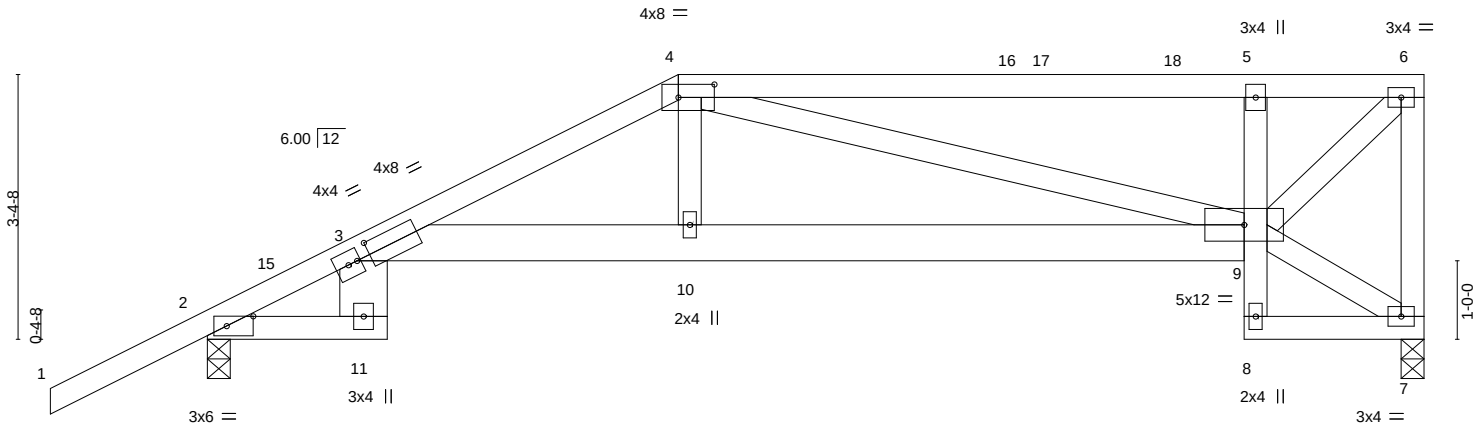
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T29	Half Hip	1	1	T29057898
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:13 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-28MUPX?4Z7O_XA1Yjd9GtYzytQnJ143oXTUKtqyPwEO

-2-0-0 2-0-0 | 2-3-8 2-3-8 | 6-0-0 3-8-8 | 13-2-8 7-2-8 | 15-6-0 2-3-8

Scale = 1:29.4



2-3-8 2-3-8 | 6-0-0 3-8-8 | 13-2-8 7-2-8 | 15-6-0 2-3-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.16	3-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.31	3-10	>601	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.19	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 91 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 *Except* 4-6: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 3-11: 2x8 SP 2400F 2.0E, 3-9: 2x6 SP No.2, 5-8: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=133(LC 12)
Max Uplift 7=-143(LC 9), 2=-178(LC 12)
Max Grav 7=561(LC 1), 2=682(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-13=-450/51, 3-4=-1265/334, 4-5=-631/182, 5-6=-550/158, 6-7=-520/156
BOT CHORD 3-11=-90/276, 3-10=-340/1125, 9-10=-343/1150, 5-9=-361/178
WEBS 4-10=-43/435, 4-9=-538/177, 6-9=-224/779

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 15-4-4 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=143, 2=178.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T30	Half Hip	1	1	T29057899
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:14 2022 Page 1
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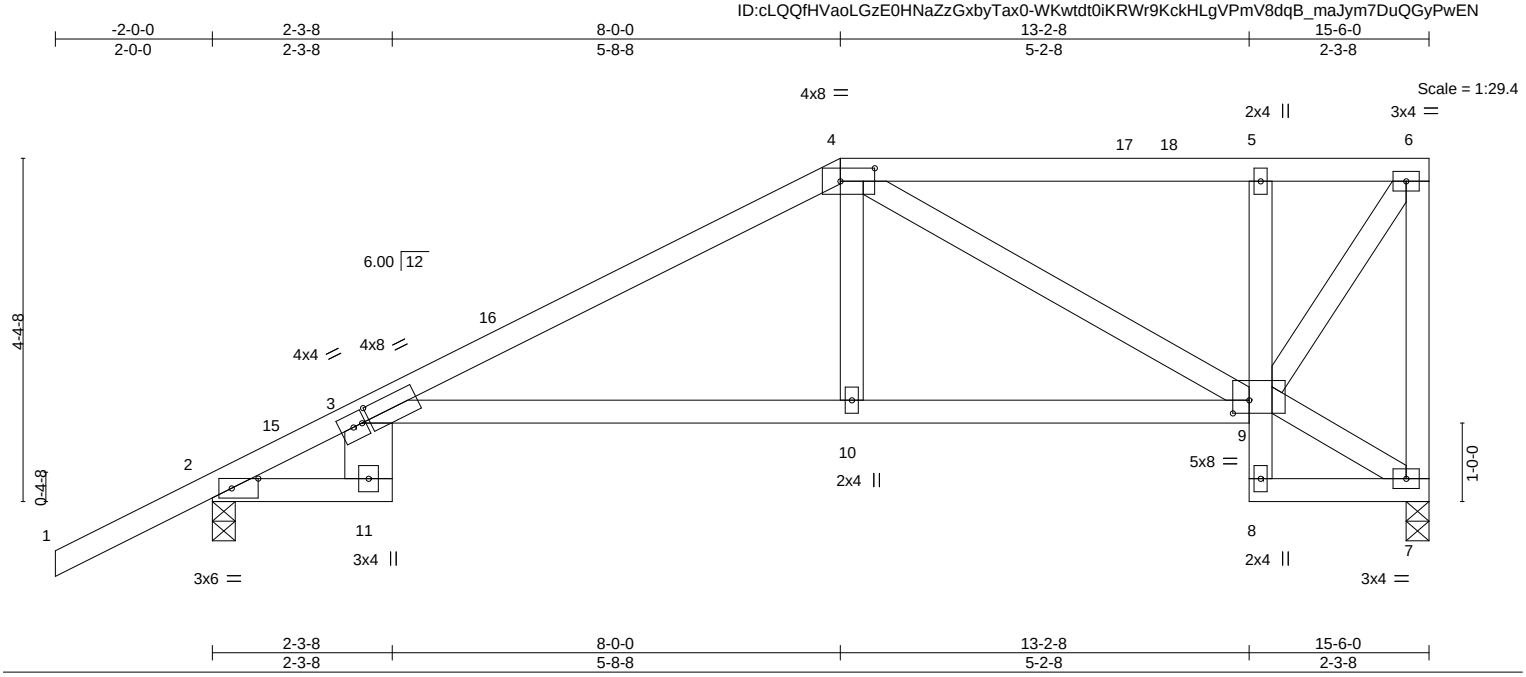

