



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

RE: 3264860 - IC CONST. - HOSFORD RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Hosford Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 874 NW Lake Valley Terrace, 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: 55.0 psf

This package includes 39 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	T29088660	EJ01	10/31/22	15	T29088674	T02	10/31/22
2	T29088661	F01	10/31/22	16	T29088675	T03	10/31/22
3	T29088662	F02	10/31/22	17	T29088676	T04	10/31/22
4	T29088663	F03	10/31/22	18	T29088677	T05	10/31/22
5	T29088664	F04	10/31/22	19	T29088678	T06	10/31/22
6	T29088665	F05	10/31/22	20	T29088679	T07	10/31/22
7	T29088666	F06	10/31/22	21	T29088680	T08	10/31/22
8	T29088667	KW6	10/31/22	22	T29088681	T08G	10/31/22
9	T29088668	PB01	10/31/22	23	T29088682	T09	10/31/22
10	T29088669	PB01G	10/31/22	24	T29088683	T09G	10/31/22
11	T29088670	PB02	10/31/22	25	T29088684	T10	10/31/22
12	T29088671	PB02G	10/31/22	26	T29088685	T11	10/31/22
13	T29088672	T01	10/31/22	27	T29088686	T12G	10/31/22
14	T29088673	T01G	10/31/22	28	T29088687	T13	10/31/22

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature.

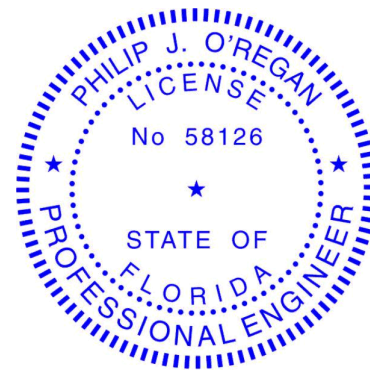
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: O'Regan, Philip

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.



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

October 31,2022

O'Regan, Philip

1 of 2



RE: 3264860 - IC CONST. - HOSFORD RES.

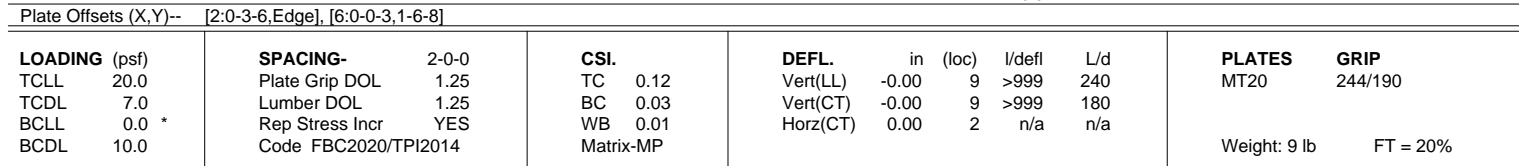
MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Hosford Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 874 NW Lake Valley Terrace, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T29088688	T13G	10/31/22
30	T29088689	T14	10/31/22
31	T29088690	T15	10/31/22
32	T29088691	T15G	10/31/22
33	T29088692	T16	10/31/22
34	T29088693	T17	10/31/22
35	T29088694	T18	10/31/22
36	T29088695	T19	10/31/22
37	T29088696	T20	10/31/22
38	T29088697	T20G	10/31/22
39	T29088698	TG01	10/31/22

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:46 2022 Page 1
 ID:5kez92kBE1JDepqOh7mes7yOyoX-n_kc7h_yTOmvX7krqfcyAorkKARwJdzbQXgRwByOwh?
 1-6-0 2-0-0
 1-6-0 2-0-0



REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=36(LC 8)
Max Uplift 2=104(LC 8), 5=10(LC 12)
Max Grav 2=184(LC 1), 5=46(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; 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 104 lb uplift at joint 2 and 10 lb uplift at joint 5.

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

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October 31, 2022



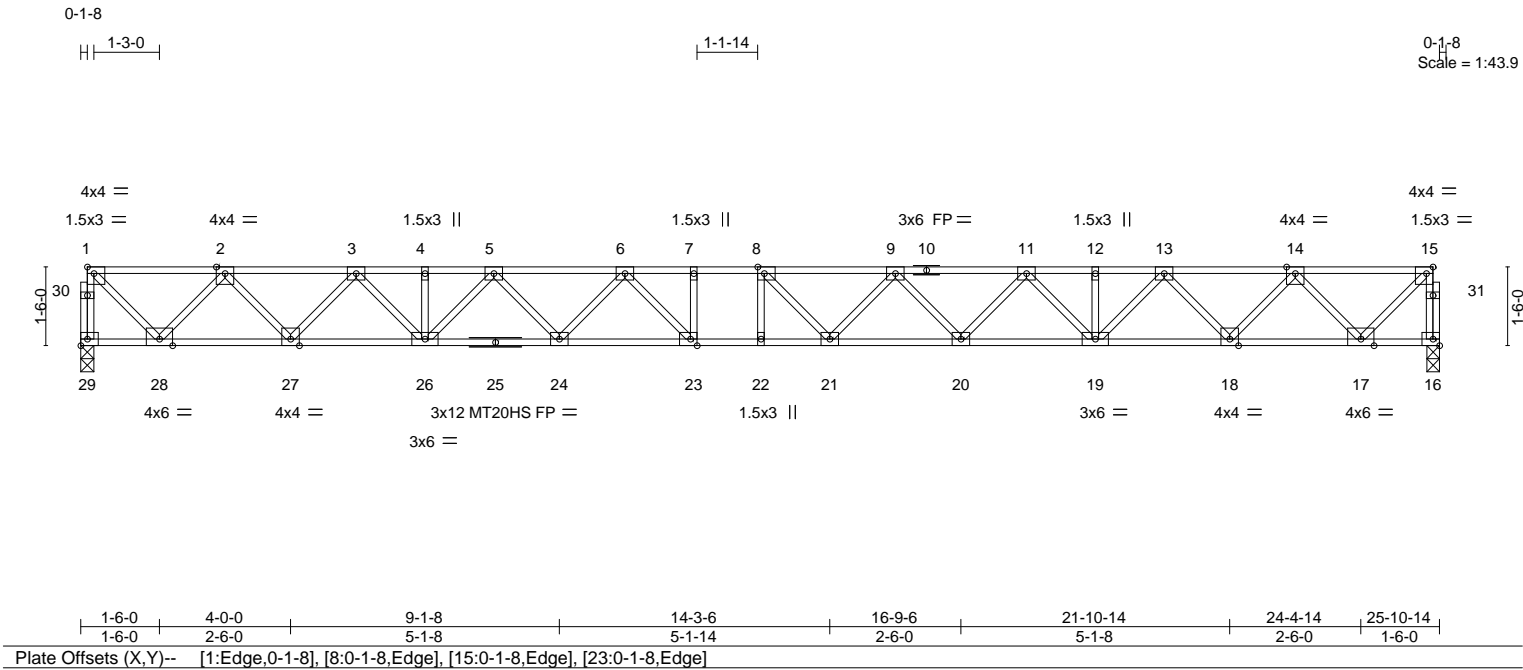
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED INFRATEK ENERGETICS MIP-1475 Rev. 3/19/2020 BEFORE USE.
Design valid for use only with MiTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088661
3264860	F01	FLOOR	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:47 2022 Page 1
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.28	Vert(LL)	-0.41	22	>745	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.55	Vert(CT)	-0.57	21-22	>542	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.57	Horz(CT)	0.09	16	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S						
							Weight: 141 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 29=0-3-0, 16=0-2-14
Max Grav 29=937(LC 1), 16=937(LC 1)

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

TOP CHORD 1-29=933/0, 15-16=933/0, 1-2=-867/0, 2-3=-2234/0, 3-4=-3293/0, 4-5=-3293/0, 5-6=-3968/0, 6-7=-4365/0, 7-8=-4365/0, 8-9=-4314/0, 9-11=-3975/0, 11-12=-3294/0, 12-13=-3294/0, 13-14=-2235/0, 14-15=-867/0

BOT CHORD 27-28=0/1640, 26-27=0/2814, 24-26=0/3709, 23-24=0/4220, 22-23=0/4365, 21-22=0/4365, 20-21=0/4231, 19-20=0/3706, 18-19=0/2813, 17-18=0/1640

WEBS 15-17=0/1194, 1-28=0/1194, 14-17=-1149/0, 2-28=-1149/0, 14-18=0/884, 2-27=0/884, 13-18=-860/0, 3-27=-861/0, 13-19=0/696, 3-26=0/695, 11-19=-596/0, 5-26=-603/0, 11-20=0/400, 5-24=0/384, 9-20=-381/0, 6-24=-397/0, 9-21=-83/295, 6-23=-141/467, 8-21=-343/207

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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

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

October 31,2022

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:49 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-BZQkij0qmJ8UObTPWnAfnRTAROOlWsh26Vv6WWyOwgw



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

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

TOP CHORD	7-8=-1288/0, 3-4=0/563, 4-5=-1582/0, 5-6=-1582/0, 6-7=-840/0
BOT CHORD	12-13=-563/0, 11-12=0/1025, 10-11=0/1582, 9-10=0/1582
WEBS	3-12=-991/0, 3-13=0/549, 7-9=0/1162, 6-9=-1048/0, 4-12=-1667/0, 5-11=-536/0, 4-11=0/1015

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0" o.c. and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 577 lb down at 3'-10-4", and 578 lb down at 5'-10-4", and 578 lb down at 7'-10-4" on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-200(F=-100)
Concentrated Loads (lb)
Vert: 5=-498(F) 15=-498(F) 16=-498(F)

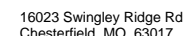
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

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Date:

October 31, 2022

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088663
3264860	F03	Floor Girder	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:49 2022 Page 1
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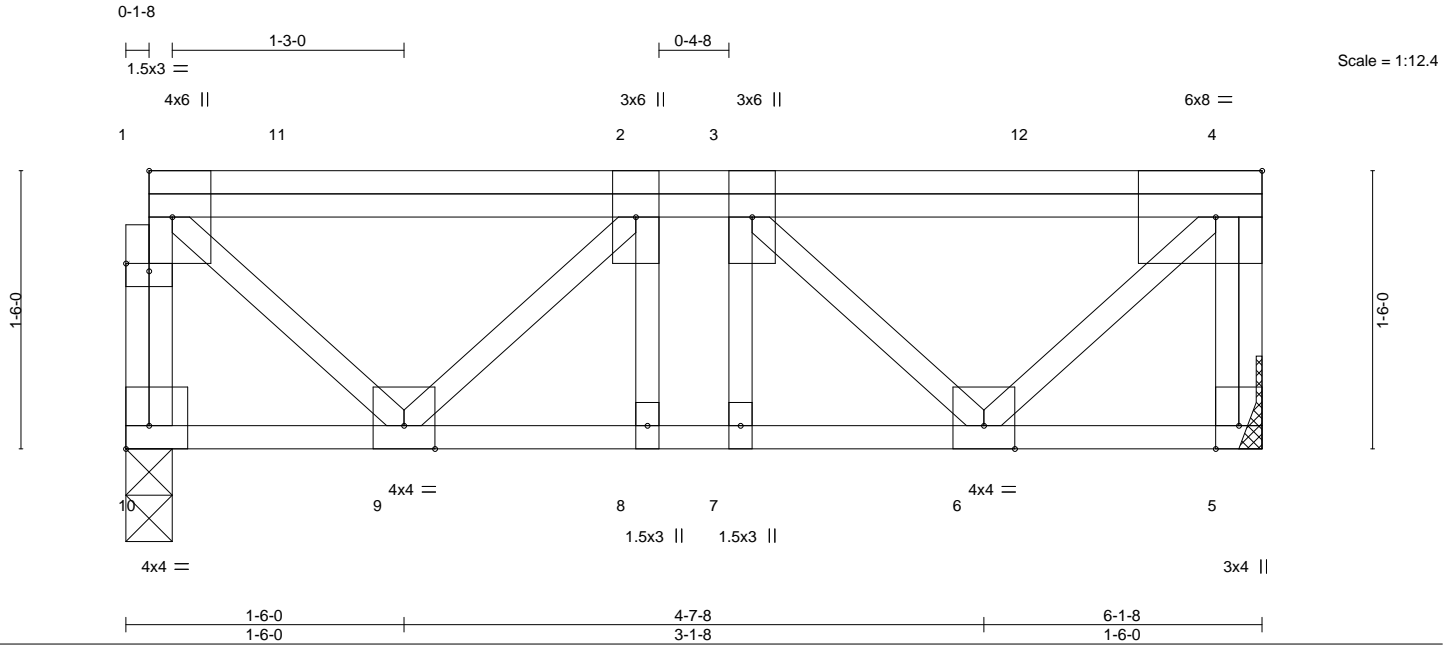


Plate Offsets (X,Y)-- [1:0-1-8,0-0-8], [4:0-3-0,Edge], [10:Edge,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.28	Vert(LL)	-0.01	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.23	Vert(CT)	-0.02	8	>999		
BCLL 0.0	Rep Stress Incr NO	WB 0.48	Horz(CT)	0.01	5	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S					Weight: 47 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 10=0-3-0, 5=Mechanical
Max Grav 10=1122(LC 1), 5=1067(LC 1)

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

TOP CHORD 1-10=-1117/0, 4-5=-1061/0, 1-2=-738/0, 2-3=-1398/0, 3-4=-723/0

BOT CHORD 8-9=0/1398, 7-8=0/1398, 6-7=0/1398

WEBS 4-6=0/1000, 1-9=0/1009, 3-6=-955/0, 2-9=-937/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 372 lb down at 0-11-4, and 340 lb down at 2-11-4, and 372 lb down at 4-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 5-10=-10, 1-4=-200(F=-100)

Concentrated Loads (lb)

Vert: 2=-318(B) 11=-318(B) 12=-318(B)

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

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

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

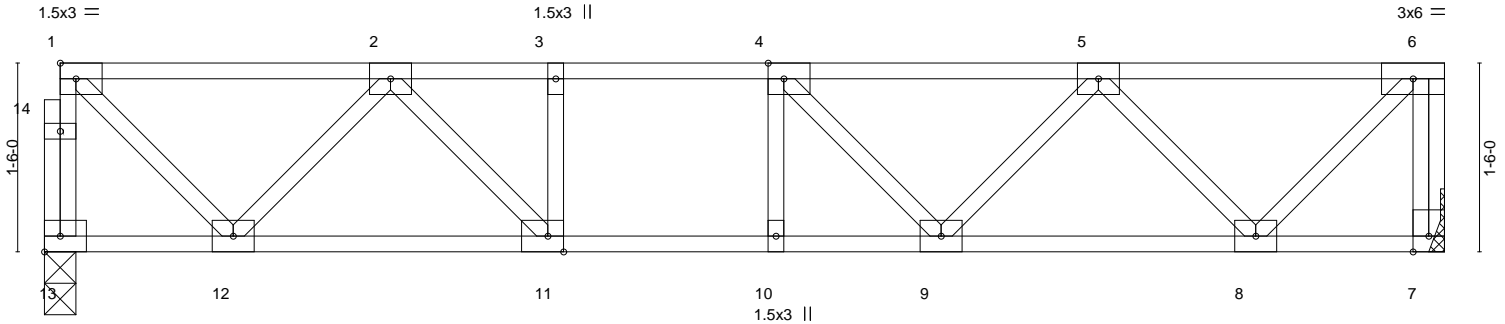
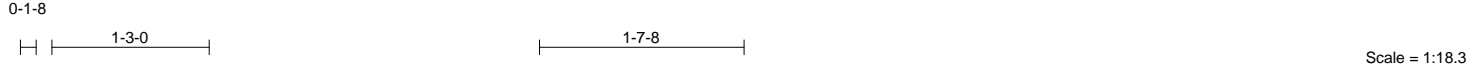


