

[illegible]



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

RE: 4496588 - NORMAN - ALMONTE

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: CHRISMILL HOMES Project Name: Norman-Almonte Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 589 SW Kicklighter Terrace, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 44 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.

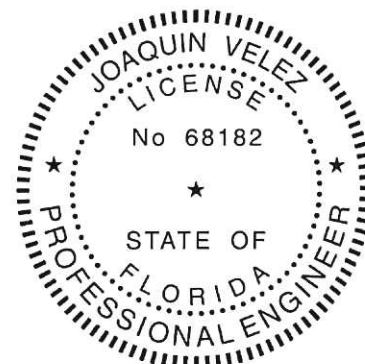
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T36712024	CJ01	3/18/25	15	T36712038	T02G	3/18/25
2	T36712025	CJ03	3/18/25	16	T36712039	T03	3/18/25
3	T36712026	CJ05	3/18/25	17	T36712040	T03A	3/18/25
4	T36712027	EJ01	3/18/25	18	T36712041	T04	3/18/25
5	T36712028	EJ02	3/18/25	19	T36712042	T05	3/18/25
6	T36712029	EJ03	3/18/25	20	T36712043	T06	3/18/25
7	T36712030	EJ03A	3/18/25	21	T36712044	T07	3/18/25
8	T36712031	HJ05	3/18/25	22	T36712045	T08	3/18/25
9	T36712032	HJ10	3/18/25	23	T36712046	T09	3/18/25
10	T36712033	PB01	3/18/25	24	T36712047	T10	3/18/25
11	T36712034	PB02	3/18/25	25	T36712048	T11	3/18/25
12	T36712035	T01	3/18/25	26	T36712049	T12	3/18/25
13	T36712036	T01G	3/18/25	27	T36712050	T13	3/18/25
14	T36712037	T02	3/18/25	28	T36712051	T14	3/18/25

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

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2027.

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



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

March 18,2025

Velez, Joaquin

1 of 2



RE: 4496588 - NORMAN - ALMONTE

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: CHRISMILL HOMES Project Name: Norman-Almonte Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 589 SW Kicklighter Terrace, N/A
City: Columbia Cty State: FL

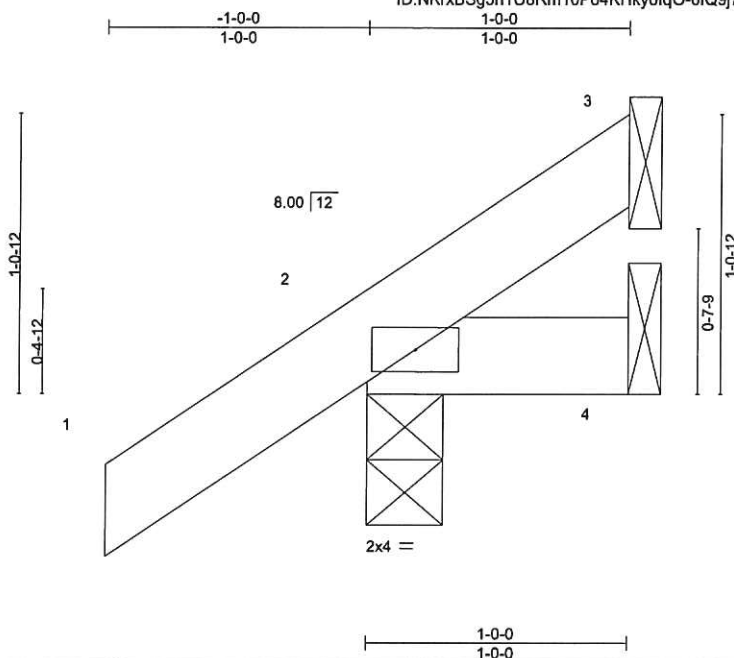
No.	Seal#	Truss Name	Date
29	T36712052	T15	3/18/25
30	T36712053	T16	3/18/25
31	T36712054	T17	3/18/25
32	T36712055	T18	3/18/25
33	T36712056	T19	3/18/25
34	T36712057	T20	3/18/25
35	T36712058	T21	3/18/25
36	T36712059	T22	3/18/25
37	T36712060	T23	3/18/25
38	T36712061	T24	3/18/25
39	T36712062	T25	3/18/25
40	T36712063	T25G	3/18/25
41	T36712064	T26	3/18/25
42	T36712065	T26G	3/18/25
43	T36712066	T27	3/18/25
44	T36712067	V01	3/18/25

Job 4496588	Truss CJ01	Truss Type Jack-Open	Qty 6	Ply 1	NORMAN - ALMONTE T36712024
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:38 2025 Page 1

ID:NRxBsG5n1U8Rm10Po4KHkyolQO-6fQ9j7ui22kc51Tanz79LHNIUQPpxVpmOFUMj2zZo4p



Scale = 1:8.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.09	Vert(LL)	0.00	7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	7	>999	180	244/190
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: 5 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=47(LC 12)
Max Uplift 3=9(LC 12), 2=44(LC 12), 4=5(LC 9)
Max Grav 3=11(LC 19), 2=118(LC 1), 4=13(LC 3)

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

NOTES-

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

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

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

March 18,2025

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

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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712025
4496588	CJ03	Jack-Open	4	1		

Builders FirstSource (Lake City,FL),

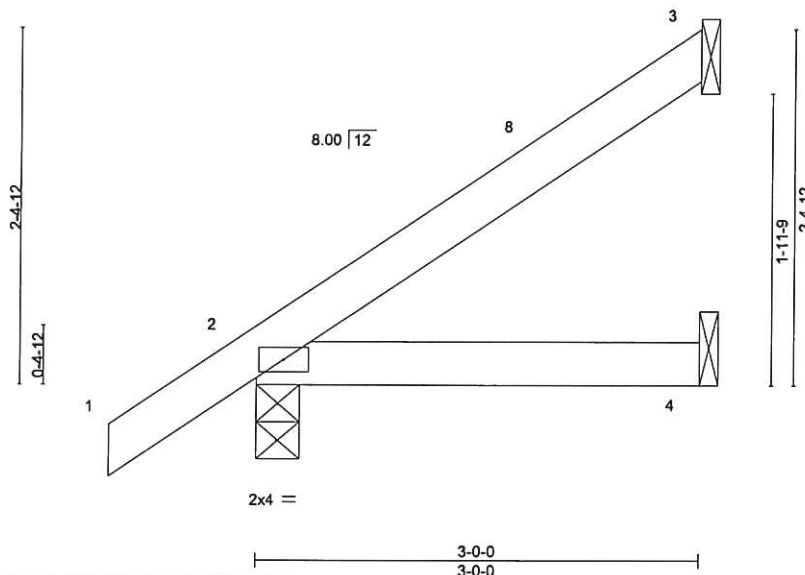
Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:39 2025 Page 1

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Scale = 1:15.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.09	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 12 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=98(LC 12)
Max Uplift 3=-54(LC 12), 2=-39(LC 12), 4=-3(LC 12)
Max Grav 3=72(LC 19), 2=172(LC 1), 4=52(LC 3)

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

NOTES-

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

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

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

March 18,2025

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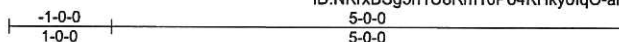
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712026
4496588	CJ05	Jack-Open	4	1		

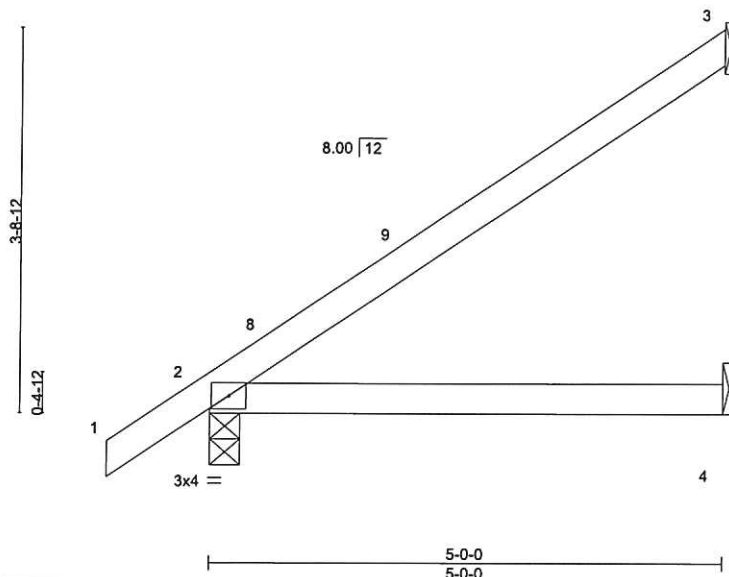
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:39 2025 Page 1

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Scale = 1:22.4



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 0.31	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=149(LC 12)
Max Uplift 3=-95(LC 12), 2=-44(LC 12), 4=-5(LC 12)
Max Grav 3=127(LC 19), 2=242(LC 1), 4=90(LC 3)

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

NOTES-

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

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

March 18,2025

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712027
4496588	EJ01	Jack-Partial	18	1		

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:40 2025 Page 1

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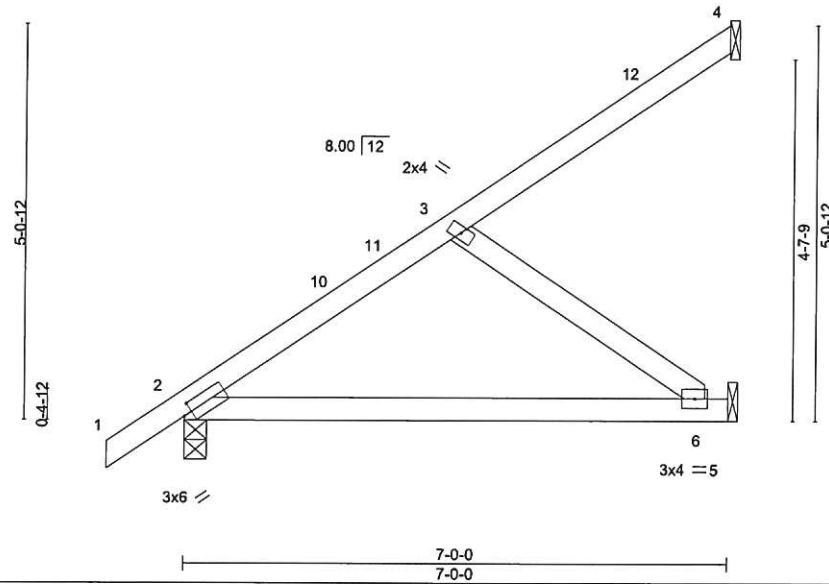