Plate Offsets (X,Y)-- [2:0-4-1,Edge], [3:0-1-3,0-2-0], [4:0-5-4,0-2-0], [9:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.32	3-10	>579	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.59	3-10	>310	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.29	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP M 31 *Except* 4-6: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-11: 2x8 SP 2400F 2.0E, 3-9: 2x4 SP M 31, 5-8: 2x4 SP No.3
WEBS	2x4 SP No.3

BRACING-

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

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=168(LC 12)
Max Uplift 7=-136(LC 9), 2=-174(LC 12)
Max Grav 7=561(LC 1), 2=685(LC 1)

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

TOP CHORD	3-13=-402/3, 3-4=-925/240, 4-5=-340/105, 5-6=-326/102, 6-7=-519/175
BOT CHORD	3-10=-273/803, 9-10=-274/816
WEBS	4-10=-27/367, 4-9=-549/196, 6-9=-186/595

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 15-4-4 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=136, 2=174.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T31	Half Hip	1	1	T29057900
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:15 2022 Page 1
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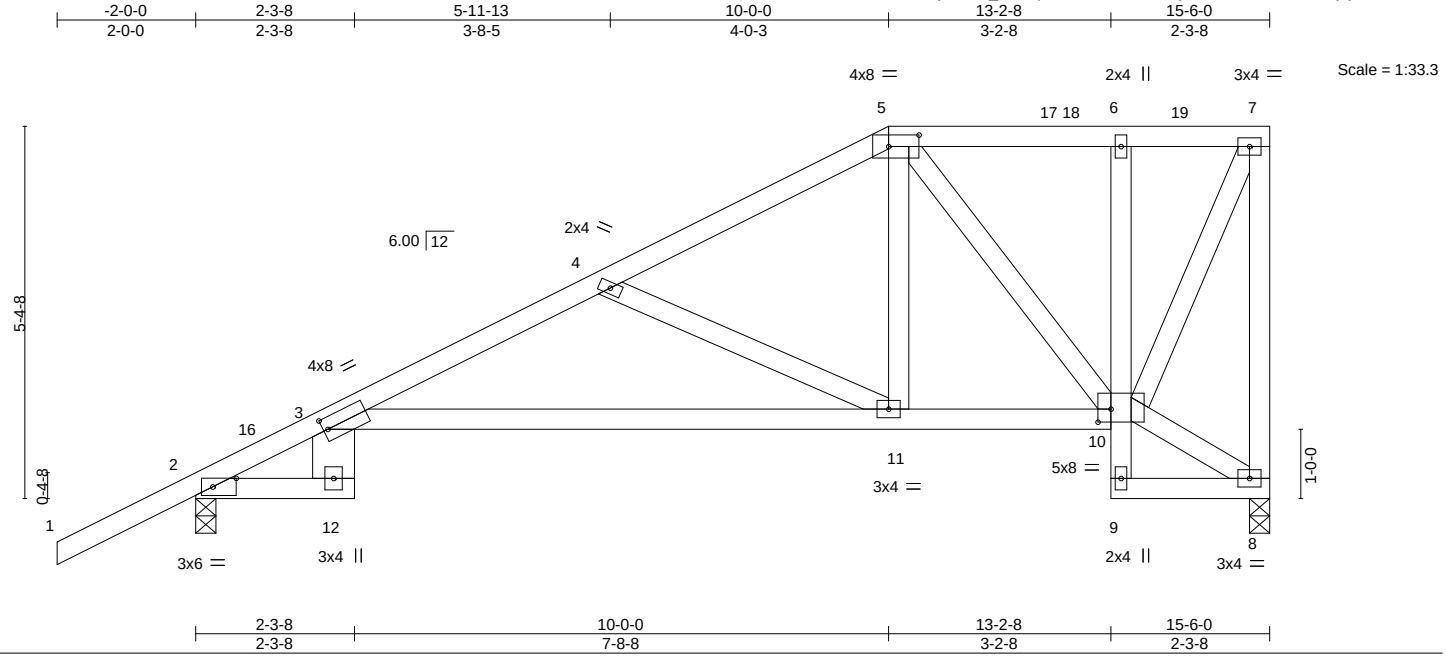