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088664
3264860	F04	Floor	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:50 2022 Page 1
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1-6-0		7-1-8		9-7-8		11-1-8						
1-6-0		5-7-8		2-6-0		1-6-0						
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [11:0-1-8,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) I/defl L/d		PLATES		GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.07	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 62 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 13=0-3-0, 7=Mechanical
Max Grav 13=592(LC 1), 7=598(LC 1)

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

TOP CHORD 1-13=-580/0, 6-7=-591/0, 1-2=-476/0, 2-3=-1152/0, 3-4=-1152/0, 4-5=-1064/0, 5-6=-490/0
BOT CHORD 11-12=0/907, 10-11=0/1152, 9-10=0/1152, 8-9=0/922
WEBS 6-8=0/693, 1-12=0/651, 5-8=-642/0, 2-12=-641/0, 2-11=0/463

NOTES-

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

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

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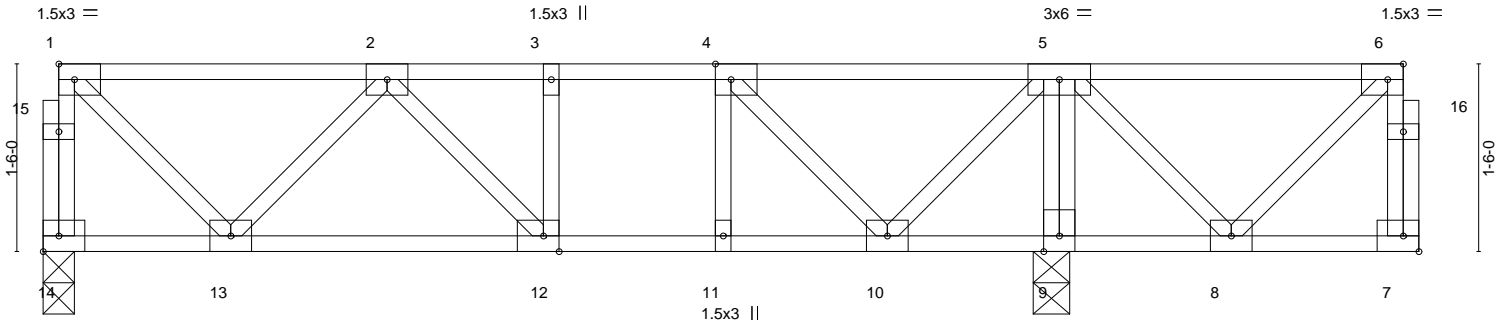
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088665
3264860	F05	Floor	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:51 2022 Page 1
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0-1-8
1-3-0
1-3-0
0-1-8
Scale = 1:18.4



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

1-6-0	6-9-0	8-1-8	8-2-8	9-6-0	11-0-0
1-6-0	5-3-0	1-4-8	0-1-0	1-3-8	1-6-0
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [6:0-1-8,Edge], [12:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.49	Vert(LL) -0.05 12-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.48	Vert(CT) -0.06 12-13 >999 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.00 9 n/a n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S		Weight: 65 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 14=0-3-0, 9=0-3-8
Max Grav 14=420(LC 3), 9=786(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-419/0, 1-2=-320/0, 2-3=-576/2, 3-4=-576/2, 4-5=-267/135
BOT CHORD 12-13=0/577, 11-12=-2/576, 10-11=-2/576, 9-10=-251/0, 8-9=-251/0
WEBS 5-9=-754/0, 1-13=0/436, 5-10=0/470, 2-13=-383/0, 4-10=-505/0

NOTES-

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

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. Except: 10-0-0 oc bracing: 13-14,12-13.

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

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

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

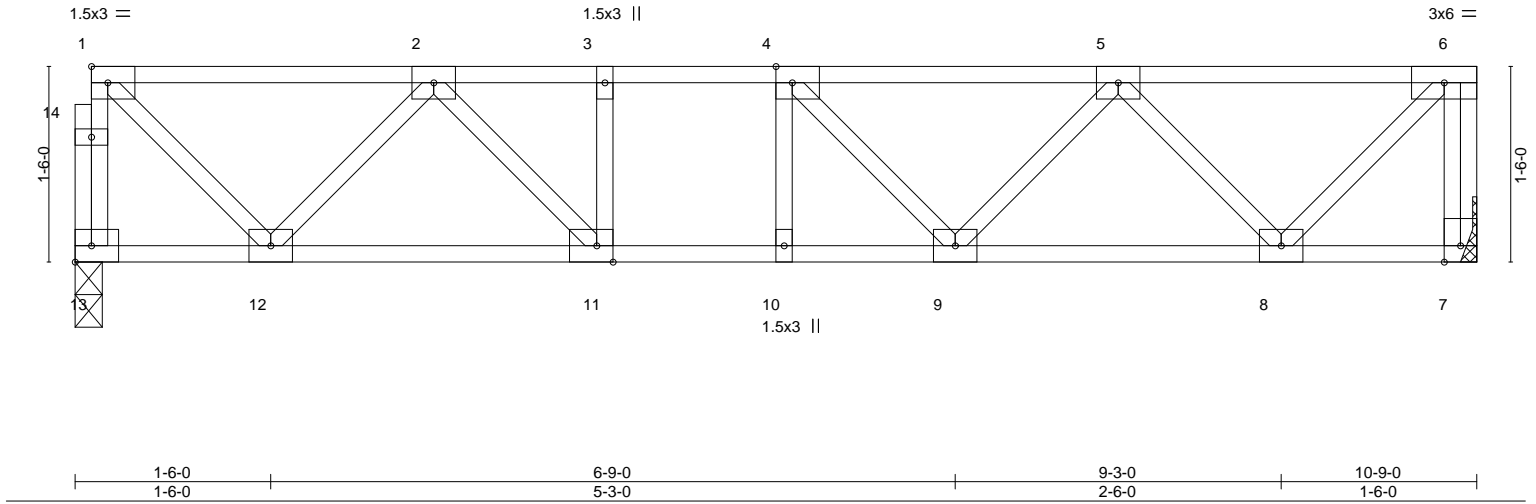
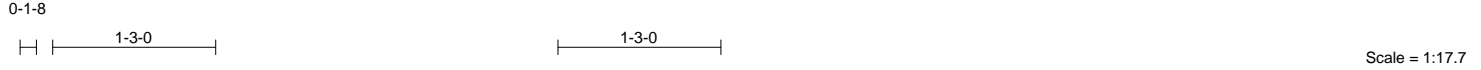


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088666
3264860	F06	Floor	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:52 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-c85tNI2j3EX3F2B_BvjMP35iHbOfjINUoT7m7ryOwgv



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03 9-10 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.05 9-10 >999 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01 7 n/a n/a				
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S							
								Weight: 61 lb FT = 20%F, 11%E			

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 13=0-2-8, 7=Mechanical
Max Grav 13=381(LC 1), 7=385(LC 1)

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

TOP CHORD 1-13=374/0, 6-7=381/0, 1-2=305/0, 2-3=719/0, 3-4=719/0, 4-5=671/0, 5-6=313/0
BOT CHORD 11-12=0/579, 10-11=0/719, 9-10=0/719, 8-9=0/588
WEBS 6-8=0/443, 1-12=0/417, 5-8=409/0, 2-12=407/0, 2-11=0/272

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

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October 31,2022

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

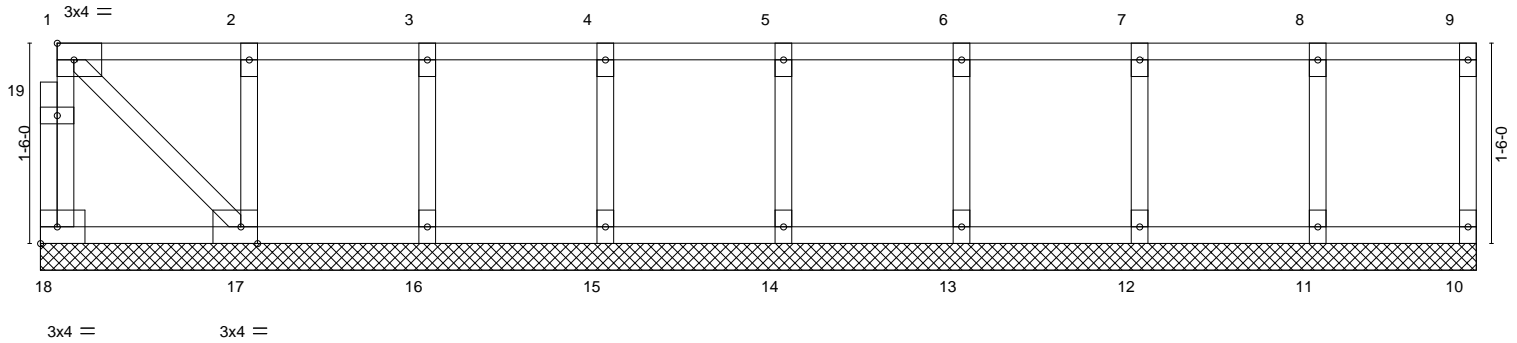
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088667
3264860	KW6	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:52 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-c85tNI2j3EX3F2B_BvjMP35ljbUejLIUoT7m7ryOwgv

0.1-8

Scale = 1:17.2



1-6-12		2-10-12		4-2-12		5-6-12		6-10-12		8-2-12		9-6-12		10-9-0	
1-6-12		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-2-4	
Plate Offsets (X,Y)-- [17:0-1-8,Edge]															
LOADING (psf)		SPACING- 1-4-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP			
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190			
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999					
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	10	n/a	n/a					
BCDL	5.0	Code FBC2020/TPI2014		Matrix-S							Weight: 53 lb		FT = 20%F, 11%E		

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

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

REACTIONS. All bearings 10-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



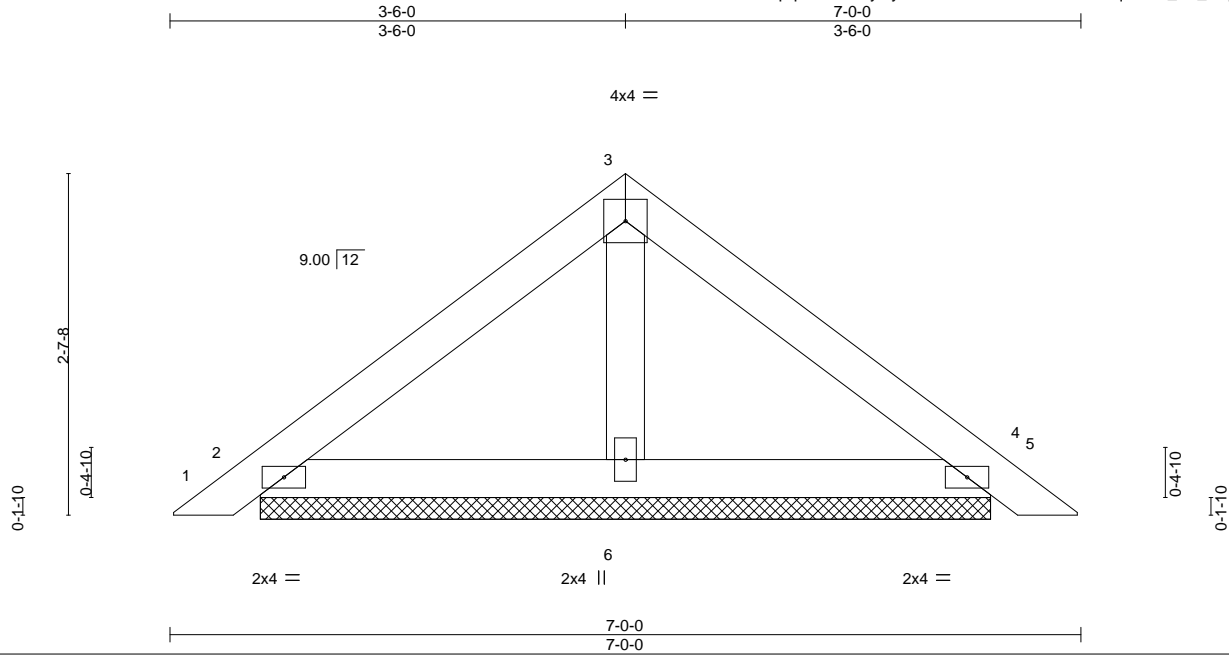
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088668
3264860	PB01	Piggyback	20	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:54 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-YWDdoQ4zbrnnVMLNIKlqUUA4_P9_BFpnGnctBjyOwgt



Scale = 1:17.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	1.25	BC 0.08	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P						Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=5-7-5, 4=5-7-5, 6=5-7-5
Max Horz 2=57(LC 11)
Max Uplift 2=-48(LC 12), 4=-56(LC 13), 6=-14(LC 12)
Max Grav 2=140(LC 1), 4=140(LC 1), 6=182(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2, 56 lb uplift at joint 4 and 14 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



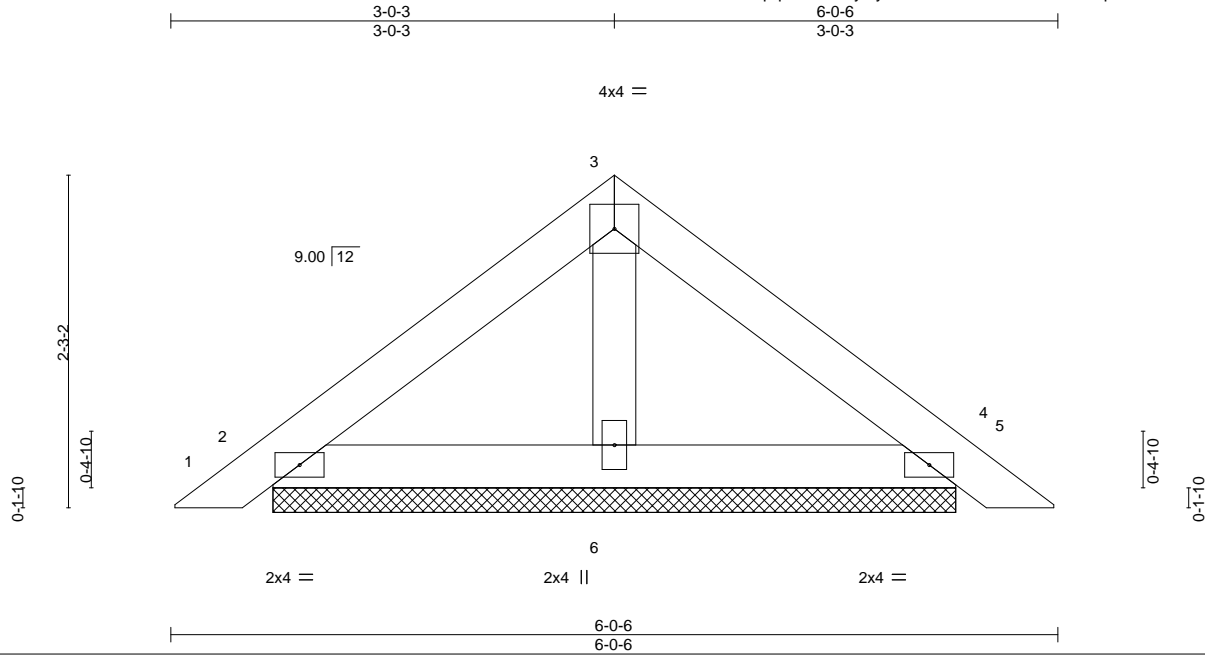
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088669
3264860	PB01G	GABLE	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:54 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-YWDdoQ4zbrnnVMLNIkqUUA5hPANBFunGnctBjyOwg



