



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

73

RE: 3761058 - SIMQUE - RAULERSON RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.954.1200

Site Information:

Customer Info: AARON SIMQUE HOMES Project Name: Raulerson Res. Model: 341058
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

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

This package includes 41 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	T32259156	CJ01	12/5/23	15	T32259170	T04	12/5/23
2	T32259157	EJ01	12/5/23	16	T32259171	T05G	12/5/23
3	T32259158	HJ03	12/5/23	17	T32259172	T06	12/5/23
4	T32259159	PB01	12/5/23	18	T32259173	T06G	12/5/23
5	T32259160	PB01G	12/5/23	19	T32259174	T07	12/5/23
6	T32259161	PB02	12/5/23	20	T32259175	T08	12/5/23
7	T32259162	PB03	12/5/23	21	T32259176	T09	12/5/23
8	T32259163	PB03G	12/5/23	22	T32259177	T10	12/5/23
9	T32259164	PB04	12/5/23	23	T32259178	T11	12/5/23
10	T32259165	PB05	12/5/23	24	T32259179	T12	12/5/23
11	T32259166	T01	12/5/23	25	T32259180	T13	12/5/23
12	T32259167	T01G	12/5/23	26	T32259181	T14	12/5/23
13	T32259168	T02	12/5/23	27	T32259182	T15	12/5/23
14	T32259169	T03	12/5/23	28	T32259183	T16	12/5/23



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, 2025.

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



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

December 5, 2023

O'Regan, Philip

1 of 2



RE: 3761058 - SIMQUE - RAULERSON RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: AARON SIMQUE HOMES Project Name: Raulerson Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

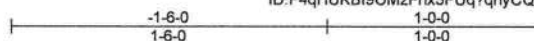
No.	Seal#	Truss Name	Date
29	T32259184	T17	12/5/23
30	T32259185	T18	12/5/23
31	T32259186	T19	12/5/23
32	T32259187	T19G	12/5/23
33	T32259188	T20	12/5/23
34	T32259189	T20G	12/5/23
35	T32259190	T21	12/5/23
36	T32259191	T21G	12/5/23
37	T32259192	T22	12/5/23
38	T32259193	T23	12/5/23
39	T32259194	T23G	12/5/23
40	T32259195	T24	12/5/23
41	T32259196	T24G	12/5/23



Job 3761058	Truss CJ01	Truss Type Jack-Open	Qty 2	Ply 1	SIMQUE - RAULERSON RES. T32259156
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:16 2023 Page 1
ID:F4qHUKBI9OMzFnx3FUq?qnYcQ4I-v0VvXpQ4_vP2JeRn9yKsJnYOxaqPFJ7mxyhXTXyCLx5



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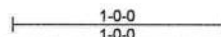
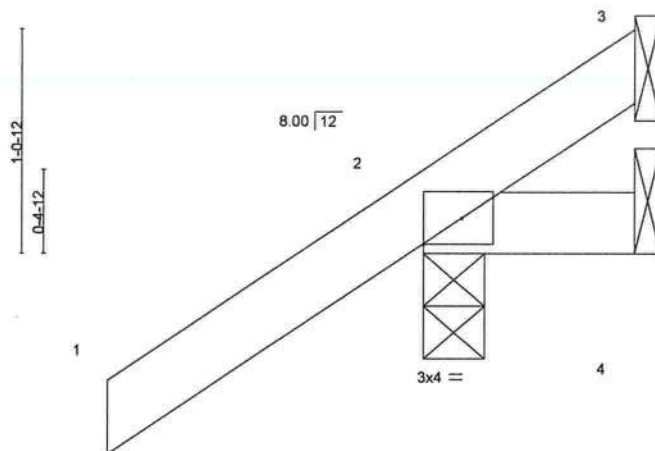


Plate Offsets (X,Y)---		[2:Edge,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.21	Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.06	Vert(CT)	0.00 7	>999	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=58(LC 12)
Max Uplift 3=5(LC 1), 2=81(LC 12), 4=20(LC 1)
Max Grav 3=8(LC 8), 2=179(LC 1), 4=24(LC 16)

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

NOTES-

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

This item has been 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:

December 5, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria and OSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259157
3761058	EJ01	Jack-Open	6	1		
Job Reference (optional)						

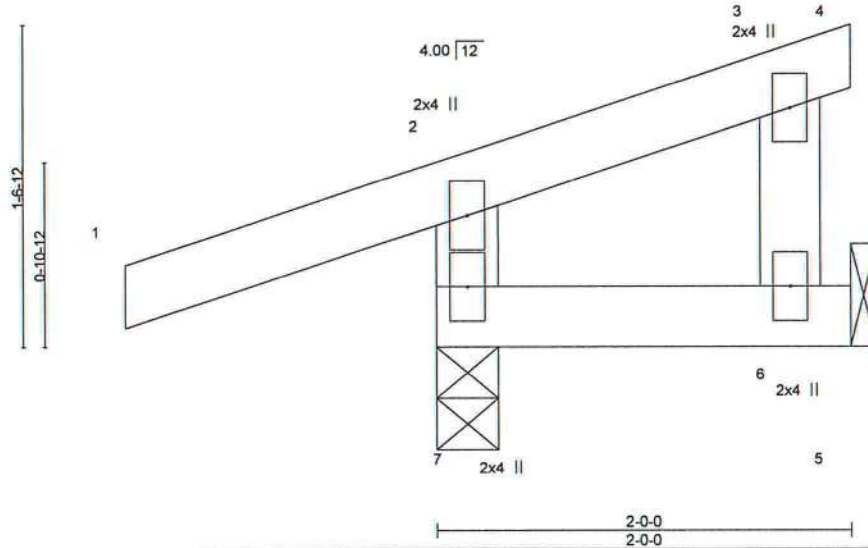
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:16 2023 Page 1

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Scale = 1:10.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00		n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						
									Weight: 11 lb FT = 20%

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

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

REACTIONS. (size) 7=0-3-8, 5=Mechanical
Max Horz 7=41(LC 8)
Max Uplift 7=-109(LC 8), 5=-17(LC 12)
Max Grav 7=196(LC 1), 5=40(LC 3)

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

NOTES-

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

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

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

Job 3761058	Truss HJ03	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SIMQUE - RAULERSON RES. T32259158
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:17 2023 Page 1					
Job Reference (optional) ID: F4qHUKBI9OMzFnx3FUq?qnycQ4I-NC2Hk9QilDXvxo0zifG5r?4Y8_8S_mNvAcQ5?zyCLx4					

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:17 2023 Page 1

ID: F4qHUKBI9OMzFnx3FUq?qnycQ4I-NC2Hk9QilDXvxo0zifG5r?4Y8_8S_mNvAcQ5?zyCLx4

-2-1-7
2-1-7

2-9-3
2-9-3

Scale = 1:13.6

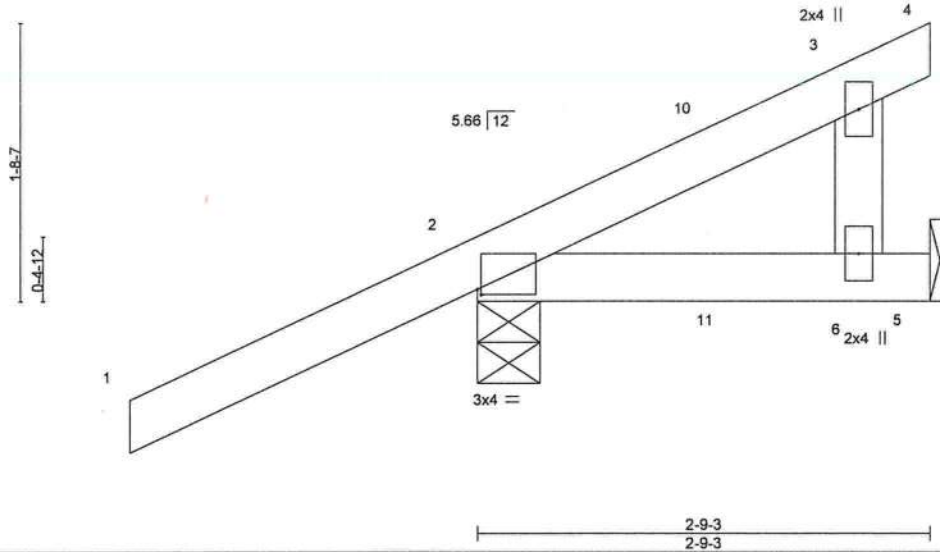


Plate Offsets (X,Y)--		[2:0-0-4,0-0-6]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.30		Vert(LL)	0.01 6-9	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.13		Vert(CT)	-0.01 6-9	>999	180		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.00		Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0		Code FBC2023/TP12014		Matrix-MP						Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-9, 5=Mechanical
Max Horz 2=82(LC 28)
Max Uplift 2=-120(LC 8), 5=-87(LC 17)
Max Grav 2=259(LC 1), 5=104(LC 32)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=120.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 69 lb up at 1-6-1, and 65 lb down and 69 lb up at 1-6-1 on top chord, and 23 lb down and 43 lb up at 1-6-1, and 23 lb down and 43 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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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:

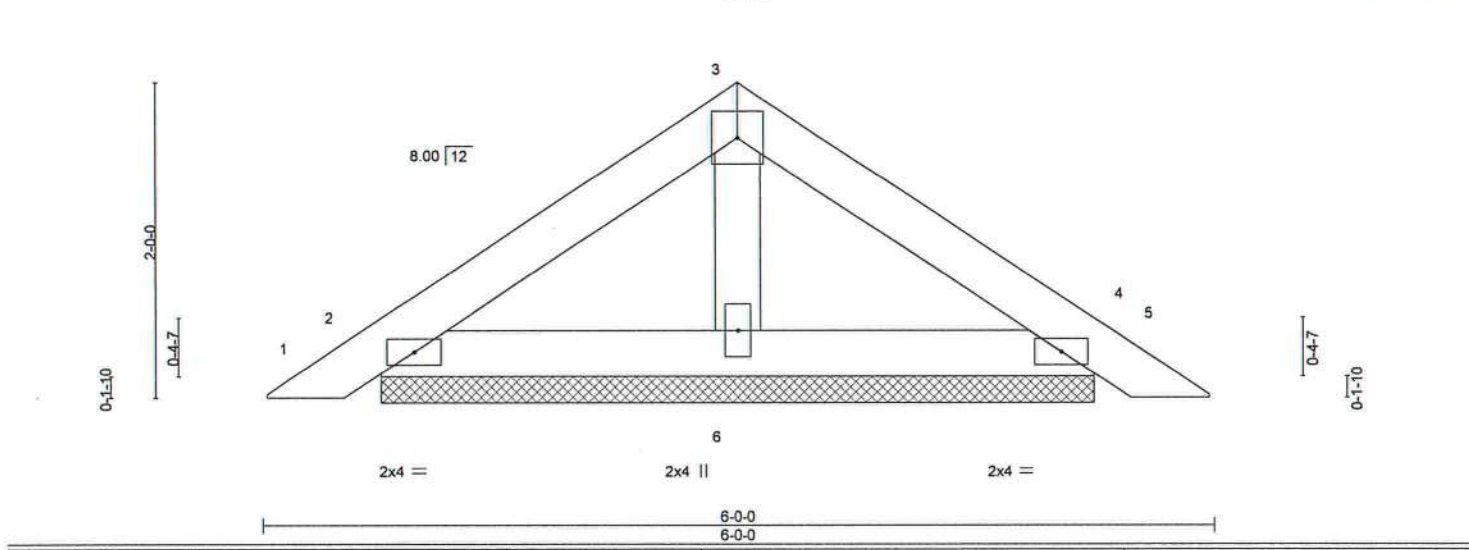
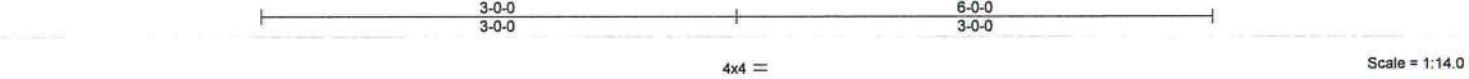
December 5, 2023

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

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

Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	PB01	Piggyback	17	1	T32259159

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:18 2023 Page 1
ID: F4qHUKBI9OMzFnX3FUq?qnYcQ4l-rPcgyVRLWWfmZybAHNnKOCdl?OWzjDG2PGAEXQyCLx3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	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	FBC2023/TPI2014	Matrix-P						Weight: 19 lb	FT = 20%

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

REACTIONS. (size) 2=4-5-12, 4=4-5-12, 6=4-5-12
Max Horz 2=-45(LC 10)
Max Uplift 2=-45(LC 12), 4=-51(LC 13), 6=-15(LC 12)
Max Grav 2=117(LC 1), 4=117(LC 1), 6=149(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 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:

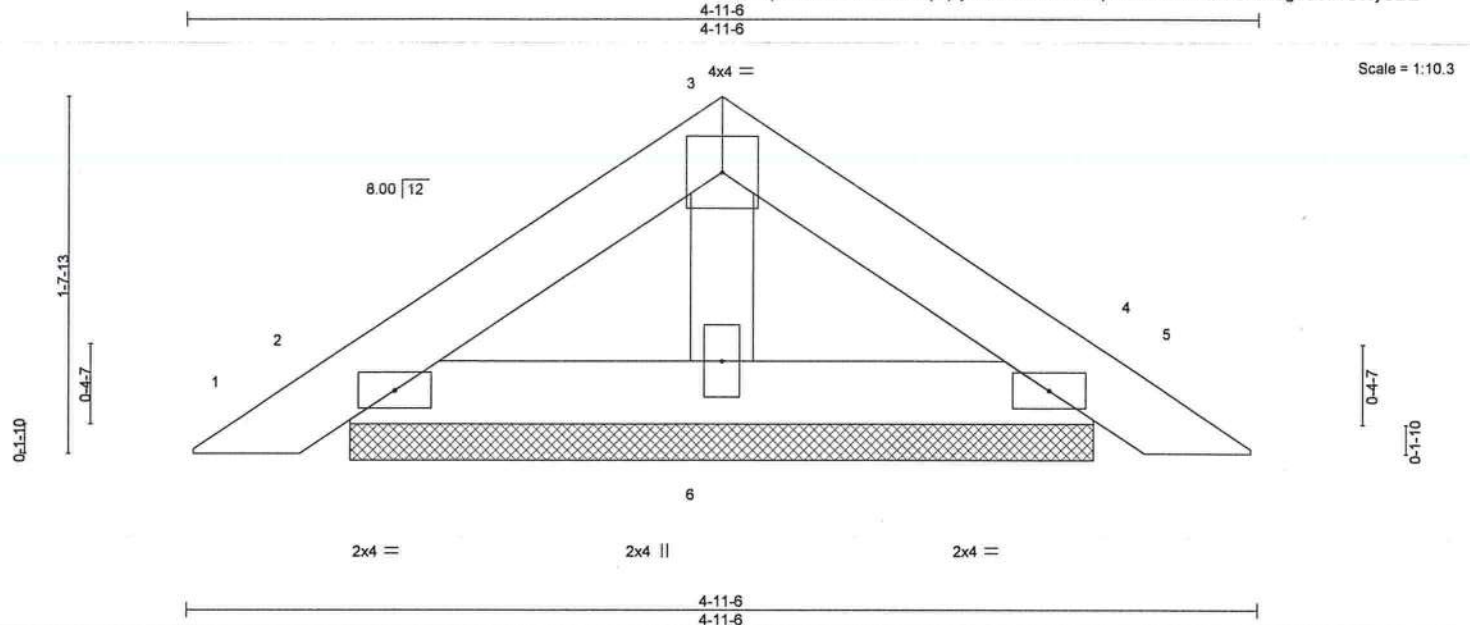
December 5, 2023

Job #	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259160
3761058	PB01G	GABLE	2	1	Job Reference (optional)	