Plate Offsets (X,Y)-- [2:0-4-1,Edge], [3:0-0-12,0-2-0], [5:0-5-4,0-2-0], [10:0-2-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.29	3-11	>640	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.61	3-11	>301	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.27	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP M 31 *Except* 5-7: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-12: 2x8 SP 2400F 2.0E, 6-9: 2x4 SP No.3
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-8-11 oc bracing: 3-11.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=202(LC 12)
Max Uplift 8=-143(LC 12), 2=-166(LC 12)
Max Grav 8=561(LC 1), 2=685(LC 1)

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

TOP CHORD	3-14=-402/0, 3-4=-1111/317, 4-5=-651/165, 7-8=-517/197
BOT CHORD	3-11=-419/1042, 10-11=-179/530
WEBS	4-11=-581/267, 5-11=-95/508, 5-10=-453/145, 7-10=-191/535

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 15-4-4 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=143, 2=166.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T32	Half Hip	1	1	T29057901
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:16 2022 Page 1
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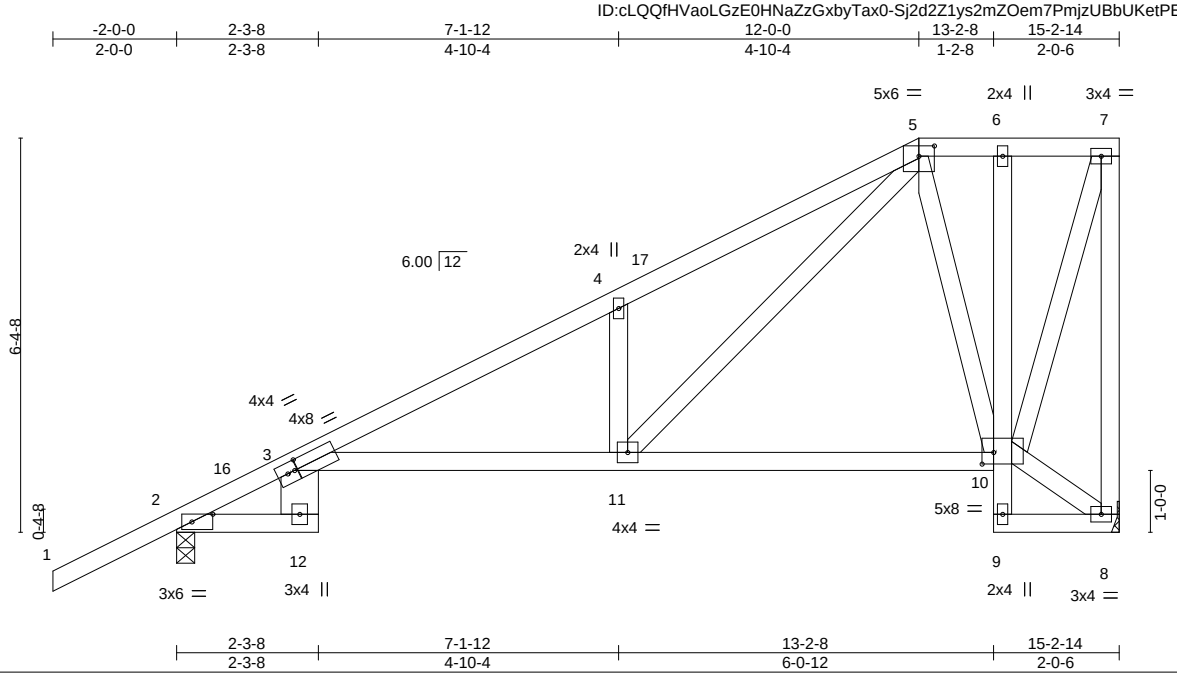

Plate Offsets (X,Y)-- [2:0-4-1,Edge], [3:0-0-11,0-2-0], [5:0-3-0,0-2-0], [10:0-2-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.26	3-11	>684	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.46	3-11	>390	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.24	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 102 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 *Except* 5-7: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 3-12: 2x8 SP 2400F 2.0E, 3-10: 2x4 SP M 31, 6-9: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

REACTIONS. (size) 8=Mechanical, 2=0-3-8
Max Horz 2=237(LC 12)
Max Uplift 8=-165(LC 12), 2=-153(LC 12)
Max Grav 8=552(LC 1), 2=676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-14=-394/0, 3-4=-1042/230, 4-5=-1120/357, 7-8=-524/211
BOT CHORD 3-11=-345/930, 10-11=-115/265
WEBS 4-11=-430/241, 5-11=-355/962, 5-10=-374/200, 7-10=-193/502