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 20 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=4-7-11, 4=4-7-11, 6=4-7-11
Max Horz 2=49(LC 11)
Max Uplift 2=42(LC 12), 4=48(LC 13), 6=11(LC 12)
Max Grav 2=121(LC 1), 4=121(LC 1), 6=150(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2, 48 lb uplift at joint 4 and 11 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



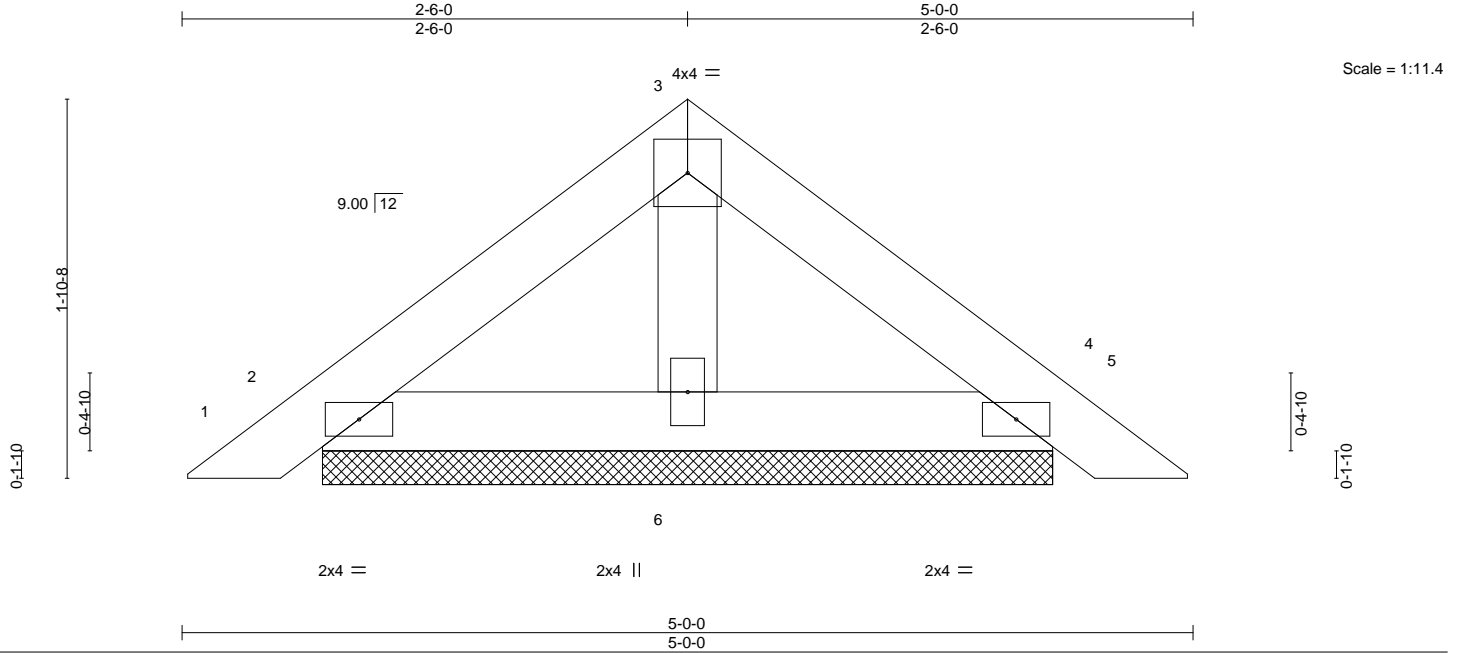
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088670
3264860	PB02	Piggyback	14	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:55 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-0jn00m5bL9ve6WwZs2H31ijH2pVxwhDwURMQj9yOwgs



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=3-7-5, 4=3-7-5, 6=3-7-5
Max Horz 2=39(LC 11)
Max Uplift 2=-36(LC 12), 4=-41(LC 13), 6=-7(LC 12)
Max Grav 2=100(LC 1), 4=100(LC 1), 6=115(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2, 41 lb uplift at joint 4 and 7 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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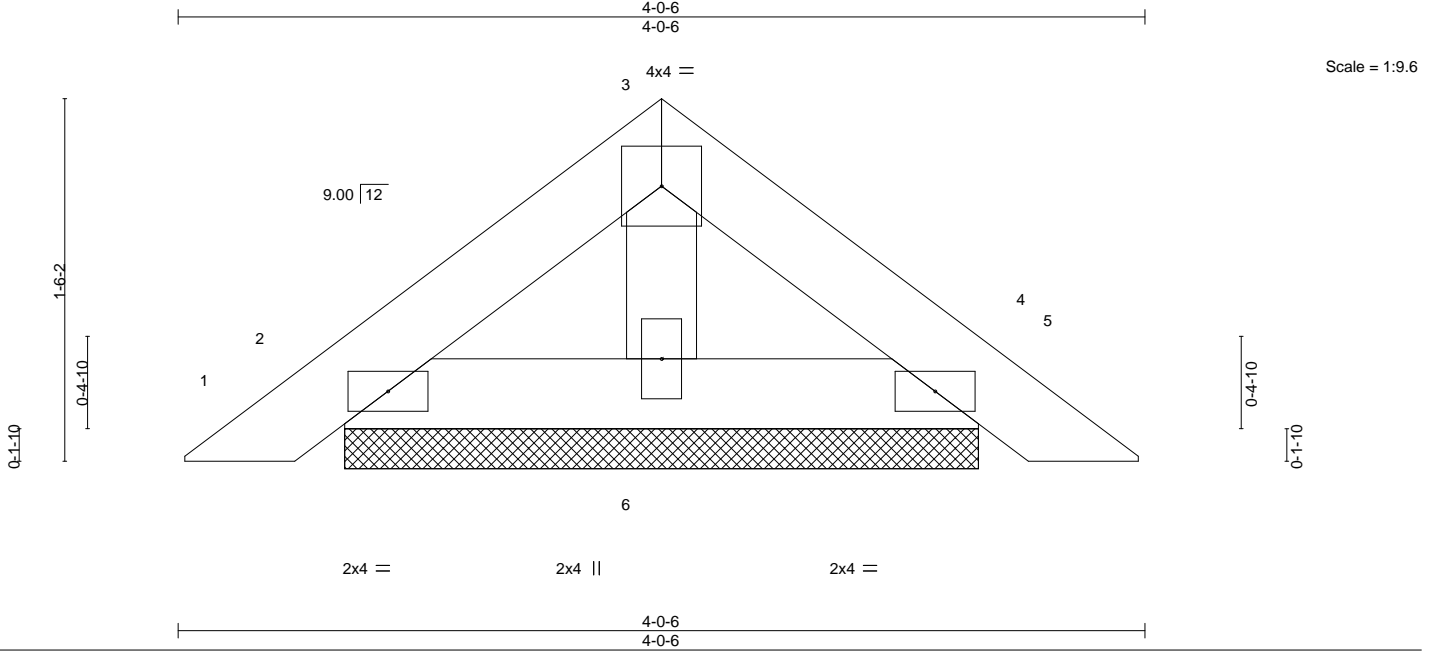
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088671
3264860	PB02G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:56 2022 Page 1

ID:5kez92kBE1JDEpqOh7mes7yOyoX-UvLOD65D6S1VkgVmQlolaVFSECrQf8W4j55zGcyOwgr



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.02	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code FBC2020/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=2-7-11, 4=2-7-11, 6=2-7-11
Max Horz 2=31(LC 11)
Max Uplift 2=-30(LC 12), 4=-34(LC 13), 6=-4(LC 12)
Max Grav 2=81(LC 1), 4=81(LC 1), 6=82(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 34 lb uplift at joint 4 and 4 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

October 31,2022

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

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088672
3264860	T01	Attic	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:58 2022
Page 1
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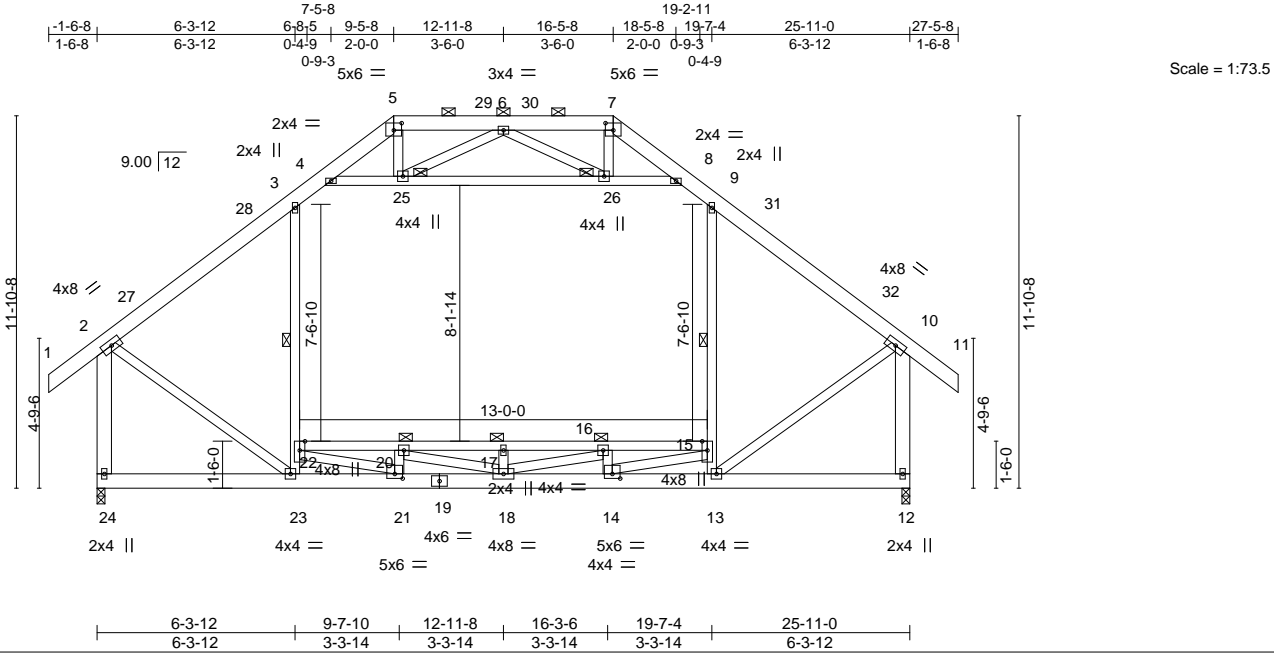


Plate Offsets (X,Y)--		[5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [14:0-3-0,0-1-12], [21:0-3-0,0-1-12]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	-0.19 23	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.22 17	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.02 12	n/a	n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Attic	-0.10 15-22	1552	360
				Weight: 281 lb FT = 20%			

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x6 SP No.2 *Except	Rigid ceiling directly applied or 10-0-0 oc bracing.
15-22: 2x4 SP No.2	
WEBS 2x4 SP No.3 *Except	WEBS 1 Row at midpt 3-22, 9-15
2-24,10-12: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 25, 26, 17, 20, 16

REACTIONS. (size) 24=0-3-0, 12=0-3-0
Max Horz 24=-347(LC 10)
Max Uplift 24=-14(LC 12), 12=-14(LC 13)
Max Grav 24=1688(LC 2), 12=1688(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1311/21, 3-4=-996/110, 4-5=-503/179, 5-6=-375/211, 6-7=-375/211, 7-8=-503/179, 8-9=-996/110, 9-10=-1311/21, 2-24=-1659/45, 10-12=-1659/46
BOT CHORD 23-24=-341/339, 21-23=-99/1126, 18-21=0/2657, 14-18=0/2552, 13-14=0/991, 20-22=-1683/0, 17-20=-2353/0, 16-17=-2353/0, 15-16=-1683/0
WEBS 22-23=-478/36, 3-22=-76/473, 13-15=-478/36, 9-15=-76/473, 4-25=-908/98, 25-26=-746/0, 8-26=-909/98, 2-23=0/1244, 10-13=0/1245, 6-25=-298/202, 6-26=-298/202, 17-18=-370/0, 20-21=-663/0, 14-16=-663/0, 21-22=0/1789, 18-20=-106/788, 16-18=-119/798, 14-15=0/1789

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 27-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-25, 25-26, 8-26; Wall dead load (5.0psf) on member(s) 3-22, 9-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 17-20, 16-17, 15-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 24 and 14 lb uplift at joint 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

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

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

October 31,2022

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088673
3264860	T01G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:02 2022 Page 1

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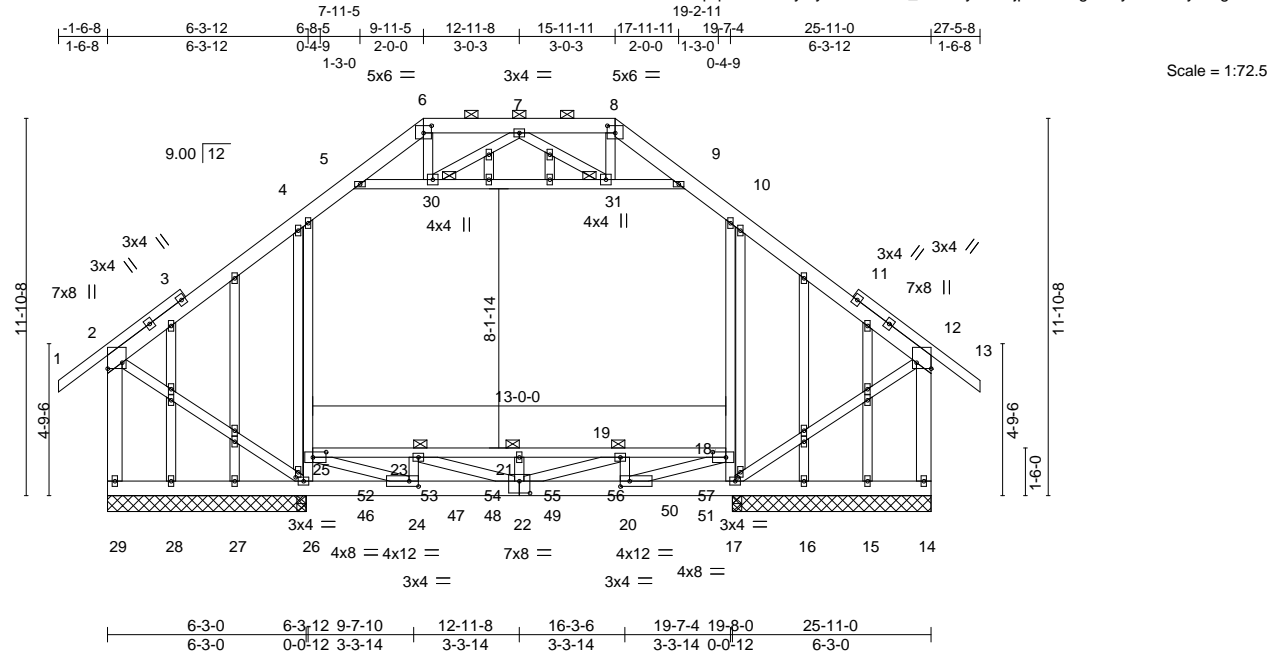


Plate Offsets (X,Y)-- [2:Edge,0-5-8], [6:0-3-0,0-2-12], [8:0-3-0,0-2-12], [12:Edge,0-5-8], [17:0-1-15,0-1-0], [18:0-5-0,0-2-0], [20:0-3-8,0-2-0], [22:0-4-0,0-4-8], [24:0-3-8,0-2-0], [25:0-5-0,0-2-0], [26:0-1-15,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.21	Vert(LL) -0.10	21	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.96	Vert(CT) -0.17	21	>933	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.84	Horz(CT) 0.01	14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic -0.10	18-25	1676	360	Weight: 341 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-3,11-13: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
18-25: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-29,12-14: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 30, 31, 21, 23, 19

REACTIONS.