Plate Offsets (X,Y)-- [2:0-1-5,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.08	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.16	6-9	>523	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 31 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=193(LC 12)
Max Uplift 4=-54(LC 12), 2=-54(LC 12), 5=-74(LC 12)
Max Grav 4=77(LC 19), 2=315(LC 1), 5=194(LC 19)

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

NOTES-

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

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

March 18,2025

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712028
4496588	EJ02	Roof Special	2	1		
Job Reference (optional)						

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

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ID:NRxBsG5n1U8Rm10Po4KHkyolqO-22Yw8ovzaf_KKLdzvO9dRiTXXGE_QPPI3sZzSowzZo4n

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3x6 =

Scale = 1:29.9

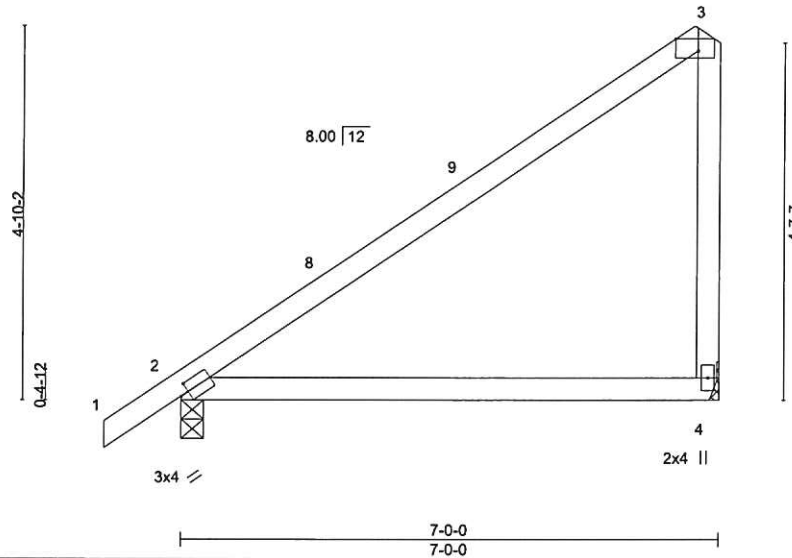


Plate Offsets (X,Y)--		[2'-0-1-5,0'-1-8], [3'-0-3-8,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	0.10	4-7	>833	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.17	4-7	>493	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 31 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=198(LC 12)
Max Uplift 2=49(LC 12), 4=141(LC 12)
Max Grav 2=312(LC 1), 4=268(LC 19)

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 6-10-4 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.
- 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) 2 except (jt=lb) 4=141.

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

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

March 18,2025

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Job 4496588	Truss EJ03	Truss Type Jack-Open	Qty 3	Ply 1	NORMAN - ALMONTE	T36712029
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Builders FirstSource (Lake City,FL),

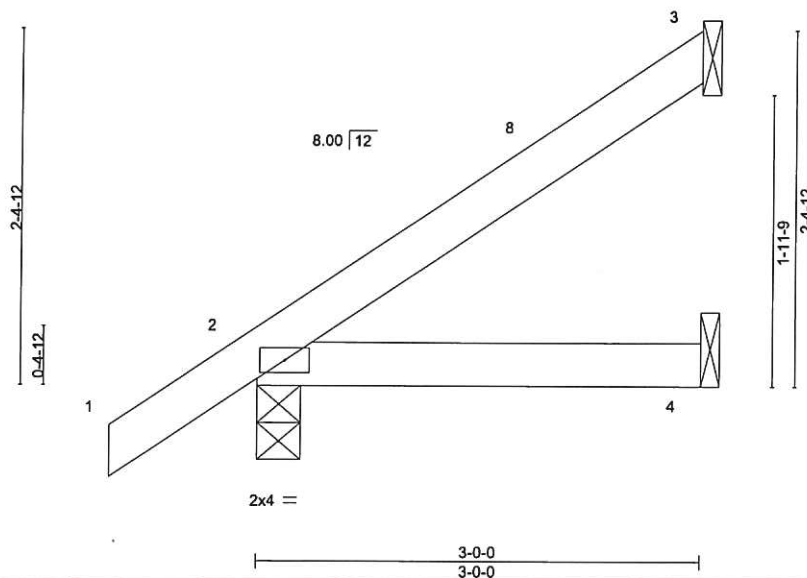
Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:40 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-22Yw8ovzaI_KKLdZvO9dRiTezE4LPPI3sZzSowzZo4n



Scale = 1:15.6



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 0.09	Vert(LL)	-0.00	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						
								Weight: 12 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=98(LC 12)
Max Uplift 3=-54(LC 12), 2=-39(LC 12), 4=-3(LC 12)
Max Grav 3=72(LC 19), 2=172(LC 1), 4=52(LC 3)

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

NOTES-

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

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Chesterfield, MO 63017
Date:

March 18,2025

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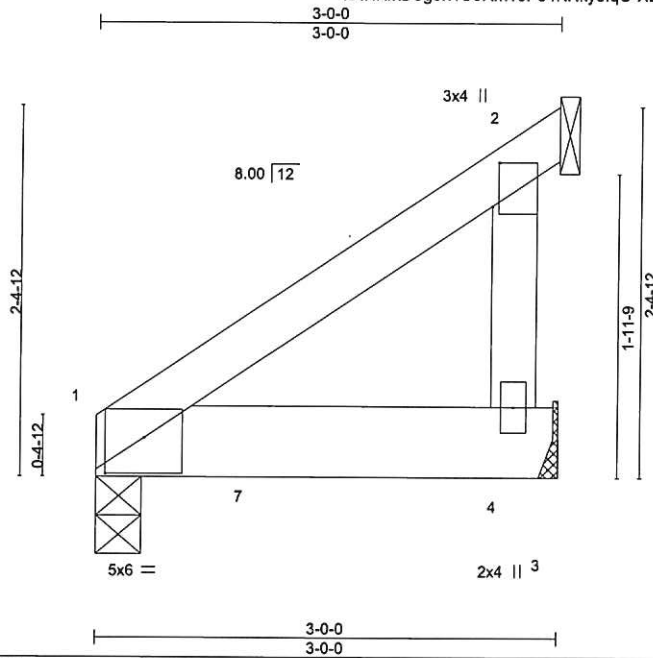
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712030
4496588	EJ03A	Jack-Open Girder	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:41 2025 Page 1

ID:NRxBSg5n1U8Rm10Po4KHkyolqO-XE6IL8wbLz7ByUC9T5gszv?mydHh8sYC4Dj0KNzZo4m



Scale = 1:14.9

Plate Offsets (X,Y)-- [1:0-3-0,0-2-13], [2:0-3-7,0-0-8]

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 0.26	Vert(LL)	-0.01	4-6	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.02	4-6	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						
								Weight: 15 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 4=Mechanical, 2=Mechanical
Max Horz 1=70(LC 8)
Max Uplift 1=178(LC 8), 4=105(LC 8), 2=58(LC 8)
Max Grav 1=758(LC 1), 4=424(LC 1), 2=108(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 1=178, 4=105.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1083 lb down and 291 lb up at 1-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 7=-1083(B)

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017

Date:

March 18,2025

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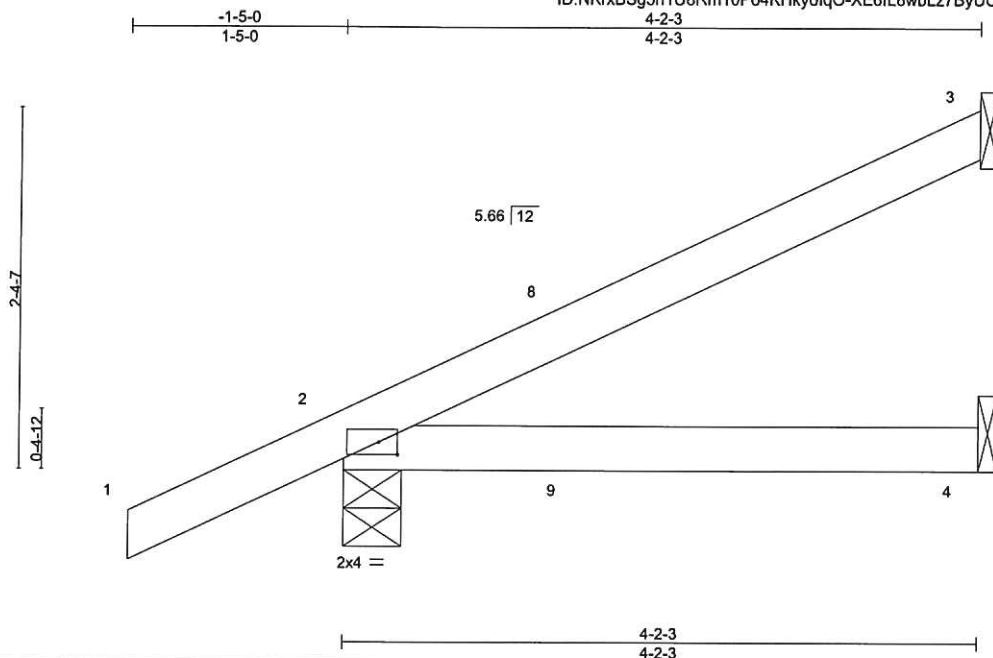
Job 4496588	Truss HJ05	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	NORMAN - ALMONTE	T36712031
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Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:41 2025 Page 1

ID:NRxBsG5n1U8Rm10Po4KHkyolqO-XE6IL8wbLz7ByUC9T5gszv?ntdP28sYC4Dj0KNzZo4m



Scale = 1:15.1

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	0.02	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.03	4-7	>999	180	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						
								Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=97(LC 8)
Max Uplift 3=97(LC 8), 2=85(LC 8), 4=28(LC 5)
Max Grav 3=120(LC 1), 2=236(LC 1), 4=73(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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 13 lb up at 1-6-1, and 63 lb down and 13 lb up at 1-6-1, and 66 lb down and 59 lb up at 4-1-7 on top chord, and 33 lb down and 11 lb up at 1-6-1, and 33 lb down and 11 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, 4-5=-20
Concentrated Loads (lb)
Vert: 3=-29(B) 9=9(F=5, B=5)