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-0-0, Exterior(2E) 12-0-0 to 15-1-2 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) 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) 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) 8=165, 2=153.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T33	Half Hip	1	1	T29057902
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:17 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-wvb?Fv2adMuP0oLJyTEC1O7f31DLzu5OS5SY0byPwEK

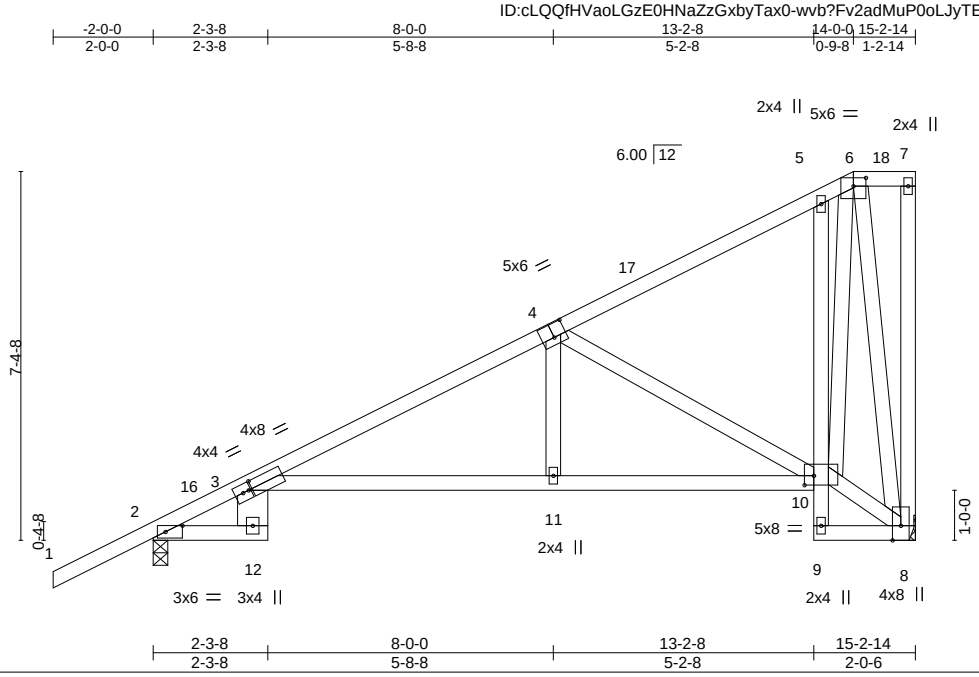

Plate Offsets (X,Y)-- [2:0-4-1,Edge], [3:0-0-15,0-2-0], [4:0-3-0,0-3-4], [6:0-3-0,0-2-0], [10:0-2-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.31	3-11	>580	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.55	3-11	>331	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.27	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 108 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except*
3-12: 2x8 SP 2400F 2.0E, 3-10: 2x4 SP M 31, 5-9: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (size) 8=Mechanical, 2=0-3-8
Max Horz 2=271(LC 12)
Max Uplift 8=-197(LC 12), 2=-139(LC 12)
Max Grav 8=552(LC 1), 2=676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-14=-394/0, 3-4=-942/177, 4-5=-253/20
BOT CHORD 3-11=-320/830, 10-11=-320/834
WEBS 4-11=-22/361, 4-10=-785/299, 6-10=-252/550, 6-8=-533/215

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 14-0-0, Exterior(2E) 14-0-0 to 15-1-2 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) 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) 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) 8=197, 2=139.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T34	Jack-Closed	3	1	T29057903
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:18 2022 Page 1
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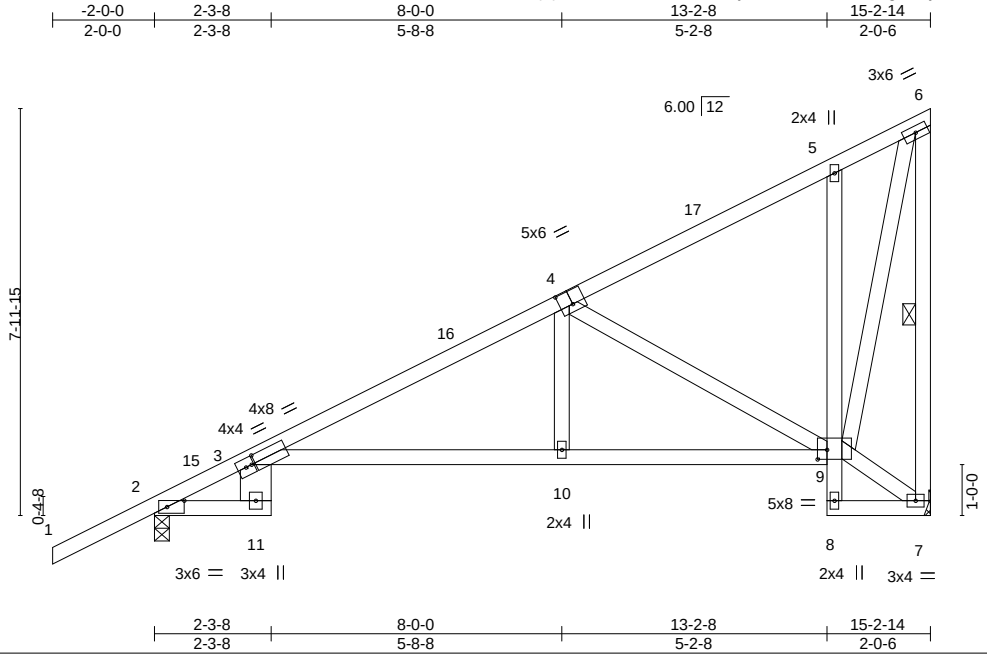