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:19 2023 Page 1

ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-KbA29rSzHqndA6AMr4IZxQAxUnsXSgdCawvC3syCLx2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/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	Plate Grip DOL 1.25	BC 0.03	Vert(CT)	0.00	4	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						
	Code FBC2023/TPI2014						Weight: 15 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 4-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=3-5-2, 4=3-5-2, 6=3-5-2
Max Horz 2=36(LC 10)
Max Uplift 2=39(LC 12), 4=43(LC 13), 6=10(LC 12)
Max Grav 2=97(LC 1), 4=97(LC 1), 6=112(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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 100 lb uplift at joint(s) 2, 4, 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.59126
MiTek Inc. DBA MiTek USA 11, Corr 6654
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

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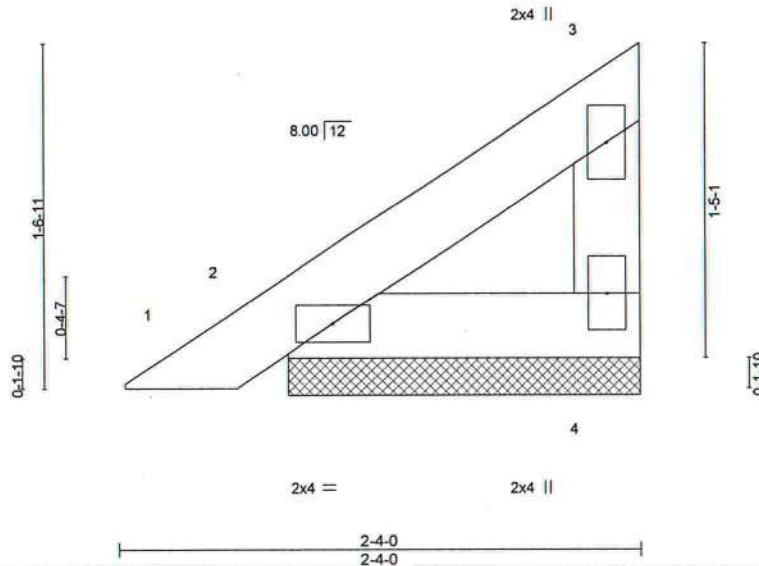
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	PB02	Piggyback	2	1	T32259161
Job Reference (optional)					

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:20 2023 Page 1
ID:F4qHUKBI9OMzFnX3FUq?qnYQ4I-onkQNBtb28vUoGIYOopoTdi6IBbVb77LsafclcyCLx1



Scale = 1:9.9

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 0.03	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P					Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=1-6-14, 2=1-6-14
Max Horz 2=48(LC 12)
Max Uplift 4=-28(LC 12), 2=-18(LC 12)
Max Grav 4=53(LC 19), 2=83(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16025 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5,2023

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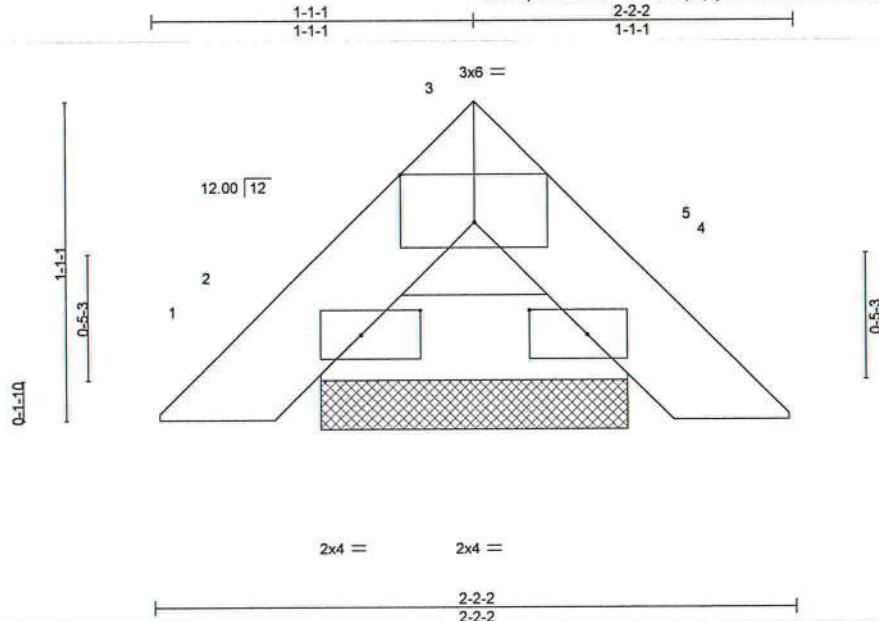
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	
3761058	PB03G	PIGGYBACK	1	1		T32259163
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:22 2023 Page 1
ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-kAsAosUralAC1ZvxWDrGY2oSP?iWf1ceKu8sgByCLx?



Scale = 1:7.5

Plate Offsets (X,Y)---		[2:0-2-6,0-1-0], [3:0-3-0,Edge], [4:0-2-6,0-1-0]													
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP					
TCLL 20.0	Plate Grip DOL	1.25	TC 0.01	Vert(LL)	-0.00	4	n/r	120	MT20	244/190					
TCDL 7.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	4	n/r	120							
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a							
BCDL 10.0	Code FBC2023/TP12014		Matrix-P												
									Weight: 6 lb	FT = 20%					

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=1-0-8, 4=1-0-8
Max Horz 2=22(LC 10)
Max Uplift 2=18(LC 12), 4=18(LC 13)
Max Grav 2=57(LC 1), 4=57(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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 1-1-1 to 1-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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:

December 5,2023

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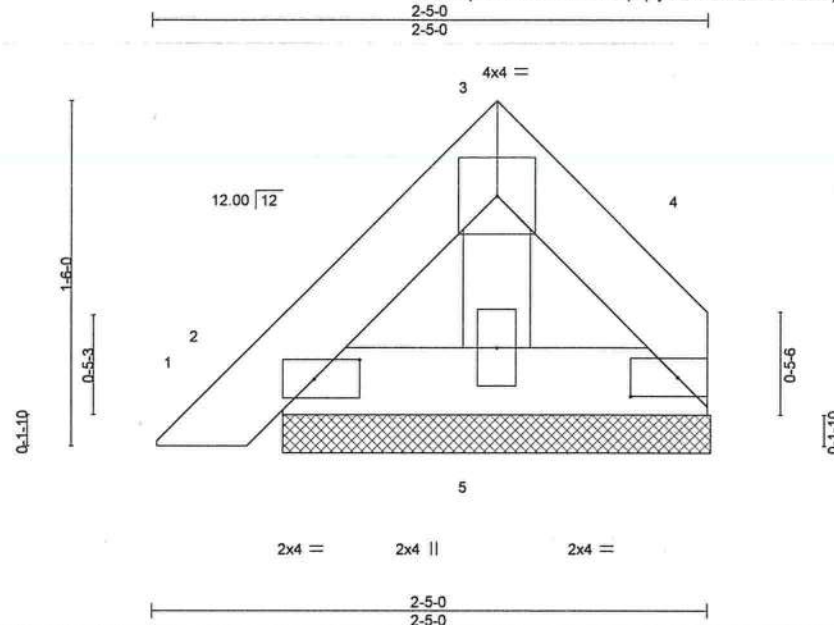
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Chesterfield, MO 63017
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Job 3761058	Truss PB04	Truss Type Piggyback	Qty 3	Ply 1	SIMQUE - RAULERSON RES. T32259164
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:23 2023 Page 1

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Scale = 1:9.6

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-7,0-1-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.03	Vert(LL)	0.00 1 n/r 120	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.01	Vert(CT)	0.00 1 n/r 120		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.01	Horz(CT)	0.00 4 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P				Weight: 9 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-10-6, 2=1-10-6, 5=1-10-6
Max Horz 2=29(LC 9)
Max Uplift 4=15(LC 13), 2=23(LC 12), 5=2(LC 12)
Max Grav 4=40(LC 1), 2=63(LC 1), 5=54(LC 3)

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

NOTES-

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

December 5, 2023

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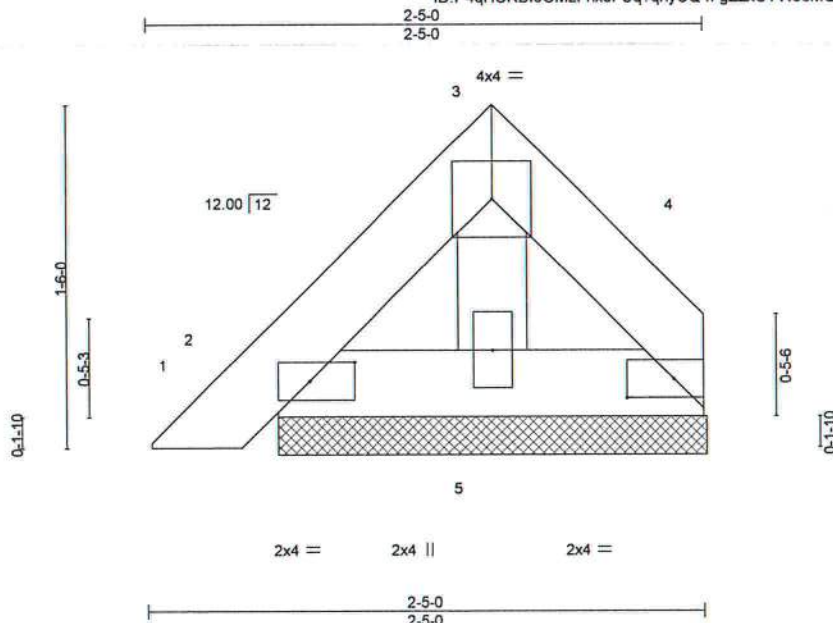
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	PB05	Piggyback	1	2	T32259165

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:24 2023 Page 1

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Scale = 1:9.6

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.01	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.00	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=1-10-6, 2=1-10-6, 5=1-10-6
Max Horz 2=29(LC 9)
Max Uplift 4=15(LC 13), 2=23(LC 12), 5=2(LC 12)
Max Grav 4=40(LC 1), 2=63(LC 1), 5=54(LC 3)

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

NOTES-

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

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Date:

December 5, 2023

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Chesterfield, MO 63017
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Job #	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259166
3761058	T01	Attic	9	1		

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:26 2023 Page 1

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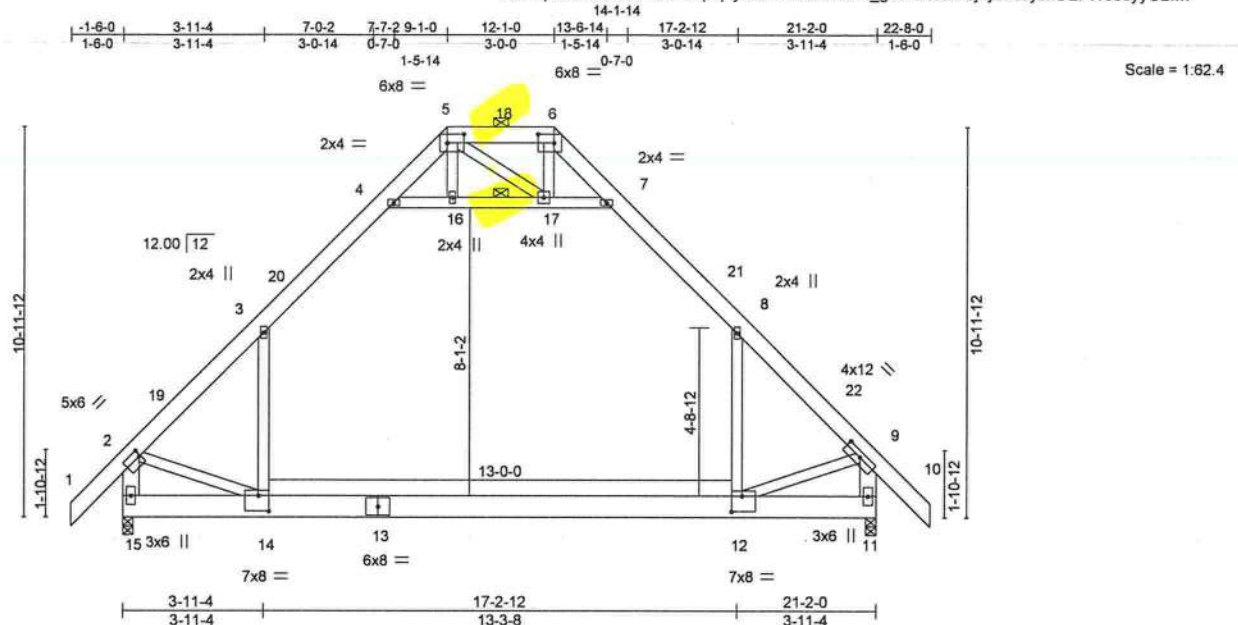


Plate Offsets (X,Y)-- [2-0-0-8,0-2-4], [5-0-5-8,0-3-0], [6-0-5-8,0-3-0], [9-0-6-0,0-1-12], [12-0-3-8,0-5-4], [14-0-3-8,0-5-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.39 12-14	>634	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.62 12-14	>404	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01 11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.28 12-14	575	360	Weight: 192 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP M 26 *Except*
5-6: 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-15,9-11: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 15=0-3-8, 11=0-3-8
Max Horz 15=-318(LC 10)
Max Uplift 15=-37(LC 12), 11=-38(LC 13)
Max Grav 15=1389(LC 2), 11=1389(LC 2)

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

TOP CHORD 2-3=-1542/28, 3-4=-843/146, 4-5=-88/297, 5-6=0/509, 6-7=-80/309, 7-8=-843/146,
8-9=-1541/28, 2-15=-1647/23, 9-11=-1647/23
BOT CHORD 14-15=-274/435, 12-14=0/925
WEBS 3-14=0/970, 4-16=-1269/153, 16-17=-1265/154, 7-17=-1282/156, 8-12=0/969,
2-14=-57/805, 9-12=-63/810

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 20-11-4 to 20-11-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member(s). 3-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
- 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.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