All bearings 6-3-0.
(lb) - Max Horz 29=-341(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except 29=-153(LC 24), 26=-145(LC 8), 17=-145(LC 9), 14=-125(LC 25), 16=-257(LC 14), 27=-257(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 15, 28 except 29=553(LC 1), 26=1607(LC 34), 26=977(LC 1), 17=1583(LC 35), 17=977(LC 1), 14=553(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-340/146, 4-5=-427/117, 5-6=-521/110, 6-7=-420/107, 7-8=-420/107, 8-9=-521/105, 9-10=-427/117, 10-12=-340/123, 2-29=-536/141, 12-14=-536/116
BOT CHORD 28-29=-319/292, 27-28=-319/292, 26-27=-319/292, 22-24=0/1697, 20-22=0/1697, 23-25=-1631/0, 21-23=-2334/0, 19-21=-2334/0, 18-19=-1631/0
WEBS 25-26=-1159/84, 4-25=-531/238, 17-18=-1152/84, 10-18=-530/238, 30-31=-89/326, 2-26=-181/250, 21-22=-356/0, 23-24=-693/0, 24-25=0/1764, 22-23=0/743, 19-20=-693/0, 19-22=0/743, 18-20=0/1764

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 30-31, 9-31; Wall dead load (5.0psf) on member(s). 4-25, 10-18
- Roof live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-25, 21-23, 19-21, 18-19

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

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088673
3264860	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Oct 28 09:21:02 2022
Page 2
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- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 29, 145 lb uplift at joint 26, 145 lb uplift at joint 17, 125 lb uplift at joint 14, 257 lb uplift at joint 16 and 257 lb uplift at joint 27.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 20 lb up at 6-3-12, 26 lb down and 20 lb up at 8-0-4, 26 lb down and 20 lb up at 10-0-4, 26 lb down and 20 lb up at 12-0-4, 26 lb down and 20 lb up at 13-10-12, 26 lb down and 20 lb up at 15-10-12, and 26 lb down and 20 lb up at 17-10-12, and 26 lb down and 20 lb up at 19-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 15) Attic room checked for L/360 deflection.
 - 16) 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=-64, 5-6=-54, 6-8=-54, 8-9=-54, 9-10=-64, 10-12=-54, 12-13=-54, 14-29=-20, 18-25=-40, 5-9=-10
 - Drag: 4-25=-10, 10-18=-10
 - Concentrated Loads (lb)
 - Vert: 26=-13(F) 17=-13(F) 46=-13(F) 47=-13(F) 48=-13(F) 49=-13(F) 50=-13(F) 51=-13(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088674
3264860	T02	Attic	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:04 2022 Page 1
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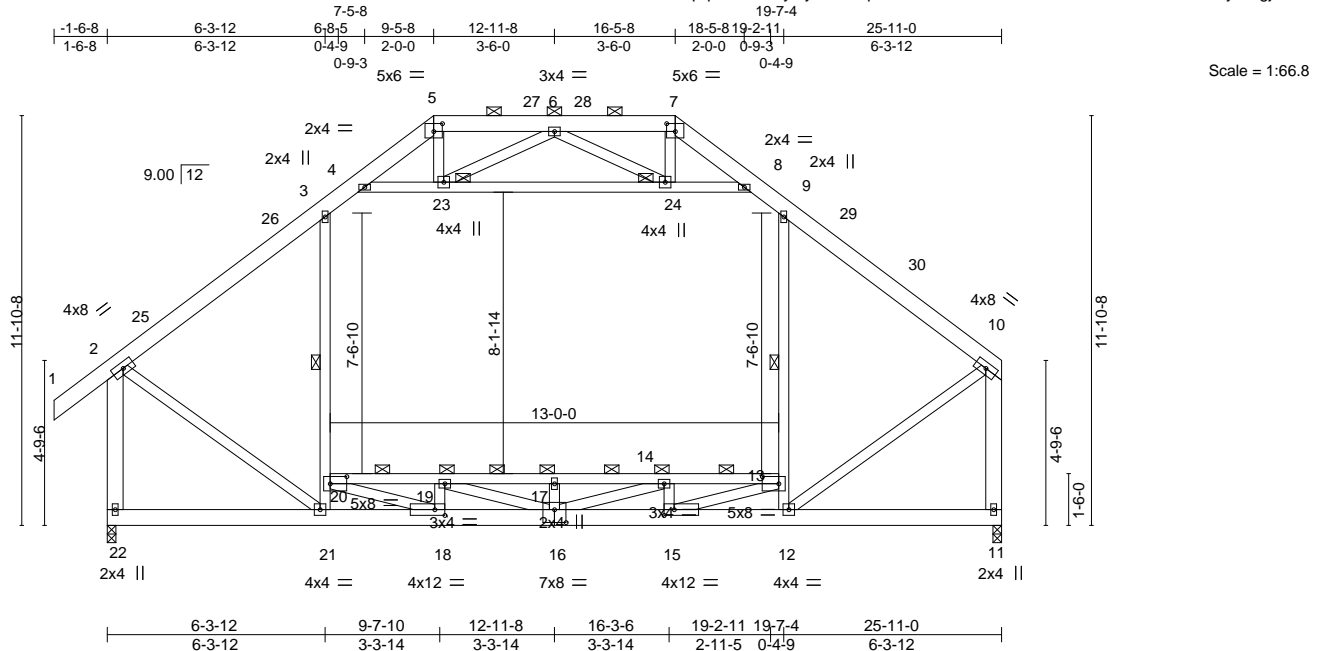


Plate Offsets (X,Y)--									
[5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [13:0-5-12,0-2-8], [15:0-3-8,0-2-0], [16:0-4-0,0-4-8], [18:0-3-8,0-2-0], [20:0-5-12,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.17 21 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.24 14-17 >999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.02 11 n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.11 13-20 1449	360	Weight: 277 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
13-20: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-22,10-11: 2x6 SP No.2

REACTIONS. (size) 22=0-3-0, 11=0-3-0
Max Horz 22=-288(LC 10)
Max Uplift 22=-1(LC 12)
Max Grav 22=1705(LC 2), 11=1622(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1328/19, 3-4=-1004/111, 4-5=-502/180, 5-6=-375/212, 6-7=-368/203,
7-8=-496/175, 8-9=-1005/111, 9-10=-1323/0, 2-22=-1681/19, 10-11=-1592/0
BOT CHORD 21-22=-258/279, 18-21=-43/1036, 16-18=0/2629, 15-16=0/2603, 12-15=0/953,
19-20=-1720/0, 17-19=-2403/0, 14-17=-2403/0, 13-14=-1727/0
WEBS 20-21=-473/33, 3-20=-70/483, 12-13=-490/41, 9-13=-82/477, 4-23=-912/105,
23-24=-757/0, 8-24=-929/96, 2-21=0/1252, 10-12=0/1234, 6-23=-303/195,
6-24=-302/201, 16-17=-363/0, 18-19=-680/0, 14-15=-678/0, 18-20=0/1861,
16-19=-81/788, 14-16=-101/782, 13-15=0/1866

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 25-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-23, 23-24, 8-24; Wall dead load (5.0psf) on member(s).3-20, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19, 14-17, 13-14
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 22.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 21-22.
3-4-0 oc bracing: 19-20, 13-14
3-6-0 oc bracing: 17-19, 14-17
WEBS 1 Row at midpt 3-20, 9-13
JOINTS 1 Brace at Jt(s): 23, 24, 17, 19, 14

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

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088676
3264860	T04	Attic Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:07 2022
Page 1
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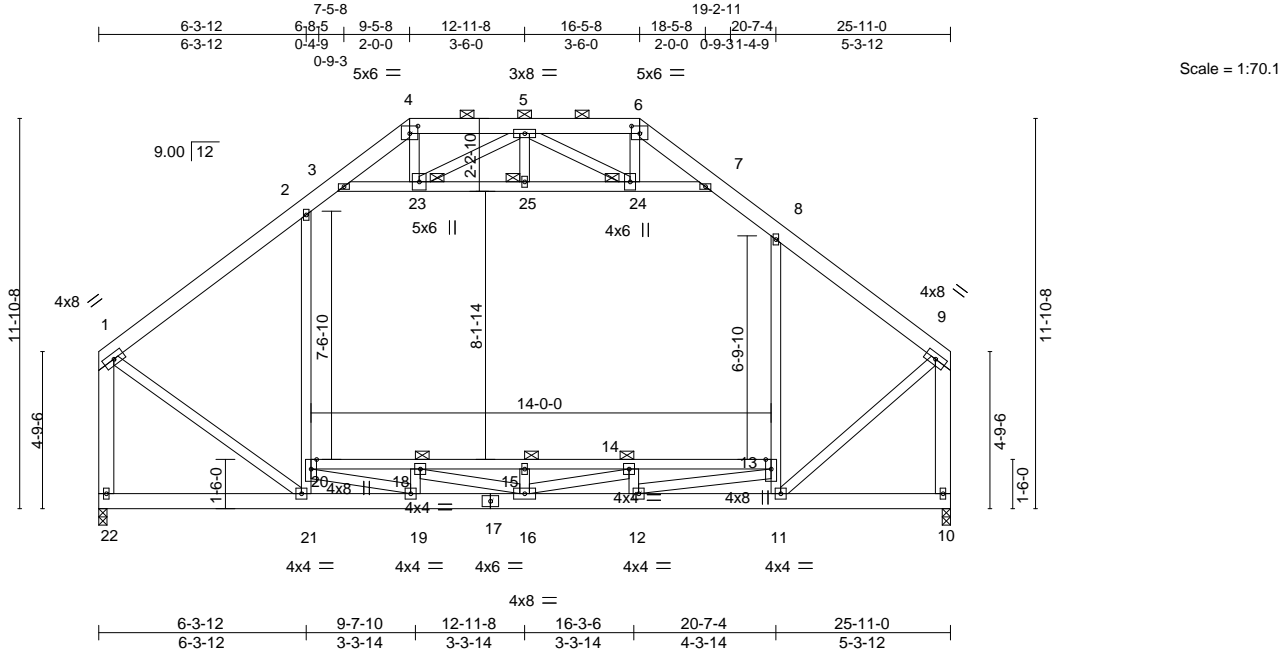


Plate Offsets (X,Y)--		[4:0-3-0,0-2-12], [6:0-3-0,0-2-12]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	in (loc)	l/defl	L/d	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(LL)	-0.09 11	>999	240
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Vert(CT)	-0.14 15-18	>999	180
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Horz(CT)	0.01 10	n/a	n/a
						Attic	-0.07 13-20	2569	360
								Weight: 549 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	2x6 SP M 26 *Except* 13-20: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS	2x4 SP No.3 *Except* 1-22,9-10: 2x6 SP No.2	JOINTS	1 Brace at Jt(s): 23, 24, 25, 15, 14, 18

REACTIONS. (size) 22=0-3-0, 10=0-3-0
Max Horz 22=-277(LC 6)
Max Uplift 22=-520(LC 8), 10=-507(LC 9)
Max Grav 22=3085(LC 2), 10=3148(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2552/483, 2-3=-2811/750, 3-4=-3492/1164, 4-5=-2971/1053, 5-6=-3071/1138, 6-7=-3549/1212, 7-8=-2825/717, 8-9=-2465/424, 1-22=-3034/519, 9-10=-3227/525
BOT CHORD 21-22=-229/263, 19-21=-450/2128, 16-19=-278/3693, 12-16=-1/3688, 11-12=-327/2032, 18-20=-1869/0, 15-18=-2615/0, 14-15=-2615/0, 13-14=-2015/0
WEBS 20-21=-1338/371, 2-20=-974/632, 11-13=-1364/362, 8-13=-1083/608, 3-23=-1175/1009, 23-25=-1939/4050, 24-25=-1939/4050, 7-24=-1325/1113, 1-21=-456/2415, 9-11=-468/2620, 4-23=-566/1723, 6-24=-525/1678, 5-23=-3422/1192, 5-24=-3333/1112, 15-16=-339/0, 12-14=-729/0, 18-19=-698/0, 19-20=0/1906, 16-18=-107/861, 14-16=-209/812, 12-13=0/2077

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 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) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-23, 23-25, 24-25, 7-24; Wall dead load (5.0psf) on member(s).2-20, 8-13
 - 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 15-18, 14-15, 13-14

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

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

October 31,2022

Continued on page 2

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088676
3264860	T04	Attic Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Oct 28 09:21:07 2022
Page 2
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- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 520 lb uplift at joint 22 and 507 lb uplift at joint 10.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3368 lb down and 1125 lb up at 12-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-64, 3-4=-54, 4-6=-54, 6-7=-54, 7-8=-64, 8-9=-54, 10-22=-20, 13-20=-40, 3-7=-10

Drag: 2-20=-10, 8-13=-10

Concentrated Loads (lb)

Vert: 5=-3368

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088677
3264860	T05	Attic Girder	1	2	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:09 2022 Page 1

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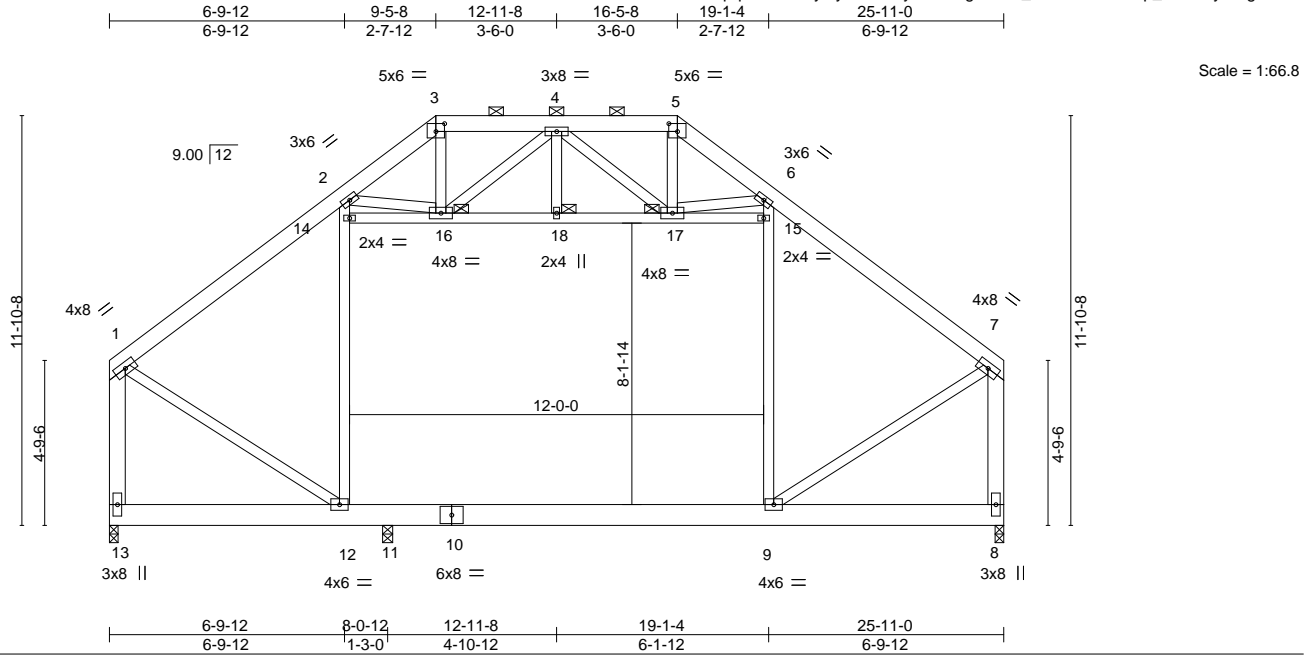


Plate Offsets (X,Y)-- [3:0-3-0,0-2-12], [5:0-3-0,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL)	-0.11 9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.28	Vert(CT)	-0.18 9-11	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.64	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic	0.03 11-12	1000	360	Weight: 534 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-13,7-8: 2x6 SP No.2

REACTIONS.