Plate Offsets (X,Y)-- [2:0-4-1,Edge], [3:0-0-15,0-2-0], [4:0-3-0,0-3-4], [9:0-2-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.29	3-10	>634	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.56	3-10	>325	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.28	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 100 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except*
3-11: 2x8 SP 2400F 2.0E, 3-9: 2x4 SP M 31, 5-8: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=242(LC 12)
Max Uplift 7=-130(LC 12), 2=-118(LC 12)
Max Grav 7=552(LC 1), 2=676(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-13=-394/0, 3-4=-931/103, 4-5=-251/0, 6-7=-507/206
BOT CHORD 3-10=-265/816, 9-10=-264/802
WEBS 4-10=-14/364, 4-9=-762/237, 6-9=-221/555

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-1-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=130, 2=118.

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Michael S. Magid PE No.53681
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T35	Roof Special	1	1	T29057904
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:19 2022 Page 1
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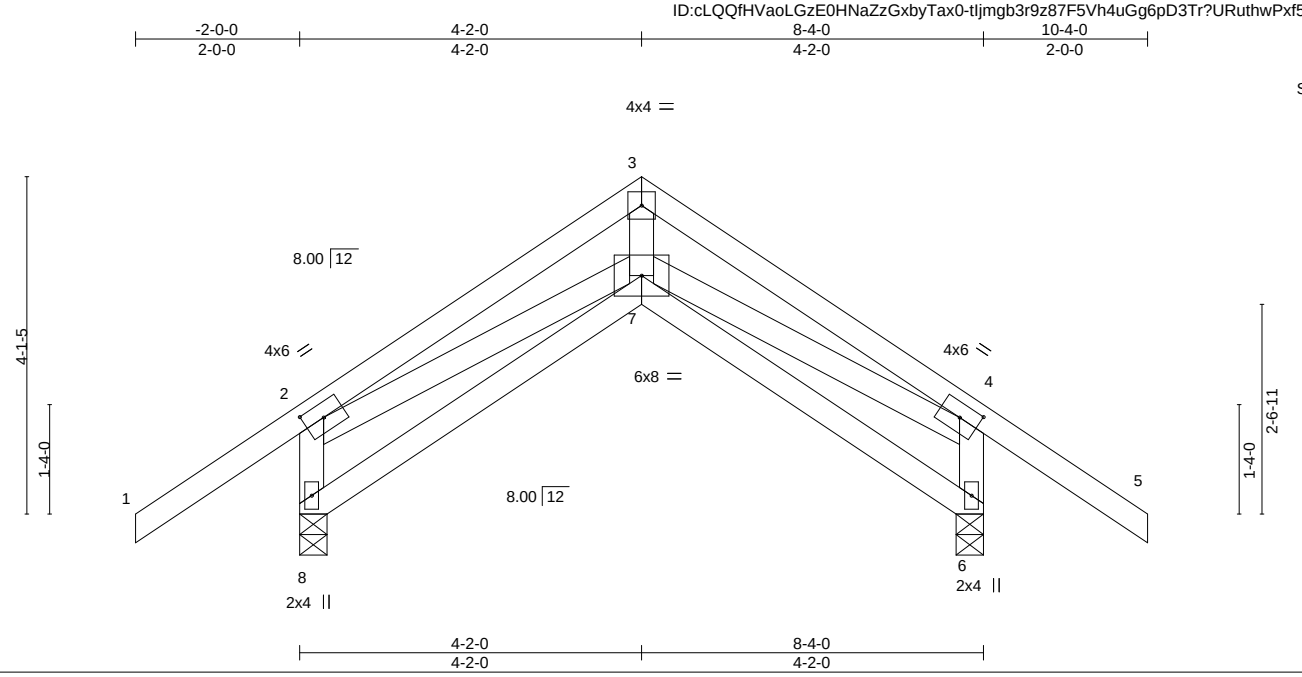

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [4:0-2-14,0-2-0]

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	0.31	Vert(LL)	0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.04	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 55 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-4-0, 6=0-4-0
Max Horz 8=-129(LC 10)
Max Uplift 8=-104(LC 12), 6=-104(LC 13)
Max Grav 8=413(LC 1), 6=413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-374/277, 2-3=-572/201, 3-4=-572/205, 4-6=-374/299
WEBS 3-7=-133/437, 4-7=-123/480, 2-7=-7/436