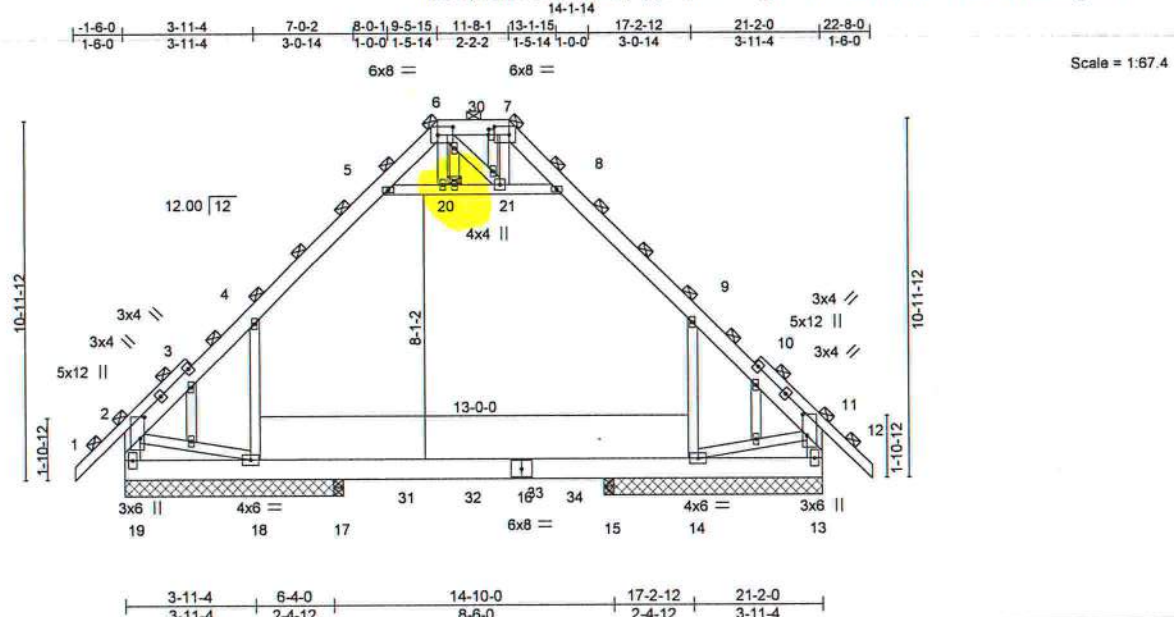
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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	T01G	GABLE	1	1	T32259167

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:27 2023 Page 1
ID:F4qHUKBI9OMzFnx3FUq?qnY_CQ4I-58f3raY_PHoU8LnuJmRRF6VHU0Y6KH8NTArdKOyCLWw



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 0.19	Vert(LL)	-0.03 15-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.04 15-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.00 13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Attic	-0.03 15-17	3283	360	Weight: 201 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,10-12: 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-19,11-13: 2x6 SP No.2	JOINTS 1 Brace at J(s): 2, 6, 7, 11, 20
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 6-7-8 except (jt=length) 17=0-3-8, 15=0-3-8.
(lb) - Max Horz	19=309(LC 7)
Max Uplift	All uplift 100 lb or less at joint(s) 19, 13 except 18=337(LC 30), 14=335(LC 31)
Max Grav	All reactions 250 lb or less at joint(s) except 19=609(LC 1), 18=364(LC 6), 14=360(LC 7), 13=609(LC 1), 17=905(LC 14), 15=905(LC 14)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-466/122, 4-5=-507/147, 8-9=-507/146, 9-11=-464/119, 2-19=-554/90, 11-13=-554/90
BOT CHORD	18-19=-251/269, 17-18=-81/333, 15-17=-81/333, 14-15=-81/333
WEBS	4-18=-382/282, 9-14=-379/281, 2-18=-55/309, 11-14=-63/312

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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, 8-9, 5-20, 20-21, 8-21; Wall dead load (5.0psf) on member(s). 4-18, 9-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17, 14-15
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 13 except (jt=lb) 18=337, 14=335.
 - 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:

December 5, 2023

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	T01G	GABLE	1	1	T32259167
Job Reference (optional)					

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

8 730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:28 2023 Page 2
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NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 24 lb up at 6-4-12, 20 lb down and 24 lb up at 8-4-12, 20 lb down and 24 lb up at 10-4-12, 20 lb down and 24 lb up at 10-9-4, and 20 lb down and 24 lb up at 12-9-4, and 20 lb down and 24 lb up at 14-9-4 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, 6-7=-54, 7-8=-54, 8-9=-64, 9-11=-54, 11-12=-54, 18-19=-20, 14-18=-40, 13-14=-20, 5-8=-10

Drag: 4-18=-10, 9-14=-10

Concentrated Loads (lb)

Vert: 17=1(B) 15=1(B) 31=1(B) 32=1(B) 33=1(B) 34=1(B)

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259168
3761058	T02	Attic	2	1	Job Reference (optional)	

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:29 2023 Page 1
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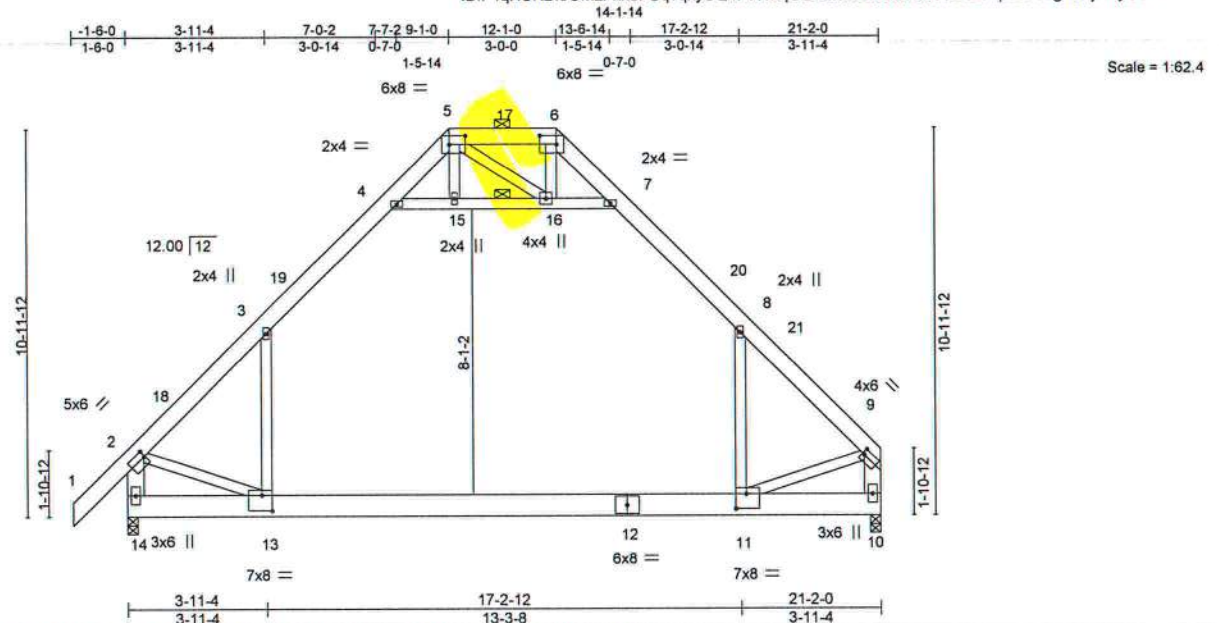


Plate Offsets (X,Y)-- [2:0-0-8,0-2-4], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [9:0-0-12,0-2-0], [11:0-3-8,0-5-0], [13:0-3-8,0-5-4]

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 0.51	Vert(LL)	-0.39 11-13	>632	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.62 11-13	>401	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS	Attic	-0.28 11-13	574	360	Weight: 187 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP M 26 *Except*
5-6: 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-14,9-10: 2x6 SP No.2

BRACING-

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

REACTIONS.

(size) 14=0-3-8, 10=0-3-8
Max Horz 14=304(LC 9)
Max Uplift 14=37(LC 12)
Max Grav 14=1392(LC 2), 10=1310(LC 2)

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

TOP CHORD 2-3=-1551/29, 3-4=-846/146, 4-5=-84/300, 5-6=0/514, 6-7=-75/312, 7-8=-847/146,
8-9=-1527/23, 2-14=-1656/23, 9-10=-1584/8
BOT CHORD 13-14=-291/414, 11-13=-4/908
WEBS 3-13=0/974, 4-15=-1281/154, 15-16=-1277/155, 7-16=-1294/156, 8-11=0/938,
2-13=-58/811, 9-11=-54/850

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 20-11-4 to 20-11-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 15-16, 7-16; Wall dead load (5.0psf) on member(s).3-13, 8-11
- 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 100 lb uplift at joint(s) 14.
- 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:

December 5, 2023

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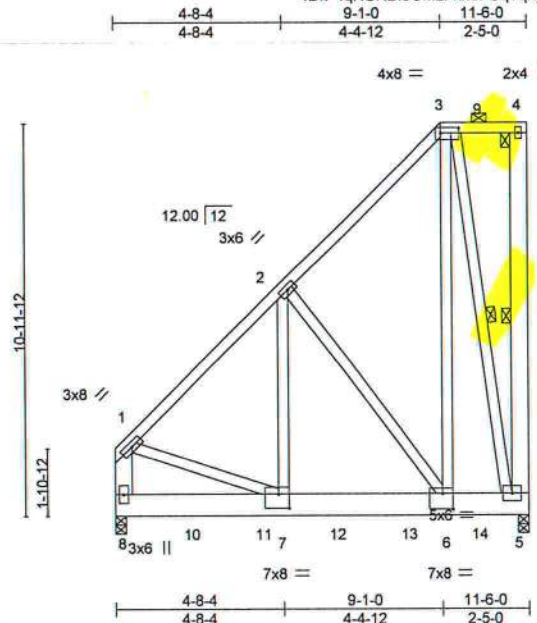
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	T04	Piggyback Base Girder	1	2	T32259170

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:32 2023 Page 1

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Scale = 1:61.6

Plate Offsets (X,Y)-- [3:0-6-4,0-1-12], [6:0-3-8,0-5-4], [7:0-3-8,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15	Vert(LL)	-0.04	6-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.07	6-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.51	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 282 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
4-5,1-8: 2x6 SP No.2

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.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5, 3-5

REACTIONS.

(size) 5=0-3-8, 8=0-3-8
Max Horz 8=323(LC 8)
Max Uplift 5=-941(LC 8), 8=-461(LC 8)
Max Grav 5=3013(LC 2), 8=2582(LC 1)

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

TOP CHORD 1-2=-2108/398, 2-3=-733/143, 1-8=-1997/362
BOT CHORD 7-8=-393/271, 6-7=-525/1435, 5-6=-161/498
WEBS 2-7=-526/2097, 2-6=-1673/625, 3-6=-729/2651, 3-5=-2349/762, 1-7=-293/1344

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=941, 8=461.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 922 lb down and 215 lb up at 2-0-12, 922 lb down and 215 lb up at 4-0-12, 1055 lb down and 261 lb up at 6-0-12, and 1058 lb down and 266 lb up at 8-0-12, and 1058 lb down and 266 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

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Date:

December 5, 2023

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES	T32259170
3761058	T04	Piggyback Base Girder	1	2	Job Reference (optional)	

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:32 2023 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 10=-922(F) 11=-922(F) 12=-922(F) 13=-922(F) 14=-922(F)

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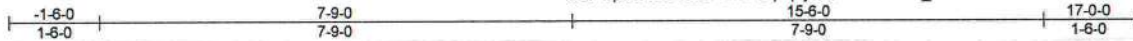
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259171
3761058	T05G	Common Supported Gable	1	1		

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:33 2023 Page 1

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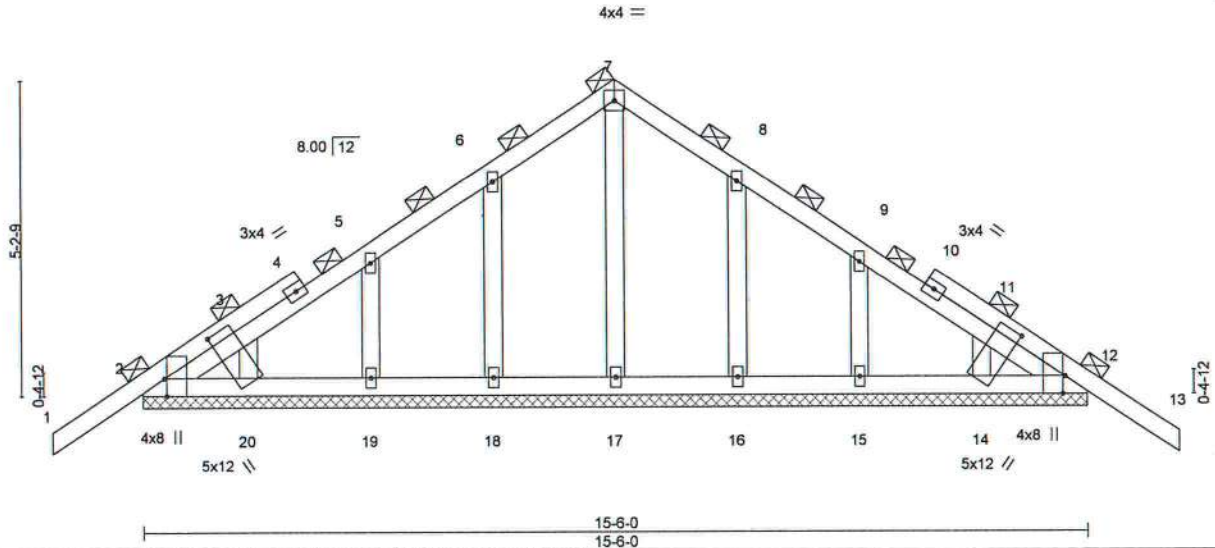


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [12:0-3-8,Edge], [14:0-1-13,0-11-9], [20:0-1-13,0-11-9]

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 0.14	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.01	13	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 89 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 15-6-0.
(lb) - Max Horz 2=-144(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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 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 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 16, 15, 14.
- 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.59126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

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

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314.434.1200 / MiTek-US.com

Job 3761058	Truss T06	Truss Type Roof Special Girder	Qty 1	Ply 1	SIMQUE - RAULERSON RES. Job Reference (optional)	T32259172
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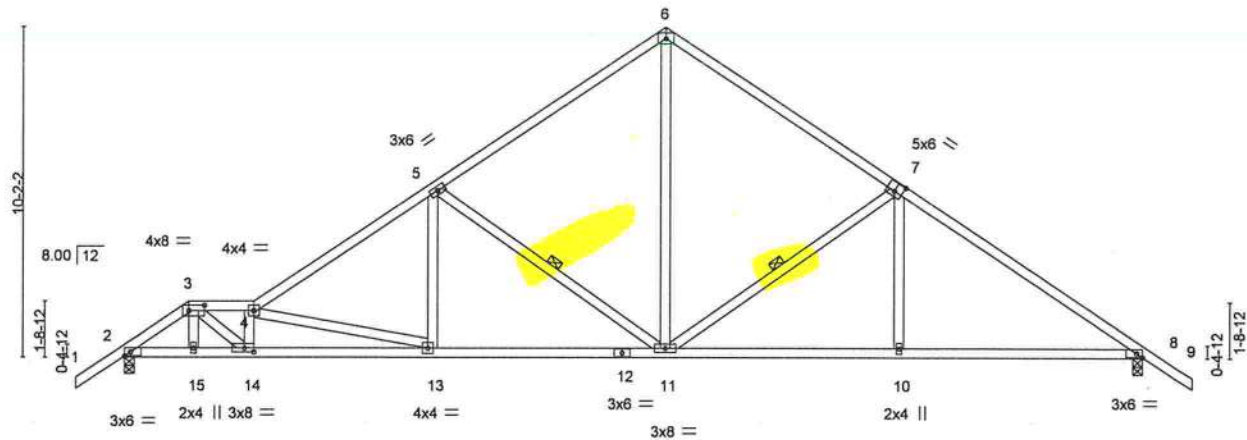
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:34 2023 Page 1
ID: F4qHUKBI9OMzFnx3FUq?ynyCQ4I-NUajJzdNIRgVTPqEDk342aHL3qjTG?P4m2U4UyCLwp