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

March 18,2025

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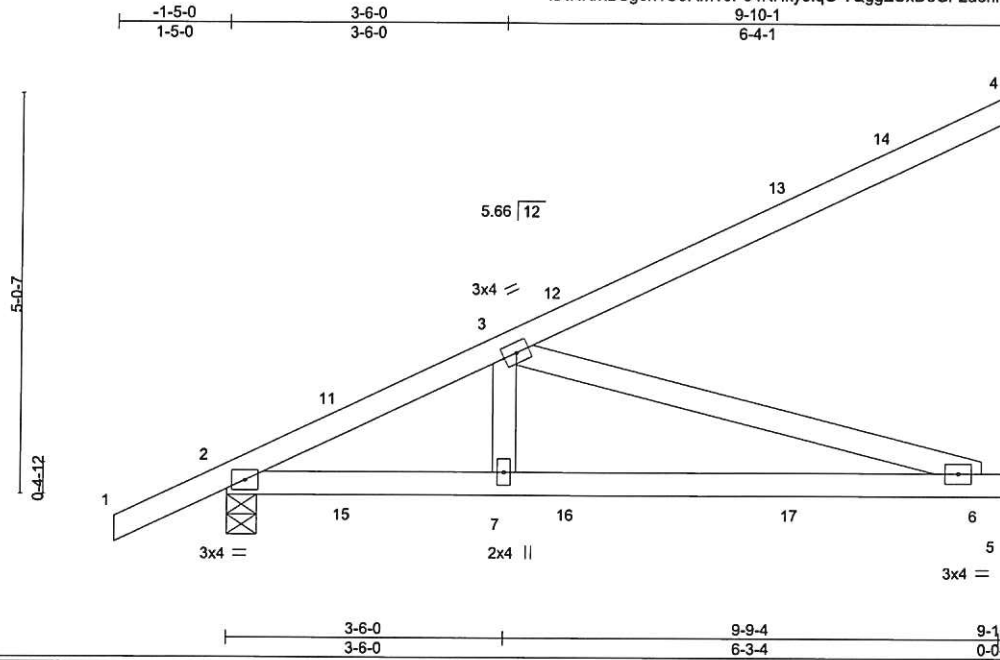
Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712032
4496588	HJ10	Diagonal Hip Girder	2	1		

Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:42 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkylqO-?QggZUxD6GF2aenM0pB5W7Yok1bVAMMJtSZspZa4l



Scale = 1:29.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.84	Vert(LL) -0.09	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.80	Vert(CT) -0.20	6-7	>591	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.60	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						

Weight: 45 lb FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-7-7 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=193(LC 8)
Max Uplift 4=135(LC 8), 2=191(LC 8), 5=126(LC 8)
Max Grav 4=180(LC 1), 2=483(LC 1), 5=294(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-899/326
BOT CHORD 2-7=-450/743, 6-7=-450/743
WEBS 3-7=0/305, 3-6=-774/468

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 4=135, 2=191, 5=126.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 13 lb up at 1-6-1, 63 lb down and 13 lb up at 1-6-1, 88 lb down and 60 lb up at 4-4-0, 88 lb down and 60 lb up at 4-4-0, and 120 lb down and 106 lb up at 7-1-15, and 120 lb down and 106 lb up at 7-1-15 on top chord, and 7 lb down and 11 lb up at 1-6-1, 7 lb down and 11 lb up at 1-6-1, 26 lb down and 12 lb up at 4-4-0, 26 lb down and 12 lb up at 4-4-0, and 48 lb down and 21 lb up at 7-1-15, and 48 lb down and 21 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 12=-1(F=-0, B=-0) 13=-79(F=-39, B=-39) 15=9(F=5, B=5) 16=-14(F=-7, B=-7) 17=-66(F=-33, B=-33)

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

March 18,2025

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712033
4496588	PB01	Piggyback	2	1	Job Reference (optional)	

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

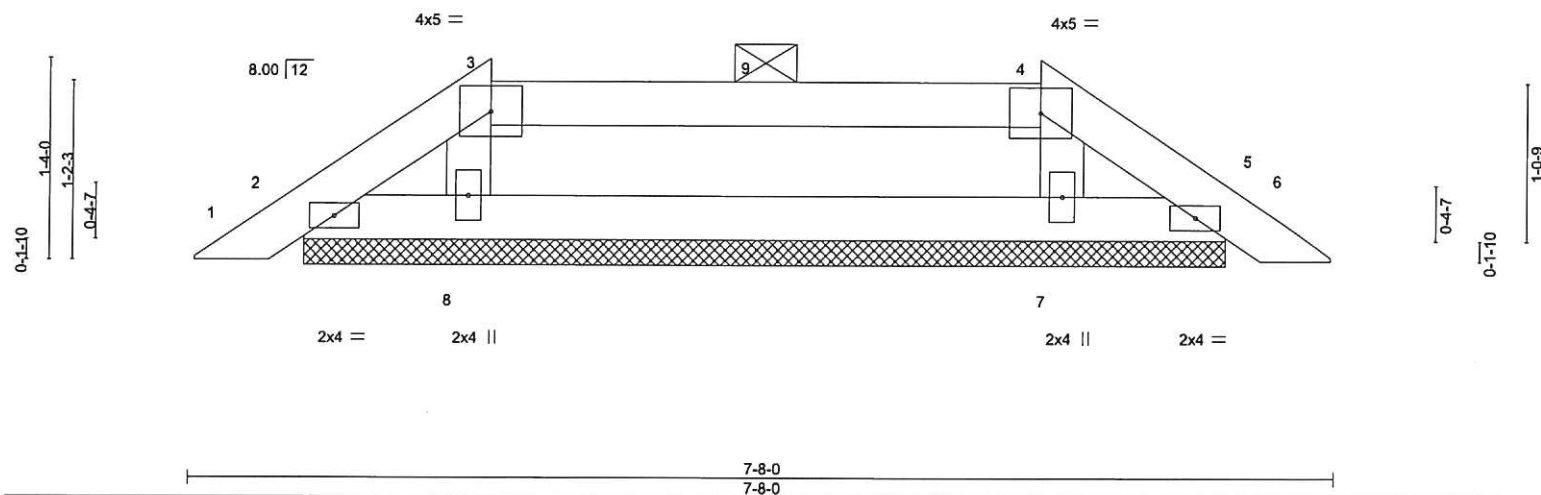
8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:43 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-TdE2mqxrtaNvBoMYaWjK2K57BR6qcmWVYXC7OFzZo4k

7-8-0

7-8-0

Scale = 1:15.3



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 0.22	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-P						Weight: 23 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 2-0-0 oc purlins (6-0-0 max.); 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 6-1-12.
(lb) - Max Horz 2--27(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpj=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek U.S.A FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

March 18,2025

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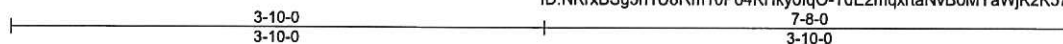
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE
4496588	PB02	Piggyback	4	1	T36712034

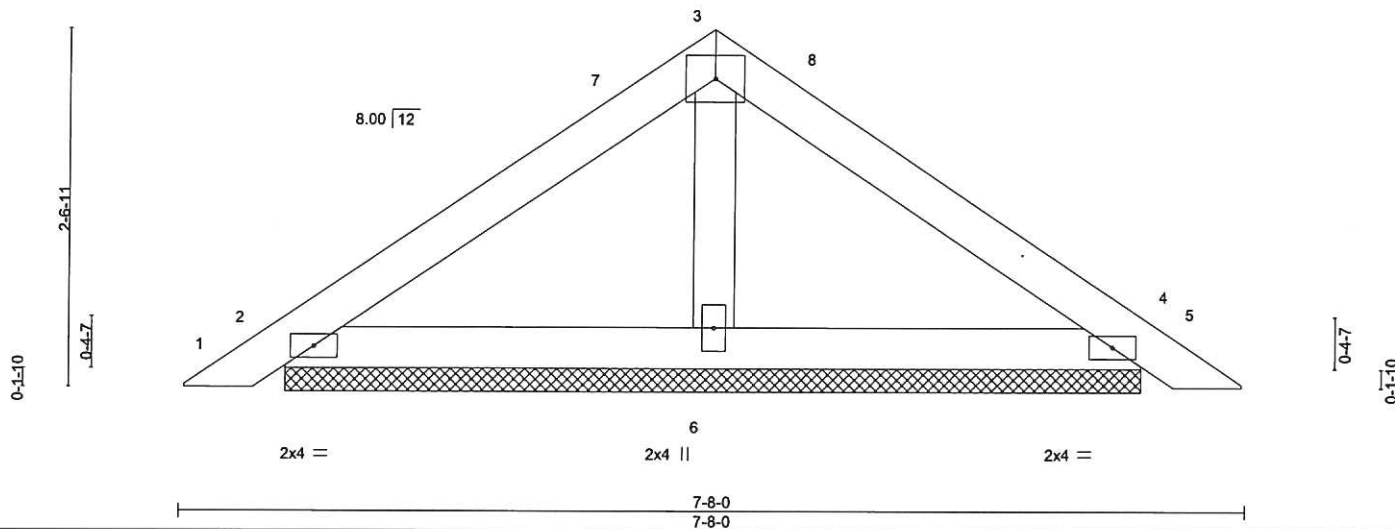
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:43 2025 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolQO-TdE2mqxrtaNvBoMYaWjK2K57TR6lcmavYXC7OFzZo4k



Scale = 1:16.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.10	Vert(CT)	0.01	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code FBC2023/TPI2014						Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 2=6-1-12, 4=6-1-12, 6=6-1-12
Max Horz 2=-59(LC 10)
Max Uplift 2=-57(LC 12), 4=-65(LC 13), 6=-22(LC 12)
Max Grav 2=150(LC 1), 4=150(LC 1), 6=207(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 Zone3 0-3-5 to 3-3-5, Zone1 3-3-5 to 3-10-0, Zone3 3-10-0 to 7-4-11 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.