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 10-4-0 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) 8, 6 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) 8=104, 6=104.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T35G	GABLE	1	1	T29057905
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:20 2022 Page 1
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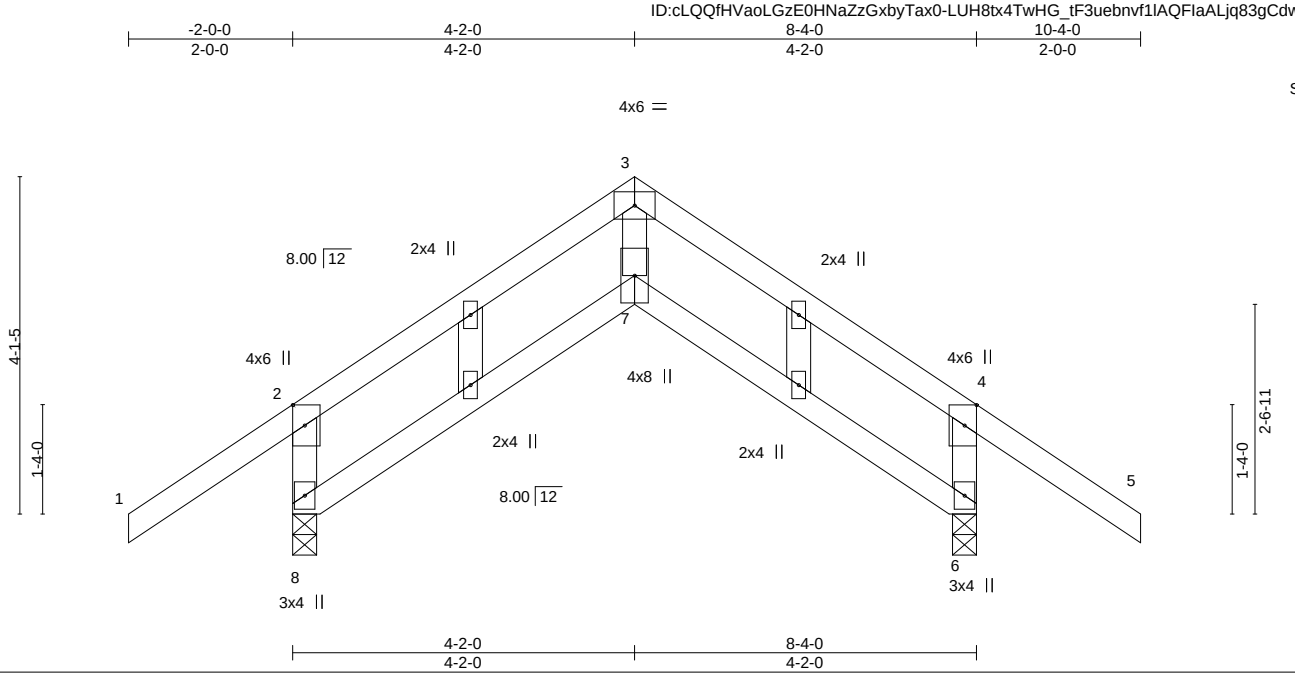

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-3-0,Edge]

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	0.55	Vert(LL)	-0.13	7	>761	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.25	7	>388	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.34	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MR							Weight: 45 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-129(LC 10)
Max Uplift 8=-104(LC 12), 6=-104(LC 13)
Max Grav 8=413(LC 1), 6=413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-461/276, 2-3=-371/193, 3-4=-371/201, 4-6=-461/314
BOT CHORD 7-8=-84/340, 6-7=-78/339
WEBS 3-7=-115/336

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 10-4-0 zone; end vertical left and right exposed; 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 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) 8, 6 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) 8=104, 6=104.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T36	Roof Special	4	1	T29057906
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:21 2022 Page 1
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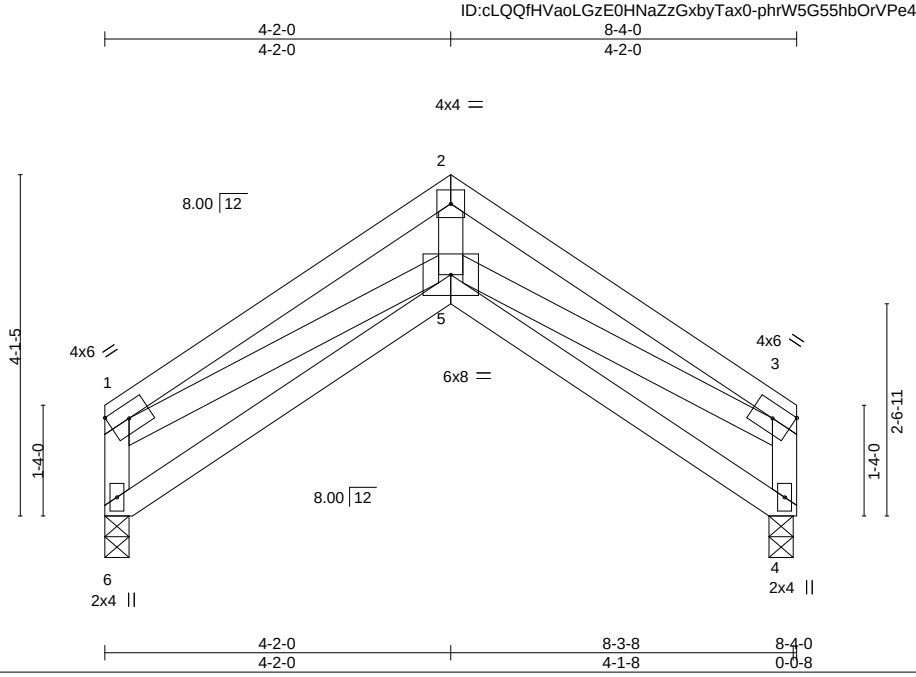