1-6-0 2-0-0 4-0-0 9-6-0 16-8-0 23-10-0 31-4-0 32-10-0
1-6-0 2-0-0 2-0-0 5-6-0 7-2-0 7-2-0 7-6-0 1-6-0

4x6 =

Scale = 1:68.3



2-0-0 4-0-0 9-6-0 16-8-0 23-10-0 31-4-0
2-0-0 2-0-0 5-6-0 7-2-0 7-2-0 7-6-0

Plate Offsets (X,Y)--		[3:0-5-12,0-2-0], [7:0-3-0,0-3-4], [8:0-2-3,Edge], [14:0-3-8,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.68		Vert(LL)	-0.12 13-14	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.82		Vert(CT)	-0.25 11-13	>999	180		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.81		Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 176 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-7 oc bracing.
WEBS 1 Row at midpt 5-11, 7-11

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=266(LC 7)
Max Uplift 2=394(LC 8), 8=322(LC 9)
Max Grav 2=1268(LC 1), 8=1242(LC 1)

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

TOP CHORD 2-3=-1849/538, 3-4=-2696/744, 4-5=-1927/494, 5-6=-1240/376, 6-7=-1242/388,
7-8=-1738/405
BOT CHORD 2-15=-549/1490, 14-15=-554/1493, 13-14=-864/2786, 11-13=-442/1572, 10-11=-229/1364,
8-10=-228/1367
WEBS 3-14=-372/1530, 4-14=-896/267, 4-13=-1254/436, 5-13=-75/513, 5-11=-783/385,
6-11=-249/900, 7-11=-578/318, 7-10=0/307

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=394, 8=322.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 107 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 6-9=-54, 16-19=-20
Concentrated Loads (lb)
Vert: 15=-30(F)

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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:

December 5, 2023

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259173
3761058	T06G	GABLE	1	1	Job Reference (optional)	

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:36 2023 Page 1

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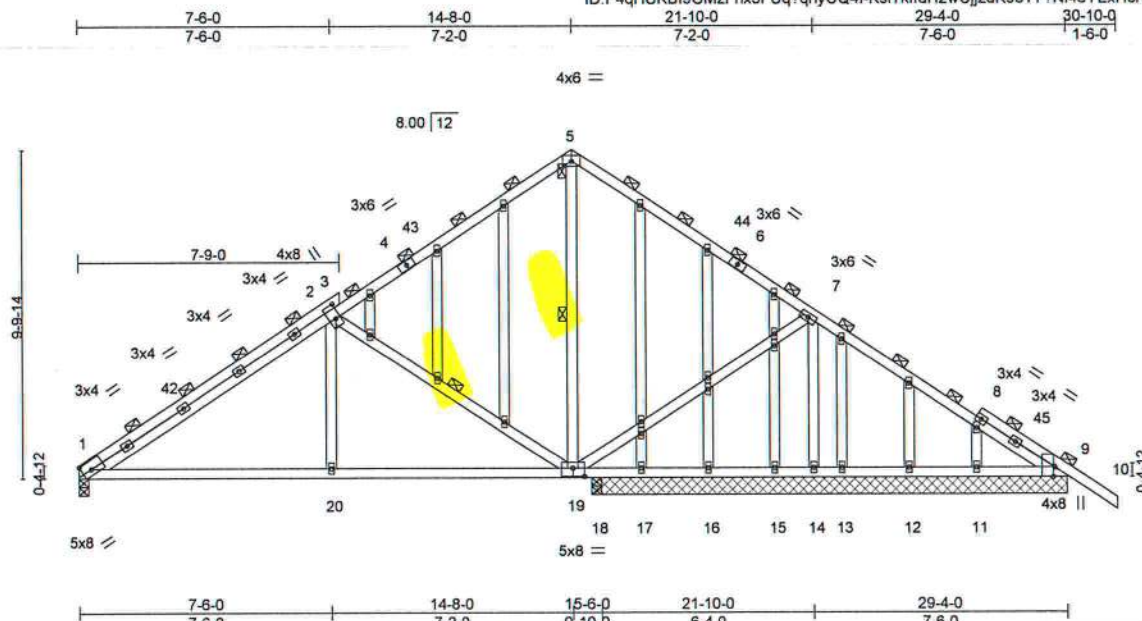


Plate Offsets (X,Y)-- [1:Edge,0-3-0], [2:0-5-0,0-1-12], [9:0-3-8,Edge], [19:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.06	19-20	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.12	19-20	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.02	18	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						
								Weight: 226 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, Except:
10-0-0 oc bracing: 1-20,19-20.
WEBS 1 Row at midpt 5-19, 2-19

REACTIONS.

All bearings 14-1-8 except (jt=length) 1=0-3-8, 18=0-3-8.
(lb) - Max Horz 1=-249(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 9, 13, 12 except 1=-145(LC 12), 14=-263(LC 13), 17=-195(LC 1),
11=-108(LC 13), 18=-233(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 9, 17, 16, 15, 13, 12, 11, 9 except 1=642(LC 1), 14=793(LC 1),
18=527(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-825/172, 2-5=-317/161, 5-7=-326/123
BOT CHORD 1-20=-192/749, 19-20=-192/750
WEBS 7-19=-35/368, 7-14=-787/273, 2-19=-628/334, 2-20=0/311

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 18-10-15 to 30-10-0 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) 9, 13, 12, 9 except (jt=lb) 1=145, 14=263, 17=195, 11=108, 18=233.
- 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:

December 5,2023



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

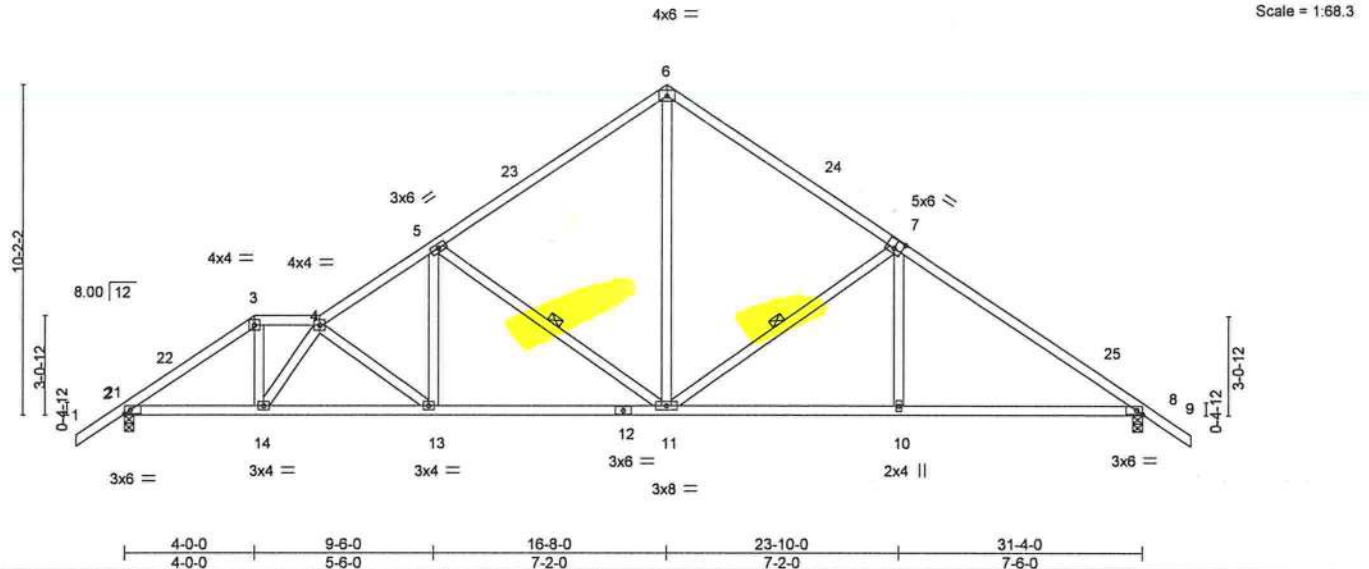
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Job 3761058	Truss T07	Truss Type Roof Special	Qty 1	Ply 1	SIMQUE - RAULERSON RES. T32259174
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:38 2023 Page 1					
Job Reference (optional)					

ID:F4qHUKBI9OMzFnx3FUq?qnyCQ4I-GFqE8LhtpgBwy170Sa80CQS2QSC2PAG??N0iDGyCLwl



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	in (loc)	l/defl	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(LL)	-0.10 11-13 >999		244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Vert(CT)	-0.22 11-13 >999		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Horz(CT)	0.07 8 n/a n/a		
								Weight: 176 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-10-11 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-11, 7-11

REACTIONS.	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=-266(LC 10)
Max Uplift	2=-334(LC 12), 8=-317(LC 13)
Max Grav	2=1240(LC 1), 8=1240(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1808/441, 3-4=-1490/410, 4-5=-1865/478, 5-6=-1235/367, 6-7=-1239/380, 7-8=-1734/397
BOT CHORD	2-14=-445/1448, 13-14=-563/1984, 11-13=-418/1554, 10-11=-222/1361, 8-10=-222/1363
WEBS	3-14=-142/813, 4-14=-888/198, 4-13=-548/184, 5-13=-75/510, 5-11=-761/363, 6-11=-237/892, 7-11=-577/317, 7-10=0/306

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 21-1-3 to 32-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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=334, 8=317.

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:

December 5, 2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	T08	GABLE	1	1	T32259175

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:40 2023 Page 1
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-1-6-0 -1-6-0
5-11-0 5-11-0
7-11-0 2-0-0
9-6-0 1-7-0
16-8-0 7-2-0
22-1-11 5-5-11
29-10-0 7-8-5
37-4-0 7-6-0
38-10-0 1-6-0

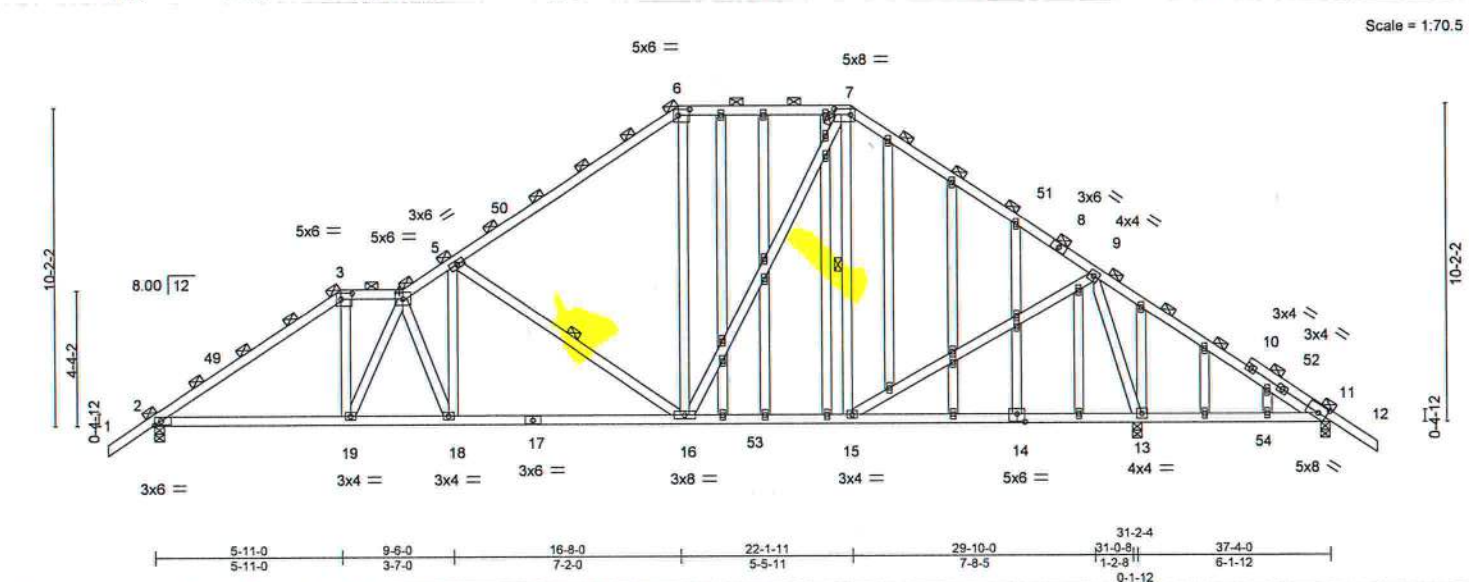


Plate Offsets (X,Y)---		[3:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-6-4,0-2-4], [11:0-3-5,0-3-0], [14:0-3-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73
TCDL 7.0	Lumber DOL	1.25	BC 0.63
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79
BCDL 10.0	Code	FBC2023/TP12014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.16 13-15 >999 240
		Vert(CT)	-0.32 13-15 >999 180
		Horz(CT)	0.05 13 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 322 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
BOT CHORD	BOT CHORD
WEBS	WEBS
OTHERS	

REACTIONS.	(size) 2=0-3-8, 11=0-3-8, 13=0-3-8
	Max Horz 2=-268(LC 10)
	Max Uplift 2=-320(LC 12), 11=-115(LC 27), 13=-383(LC 13)
	Max Grav 2=1265(LC 19), 11=86(LC 26), 13=1891(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1766/405, 3-4=-1436/397, 4-5=-1802/417, 5-6=-1178/309, 6-7=-904/326, 7-9=-971/257, 9-11=-174/641
BOT CHORD	2-19=-389/1549, 18-19=-418/1801, 16-18=-396/1694, 15-16=-88/764, 11-13=-458/227
WEBS	3-19=-71/718, 4-19=-615/92, 4-18=-339/60, 5-18=-10/513, 5-16=-893/367, 6-16=-70/386, 7-16=-172/459, 9-15=-117/828, 9-13=-1639/437

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C 27-5-1 to 38-10-0 zone; porch 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=320, 11=115, 13=383.
 - 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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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5,2023

Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259176
3761058	T09	Piggyback Base	1	1	Job Reference (optional)	