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Chesterfield, MO 63017
Date:

March 18,2025

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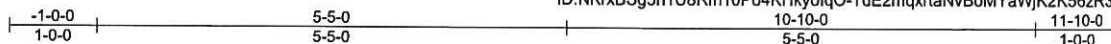
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712035
4496588	T01	Common	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:43 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-TdE2mqxrtaNvBoMYaWjK2K56zR3YclaVYXC7OFzZo4k



4x5 =

Scale = 1:26.5

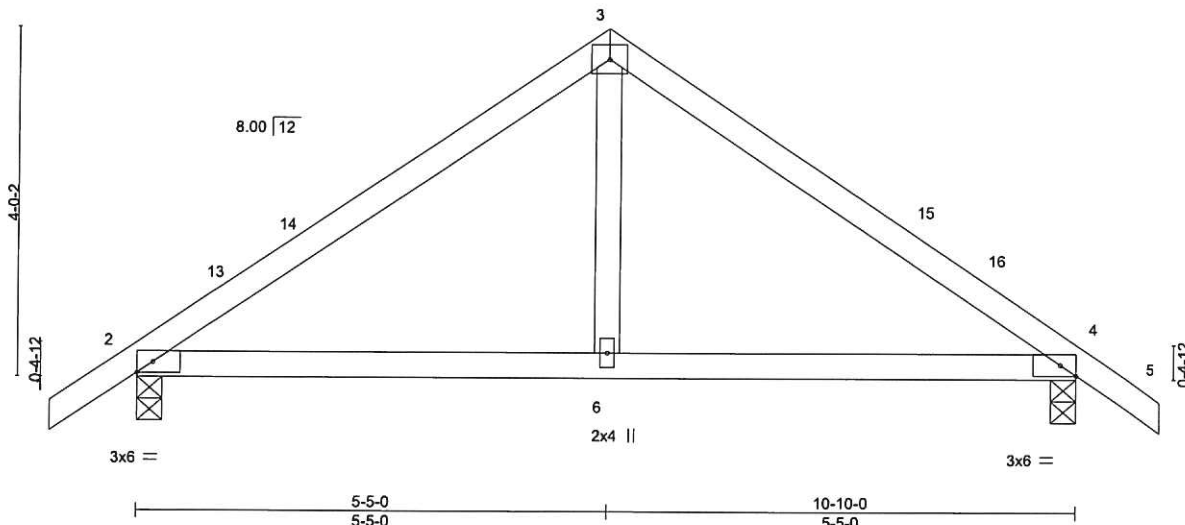


Plate Offsets (X,Y)--		[4:0-2-3, Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	20.0	2-0-0		TC	0.29	in (loc)	l/defl	L/d		MT20	GRIP
TCDL	7.0	Plate Grip DOL	1.25	BC	0.30	Vert(LL)	-0.03	6-9	>999	240	244/190
BCLL	0.0 *	Lumber DOL	1.25	WB	0.09	Vert(CT)	-0.05	6-9	>999	180	
BCDL	10.0	Rep Stress Incr	YES	Matrix-MS		Horz(CT)	0.00	4	n/a	n/a	
		Code	FBC2023/TPI2014							Weight: 45 lb FT = 20%	

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-106(LC 10)
Max Uplift 2=-124(LC 12), 4=-124(LC 13)
Max Grav 2=455(LC 1), 4=455(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-477/192, 3-4=-477/192
BOT CHORD 2-6=-43/338, 4-6=-43/338

- 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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 5-5-0, Zone2 5-5-0 to 9-7-15, Zone1 9-7-15 to 11-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 4=124.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

March 18,2025

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712036
4496588	T01G	Common Supported Gable	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:44 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-xp0R_AyTduVmpyxk8EEZbYdKorHLDNemBxgxizZo4j

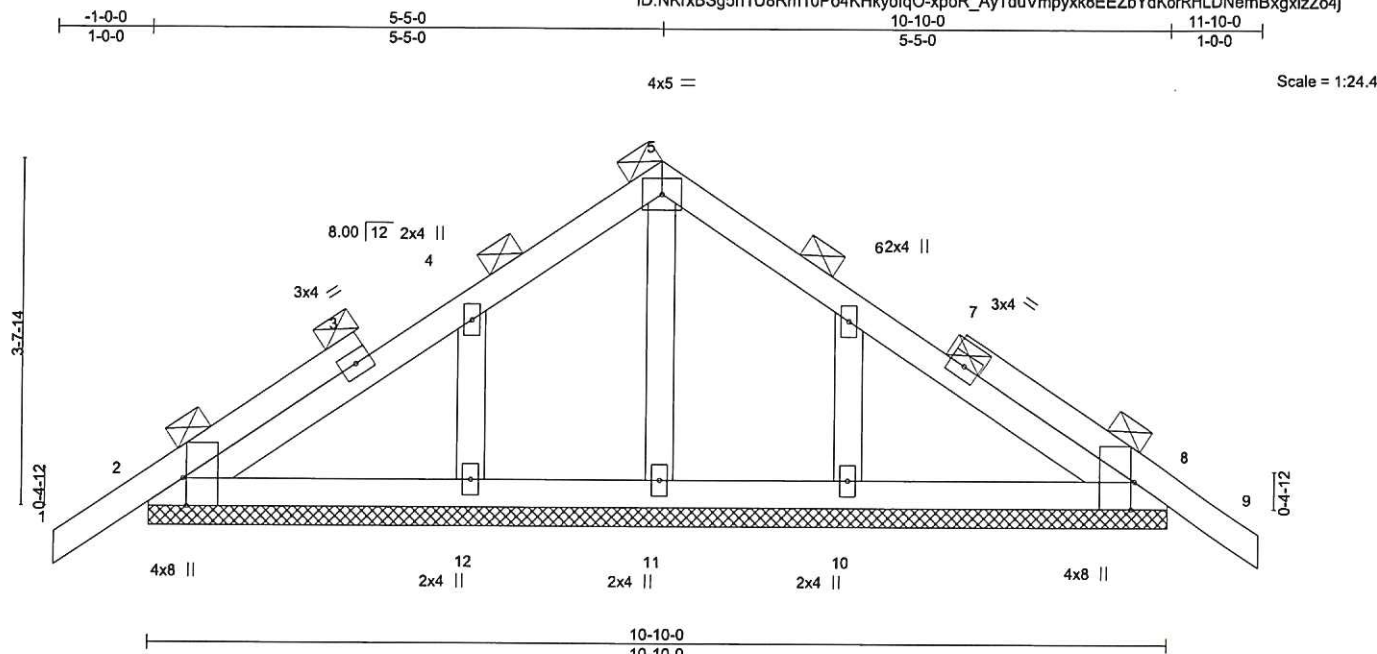


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [8:0-3-8,Edge]		10-10-0		10-10-0	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/def L/d
TCLL 20.0		Plate Grip DOL	1.25	TC 0.10		Vert(LL)	0.00 8 n/r 120
TCDL 7.0		Lumber DOL	1.25	BC 0.08		Vert(CT)	0.00 9 n/r 120
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.06		Horz(CT)	0.00 8 n/a n/a
BCDL 10.0		Code	FBC2023/TPI2014	Matrix-S			
						PLATES	GRIP
						MT20	244/190
						Weight: 56 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 6-0-0 oc bracing.

REACTIONS. All bearings 10-10-0.
(lb) - Max Horz 2=97(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 12=116(LC 12), 10=118(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

NOTES-

- 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 Zone3 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, 8 except (jt=lb) 12=116, 10=118.
- 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:

March 18,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712037
4496588	T02	Common	4	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:45 2025 Page 1

ID: NKxBSg5n1U8Rm10Po4KHkyolQ-P?MpBWz5OBddR6Wxio8IASDFbx4XEo?rhDT8zZo4i

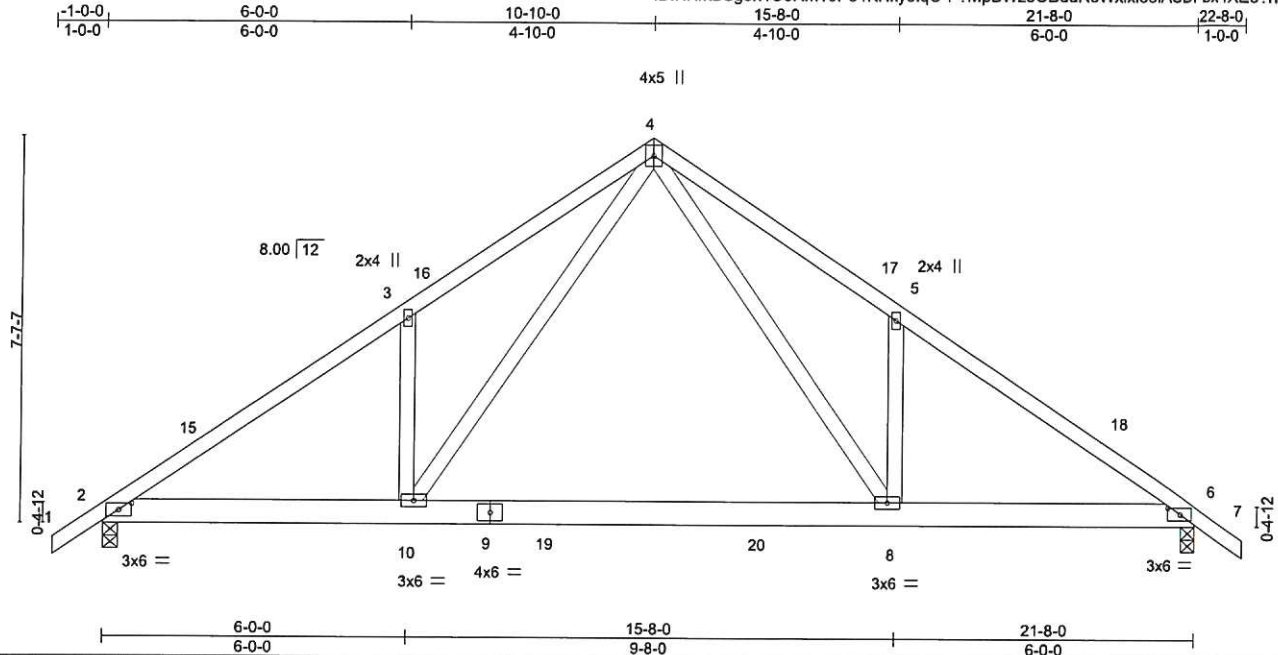


Plate Offsets (X,Y)--		[2:0-3-1,0-1-8], [6:0-3-1,0-1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.88	Vert(CT)	-0.37	8-10	>699	180			
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(CT)	0.03	6	n/a	n/a			
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS								
									Weight: 129 lb	FT = 20%	