(size) 13=0-3-0, 8=0-3-0, 11=0-3-8
Max Horz 13=-357(LC 4)
Max Uplift 13=-798(LC 9), 8=-646(LC 9), 11=-541(LC 7)
Max Grav 13=3162(LC 35), 8=3606(LC 23), 11=564(LC 24)

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

TOP CHORD 1-2=-2938/779, 2-3=-3186/939, 3-4=-2528/770, 4-5=-2662/803, 5-6=-3362/970,
6-7=-3094/619, 1-13=-3377/835, 7-8=-3573/630
BOT CHORD 12-13=-293/336, 11-12=-328/2284, 9-11=-328/2284
WEBS 12-14=-1009/766, 2-14=-927/778, 9-15=-1116/439, 6-15=-1033/447, 16-18=-1375/2755,
17-18=-1375/2755, 1-12=-739/2839, 7-9=-357/2657, 3-16=-540/1766, 5-17=-511/1657,
4-16=-2852/895, 4-17=-2690/888, 2-16=-1009/609, 6-17=-982/594

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 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.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 14-16, 16-18, 17-18, 15-17; Wall dead load (5.0psf) on member(s).12-14, 9-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-12, 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 798 lb uplift at joint 13, 646 lb uplift at joint 8 and 541 lb uplift at joint 11.
- Girder carries tie-in span(s): 4-0-0 from 12-11-8 to 25-11-0
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

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

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

October 31,2022

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088677
3264860	T05	Attic Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Oct 28 09:21:09 2022
Page 2
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- NOTES-**
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3378 lb down and 1115 lb up at 12-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 4-5=-101(F=-47), 5-7=-101(F=-47), 12-13=-20, 9-12=-40, 8-9=-20, 14-15=-10

Drag: 12-14=-10, 9-15=-10

Concentrated Loads (lb)

Vert: 4=-3378

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088678
3264860	T06	Attic	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:11 2022 Page 1

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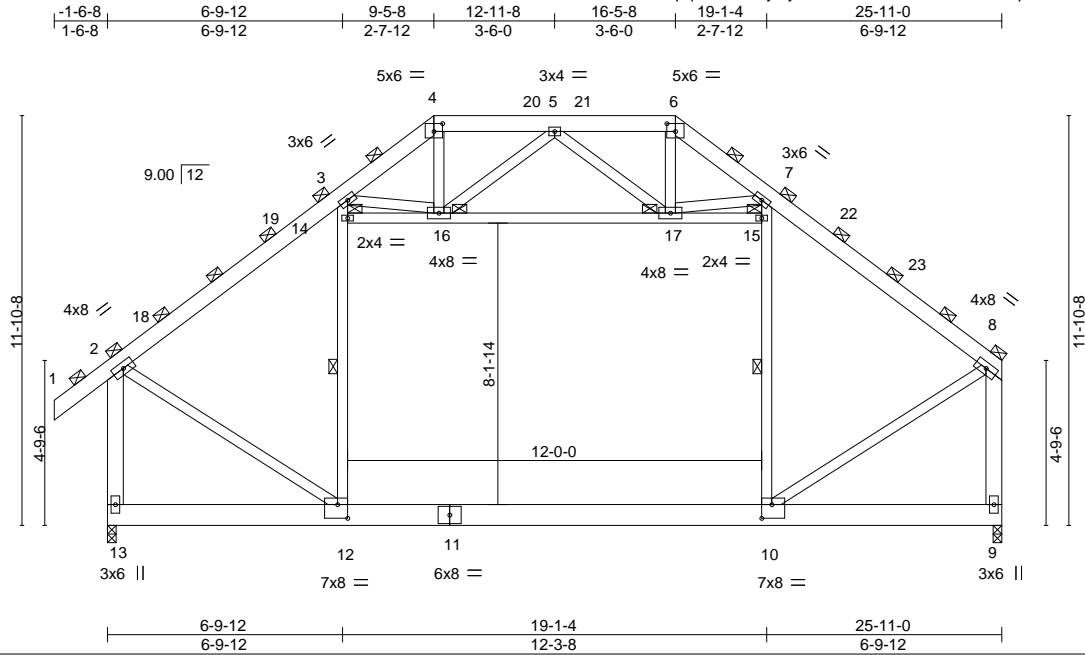


Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [6:0-3-0,0-2-12], [10:0-3-8,0-4-12], [12:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL)	-0.20 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT)	-0.30 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT)	0.01 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic	-0.18 10-12	814	360	Weight: 268 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-13,8-9: 2x6 SP No.2

REACTIONS.

(size) 13=0-3-0, 9=0-3-0
Max Horz 13=-286(LC 10)
Max Uplift 13=-43(LC 12), 9=-12(LC 13)
Max Grav 13=1534(LC 2), 9=1451(LC 2)

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

TOP CHORD 2-3=-1323/44, 3-4=-646/105, 4-5=-484/105, 5-6=-479/99, 6-7=-646/105, 7-8=-1317/22,
2-13=-1616/45, 8-9=-1526/6
BOT CHORD 12-13=-256/262, 10-12=0/1016
WEBS 12-14=-119/475, 3-14=-38/477, 16-17=-506/5, 10-15=-132/471, 7-15=-51/474,
2-12=0/1243, 8-10=0/1223, 4-16=-49/284, 6-17=-52/284, 3-16=-595/57, 7-17=-597/67

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 25-8-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 14-16, 16-17, 15-17; Wall dead load (5.0psf) on member(s).12-14, 10-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 13 and 12 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

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

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

October 31,2022

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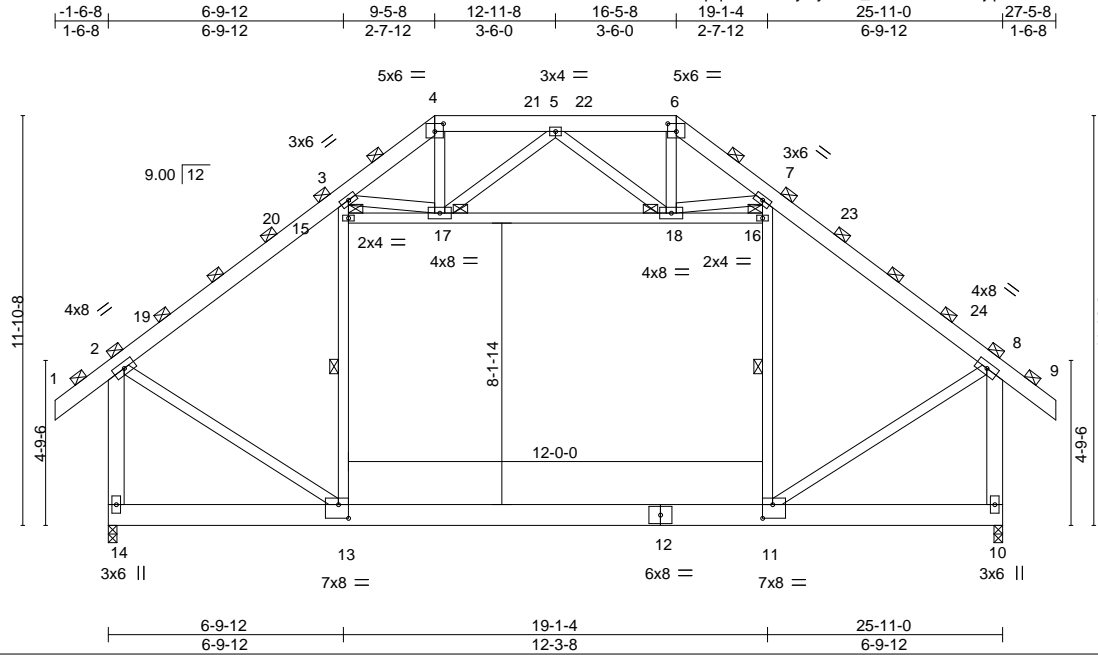
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088679
3264860	T07	Attic	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:12 2022 Page 1

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Scale = 1:66.8

Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [6:0-3-0,0-2-12], [11:0-3-8,0-4-12], [13:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL)	-0.20 11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT)	-0.30 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Attic	-0.18 11-13	814	360	Weight: 273 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-14,8-10: 2x6 SP No.2

REACTIONS.

(size) 14=0-3-0, 10=0-3-0
Max Horz 14=345(LC 11)
Max Uplift 14=-53(LC 12), 10=-53(LC 13)
Max Grav 14=1532(LC 2), 10=1532(LC 2)

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

TOP CHORD 2-3=-1318/43, 3-4=-648/108, 4-5=-484/105, 5-6=-484/105, 6-7=-648/108, 7-8=-1318/43,
2-14=-1610/68, 8-10=-1610/68
BOT CHORD 13-14=-344/322, 11-13=-8/1051
WEBS 13-15=-119/474, 3-15=-39/476, 17-18=-504/1, 11-16=-119/474, 7-16=-39/476,
2-13=0/1249, 8-11=0/1250, 4-17=-50/282, 6-18=-50/282, 3-17=-588/58, 7-18=-588/58

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 27-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 15-17, 17-18, 16-18; Wall dead load (5.0psf) on member(s).13-15, 11-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 14 and 53 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

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

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

October 31,2022

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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

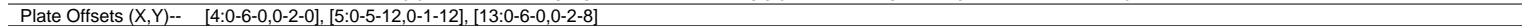


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:13 2022 Page 1

ID:5kez92kBE1JDppQh7mes7yOyoX-UAspowJu6hA4GHl1wqblmVSCg3ZW8kNadEjNM7yOwga

TOP CHORD UNDER PIGGYBACKS TO BE LATERALLY BRACED BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL) 4x8 = 6x8 = Scale = 1:68.7



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-3 max.): 4-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 4-13, 5-12
	2-15,7-9: 2x6 SP No.2		

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

TOP CHORD	2-3=688/190, 3-4=722/264, 4-5=723/275, 5-6=1088/315, 6-7=876/216, 2-15=1051/263, 7-9=1028/278
BOT CHORD	14-15=327/300, 13-14=251/648, 12-13=229/724, 11-12=219/836, 10-11=149/761
WEBS	3-14=331/97, 4-12=76/344, 5-11=148/490, 6-11=148/294, 6-10=537/133, 2-14=87/697, 7-10=114/742

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October 31.2022

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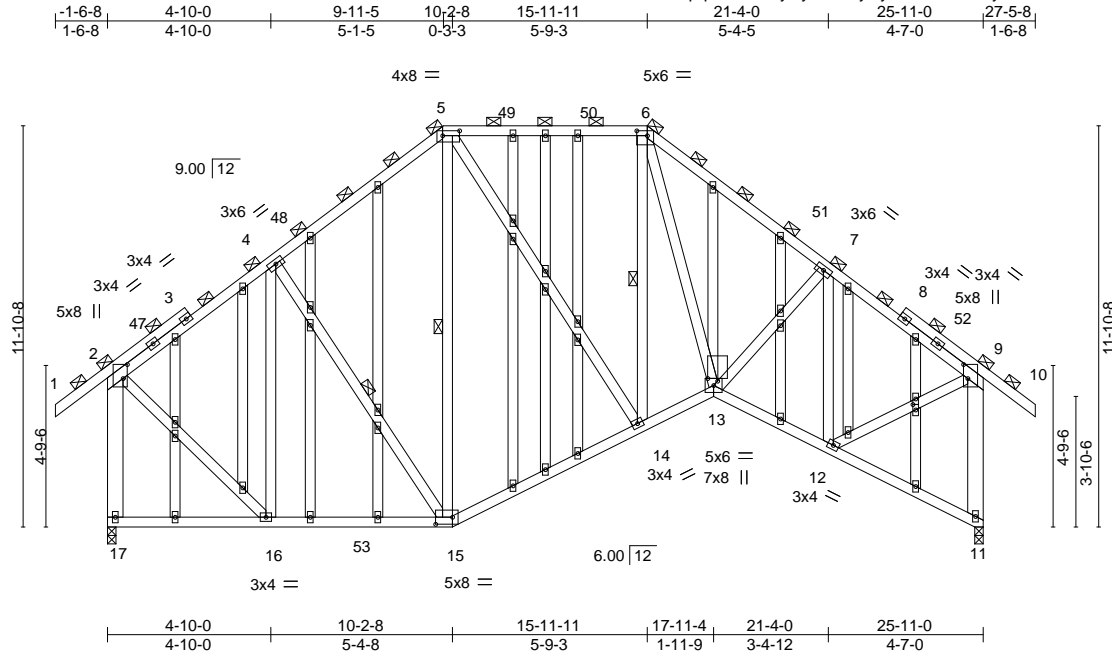
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088681
3264860	T08G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:16 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-vlYyQyLmPcYf7k1cby9?N74mBGboL6h0JCx1zSyOwgX



Scale = 1:68.2

Plate Offsets (X,Y)-- [2:0-5-0,0-1-8], [5:0-6-0,0-1-12], [6:0-3-12,0-1-12], [9:0-5-0,0-1-8], [13:0-0-15,0-3-8], [15:0-6-0,0-2-8], [23:0-1-15,0-1-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL)	-0.05 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.36	Vert(CT)	-0.09 14-15	>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: 350 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-17,9-11: 2x6 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (5-4-11 max.), except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-15, 6-14, 5-15

REACTIONS.