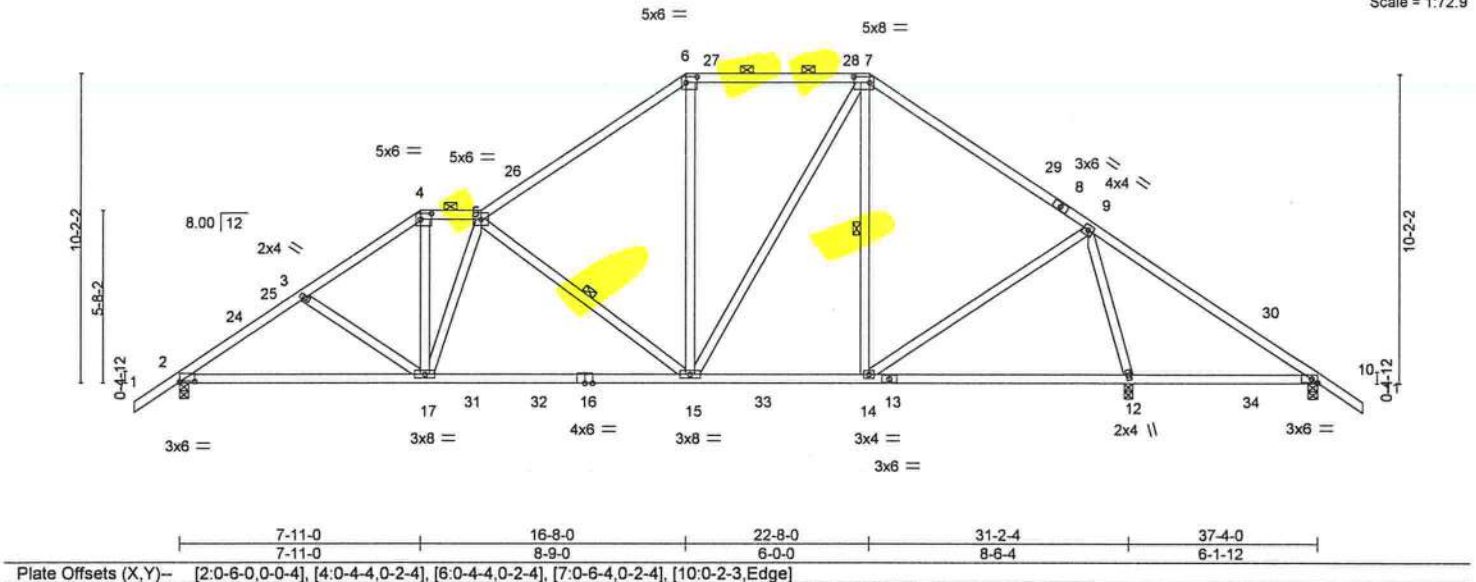
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:41 2023 Page 1

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1-6-0 4-1-11 7-11-0 9-11-0 16-8-0 22-8-0 29-10-0 37-4-0 38-10-0
1-6-0 4-1-11 3-9-5 2-0-0 6-9-0 6-0-0 7-2-0 7-6-0 1-6-0

Scale = 1:72.9



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.83	Vert(LL) 0.08 12-23 >962 240		
BCLL 0.0	Lumber DOL 1.25	WB 0.82	Vert(CT) -0.34 15-17 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 12 n/a n/a		
	Code FBC2023/TPI2014			Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-9-15 max.); 4-5, 6-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
	WEBS 1 Row at midpt 5-15, 7-14

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8
Max Horz 2=-267(LC 10)
Max Uplift 2=-326(LC 12), 12=-282(LC 12), 10=-134(LC 8)
Max Grav 2=1300(LC 19), 12=1784(LC 2), 10=209(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1865/451, 3-4=-1718/405, 4-5=-1404/379, 5-6=-1232/339, 6-7=-963/342, 7-9=-991/301, 9-10=-72/468
BOT CHORD 2-17=-459/1678, 15-17=-369/1622, 14-15=-91/767, 10-12=-292/115
WEBS 4-17=-180/836, 5-17=-448/163, 5-15=-795/334, 6-15=-73/399, 7-15=-170/510, 9-14=-128/777, 9-12=-1516/328

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C 27-11-6 to 38-10-0 zone; porch 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=326, 12=282, 10=134.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

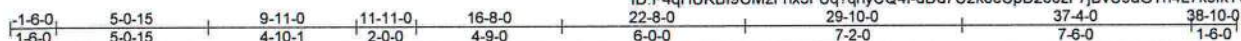
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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

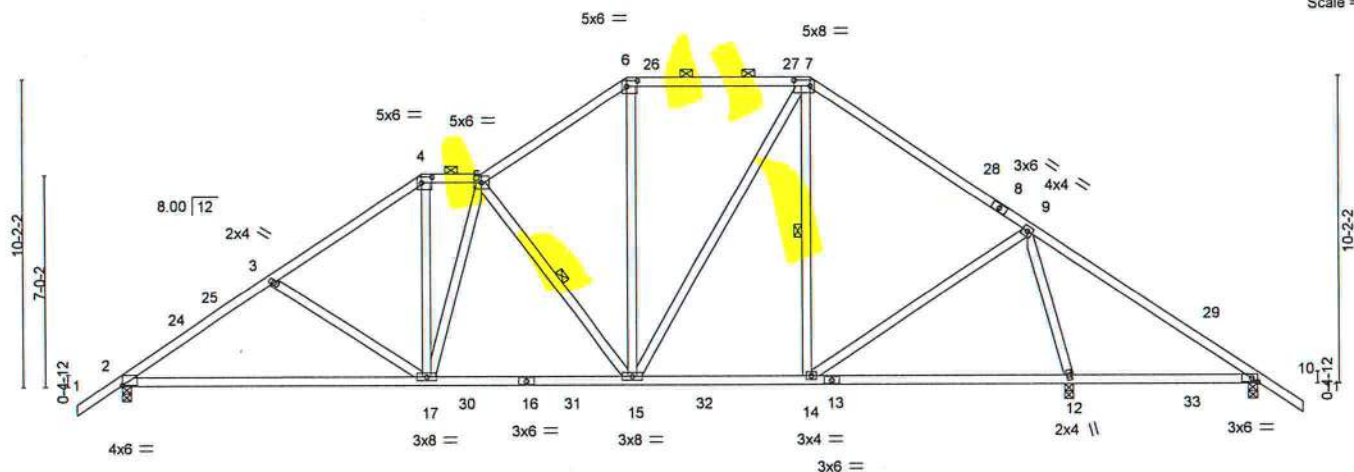
December 5, 2023

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Scale = 1:72.9



	9-11-0	16-8-0	22-8-0	31-2-4	37-4-0
	9-11-0	6-9-0	6-0-0	8-6-4	6-1-12
Plate Offsets (X,Y)--	[2;0-0-0-0-0]	[4;0-4-4,0-2-4]	[6;0-4-4,0-2-4]	[7;0-6-4,0-2-4]	[10;0-2-3,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) 0.08 12-23	>964	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(CT) -0.43 17-20	>869	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.05 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS				Weight: 231 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-1 oc purlins, except 2-0-0 oc purlins (5-2-0 max.): 4-5, 6-7.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-15, 7-14

REACTIONS.

(size) 2=0-3-8, 12=0-3-8, 10=0-3-8
 Max Horz 2=-267(LC 10)
 Max Uplift 2=-327(LC 12), 12=-278(LC 12), 10=-130(LC 8)
 Max Grav 2=1310(LC 19), 12=1762(LC 2), 10=221(LC 26)

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

TOP CHORD 2-3=-1810/451, 3-4=-1608/389, 4-5=-1291/375, 5-6=-1204/359, 6-7=-965/343,
7-9=-1010/303, 9-10=-66/429

BOT CHORD 2-17=-448/1640, 15-17=-278/1414, 14-15=-91/783, 10-12=-261/110

WEBS 3-17=-338/272, 4-17=-119/717, 5-17=-254/117, 5-15=-722/296, 6-15=-97/432,
7-15=-164/471, 9-14=-127/766, 9-12=-1497/323

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 27-11-6 to 38-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=327, 12=278, 10=130.
- 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 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
16025 Swingley Ridge Rd. Chesterfield, MO 63017
Dates:

December 5, 2023



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

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259179
3761058	T12	Piggyback Base	1	1	Job Reference (optional)	

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:46 2023 Page 1

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Scale = 1:64.8

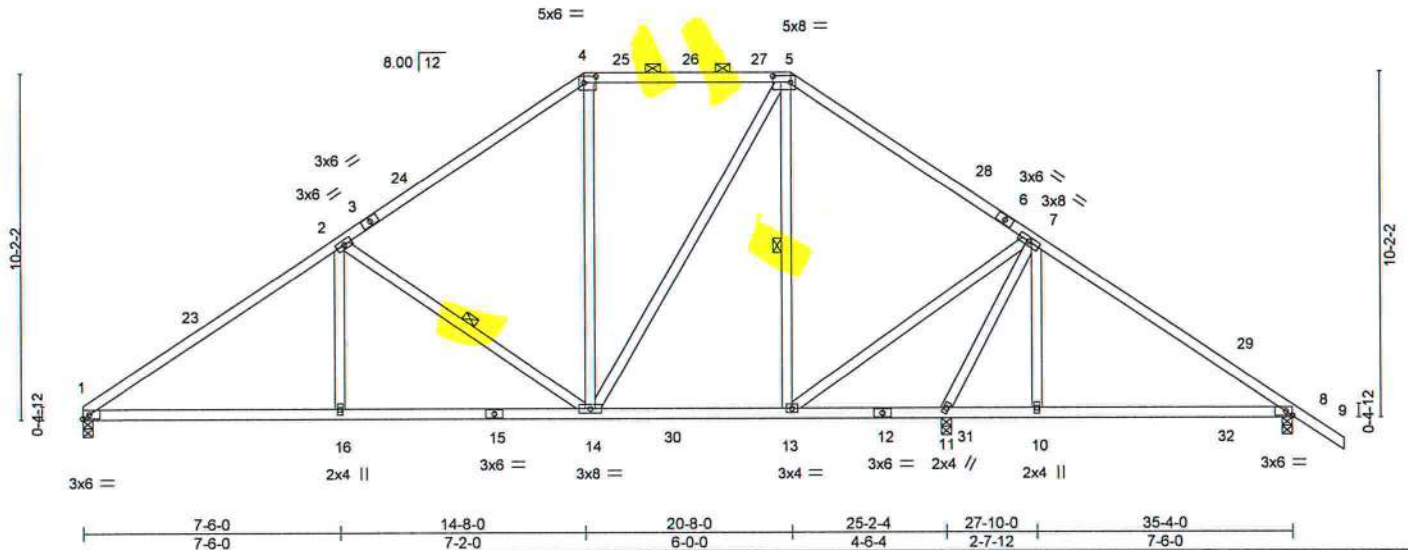


Plate Offsets (X,Y) - [4:0-4-4,0-2-4], [5:0-6-4,0-2-4], [8:0-2-3,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.11	16-19	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.21	16-19	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.03	11	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						
								Weight: 210 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-14, 5-13

REACTIONS.

(size) 1=0-3-8, 11=0-3-8, 8=0-3-8
Max Horz 1=-259(LC 8)
Max Uplift 1=-262(LC 12), 11=-254(LC 13), 8=-189(LC 13)
Max Grav 1=1061(LC 19), 11=1322(LC 2), 8=555(LC 28)

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

TOP CHORD 1-2=-1470/377, 2-4=-934/303, 4-5=-696/318, 5-7=-672/243, 7-8=-505/222
BOT CHORD 1-16=-356/1347, 14-16=-356/1347, 13-14=-92/523, 11-13=-313/143, 10-11=-84/358, 8-10=-85/359
WEBS 2-16=0/321, 2-14=-716/327, 5-14=-181/528, 5-13=-391/122, 7-13=-161/978, 7-10=-153/266, 7-11=-1417/395

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 25-7-15 to 36-10-0 zone; porch 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=262, 11=254, 8=189.
- 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:

December 5, 2023

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Job 3761058	Truss T13	Truss Type Piggyback Base	Qty 2	Ply 1	SIMQUE - RAULERSON RES. T32259180
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:47 2023 Page 1

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2-3-8	7-6-0	14-8-0	20-8-0	27-10-0	35-4-0	36-10-0
2-3-8	5-2-8	7-2-0	6-0-0	7-2-0	7-6-0	1-6-0

Scale = 1:67.9

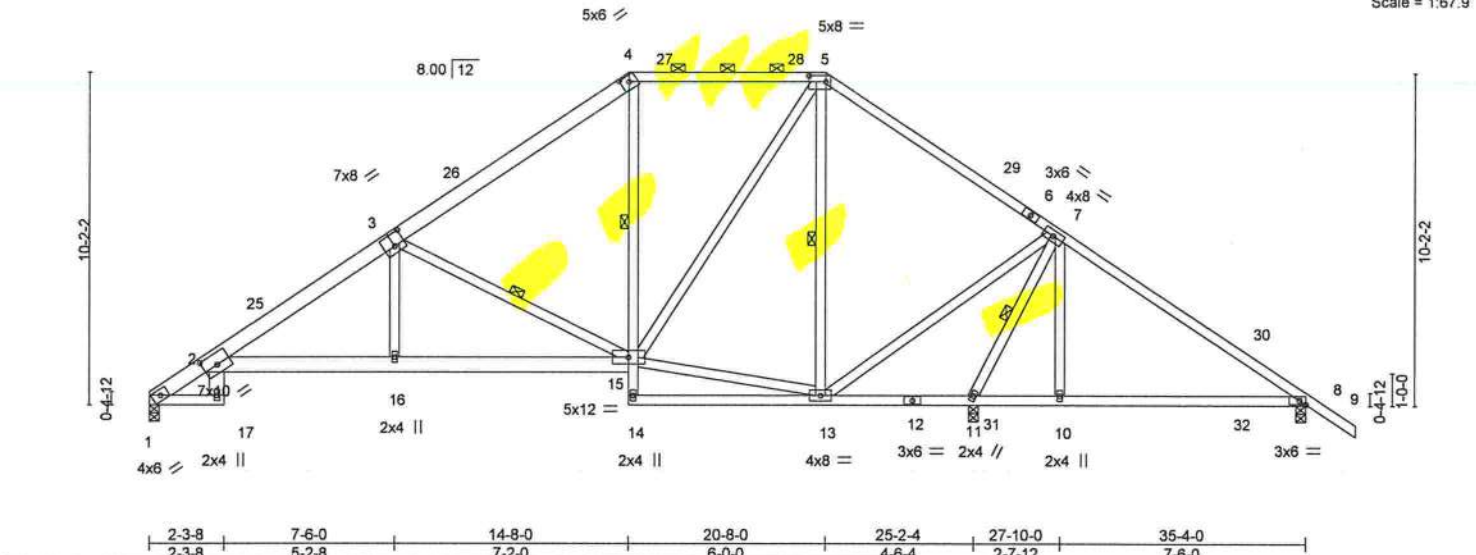


Plate Offsets (X,Y)-- [2:0-5-0,0-4-0], [3:0-4-0,0-4-8], [4:0-3-0,0-2-3], [5:0-6-4,0-2-4], [8:0-2-3,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25		TC 0.67		Vert(LL) -0.14 2-16		>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC 0.85		Vert(CT) -0.27 2-16		>999	180		
BCLL	0.0 *	Rep Stress Incr YES		WB 0.52		Horz(CT) 0.16 11		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 "Except"	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 4-5.
3-4: 2x6 SP No.2, 1-3: 2x6 SP M 26	
BOT CHORD 2x4 SP No.2 "Except"	BOT CHORD Rigid ceiling directly applied or 5-11-15 oc bracing. Except:
2-17,2-15: 2x6 SP No.2, 4-14: 2x4 SP No.3	1 Row at midpt 4-15
WEBS 2x4 SP No.3	1 Row at midpt 3-15, 5-13, 7-11

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 8=0-3-8
Max Horz 1=-256(LC 10)
Max Uplift 1=-192(LC 12), 11=-373(LC 12), 8=-259(LC 8)
Max Grav 1=832(LC 1), 11=1629(LC 1), 8=369(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-572/251, 2-3=-1419/340, 3-4=-717/222, 4-5=-487/230, 5-7=-364/220, 7-8=-193/444
BOT CHORD 2-16=-344/1216, 15-16=-345/1227, 11-13=-959/381, 10-11=-275/178, 8-10=-275/178
WEBS 3-16=0/383, 3-15=-871/404, 5-15=-193/624, 5-13=-711/200, 7-13=-315/1370, 7-11=-1793/476, 7-10=-152/268