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=195(LC 11)
Max Uplift 2=-317(LC 12), 6=-317(LC 13)
Max Grav 2=1270(LC 19), 6=1270(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2000/469, 3-4=-2041/637, 4-5=-2041/637, 5-6=-2000/469
BOT CHORD 2-10=-406/1727, 8-10=-171/1024, 6-8=-301/1610
WEBS 4-8=-423/1263, 5-8=-311/263, 4-10=-423/1263, 3-10=-311/263

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 10-10-0, Zone2 10-10-0 to 15-0-15, Zone1 15-0-15 to 22-8-0 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, 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=317, 6=317.
- 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: 1-4=-54, 4-7=-54, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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16023 Swingley Ridge Rd.
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Date:

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712038
4496588	T02G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:45 2025 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-P?MpBWz5OBddR6Wxixlo8IAS4FI4aXo?rhtDT8zZo4i

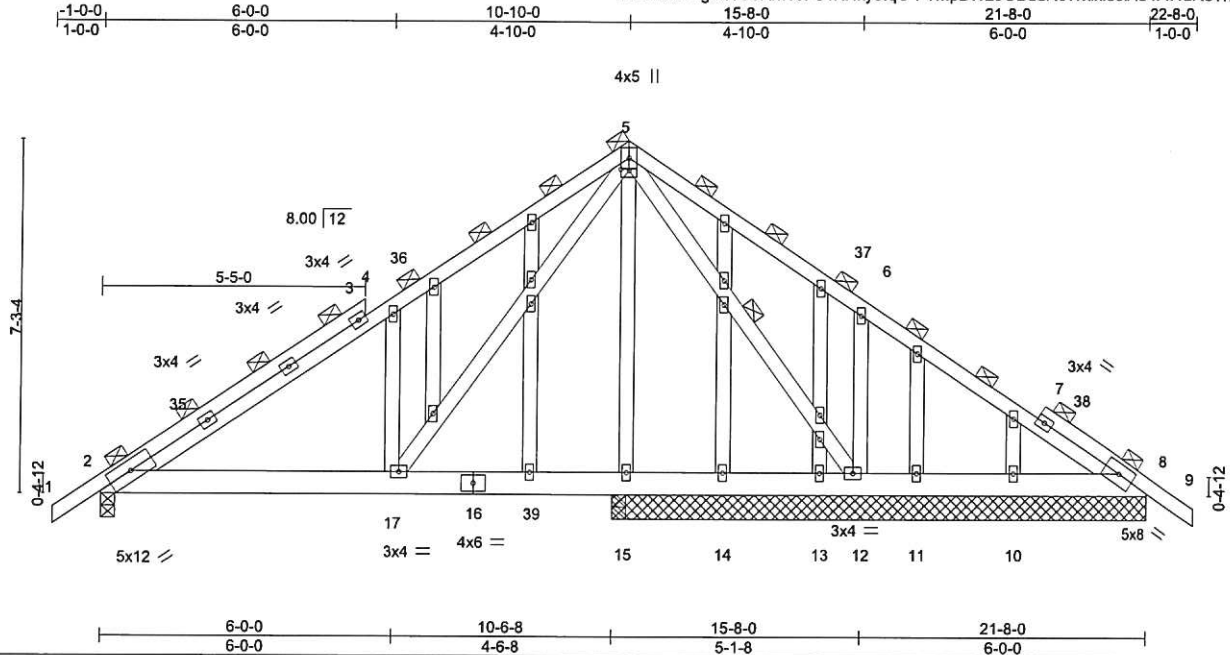


Plate Offsets (X,Y)-- [5:0-2-0,0-0-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.02 17-31 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.04 17-31 >999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.00 12 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 179 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-12
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-1-8 except (jt=length) 2=0-3-8, 15=0-3-8, 15=0-3-8.
(lb) - Max Horz 2=187(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 11, 10 except 2=172(LC 12), 12=308(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 8, 14, 13, 11, 10, 15, 15, 8 except 2=637(LC 19), 12=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-680/168, 4-5=-776/338
BOT CHORD 2-17=-166/669, 15-17=-52/274, 14-15=-52/274, 13-14=-52/274, 12-13=-52/274
WEBS 5-12=-495/161, 6-12=-313/248, 5-17=-293/685, 4-17=-364/267

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 10-10-0, Zone2 10-10-0 to 15-0-15, Zone1 15-0-15 to 22-8-0 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.
- 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) 14, 11, 10 except (jt=lb) 2=172, 12=308.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

March 18,2025

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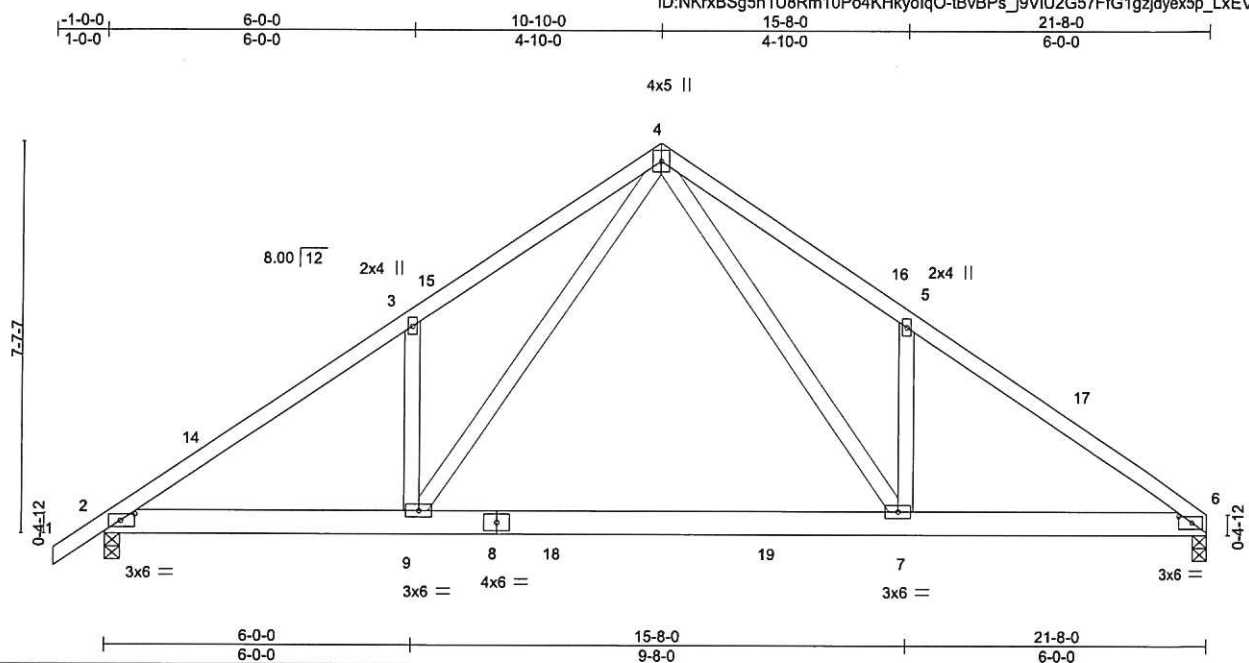
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712039
4496588	T03	Common	4	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:46 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-lBvBPs_j9VIU2G57FfG1gzjdyex5p_LxEVQn?azZo4h



Scale = 1:44.9

Plate Offsets (X,Y) - [2:0-3-5,0-1-8], [6:0-3-5,0-1-8]

LOADING (psf)	SPACING-		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31		Vert(LL)	-0.19	7-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.89		Vert(CT)	-0.37	7-9	>700	180	
BCLL 0.0	Rep Stress Incr	NO	WB 0.60		Horz(CT)	0.03	6	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							
									Weight: 127 lb	FT = 20%

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

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

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=189(LC 9)
Max Uplift 6=292(LC 13), 2=317(LC 12)
Max Grav 6=1219(LC 20), 2=1271(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2001/469, 3-4=-2042/638, 4-5=-2048/643, 5-6=-2007/474
BOT CHORD 2-9=-418/1720, 7-9=-183/1017, 6-7=-314/1605
WEBS 4-7=-428/1270, 5-7=-312/264, 4-9=-422/1262, 3-9=-311/263

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 10-10-0, Zone2 10-10-0 to 15-0-15, Zone1 15-0-15 to 21-8-0 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, 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) 6=292, 2=317.
- 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: 1-4=-54, 4-6=-54, 2-9=-20, 7-9=-80(F=-60), 6-7=-20

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

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

March 18,2025

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712040
4496588	T03A	COMMON	2	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:46 2025 Page 1
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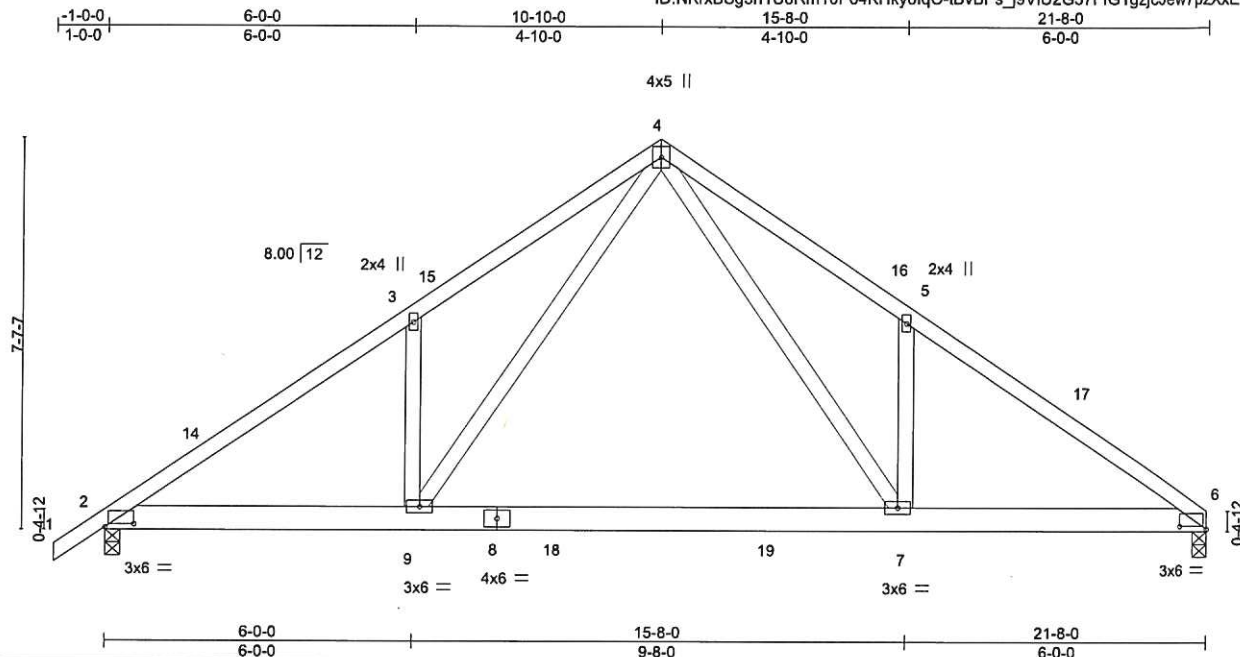