(size) 17=0-3-0, 11=0-3-0
 Max Horz 17=347(LC 11)
 Max Uplift 17=221(LC 12), 11=222(LC 13)
 Max Grav 17=1114(LC 2), 11=1093(LC 2)

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

TOP CHORD 2-4=-704/186, 4-5=-744/248, 5-6=-713/257, 6-7=-1153/320, 7-9=-916/206,
 2-17=-1049/262, 9-11=-1031/278
 BOT CHORD 16-17=-321/300, 15-16=-248/678, 14-15=-220/738, 13-14=-203/851, 12-13=-166/817
 WEBS 4-16=-331/101, 5-14=-52/343, 6-14=-255/87, 6-13=-144/585, 7-13=-136/278,
 7-12=-556/143, 2-16=-95/709, 9-12=-127/780

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-11-0, Exterior(2R) 9-11-0 to 14-1-15, Interior(1) 14-1-15 to 15-11-11, Exterior(2R) 15-11-11 to 20-2-10, Interior(1) 20-2-10 to 27-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 17 and 222 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

October 31,2022

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088682
3264860	T09	Common	3	1	Job Reference (optional)	

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

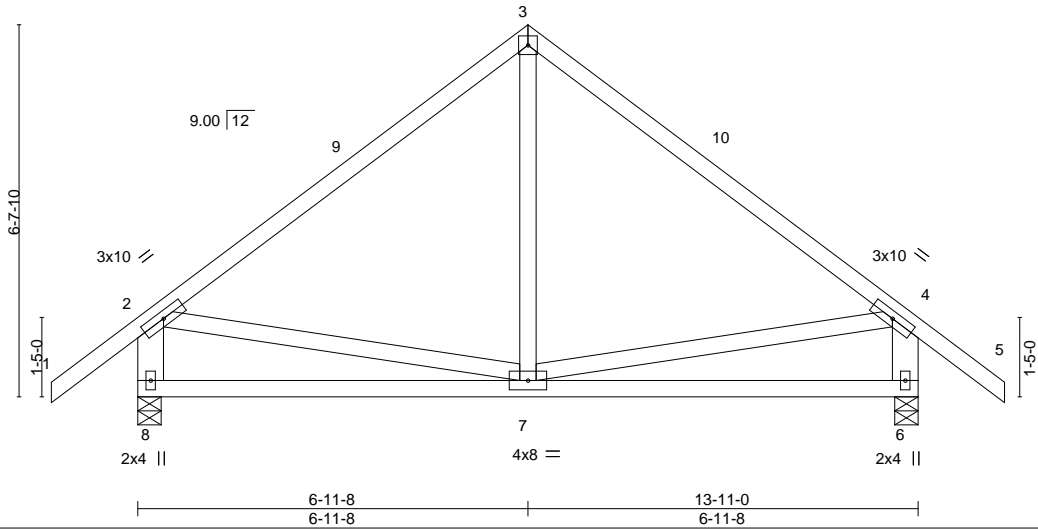
8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:17 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-Nx6KdIMOAvGwUuco9fgEwKdxTgwU4dL9YshaVuyOwgW



4x4 =

Scale = 1:41.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.39	Vert(CT)	-0.08	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 86 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8,4-6: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 8=0-5-0, 6=0-5-0
Max Horz 8=193(LC 11)
Max Uplift 8=144(LC 12), 6=144(LC 13)
Max Grav 8=594(LC 1), 6=594(LC 1)

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

TOP CHORD 2-3=-475/161, 3-4=-475/161, 2-8=-534/244, 4-6=-534/244
BOT CHORD 7-8=-221/313
WEBS 3-7=-3/253

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 6-11-8, Exterior(2R) 6-11-8 to 9-11-8, Interior(1) 9-11-8 to 15-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 8 and 144 lb uplift at joint 6.

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

October 31,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088683
3264860	T09G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:18 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-r8gireM1xDoNN2B_iNBTTYAAR4MHP4vJnWQ81KyOwgV

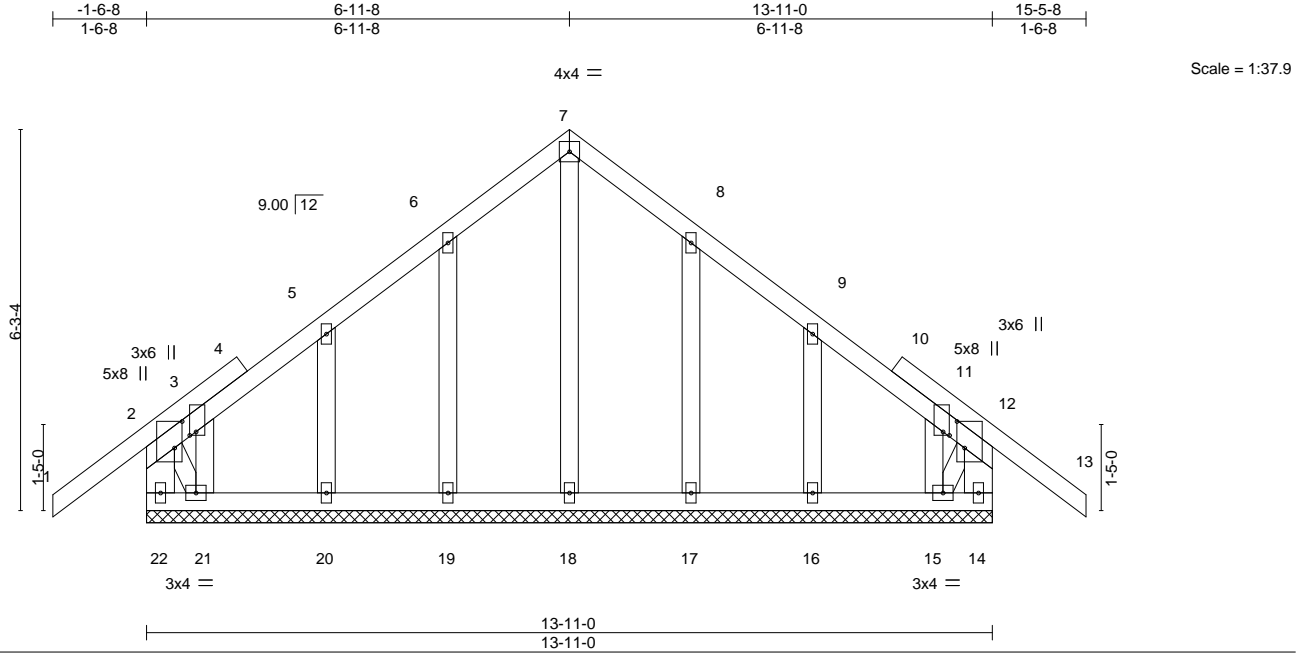


Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [3:0-0-11,0-1-4], [11:0-0-11,0-1-4], [12:0-5-4,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL)	-0.01	13	n/r	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT)	-0.02	13	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2 *Except*
 2-21,12-15: 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 6-0-0 oc bracing.

REACTIONS.

All bearings 13-11-0.
 (lb) - Max Horz 22=178(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 19, 20, 17, 16 except 22=134(LC 8), 21=165(LC 12), 15=148(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 14, 18, 19, 20, 21, 17, 16, 15 except 22=250(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 6-11-8, Corner(3R) 6-11-8 to 9-11-8, Exterior(2N) 9-11-8 to 15-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 19, 20, 17, 16 except (it=lb) 22=134, 21=165, 15=148.

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

October 31,2022

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 Chesterfield, MO 63017

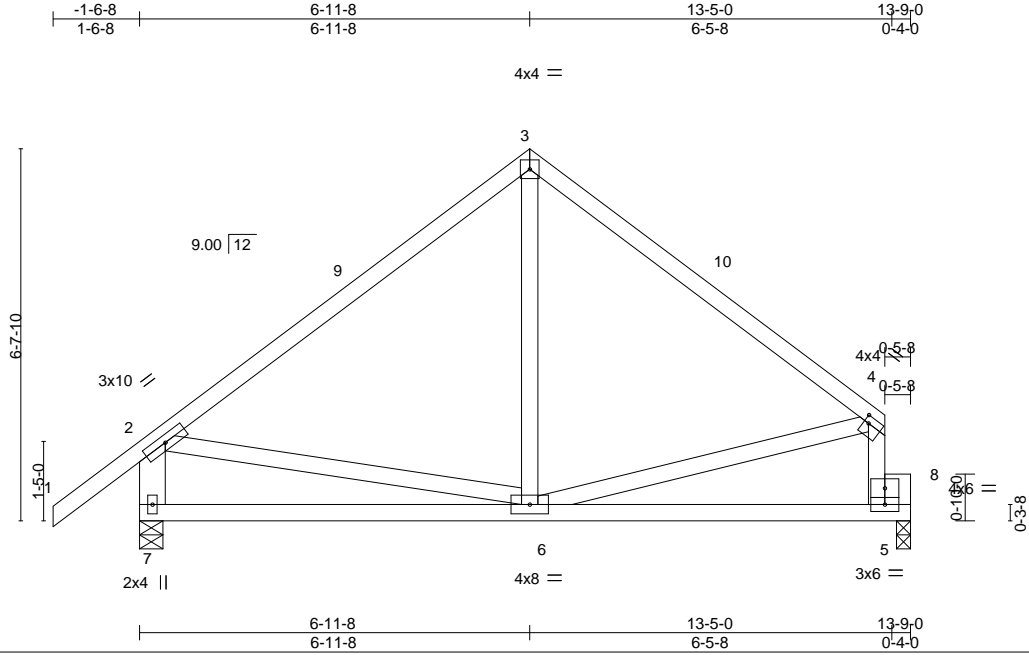
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088685
3264860	T11	Common	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:20 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-nWnSGJOHTq25cMKNQoDxYzFSluxEH_AcEqvF6DyOwgT



Scale = 1:41.1

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.39	Vert(CT)	-0.11	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 82 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 7=0-5-0, 5=0-3-0
 Max Horz 7=162(LC 9)
 Max Uplift 7=140(LC 12), 5=93(LC 13)
 Max Grav 7=588(LC 1), 5=468(LC 1)

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

TOP CHORD 2-3=-465/158, 3-4=-449/159, 2-7=-524/247, 4-5=-437/171
 BOT CHORD 6-7=-235/290

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 6-11-8, Exterior(2R) 6-11-8 to 9-11-8, Interior(1) 9-11-8 to 13-1-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=140.

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

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088686
3264860	T12G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:22 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-jvDg?QX?SJosfUlxDGPdOKrihhmlu2vi8OLA5yOwgR



Scale = 1:46.4

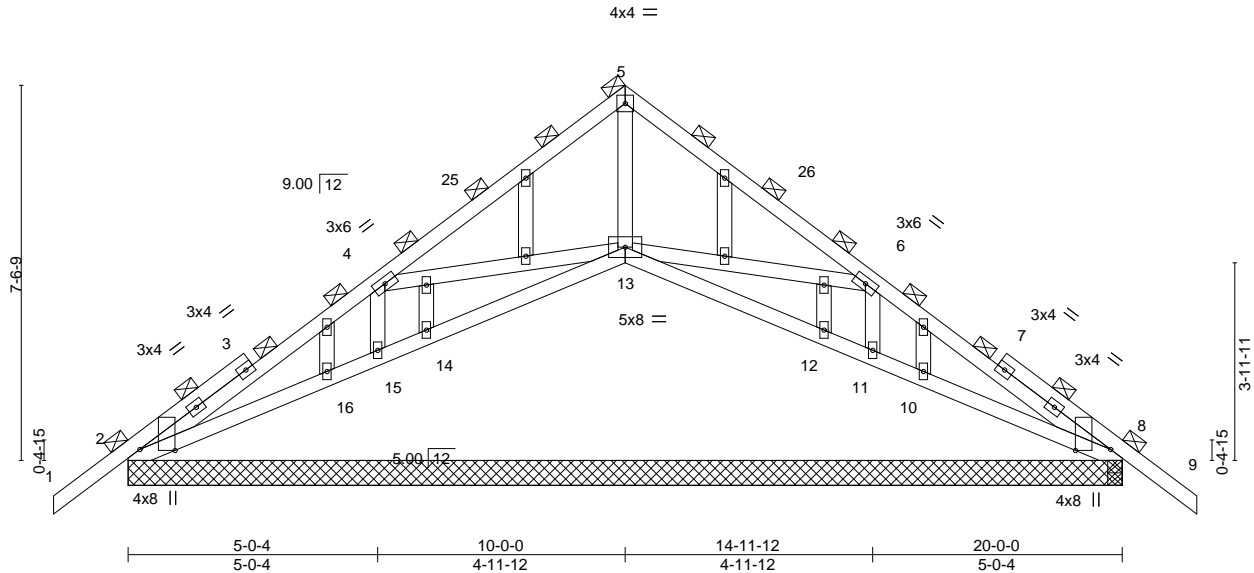


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [8:0-0-4,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.29	Vert(LL)	-0.01	2-16	>999	240	MT20
TCDL 7.0	Lumber DOL 1.25		BC 0.13	Vert(CT)	-0.01	2-16	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr YES		WB 0.07	Horz(CT)	0.00	8	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						
								Weight: 117 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 20-0-0.
(lb) - Max Horz 2=194(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=124(LC 13), 8=129(LC 13), 11=193(LC 13), 15=231(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 8, 11, 14, 16, 12, 10 except 13=312(LC 19), 15=275(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-11=299/184, 4-15=345/222

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=124, 8=129, 11=193, 15=231.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

October 31,2022

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088687
3264860	T13	Roof Special	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:23 2022 Page 1

ID:5kez92kBE1JDEpqOh7mes7yOyoX-C5TbuLQ9lIRfTp3yVwneAbtyD5_3UFy2wo8vjYyOwGQ



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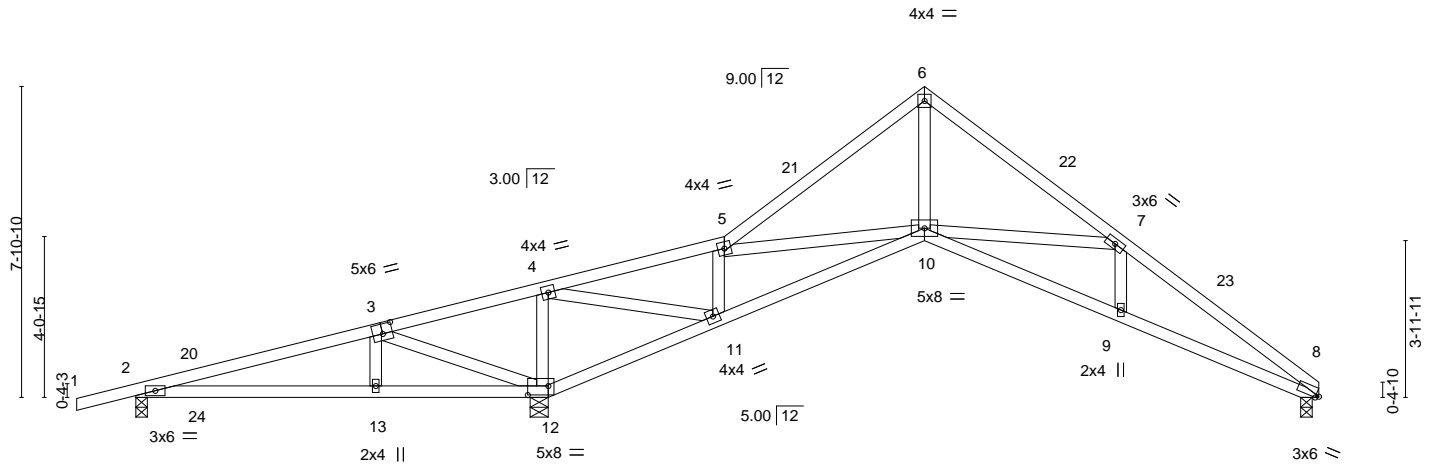


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [8:0-1-0,Edge], [12:0-6-4,0-2-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) 0.08	13-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.14	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.10	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 144 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-9 oc bracing.

REACTIONS.

(size) 8=0-3-8, 2=0-3-8, 12=0-5-8
Max Horz 2=194(LC 9)
Max Uplift 8=153(LC 13), 2=262(LC 8), 12=380(LC 12)
Max Grav 8=578(LC 1), 2=257(LC 23), 12=1519(LC 1)

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

TOP CHORD 2-3=-65/542, 3-4=-397/1068, 4-5=-256/109, 5-6=-842/113, 6-7=-846/150,
7-8=-1430/339
BOT CHORD 2-13=-455/101, 12-13=-460/99, 11-12=-1158/509, 10-11=-70/357, 9-10=-211/1190,
8-9=-214/1179
WEBS 3-13=-324/242, 3-12=-753/842, 4-12=-746/231, 4-11=-276/1239, 5-11=-652/210,
5-10=-55/399, 6-10=-39/642, 7-10=-533/336

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 30-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=153, 2=262, 12=380.