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 25-7-15 to 36-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=192, 11=373, 8=259.
- 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:

December 5,2023

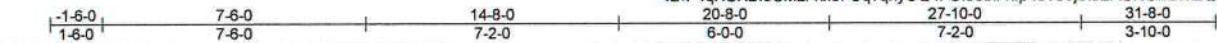
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259183
3761058	T16	Piggyback Base	2	1	Job Reference (optional)	

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:51 2023 Page 1
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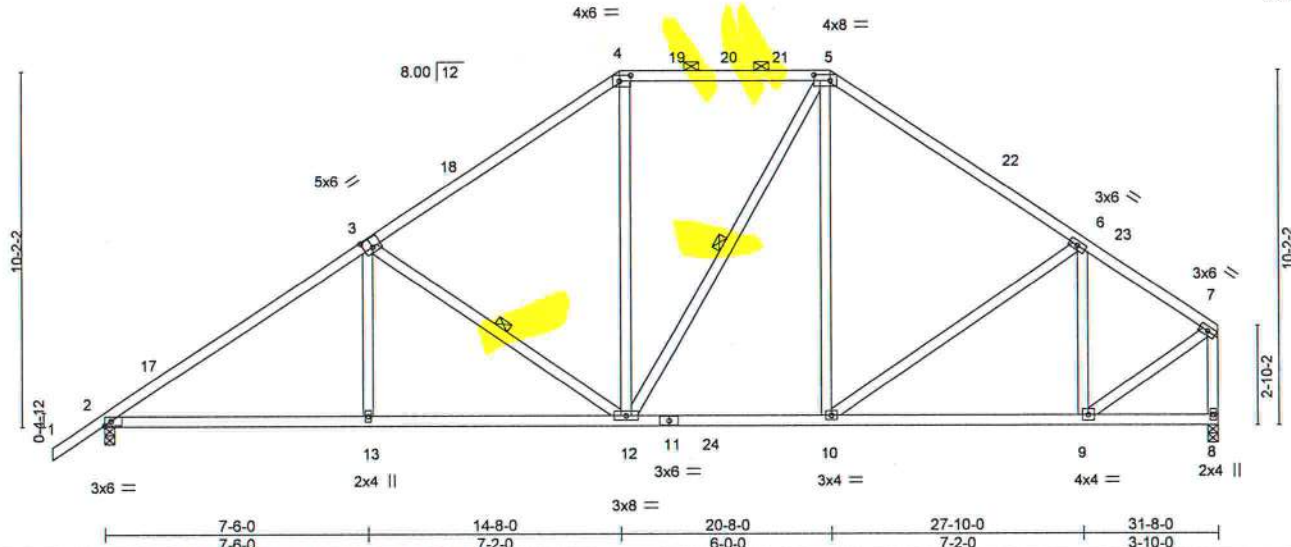


Plate Offsets (X,Y) - [3-0-3-0,0-3-4], [4-0-3-12,0-2-0], [5-0-5-12,0-2-0]

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 0.57	Vert(LL)	-0.11 13-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.20 13-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 200 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-0 max.): 4-5.
Rigid ceiling directly applied or 8-3-2 oc bracing.
1 Row at midpt 3-12, 5-12

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=252(LC 12)
Max Uplift 2=-341(LC 12), 8=-277(LC 13)
Max Grav 2=1363(LC 19), 8=1274(LC 2)

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

TOP CHORD 2-3=-1884/438, 3-4=-1340/373, 4-5=-1037/377, 5-6=-1240/330, 6-7=-1064/251, 7-8=-1240/281
BOT CHORD 2-13=-476/1629, 12-13=-477/1625, 10-12=-150/956, 9-10=-180/877
WEBS 3-13=0/320, 3-12=-698/318, 4-12=-91/467, 5-12=-134/255, 5-10=-43/286, 6-9=-442/169, 7-9=-222/1072

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C 31-6-4 to 31-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=341, 8=277.
- 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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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

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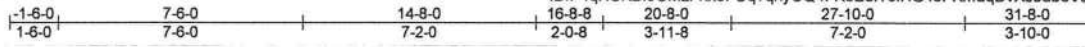
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16023 Swingle Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 3761058	Truss T17	Truss Type Piggyback Base	Qty 1	Ply 1	SIMQUE - RAULERSON RES. T32259184
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:53 2023 Page 1

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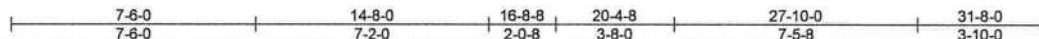
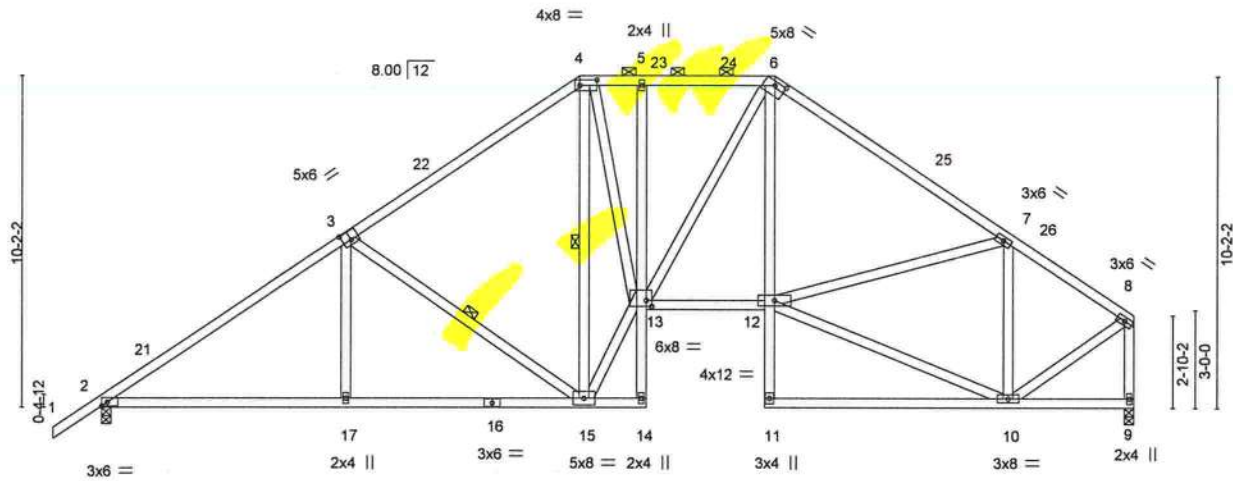


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [6:0-4-0,0-1-9], [13:0-2-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.11 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.24 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.17 9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 234 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-14,6-11: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-7 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-15, 4-15

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
Max Horz 2=252(LC 12)
Max Uplift 2=317(LC 12), 9=247(LC 13)
Max Grav 2=1249(LC 1), 9=1164(LC 1)

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

TOP CHORD 2-3=-1752/395, 3-4=-1247/330, 4-5=-1318/389, 5-6=-1328/390, 6-7=-1586/364, 7-8=-979/224, 8-9=-1148/249
BOT CHORD 2-17=-440/1379, 15-17=-441/1377, 12-13=-177/1230, 6-12=-65/376
WEBS 3-17=0/315, 3-15=-586/317, 4-15=-1096/226, 13-15=-341/1777, 4-13=-224/1505, 6-13=-152/302, 10-12=-174/853, 7-12=-145/438, 7-10=-762/223, 8-10=-193/985

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 31-6-4 to 31-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=317, 9=247.
- 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:

December 5, 2023



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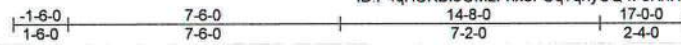
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259185
3761058	T18	Piggyback Base	2	1	Job Reference (optional)	

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

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:54 2023 Page 1

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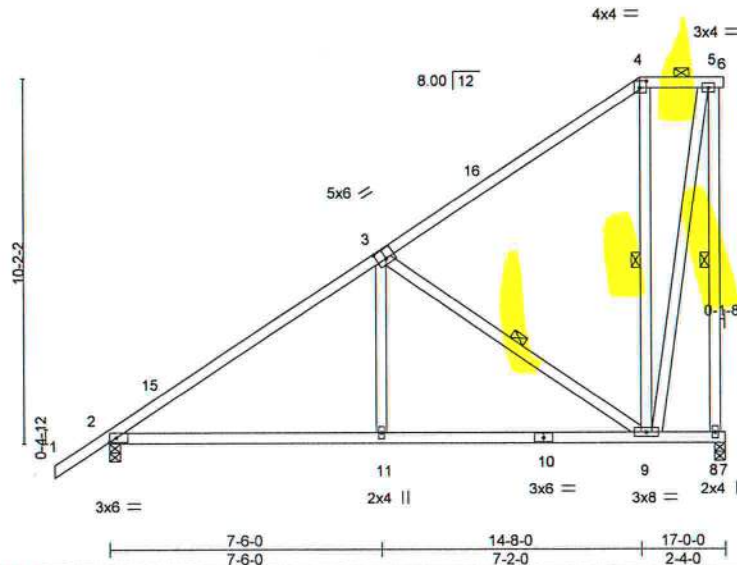


Plate Offsets (X,Y) - [3:0-3-0,0-3-4], [4:0-2-4,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.09 11-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.15 11-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 121 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 8=0-3-8, 2=0-3-8
Max Horz 2=412(LC 12)
Max Uplift 8=281(LC 12), 2=127(LC 12)
Max Grav 8=625(LC 1), 2=704(LC 1)

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

TOP CHORD 2-3=-789/60, 3-4=-267/0, 5-8=-616/266
BOT CHORD 2-11=-322/616, 9-11=-323/613
WEBS 3-11=0/329, 3-9=-603/324, 5-9=-292/617

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 16-8-12 to 16-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=281, 2=127.
- 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:

December 5, 2023

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7-6-0	14-8-0	20-8-0	21-8-4	24-10-14
7-6-0	7-2-0	6-0-0	1-0-4	3-2-10

[illegible]

BRACING-TOP CHORD	Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 5-10 10-0-0 oc bracing: 8-10
WEBS	1 Row at midpt 2-11, 4-10, 6-7

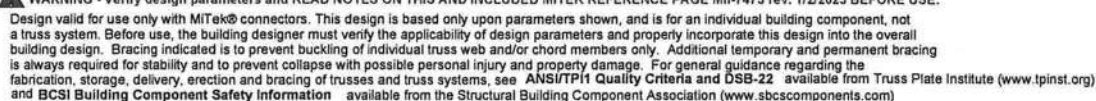
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1427/312, 2-3=-878/239, 3-4=-649/264, 4-5=-396/158, 5-6=-426/115,
6-7=-1068/248
BOT CHORD 1-13=-471/1245, 11-13=-472/1241, 10-11=-90/379
WEBS 2-13=0/312, 2-11=-703/328, 4-11=-221/595, 4-10=-476/211, 6-10=-186/855

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-9-2 to 24-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=226, 7=246.
- 9) 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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MITek Inc. DBA MITek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Dater

December 5, 2023



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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	T19G	GABLE	1	1	T32259187
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:56 2023 Page 1
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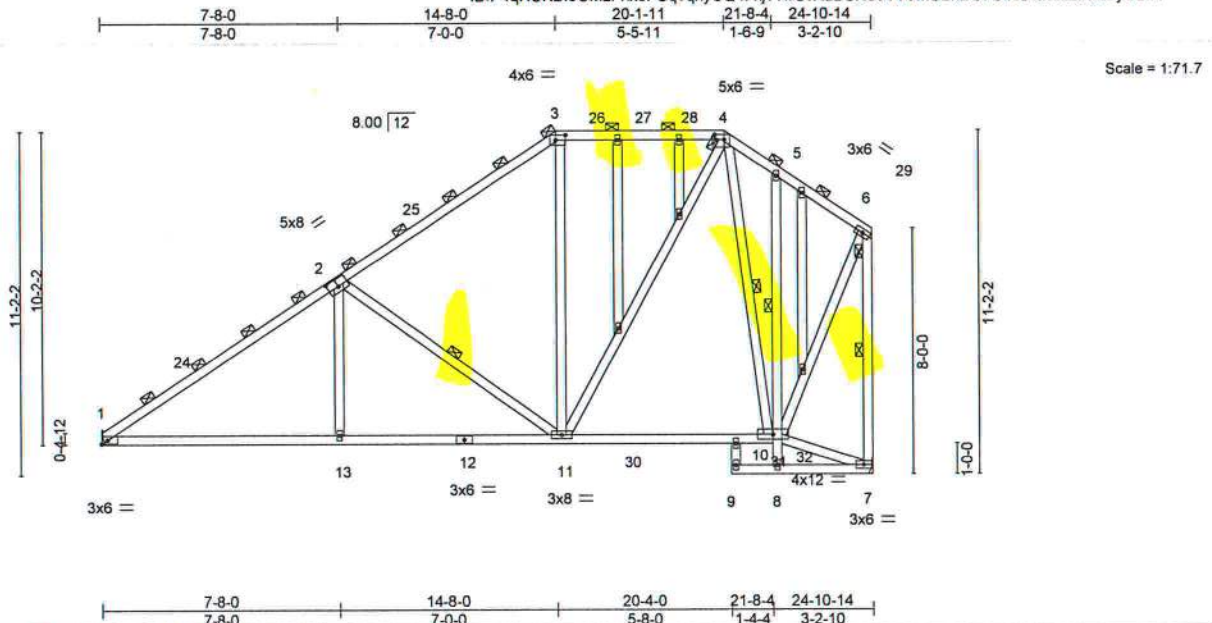


Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [3:0-3-12,0-2-0], [4:0-3-12,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.12 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.23 13-23	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.04 7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 211 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (4-2-14 max.), except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
	5-8: 2x4 SP No.3		1 Row at midpt 5-10
WEBS	2x4 SP No.3		10-0-0 oc bracing: 8-10
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt 2-11, 4-10, 6-7

REACTIONS. (size) 1=Mechanical, 7=Mechanical
Max Horz 1=311(LC 12)
Max Uplift 1=-227(LC 12), 7=-241(LC 12)
Max Grav 1=1043(LC 19), 7=1075(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1422/313, 2-3=-877/240, 3-4=-648/265, 4-5=-427/173, 5-6=-441/116, 6-7=-1064/243
BOT CHORD 1-13=-465/1243, 11-13=-465/1249, 10-11=-97/407
WEBS 2-13=0/312, 2-11=-710/328, 4-11=-210/577, 4-10=-435/185, 6-10=-180/848

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-9-2 to 24-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=227, 7=241.
 - 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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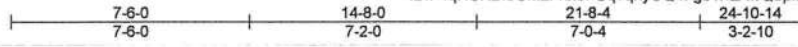
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

Job 3761058	Truss T20	Truss Type Roof Special	Qty 2	Ply 1	SIMQUE - RAULERSON RES. T32259188
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:58 2023 Page 1
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4x6 =

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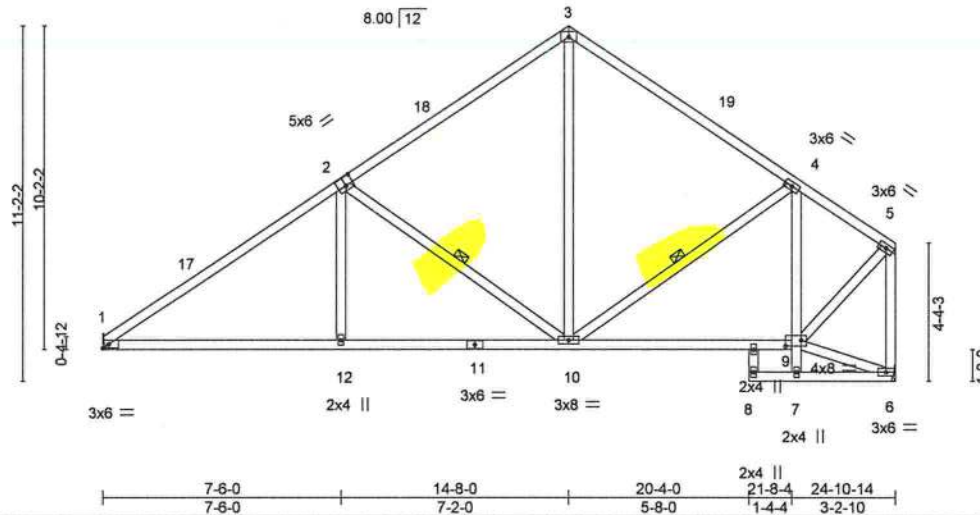


Plate Offsets (X,Y)-- [2:0-3-0,0-3-4], [9:0-6-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	0.11	12-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.18	12-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 156 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-7: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 7-9
WEBS 1 Row at midpt 2-10, 4-10

REACTIONS.