Plate Offsets (X,Y) - [2:0-6-12,0-0-12], [6:0-6-12,0-0-11]									
LOADING (psf)	SPACING-	2-3-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.21	7-9	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.39	7-9	>659		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 127 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=213(LC 9)
Max Uplift 6=316(LC 13), 2=345(LC 12)
Max Grav 6=1335(LC 20), 2=1393(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2173/503, 3-4=-2220/693, 4-5=-2228/698, 5-6=-2179/508
BOT CHORD 2-9=-449/1870, 7-9=-194/1108, 6-7=-332/1741
WEBS 4-7=-465/1378, 5-7=-353/298, 4-9=-459/1370, 3-9=-352/297

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 10-10-0, Zone2 10-10-0 to 15-0-15, Zone1 15-0-15 to 21-8-0 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, 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) 6=316, 2=345.
- 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: 1-4=-61, 4-6=-61, 2-9=-23, 7-9=-83(F=-60), 6-7=-23

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

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

March 18,2025

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712041
4496588	T04	Half Hip Girder	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:47 2025 Page 1

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Scale = 1:40.9

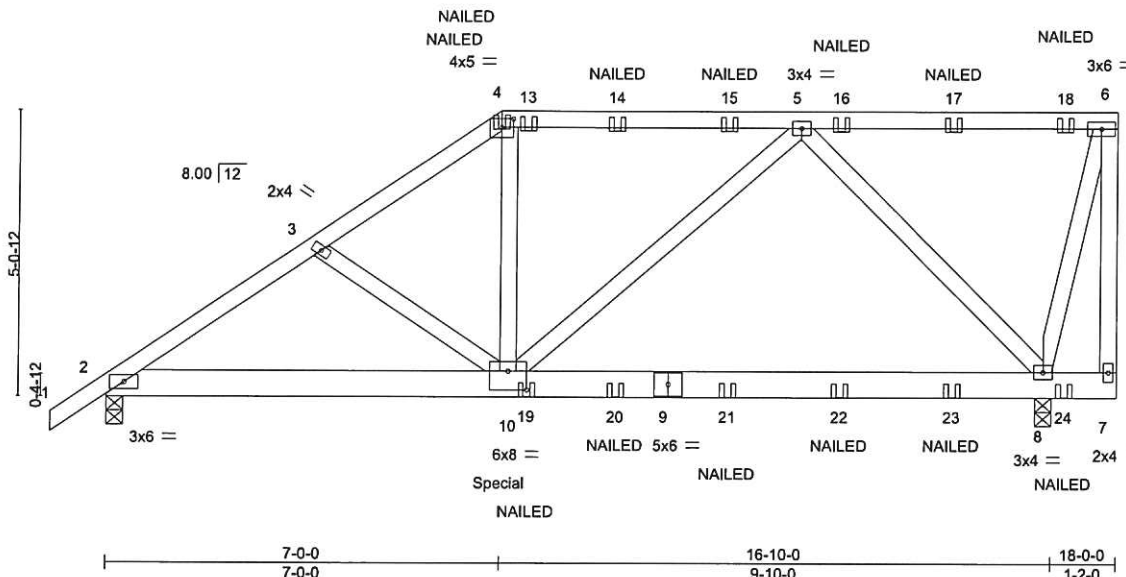


Plate Offsets (X,Y) -	[4:0-2-8,0-1-13], [10:0-4-0,0-4-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	0.16 8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.26 8-10	>765	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.92	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 117 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-0-2 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=203(LC 29)
Max Uplift 2=-497(LC 8), 8=-779(LC 5)
Max Grav 2=1171(LC 1), 8=1647(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1852/827, 3-4=-1711/797, 4-5=-1400/706, 6-7=-634/220
BOT CHORD 2-10=-803/1494, 8-10=-464/905
WEBS 4-10=-188/621, 5-10=-326/687, 5-8=-1146/623, 6-8=-149/624

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=497, 8=779.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 260 lb down and 154 lb up at 7-0-0 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: 1-4=-54, 4-6=-54, 2-7=-20
Concentrated Loads (lb)
Vert: 4=-103(F) 10=-260(F) 13=-17(F) 14=-17(F) 15=-17(F) 16=-17(F) 17=-17(F) 18=-22(F) 19=-162(F) 20=-162(F)
21=-162(F) 22=-162(F) 23=-162(F) 24=-164(F)

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

March 18,2025

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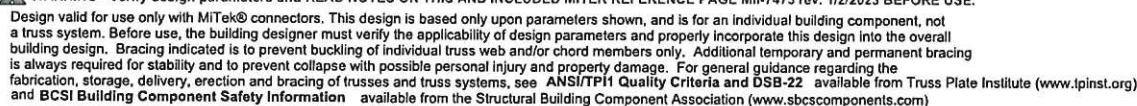
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8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:48 2025 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolQ-pa1xpY? h6?CIZEVN4lVlOoydSqzHv5Ehpyt4TzZo4f



- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDD=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-0-0 to 2-0-0, Zone1 2-0-0 to 9-0-0, Zone2 9-0-0 to 13-4-4, Zone1 13-4-4 to 17-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=156, 8=214.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 18.2025



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

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712043
4496588	T06	Half Hip	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:48 2025 Page 1

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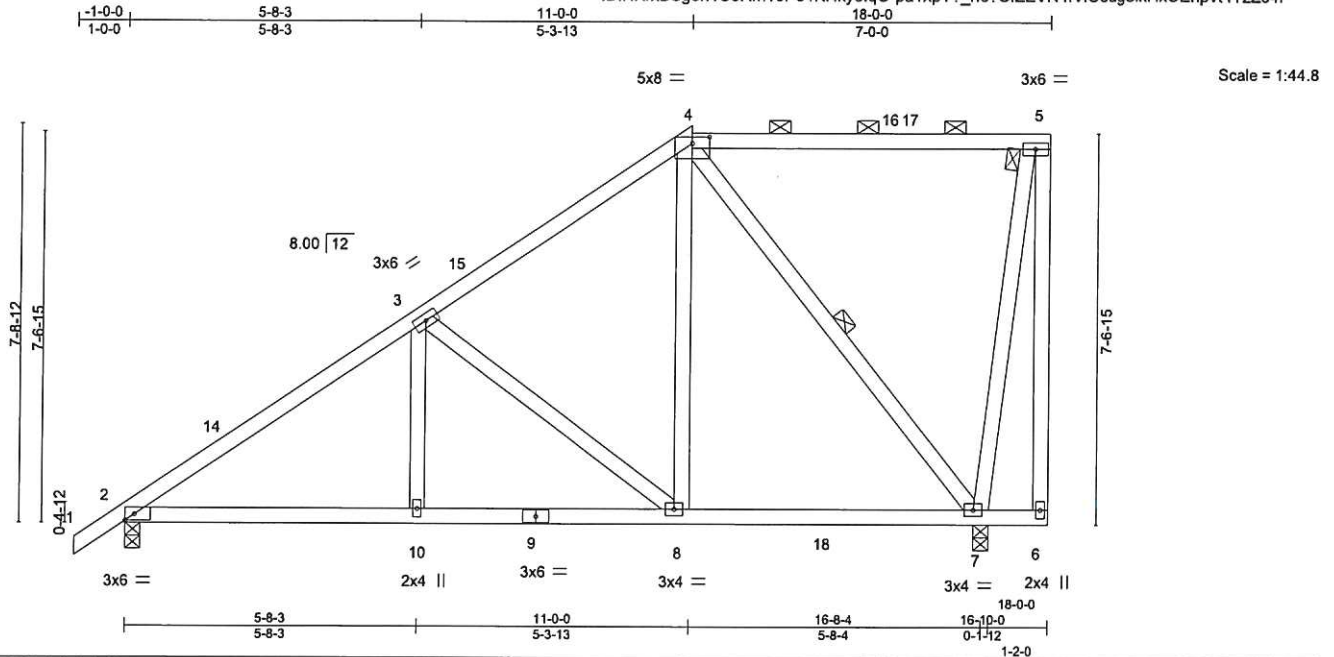


Plate Offsets (X,Y)-- [4:0-4-0,0-1-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	Vert(LL)	-0.04	10-13	>999	240	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.36	Vert(CT)	-0.08	10-13	>999	180	
BCLL 0.0 *	Lumber DOL 1.25	WB 0.39	Horz(CT)	0.02	7	n/a	n/a	
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TPI2014							
							Weight: 118 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=301(LC 12)
Max Uplift 2=-149(LC 12), 7=-205(LC 9)
Max Grav 2=758(LC 19), 7=784(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-919/148, 3-4=-519/100
BOT CHORD 2-10=-321/790, 8-10=-321/790, 7-8=-129/380
WEBS 3-8=-499/237, 4-8=-103/519, 4-7=-615/220