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

Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088688
3264860	T13G	GABLE	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:24 2022 Page 1

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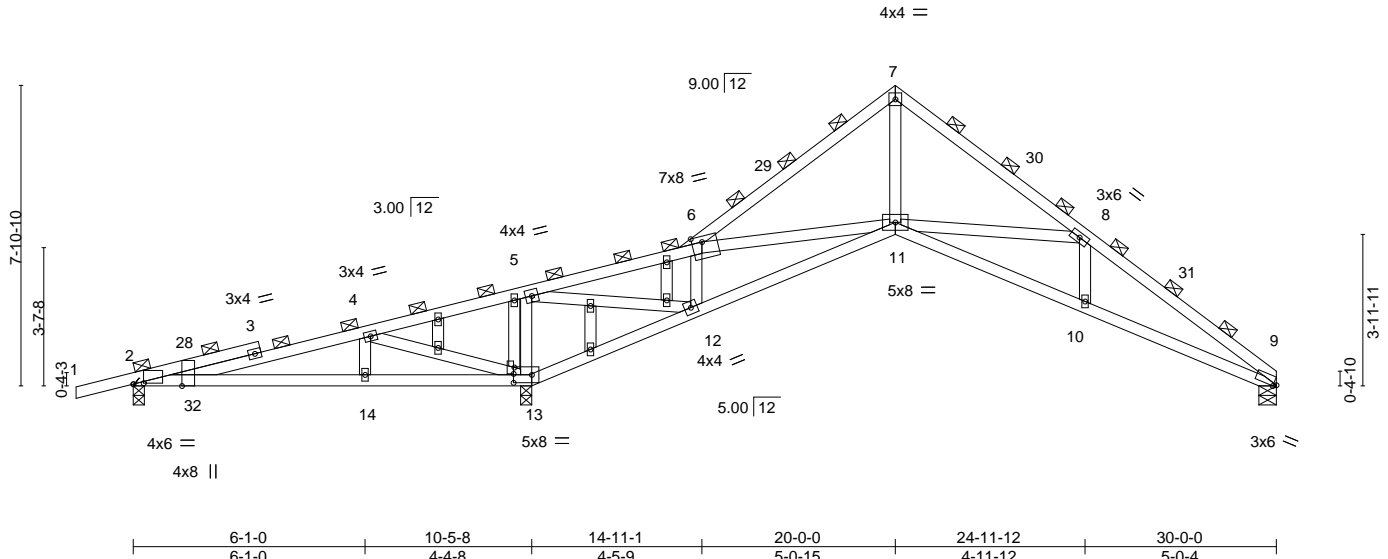


Plate Offsets (X,Y)-- [2:0-3-4,0-0-5], [2:0-0-9,Edge], [6:0-3-4,0-1-12], [9:0-1-0,Edge], [13:0-5-12,0-2-8], [13:0-2-0,0-0-4]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.38	Vert(LL) -0.07 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.53	Vert(CT) -0.14 10-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 154 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins (4-9-3 max.).
BOT CHORD Rigid ceiling directly applied or 5-2-15 oc bracing.

REACTIONS.

(size) 2=0-3-8, 9=0-5-8, 13=0-3-8
Max Horz 2=193(LC 11)
Max Uplift 2=257(LC 8), 9=152(LC 13), 13=382(LC 12)
Max Grav 2=255(LC 23), 9=582(LC 1), 13=1506(LC 1)

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

TOP CHORD 2-4=-99/613, 4-5=-521/1165, 5-6=-352/114, 6-7=-876/106, 7-8=-860/148,
8-9=-1441/314
BOT CHORD 2-14=-527/104, 13-14=-527/104, 12-13=-1263/624, 11-12=-60/425, 10-11=-192/1200,
9-10=-193/1188
WEBS 4-14=-298/218, 4-13=-779/954, 5-13=-739/235, 5-12=-311/1402, 6-12=-632/202,
6-11=-129/413, 7-11=-31/679, 8-11=-531/335

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 30-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257, 9=152, 13=382.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

October 31,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088689
3264860	T14	Roof Special	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:26 2022 Page 1

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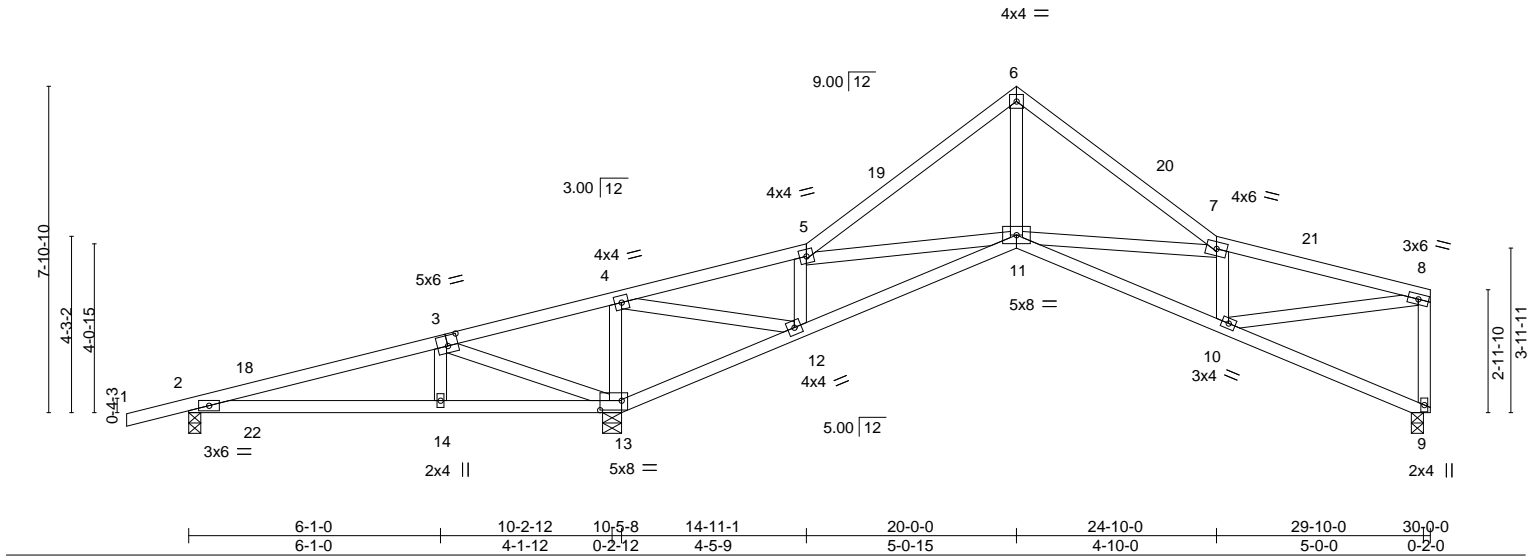


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [13:0-6-4,0-2-12]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.08 14-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.11 10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.08 9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 153 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-11 oc bracing.

REACTIONS.

(size) 9=0-3-8, 2=0-3-8, 13=0-5-8
Max Horz 2=186(LC 12)
Max Uplift 9=145(LC 13), 2=245(LC 8), 13=396(LC 12)
Max Grav 9=581(LC 1), 2=266(LC 23), 13=1490(LC 1)

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

TOP CHORD 2-3=-117/463, 3-4=-499/1001, 4-5=-290/77, 5-6=-857/170, 6-7=-853/185, 7-8=-1069/272, 8-9=-545/173
BOT CHORD 2-14=-396/97, 13-14=-401/94, 12-13=-1088/507, 11-12=-116/401, 10-11=-276/1145
WEBS 3-14=-325/241, 3-13=-750/844, 4-13=-745/250, 4-12=-346/1234, 5-12=-648/253, 5-11=-134/352, 6-11=-80/655, 7-11=-439/239, 7-10=-481/174, 8-10=-228/991

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 29-10-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=145, 2=245, 13=396.

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

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

October 31,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088690
3264860	T15	Piggyback Base	5	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc.
Fri Oct 28 09:21:27 2022
Page 1
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1-6-0

6-1-0
6-1-0

10-5-8
4-4-8

14-11-1
4-5-9

20-0-0
5-0-15

22-10-15
2-10-15

27-10-15
5-0-0

29-6-8
1-7-9

36-3-8
6-9-0

37-10-0
1-6-8

Scale = 1:68.6

Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [7:0-4-0,0-2-0], [8:0-6-0,0-2-0], [13:0-5-12,0-2-8], [17:0-6-4,0-2-12]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.53		Vert(LL)	0.08 18-21	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.41		Vert(CT)	-0.15 13-14	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.63		Horz(CT)	0.08 12	n/a	n/a		
BCDL 10.0		Code	FBC2020/TP12014	Matrix-MS						Weight: 231 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-1-2 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt
	10-12: 2x6 SP No.2		8-13, 9-13

REACTIONS.	(size) 2=0-3-8, 17=0-5-8, 12=0-5-0
	Max Horz 2=302(LC 11)
	Max Uplift 2=-278(LC 8), 17=-448(LC 12), 12=-200(LC 13)
	Max Grav 2=183(LC 23), 17=1760(LC 1), 12=920(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-141/712, 3-4=-568/1220, 4-5=-488/105, 5-6=-1371/346, 6-7=-845/348, 7-8=-634/311, 8-9=-633/459, 9-10=-684/292, 10-12=-854/366
BOT CHORD	2-18=-569/75, 17-18=-574/72, 16-17=-1329/577, 15-16=-122/600, 14-15=-275/1135, 13-14=-102/527
WEBS	3-18=-326/244, 3-17=-758/845, 4-17=-920/306, 4-16=-470/1648, 5-16=-896/330, 5-15=-229/563, 6-15=-127/735, 6-14=-823/255, 7-14=-91/299, 8-14=-107/339, 8-13=-248/266, 9-13=-308/268, 10-13=-52/477

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 37-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 17=448, 12=200.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

October 31,2022

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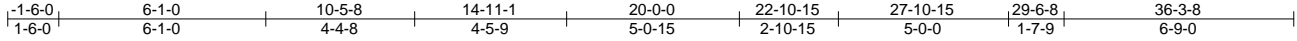
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088692
3264860	T16	Piggyback Base	3	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:31 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-zeydZ4XAAtCRXR2gUzcwWUHCIFJgRMqaDm14K?4yOwgl



Scale = 1:67.7

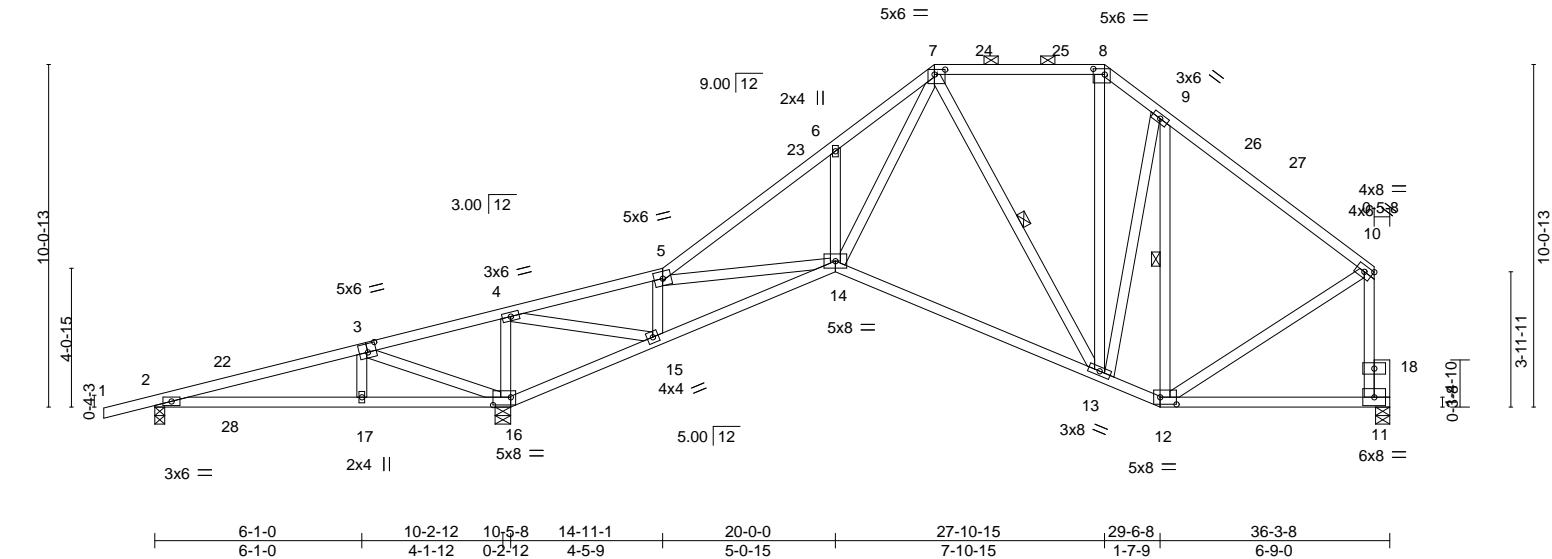


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [7:0-3-12,0-1-12], [8:0-4-0,0-2-0], [12:0-5-12,0-2-8], [16:0-6-4,0-2-12]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.62	Vert(LL)	-0.13 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.54	Vert(CT)	-0.28 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT)	0.08 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 231 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-0-14 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-13, 9-12
OTHERS 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 16=0-5-8, 11=0-5-0
Max Horz 2=295(LC 11)
Max Uplift 2=272(LC 8), 16=457(LC 12), 11=147(LC 13)
Max Grav 2=179(LC 23), 16=1765(LC 1), 11=801(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-175/713, 3-4=-678/1240, 4-5=-458/74, 5-6=-1367/384, 6-7=-1353/546,
7-8=-477/308, 8-9=-661/391, 9-10=-661/271, 10-11=-738/267
BOT CHORD 2-17=-586/78, 16-17=-591/76, 15-16=-1350/594, 14-15=-120/569, 13-14=-197/691,
12-13=-157/510
WEBS 3-17=-327/243, 3-16=-758/849, 4-16=-915/330, 4-15=-529/1637, 5-15=-902/362,
5-14=-307/587, 6-14=-292/245, 7-14=-327/991, 7-13=-322/160, 8-13=-169/286,
9-12=-392/134, 10-12=-108/455

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 35-8-4 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 2, 457 lb uplift at joint 16 and 147 lb uplift at joint 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088693
3264860	T17	Piggyback Base	1	1	Job Reference (optional)	