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.03	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.04	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 48 lb	FT = 20%

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

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

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=98(LC 9)
Max Uplift 6=-56(LC 12), 4=-56(LC 13)
Max Grav 6=298(LC 1), 4=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-289/249, 1-2=-697/493, 2-3=-697/493, 3-4=-289/237
WEBS 2-5=-392/492, 3-5=-301/504, 1-5=-268/504

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 8-2-4 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) 6, 4 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) 6, 4.

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Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	T37	Hip Girder	1	1	T29057907
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:23 2022 Page 1
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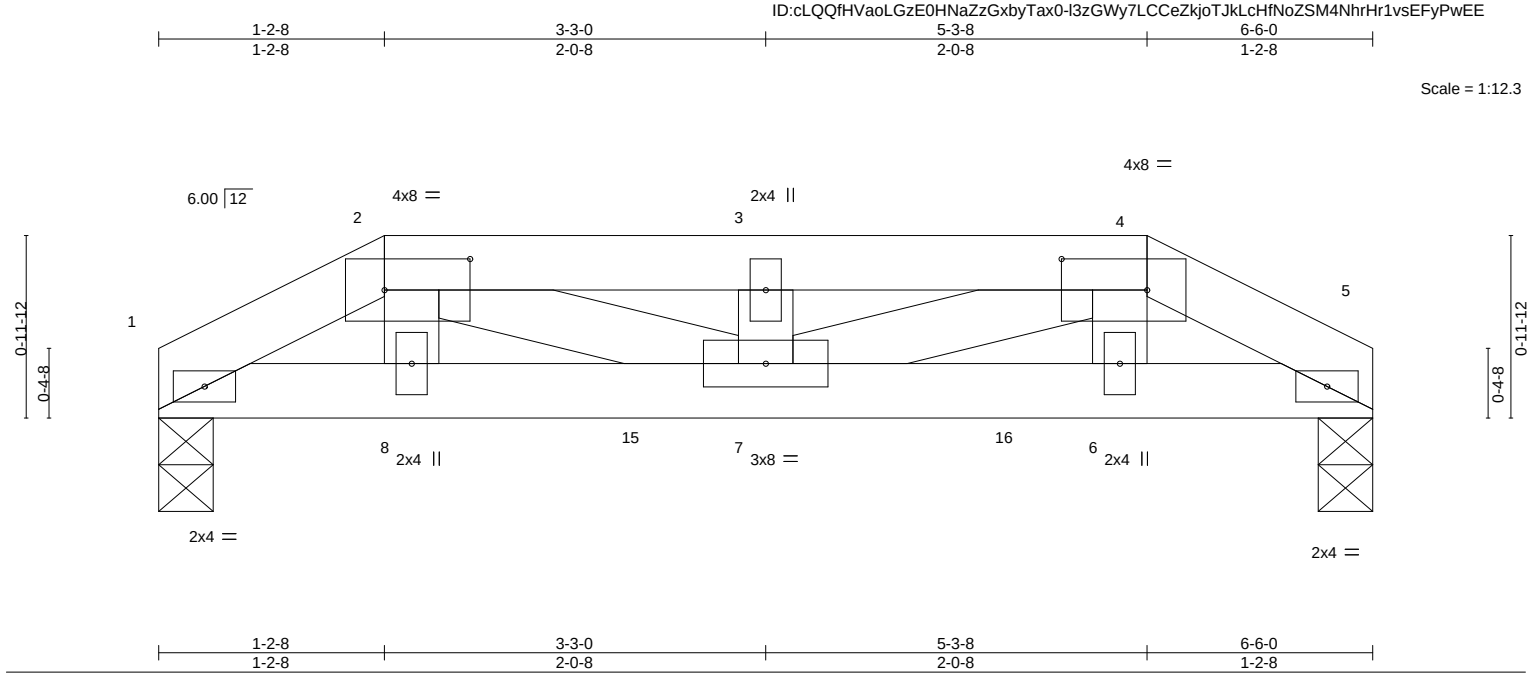

Plate Offsets (X,Y)-- [2:0-5-8,0-2-0], [4:0-5-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	-0.02	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.03	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-9(LC 9)
Max Uplift 1=-107(LC 8), 5=-91(LC 9)
Max Grav 1=513(LC 1), 5=441(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-815/177, 2-3=-1131/249, 3-4=-1131/249, 4-5=-852/183
BOT CHORD 1-8=-153/729, 7-8=-167/769, 6-7=-169/794, 5-6=-154/745
WEBS 2-7=-96/440, 4-7=-88/397