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 17-10-4 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=149, 7=205.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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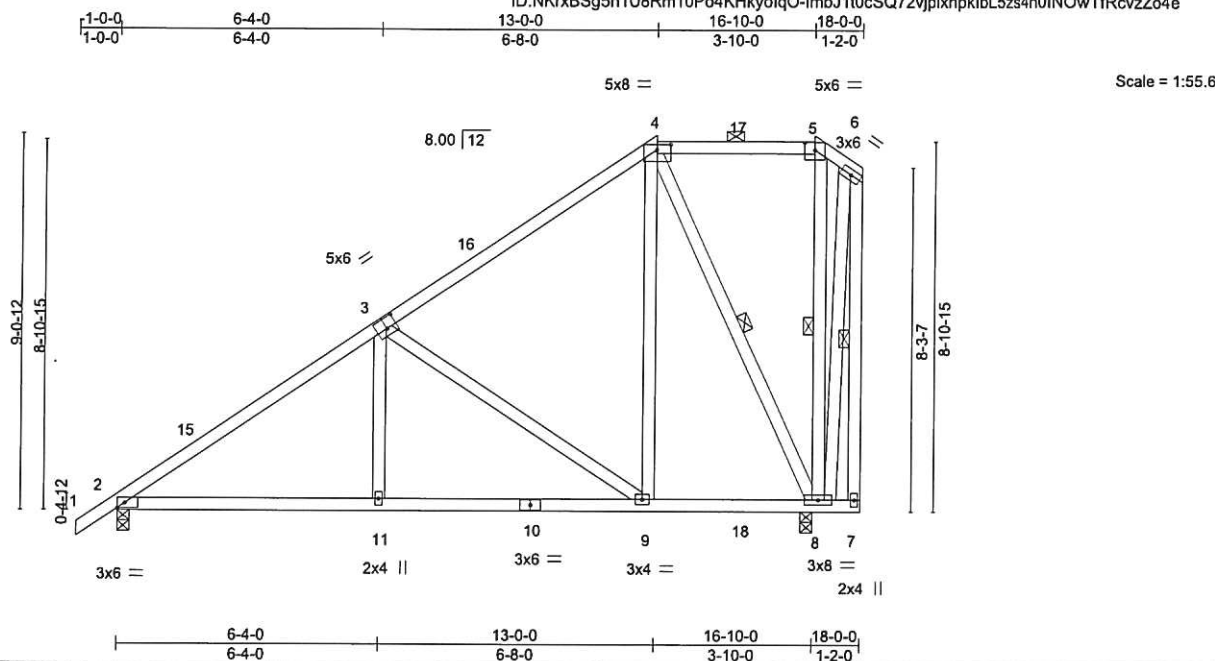


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-4-0,0-1-9], [5:0-3-0,0-2-3]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.05 11-14 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.10 11-14 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.02 8 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 140 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-8-11 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-8, 5-8, 6-7

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=340(LC 12)
Max Uplift 2=-150(LC 12), 8=-258(LC 12)
Max Grav 2=775(LC 19), 8=768(LC 2)

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

TOP CHORD 2-3=-927/143, 3-4=-409/76
BOT CHORD 2-11=-349/810, 9-11=-349/804, 8-9=-109/280
WEBS 3-11=0/281, 3-9=-622/287, 4-9=-119/559, 4-8=-663/260

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; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-0-0 to 2-0-0, Zone1 2-0-0 to 13-0-0, Zone3 13-0-0 to 17-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=ib) 2=150, 8=258.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 18, 2025



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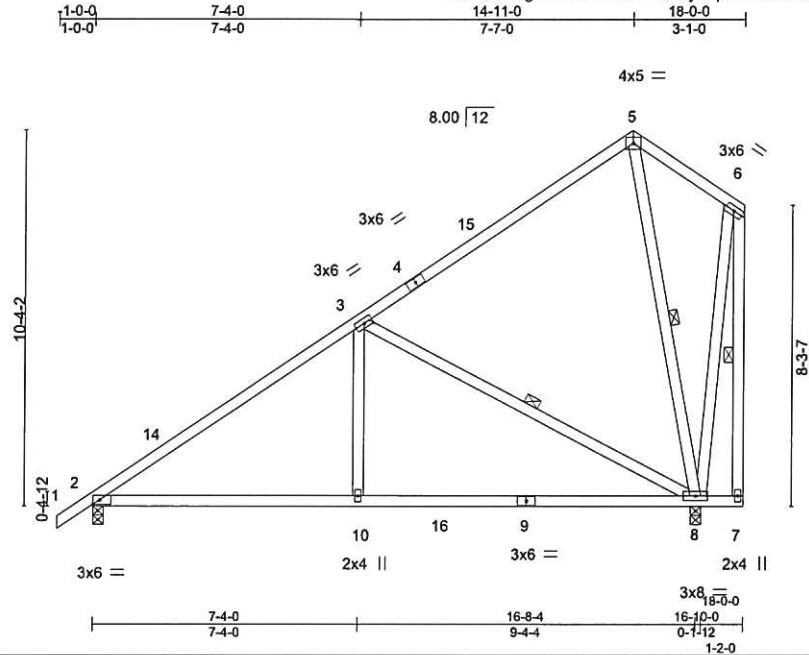
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712045
4496588	T08	Common	4	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:49 2025 Page 1
ID:NKxBSg5n1U8Rm10Po4KHkyolQ-lmbJ1t0cSQ72vjpxnplbL3Cs?Y0MIOWTfRcvzZo4e



Scale: 3/16"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.71	Vert(LL) -0.15 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.46	Vert(CT) -0.28 8-10 >714 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 8 n/a n/a		
	Code FBC2023/TPI2014			Weight: 122 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-8, 5-8, 6-7

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=363(LC 12)
Max Uplift 2=133(LC 12), 8=275(LC 12)
Max Grav 2=771(LC 19), 8=854(LC 19)

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

TOP CHORD 2-3=-904/101
BOT CHORD 2-10=-325/794, 8-10=-325/794
WEBS 3-10=0/406, 3-8=-824/344, 5-8=-255/155

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 14-11-0, Zone3 14-11-0 to 17-10-4 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.
- 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=133, 8=275.

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Chesterfield, MO 63017
Date:

March 18, 2025

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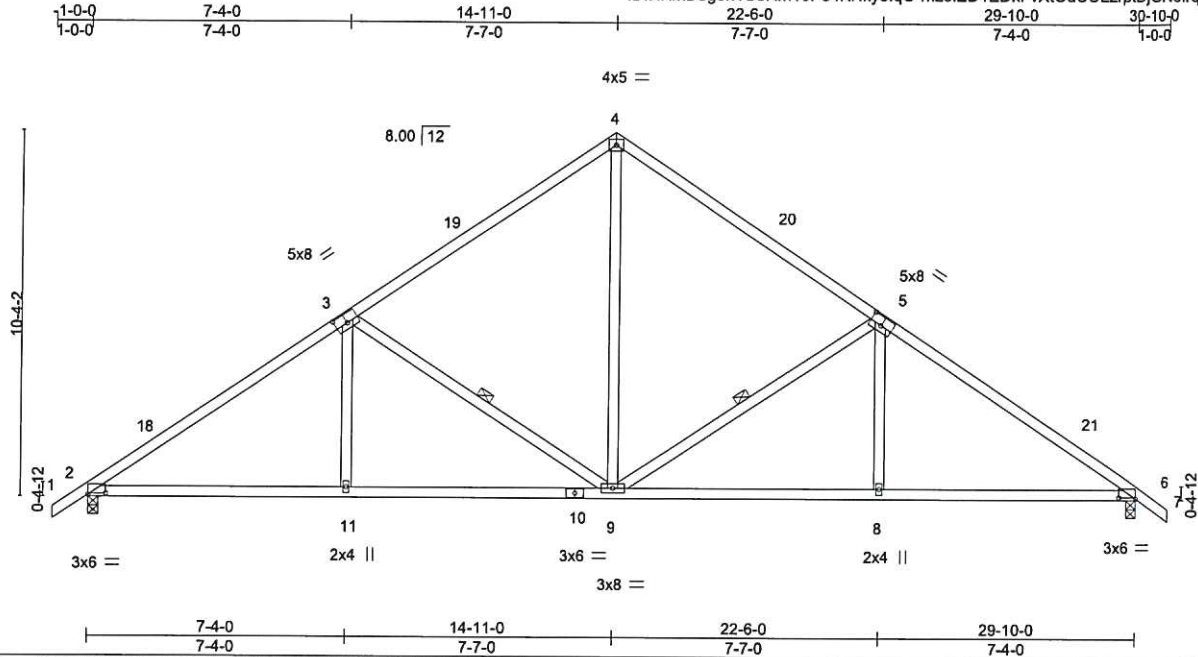
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712046
4496588	T09	Common	4	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:50 2025 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-mz9IEDkFvXI0uUULzrpIDjGNelrqX97O_8LzZo4d



Scale = 1:65.3

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

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	Vert(LL)	0.09	11-14	>999	240	MT20
TCDL 7.0	Plate Grip DOL 1.25	BC 0.59	Vert(CT)	-0.16	8-9	>999	180	244/190
BCLL 0.0 *	Lumber DOL 1.25	WB 0.38	Horz(CT)	0.06	6	n/a	n/a	
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TPI2014							
							Weight: 156 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 4-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.
WEBS 1 Row at midpt 5-9, 3-9

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-262(LC 10)
Max Uplift 2=-296(LC 12), 6=-296(LC 13)
Max Grav 2=1158(LC 1), 6=1158(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1660/394, 3-4=-1138/351, 4-5=-1138/351, 5-6=-1660/394
BOT CHORD 2-11=-384/1346, 9-11=-383/1349, 8-9=-213/1313, 6-8=-214/1310
WEBS 4-9=-198/747, 5-9=-609/332, 5-8=0/313, 3-9=-608/332, 3-11=0/313

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 14-11-0, Zone2 14-11-0 to 19-1-15, Zone1 19-1-15 to 30-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=296, 6=296.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

March 18,2025

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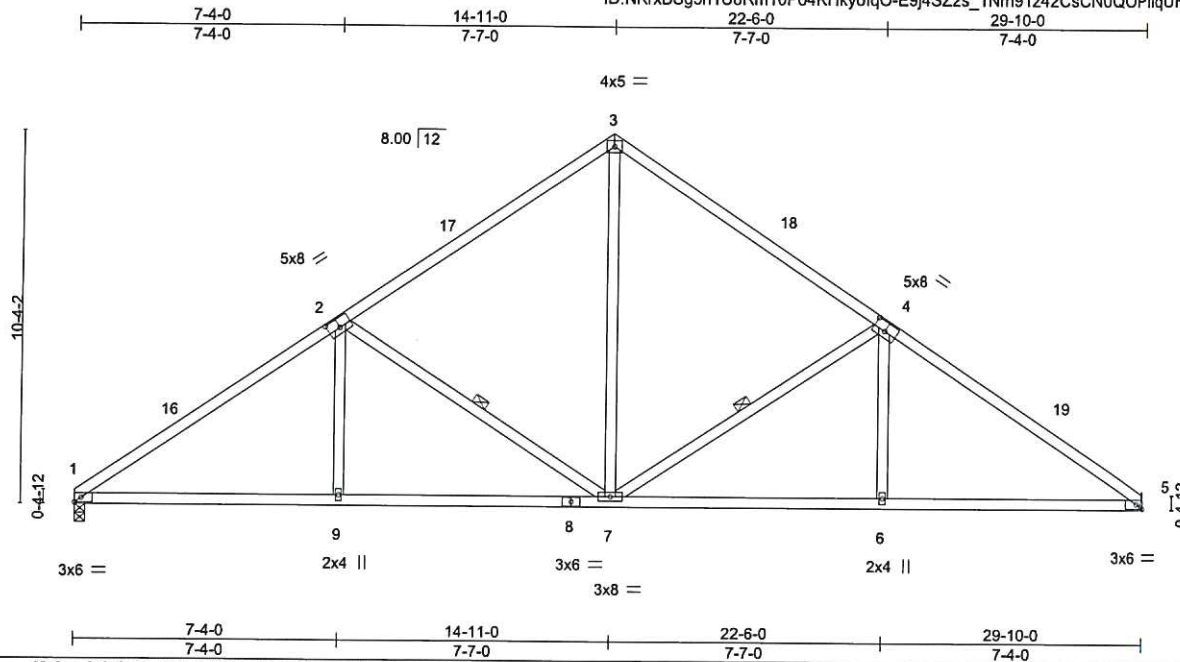
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712047
4496588	T10	COMMON	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:51 2025 Page 1