(size) 1=Mechanical, 6=Mechanical
Max Horz 1=233(LC 9)
Max Uplift 1=-227(LC 12), 6=-195(LC 32)
Max Grav 1=921(LC 1), 6=942(LC 1)

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

TOP CHORD 1-2=-1327/314, 2-3=-821/264, 3-4=-817/277, 4-5=-632/148, 5-6=-920/195
BOT CHORD 1-12=-385/1065, 10-12=-385/1062, 9-10=-117/545, 4-9=-415/160
WEBS 2-12=0/308, 2-10=-592/326, 3-10=-133/500, 5-9=-157/761

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-9-2 to 24-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=227, 6=195.

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

December 5, 2023



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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	T20G	GABLE	1	1	T32259189

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:58:59 2023 Page 1
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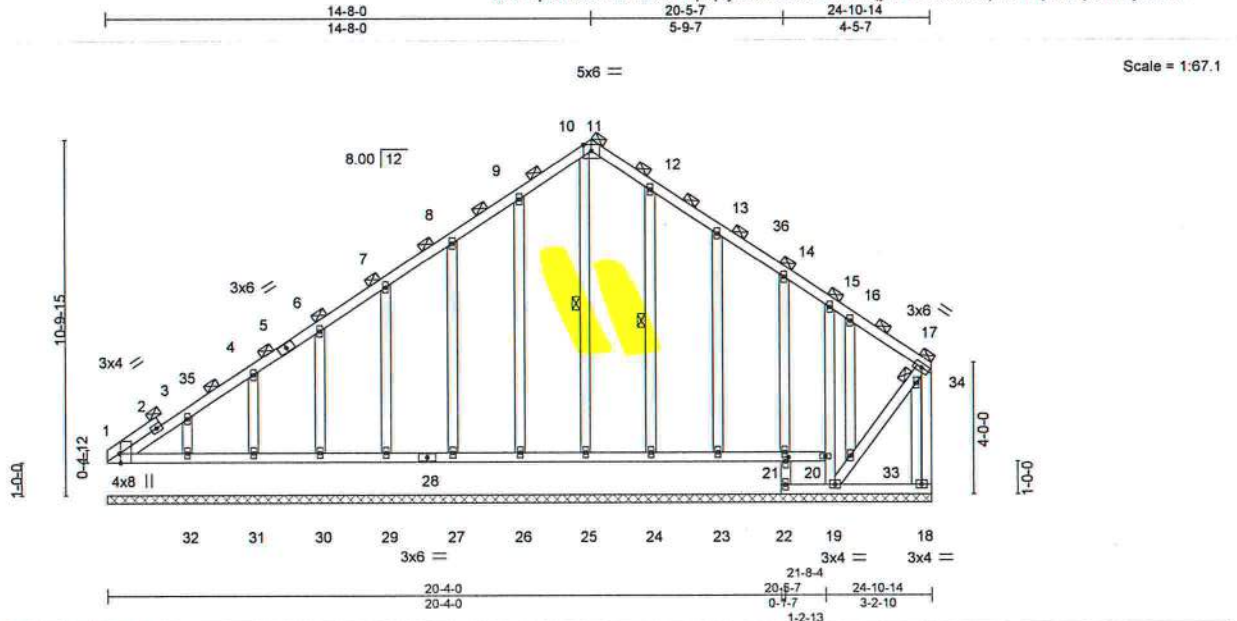


Plate Offsets (X,Y) -		[1:0-3-8,Edge], [21:0-1-8,0-1-0]						PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.25	TC 0.09	Vert(LL)	n/a	-	n/a		
TCDL 7.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	19	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 202 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
	15-19: 2x4 SP No.3		6-0-0 oc bracing: 19-20
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 10-25, 12-24
OTHERS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 11, 34, 17

REACTIONS.	
All bearings 24-10-14.	
(lb) - Max Horz	1=227(LC 9)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 22, 18, 26, 27, 29, 30, 31, 32, 24 except 19=236(LC 13), 23=122(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 1, 22, 18, 26, 27, 29, 30, 31, 32, 25, 24, 23 except 19=329(LC 20)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-3=253/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 24-7-5 to 24-9-2 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 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 100 lb uplift at joint(s) 1, 22, 18, 26, 27, 29, 30, 31, 32, 24 except (jt=lb) 19=236, 23=122.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 26, 27, 29, 30, 31, 32, 25, 24, 23.
 - 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
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16025 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5,2023



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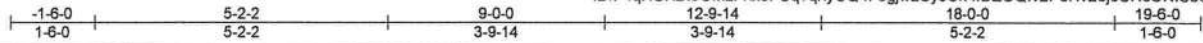
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Job 3761058	Truss T21	Truss Type Common	Qty 3	Ply 1	SIMQUE - RAULERSON RES. T32259190
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:01 2023 Page 1

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4x4 =

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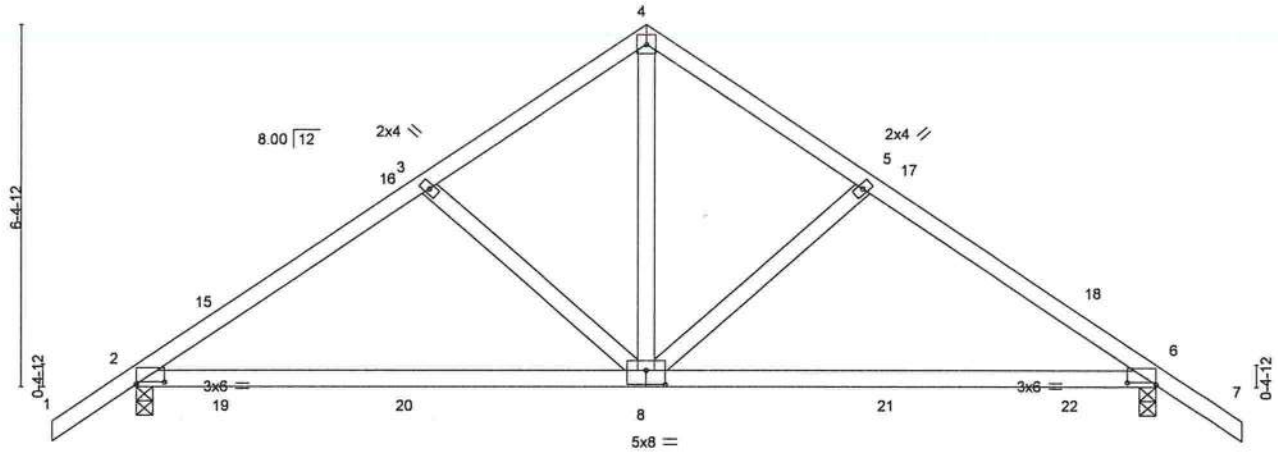


Plate Offsets (X,Y)--	[2:0-6-0,0-0-7], [6:0-6-0,0-0-8], [8:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	0.13	8-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.23	8-11	>957	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code	FBC2023/TP12014	Matrix-MS						Weight: 88 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-173(LC 10)
Max Uplift 2=-202(LC 12), 6=-202(LC 13)
Max Grav 2=747(LC 1), 6=747(LC 1)

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

TOP CHORD 2-3=-879/435, 3-4=-689/417, 4-5=-689/417, 5-6=-879/435
BOT CHORD 2-8=-273/696, 6-8=-291/696
WEBS 4-8=-371/525, 5-8=-253/195, 3-8=-253/194

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 13-2-15 to 19-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 6=202.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023



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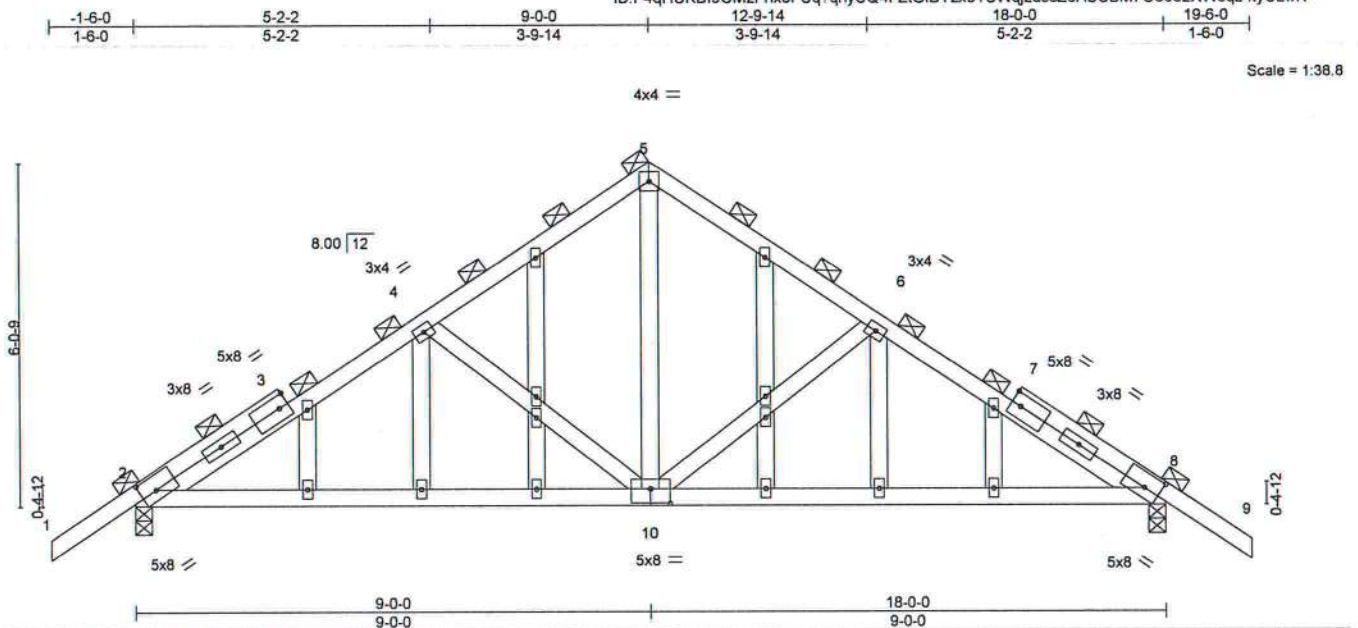


Plate Offsets (X,Y)-- [2:0-3-5,0-3-0], [8:0-3-5,0-3-0], [10:0-4-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	0.10 10-25	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.18 10-28	>999	180
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01 8	n/a	n/a
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					
								Weight: 119 lb	FT = 20%
								MT20	244/190

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 (5-4-14 max.).
BOT CHORD	Rigid ceiling directly applied or 9-1-10 oc bracing.

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-164(LC 10)
Max Uplift 2=-204(LC 12), 8=-204(LC 13)
Max Grav 2=744(LC 1), 8=744(LC 1)

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

TOP CHORD 2-4=-898/572, 4-5=-701/511, 5-6=-701/511, 6-8=-898/572
BOT CHORD 2-10=-388/744, 8-10=-395/744
WEBS 4-10=-282/253, 5-10=-459/535, 6-10=-282/253

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDF=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=-0.18; MWFRS (envelope) gable end zone and C-C zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2'-0" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=204, 8=204.
- 10) 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:

December 5, 2023



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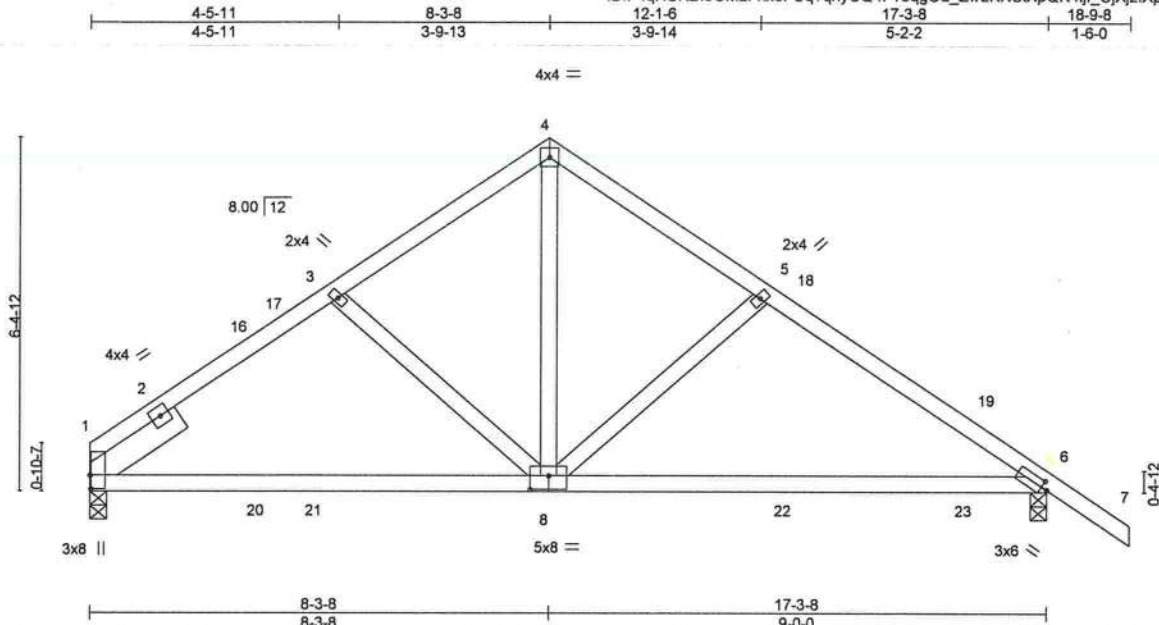
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Chesterfield, MO 63017
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Job 3761058	Truss T22	Truss Type Common	Qty 1	Ply 1	SIMQUE - RAULERSON RES. Job Reference (optional)	T32259192
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:03 2023 Page 1
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Scale = 1:40.1

Plate Offsets (X,Y)-- [1:0-3-0,0-0-3], [6:0-1-5,0-1-8], [8:0-4-0,0-3-0]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.36		Vert(LL) 0.14 8-15	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.66		Vert(CT) -0.25 8-15	>818	180		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.25		Horz(CT) 0.01 6	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS					Weight: 88 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

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

REACTIONS. (size) 1=0-3-8, 6=0-3-8
Max Horz 1=-163(LC 8)
Max Uplift 1=-152(LC 12), 6=-198(LC 13)
Max Grav 1=636(LC 1), 6=724(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-768/426, 3-4=-634/411, 4-5=-644/397, 5-6=-834/427
BOT CHORD 1-8=-247/602, 6-8=-288/660
WEBS 4-8=-361/468, 5-8=-253/194

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 12-6-7 to 18-9-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=152, 6=198.