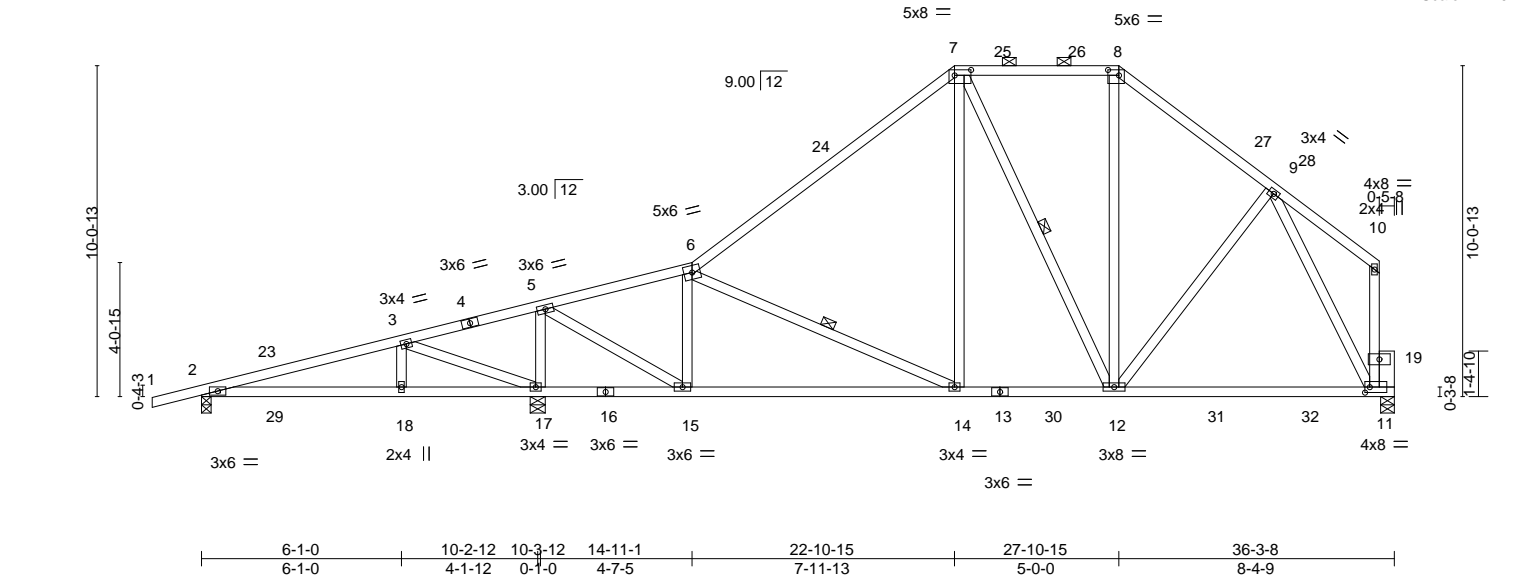
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:32 2022 Page 1

ID:5kez92kBE1JDepqOh7mes7yOyoX-RqW?nQXpeWZO2CFgXJRI1VIOlj_E5EUN?hptXWyoWgH

1-6-0	6-1-0	10-3-12	14-11-1	22-10-15	27-10-15	32-6-0	36-3-8
1-6-0	6-1-0	4-2-12	4-7-5	7-11-13	5-0-0	4-7-1	3-9-8

Scale = 1:70.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.19 11-12 >999	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.31 11-12 >981				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02 11 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 227 lb		FT = 20%	

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 17=0-5-8, 11=0-5-0
Max Horz 2=295(LC 11)
Max Uplift 2=243(LC 8), 17=406(LC 12), 11=156(LC 13)
Max Grav 2=324(LC 23), 17=1670(LC 2), 11=994(LC 2)

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

TOP CHORD 2-3=192/397, 3-5=505/648, 5-6=828/119, 6-7=893/303, 7-8=573/322, 8-9=779/327
BOT CHORD 2-18=447/168, 17-18=447/168, 15-17=610/437, 14-15=164/833, 12-14=153/680, 11-12=167/445
WEBS 3-18=310/231, 3-17=807/856, 5-17=1283/481, 5-15=554/1545, 6-15=564/339, 7-14=19/317, 8-12=87/286, 9-11=846/294

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 35-8-4 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2, 406 lb uplift at joint 17 and 156 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

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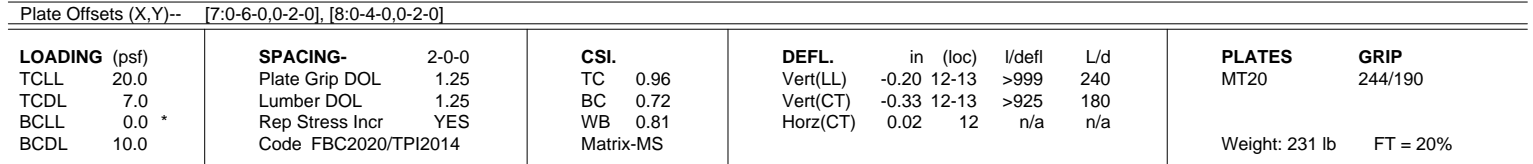
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:34 2022 Page 1
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 -1-6-0 6-1-0 10-3-12 14-11-1 22-10-15 27-10-15 32-6-0 36-3-8 37-10-0
 1-6-0 6-1-0 4-2-12 4-7-5 7-11-13 5-0-0 4-7-1 3-9-8 1-6-8



REACTIONS. (size) 2=0-3-8, 18=0-5-8, 12=0-5-0
 Max Horz 2=302(LC 11)
 Max Uplift 2=-246(LC 8), 18=-405(LC 12), 12=-207(LC 13)
 Max Grav 2=323(LC 23), 18=1674(LC 2), 12=1092(LC 2)

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

TOP CHORD	2-3=191/419, 3-5=450/651, 5-6=832/140, 6-7=898/314, 7-8=580/333, 8-9=787/339
BOT CHORD	2-19=407/166, 18-19=407/166, 16-18=613/454, 15-16=153/844, 13-15=127/696, 12-13=103/460
WEBS	3-19=310/231, 3-18=807/855, 5-18=1288/470, 5-16=539/1551, 6-16=566/331, 7-15=22/312, 8-13=91/287, 9-13=72/256, 9-12=854/210

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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 37-10-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 2, 405 lb uplift at joint 18 and 207 lb uplift at joint 12.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

October 31, 2022



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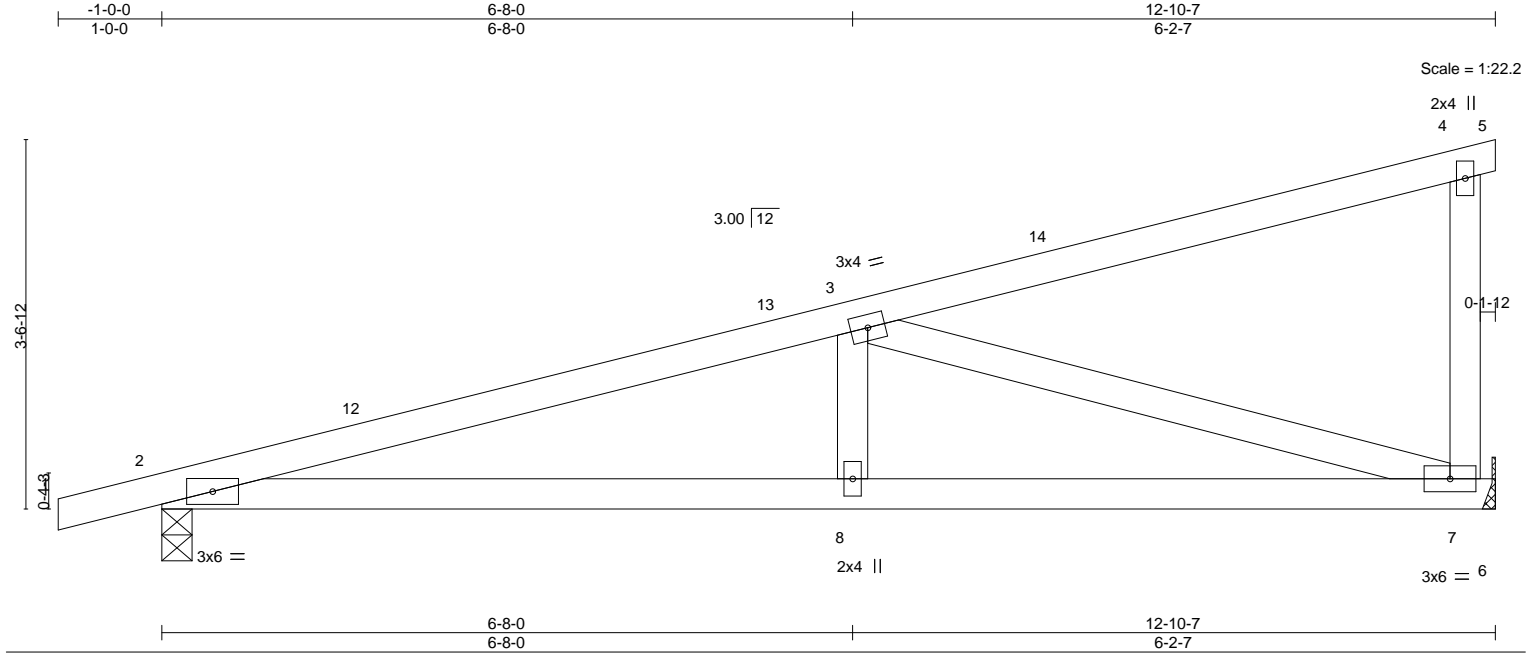
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:35 2022 Page 1
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 -1-6-0 7-0-0
 1-6-0 7-0-0



Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088696
3264860	T20	Jack-Closed	6	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:35 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-rPC7PSahxRxyvf_FCR_Sf7N1sx2Klcwphf2X8ryOwgE



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.07	8-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.48	Vert(CT)	-0.13	8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						Weight: 56 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 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS.

(size) 2=0-3-8, 7=Mechanical
Max Horz 2=130(LC 8)
Max Uplift 2=-167(LC 8), 7=-159(LC 8)
Max Grav 2=521(LC 1), 7=473(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1053/326
BOT CHORD 2-8=-423/1001, 7-8=-423/1001
WEBS 3-8=0/274, 3-7=-1005/415

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 12-10-7 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 167 lb uplift at joint 2 and 159 lb uplift at joint 7.

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

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
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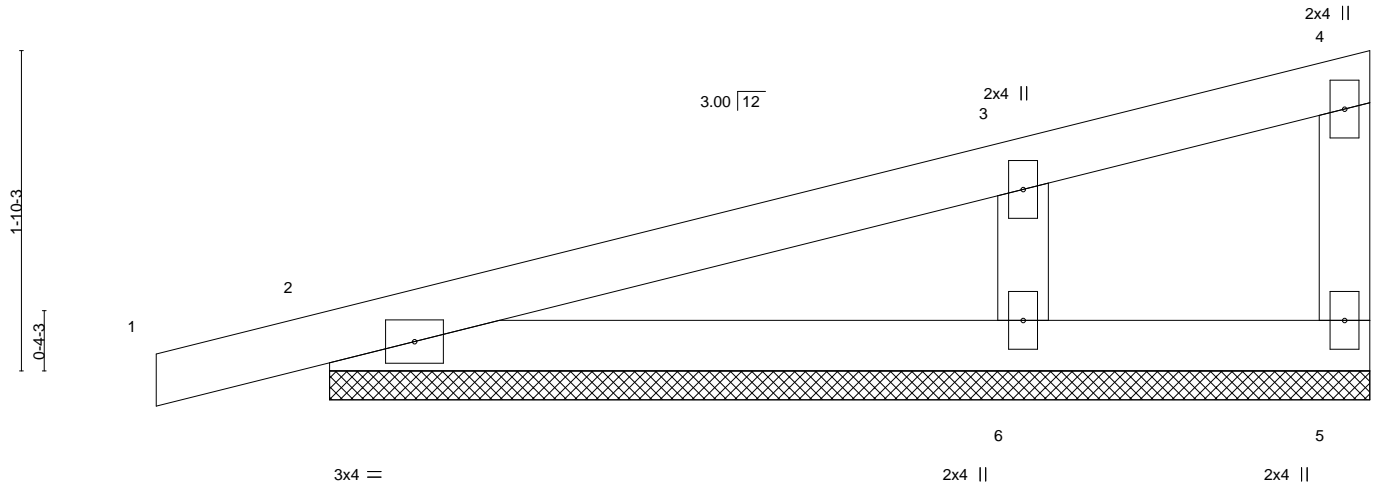
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088697
3264860	T20G	GABLE	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:36 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-JblWcoaJil3pXpZSm9WhBLvGLKU31DTywnJn5gHyOwGD



Scale = 1:13.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.13	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Horz(CT)	0.00		n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code FBC2020/TPI2014						Weight: 23 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) 2=6-0-0, 5=6-0-0, 6=6-0-0
Max Horz 2=65(LC 8)
Max Uplift 2=-73(LC 8), 5=-7(LC 8), 6=-95(LC 12)
Max Grav 2=183(LC 1), 5=14(LC 1), 6=290(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-4 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) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 2, 7 lb uplift at joint 5 and 95 lb uplift at joint 6.

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

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

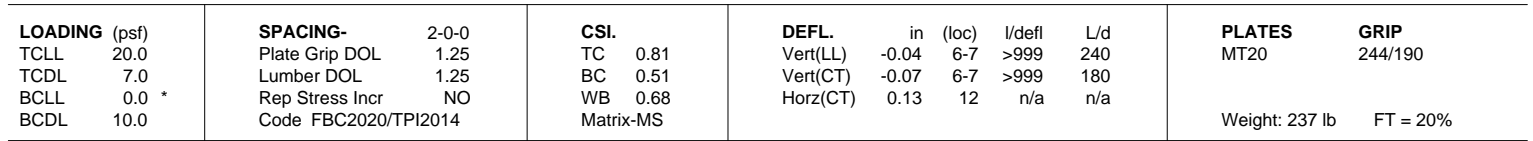
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource, Lake City, FL 32055 8.530 s Jan 6 2022 MiTek Industries, Inc. Fri Oct 28 14:16:39 2022 Page 1
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REACTIONS. (size) 11=0-3-2, 12=0-3-2
 Max Uplift 11=-1119(LC 4), 12=-1119(LC 4)
 Max Grav 11=3432(LC 1), 12=3432(LC 1)

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

TOP CHORD	8-9=-201/665, 1-9=-201/665, 1-2=-2930/958, 2-3=-2930/958, 3-4=-2930/958, 5-10=-202/668, 4-10=-202/668
BOT CHORD	7-8=-145/442, 6-7=-958/2930, 5-6=-132/402
WEBS	1-7=-1148/3511, 2-7=-851/312, 3-6=-906/330, 4-6=-1166/3569, 1-11=-3507/1144, 4-12=-3534/1153

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) interior zone; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for applying roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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) 11, 12 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 1119 lb uplift at joint 11 and 1119 lb uplift at joint 12.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 453 lb down and 179 lb up at 2-0-0, 453 lb down and 179 lb up at 4-0-0, 453 lb down and 179 lb up at 6-0-0, 453 lb down and 179 lb up at 8-0-0, and 453 lb down and 179 lb up at 10-0-0, and 453 lb down and 179 lb up at 12-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

October 31, 2022



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.	T29088698
3264860	TG01	Roof Special Girder	1	2	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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8.530 s Jan 6 2022 MiTek Industries, Inc. Fri Oct 28 14:16:39 2022 Page 2

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-179(B=-125), 5-8=-145(B=-125)

Concentrated Loads (lb)

Vert: 13=-453(F) 14=-453(F) 15=-453(F) 16=-453(F) 17=-453(F) 18=-453(F)

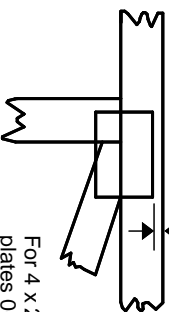


Symbols

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.

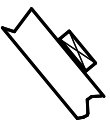
*** Plate location details available in MITek 20/20 software or upon request.**

PLATE SIZE

4 X 4

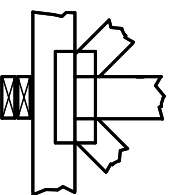
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



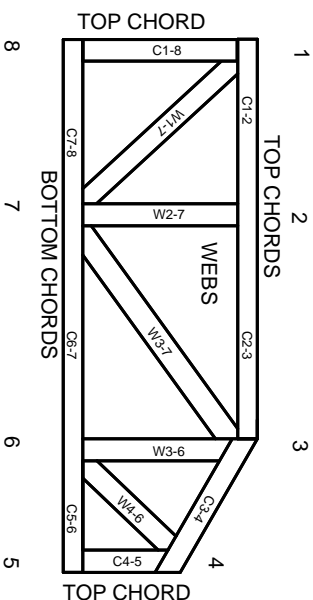
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.