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=107.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 68 lb up at 1-2-8, and 44 lb down and 68 lb up at 3-3-0, and 44 lb down and 68 lb up at 5-3-8 on top chord, and 165 lb down and 44 lb up at 0-8-13, 104 lb down and 149 lb up at 1-2-8, 237 lb down and 60 lb up at 2-7-12, 20 lb down and 52 lb up at 3-3-0, and 237 lb down and 60 lb up at 4-7-12, and 104 lb down and 149 lb up at 5-2-12 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).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-5=-54, 9-12=-20
Concentrated Loads (lb)
Vert: 2=16(F) 4=16(F) 8=54(F) 7=22(F) 3=16(F) 6=54(F) 11=-165(B) 15=-237(B) 16=-237(B)

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 25,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DWC - LOT 6 RM
3308393	TG01	Flat Girder	1	1	T29057908
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 25 09:02:24 2022 Page 1
ID:cLQQfHVaoLGzE0HNaZzGxbyTax0-DGWfjI7zzVmQMtNftRsrptwthsZR62OQ3hePmhyPwED

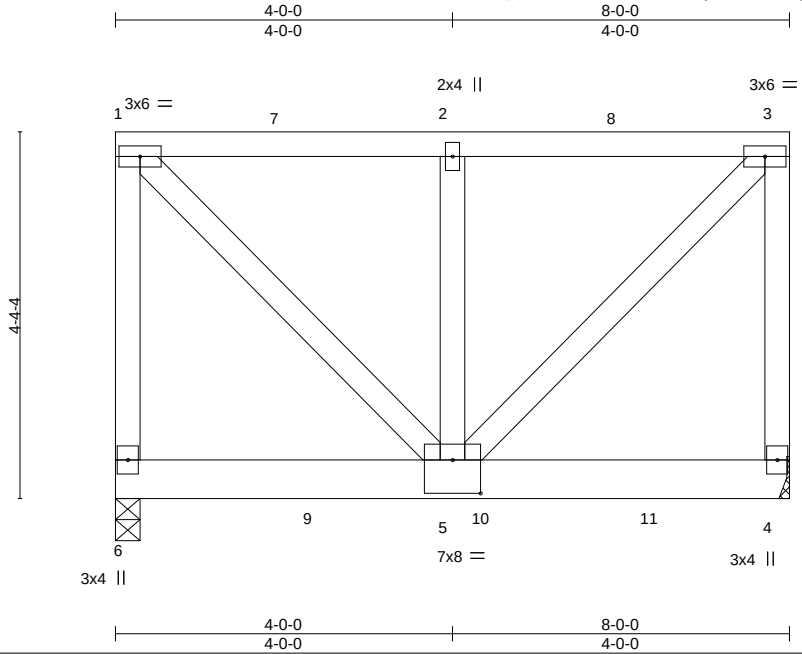

Plate Offsets (X,Y)-- [5:0-4-0,0-4-12]

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	0.47	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.06	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 62 lb	FT = 20%

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

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) 6=0-3-8, 4=Mechanical
Max Uplift 6=-491(LC 4), 4=-374(LC 4)
Max Grav 6=2074(LC 2), 4=1595(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1083/280, 1-2=-990/235, 2-3=-990/235, 3-4=-1076/278
WEBS 1-5=-329/1397, 3-5=-327/1384

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=491, 4=374.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 773 lb down and 183 lb up at 0-1-12, 766 lb down and 191 lb up at 2-4-12, and 781 lb down and 192 lb up at 4-4-12, and 856 lb down and 195 lb up at 6-4-12 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).

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: 6=-703(F) 9=-696(F) 10=-702(F) 11=-748(F)

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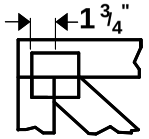
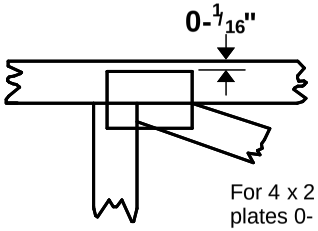
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

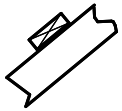
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

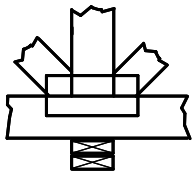
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

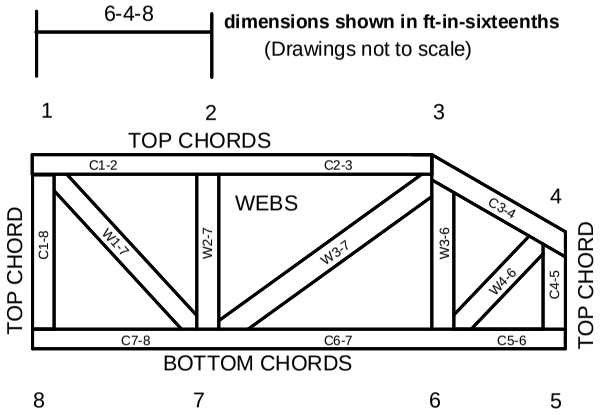


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.