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MiTek Inc. DBA MiTek USA, Inc. Cert 6654
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.
3761058	T23	Common Girder	1	1	T32259193

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:04 2023 Page 1
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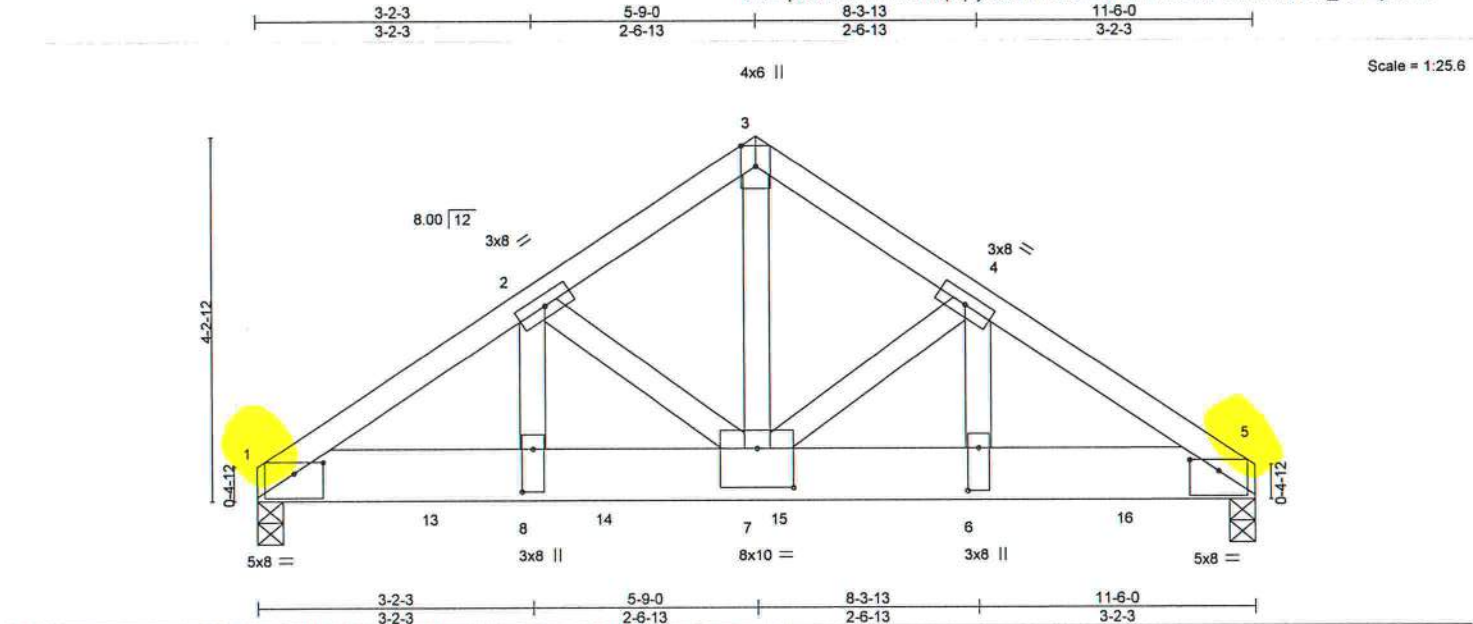


Plate Offsets (X,Y)-		[1:0-4-0,0-1-9], [5:0-4-0,0-1-9], [6:0-6-0,0-1-8], [7:0-5-0,0-5-8], [8:0-6-0,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36
TCDL 7.0	Lumber DOL	1.25	BC 0.39
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.06 7 >999 240
			Vert(CT) -0.11 7 >999 180
			Horz(CT) 0.03 5 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 75 lb FT = 20%

LUMBER-		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x8 SP 2400F 2.0E	
WEBS	2x4 SP No.3 *Except*	
	3-7: 2x4 SP No.2	
BRACING-		
TOP CHORD	Structural wood sheathing directly applied or 2-9-4 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	

REACTIONS.	(size) 1=0-3-8, 5=0-3-8
	Max Horz 1=-95(LC 25)
	Max Uplift 1=-650(LC 8), 5=-723(LC 9)
	Max Grav 1=2535(LC 1), 5=2867(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-3828/985, 2-3=-2823/754, 3-4=-2824/756, 4-5=-3949/1005
BOT CHORD	1-8=-830/3163, 7-8=-830/3163, 6-7=-794/3273, 5-6=-794/3273
WEBS	3-7=-764/2930, 4-7=-1260/369, 4-6=-296/1338, 2-7=-1069/343, 2-8=-270/1104

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=650, 5=723.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 901 lb down and 247 lb up at 2-0-12, 901 lb down and 247 lb up at 4-0-12, 981 lb down and 247 lb up at 6-0-12, and 981 lb down and 246 lb up at 8-0-12, and 981 lb down and 246 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced):	Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)	
Vert:	1-3=-54, 3-5=-54, 1-5=-20
Concentrated Loads (lb)	
Vert:	6=-901(B) 13=-901(B) 14=-901(B) 15=-901(B) 16=-901(B)

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

December 5, 2023

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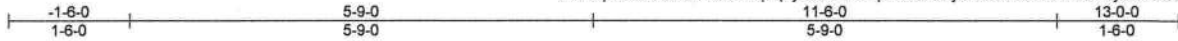
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Chesterfield, MO 63017
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Job 3761058	Truss T23G	Truss Type Common Supported Gable	Qty 1	Ply 1	SIMQUE - RAULERSON RES. T32259194
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:06 2023 Page 1

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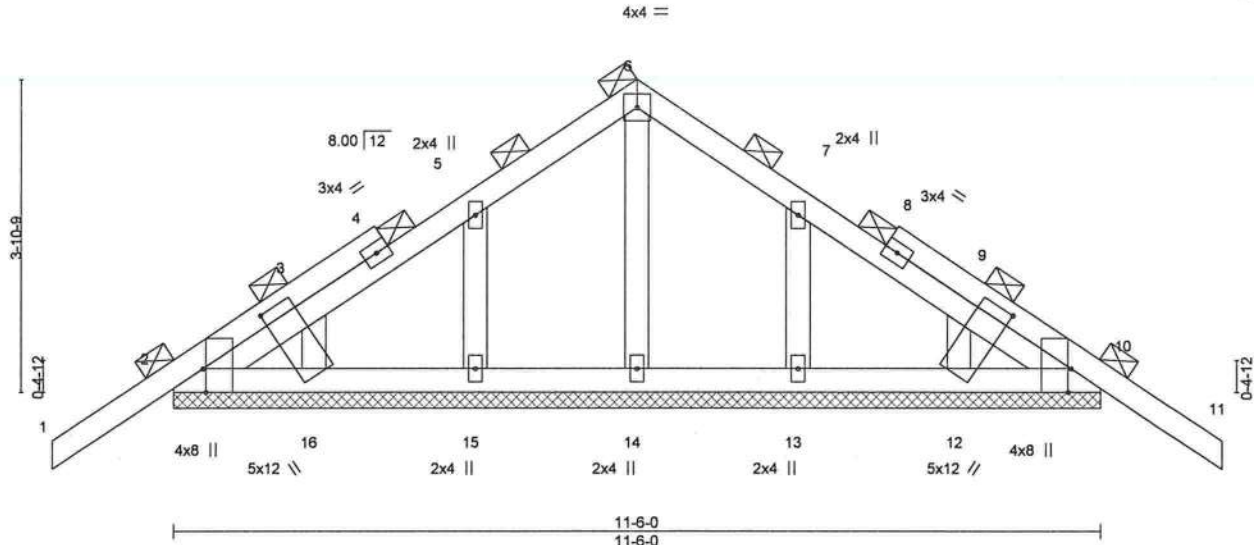


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [10:0-3-8,Edge], [12:0-1-13,0-11-9], [16:0-1-13,0-11-9]											
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.01	11	n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	11	n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 64 lb FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-6-0.
(lb) - Max Horz 2=111(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.
- 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.

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Date:

December 5, 2023

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Job	Truss	Truss Type	Qty	Ply	SIMQUE - RAULERSON RES.	T32259195
3761058	T24	KINGPOST	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:07 2023 Page 1
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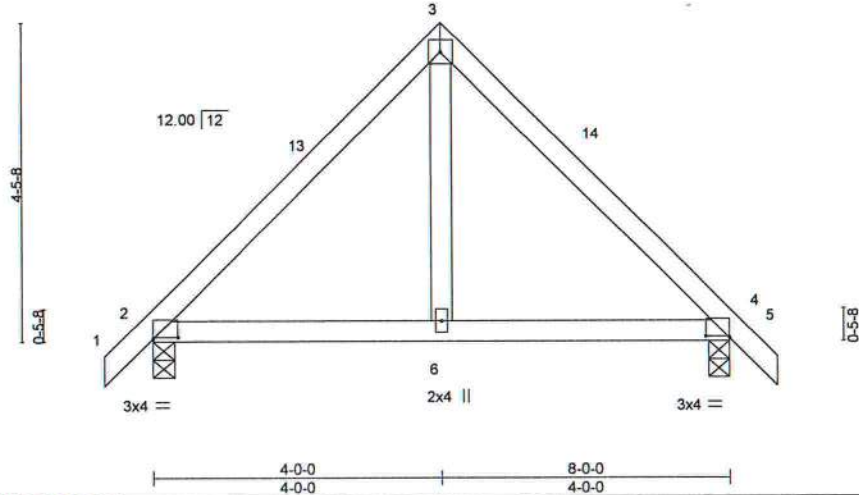
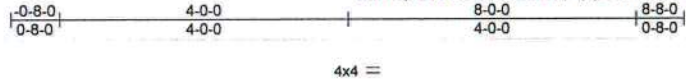


Plate Offsets (X,Y)--		[2:0-4-0,0-0-3], [4:0-4-0,0-0-3]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.21		Vert(LL)	-0.01 6-9	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.20		Vert(CT)	-0.02 6-9	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.07		Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 38 lb	FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 4=0-3-8
	Max Horz 2=115(LC 11)
	Max Uplift 2=-80(LC 12), 4=-80(LC 13)
	Max Grav 2=332(LC 1), 4=332(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-304/168, 3-4=-304/168

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

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023



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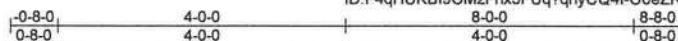
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Job 3761058	Truss T24G	Truss Type GABLE	Qty 1	Ply 1	SIMQUE - RAULERSON RES. T32259196
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8.730 s Nov 13 2023 MiTek Industries, Inc. Mon Dec 4 11:59:08 2023 Page 1

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4x4 =

Scale = 1:30.8

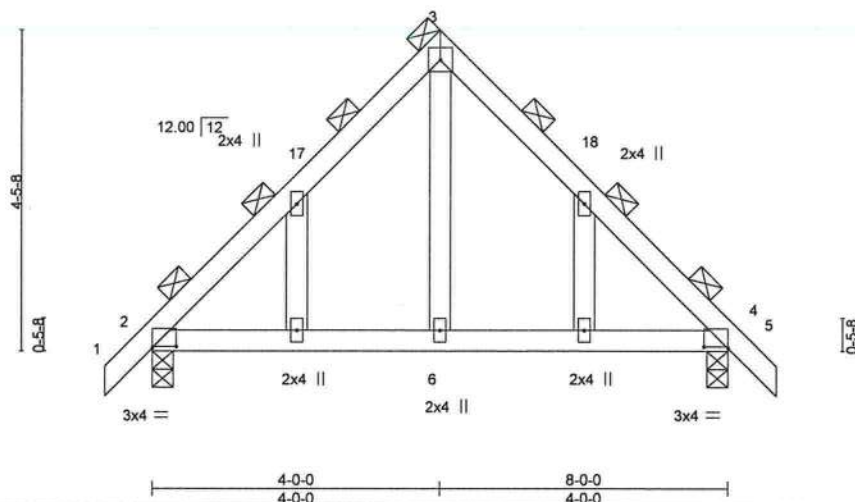


Plate Offsets (X,Y)--		[2'-0"-4'-0", 0'-0"-3"], [4'-0"-4'-0", 0'-0"-4"]									
LOADING (psf)		SPACING-	2'-0"-3"	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.22		Vert(LL)	-0.01 6'-16	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.20		Vert(CT)	-0.02 6'-16	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.07		Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2'-0"-0 oc purlins (6'-0"-0 max.).
BOT CHORD Rigid ceiling directly applied or 10'-0"-0 oc bracing.

REACTIONS.

(size) 2'-0"-3-8, 4'-0"-3-8
Max Horz 2=115(LC 11)
Max Uplift 2=80(LC 12), 4=80(LC 13)
Max Grav 2=332(LC 1), 4=332(LC 1)

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

TOP CHORD 2-3=-304/168, 3-4=-304/168

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 8'-0"-0 to 8'-8"-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable studs spaced at 2'-0"-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6"-0 tall by 2'-0"-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 5, 2023

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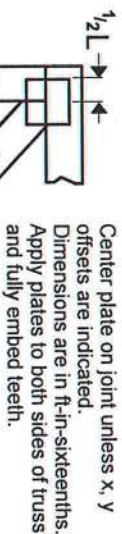
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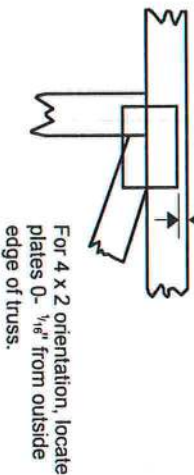
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Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



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

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

PLATE SIZE

4 X 4

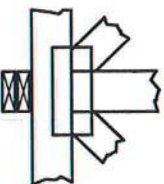
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

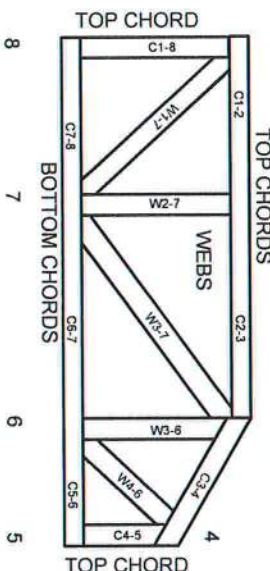
Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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

1 2 3 Joint ID



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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MITek Engineering Reference Sheet: MLL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSL.
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 ware at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Gamber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.