ID:NRxBSSg5n1U8Rm10Po4KHkyolqO-E9j4SZ2s_1Nm91z42CsCN0QOPfiqUH0gNn8YhozZo4c



Scale: 3/16"=1'

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.65	Vert(LL)	0.09	9-12	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25		BC 0.59	Vert(CT)	-0.16	7-9	>999	180		
BCLL 0.0 *	Lumber DOL 1.25		WB 0.39	Horz(CT)	0.06	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES		Matrix-MS							
	Code FBC2023/TP12014								Weight: 153 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-2 oc bracing.
WEBS 1 Row at midpt 4-7, 2-7

REACTIONS.

(size) 1=0-3-8, 5=Mechanical
Max Horz 1=246(LC 9)
Max Uplift 1=271(LC 12), 5=271(LC 13)
Max Grav 1=1104(LC 1), 5=1104(LC 1)

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

TOP CHORD 1-2=-1667/398, 2-3=-1141/353, 3-4=-1141/353, 4-5=-1667/398
BOT CHORD 1-9=-399/1344, 7-9=-398/1347, 6-7=-232/1320, 5-6=-233/1317
WEBS 3-7=-200/752, 4-7=-614/336, 4-6=0/313, 2-7=-613/335, 2-9=0/313

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 Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 14-11-0, Zone2 14-11-0 to 19-1-15, Zone1 19-1-15 to 29-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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=271, 5=271.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

March 18,2025

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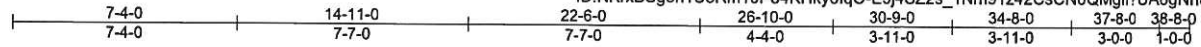
Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712048
4496588	T11	ROOF SPECIAL GIRDER	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:51 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-E9j4SZ2s_1Nm91z42CsCN0QMgfiUA8gNn8YhozZo4c

Job Reference (optional)



Scale = 1:75.1

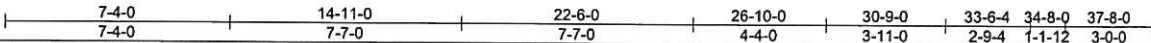
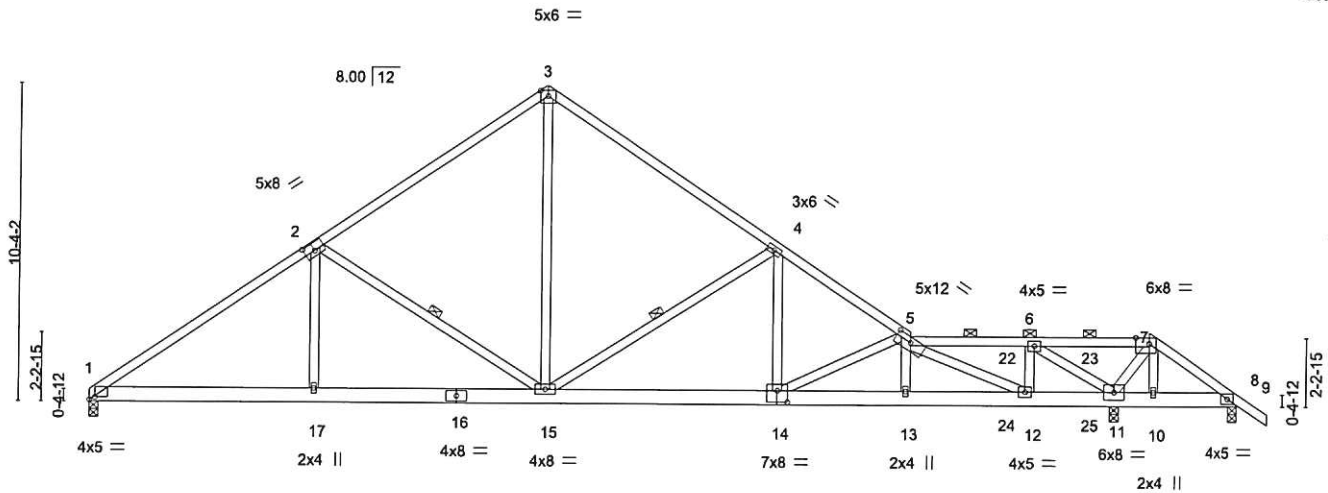


Plate Offsets (X,Y)-- [1:0-2-3,0-1-0], [2:0-4-0,0-3-0], [5:0-6-0,0-2-0], [7:0-5-4,Edge], [14:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	-0.12	14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.23	14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.89	Horz(CT)	0.05	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							
									Weight: 236 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-3-8 oc bracing: 10-11
5-8-1 oc bracing: 8-10.
WEBS 1 Row at midpt 2-15, 4-15

REACTIONS. (size) 1=0-3-8, 11=0-3-8 (req. 0-3-13), 8=0-3-8
Max Horz 1=-257(LC 4)
Max Uplift 1=-282(LC 8), 11=-1010(LC 9), 8=-949(LC 1)
Max Grav 1=1146(LC 1), 11=3238(LC 1), 8=211(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1765/427, 2-3=-1225/377, 3-4=-1220/372, 4-5=-1842/480, 5-6=-252/285,
6-7=-637/2441, 7-8=-492/2051
BOT CHORD 1-17=-408/1421, 15-17=-407/1425, 14-15=-262/1503, 13-14=-481/2109, 12-13=-482/2101,
11-12=-302/316, 10-11=-1688/474, 8-10=-1694/475
WEBS 2-17=0/329, 2-15=-625/338, 3-15=-221/837, 4-15=-711/368, 4-14=-63/458,
5-14=-666/245, 5-12=-2286/542, 6-12=-294/1385, 6-11=-3003/879, 7-11=-1465/504

- 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; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=282, 11=1010, 8=949.
 - 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) 94 lb down and 61 lb up at 29-10-12, 76 lb down and 54 lb up at 30-7-4, and 76 lb down and 54 lb up at 32-7-4, and 198 lb down and 164 lb up at 34-8-0 on top chord, and 403 lb down and 125 lb up at 29-10-12, 28 lb down and 12 lb up at 30-7-4, and 29 lb down and 12 lb up at 32-7-4, and 109 lb down and 53 lb up at 34-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Chesterfield, MO 63017
Date:

March 18,2025

LOAD CASE(S) Standard

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712048
4496588	T11	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 5-7=-54, 7-9=-54, 1-8=-20

Concentrated Loads (lb)

Vert: 7=-55(F) 12=-14(F) 6=-11(F) 10=-31(F) 22=-54(F) 23=-11(F) 24=-403(F) 25=-14(F)

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:52 2025 Page 1
ID:NKrxBSq5n1U8Rm10Po4KHkyolgQ-iLHSfv2UJLVdnBYHcyNRwEz783vDhVqrRt5DEfZ7o4h

FASTEN TRUSS TO BEARING FOR THE GRAVITY UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

		7-4-0		14-11-0		24-10-0		33-6-4		37-8-0	
Plate Offsets (X,Y)--		7-4-0		7-7-0		9-11-0		8-8-4		4-1-12	
		[2:0-4-0,0-3-0], [5:0-3-0,0-2-3], [7:0-3-0,0-2-3], [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 0.65		Vert(LL)	-0.37 12-13	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 1.00		Vert(CT)	-0.61 12-13	>661	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.63		Horz(CT)	0.06 10	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 207 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 3-10-6 oc purlins, except 2-0-0 oc purlins (4-5-3 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 2-13, 4-13, 6-10

REACTIONS. (size) 1=0-3-8, 10=0-3-8, 8=0-3-8
 Max Horz 1=-257(LC 8)
 Max Uplift 1=-271(LC 12), 10=-647(LC 13), 8=-1035(LC 19)
 Max Grav 1=1255(LC 19), 10=2858(LC 2), 8=170(LC 12)

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

TOP CHORD 1-2=-1816/399, 2-3=-1258/361, 3-4=-1234/362, 4-5=-2024/560, 5-6=-1698/416,
6-7=-205/1377, 7-8=-440/2104

BOT CHORD 1-15=-389/1642, 13-15=-388/1647, 12-13=-174/1266, 10-12=-97/427, 8-10=-1712/450

WEBS 2-15=0/296, 2-13=-703/338, 3-13=-262/1011, 4-13=-505/302, 4-12=-235/744,
5-12=-1264/442, 6-12=-262/1657, 6-10=-2156/505, 7-10=-1377/382

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0 to 3-9-3, Zone1 3-9-3 to 14-11-0, Zone2 14-11-0 to 20-0-0, Zone1 20-0-0 to 32-8-0, Zone2 32-8-0 to 37-11-15, Zone1 37-11-15 to 38-8-0 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=ib) 1=271, 10=647, 8=1035.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

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

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

March 18, 2025



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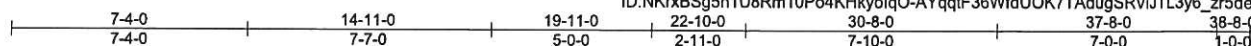
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712050
4496588	T13	ROOF SPECIAL	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:53 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-AYqqtF36WfdUOK7TAdugSRVjTL3y6_zr5delgzZo4a



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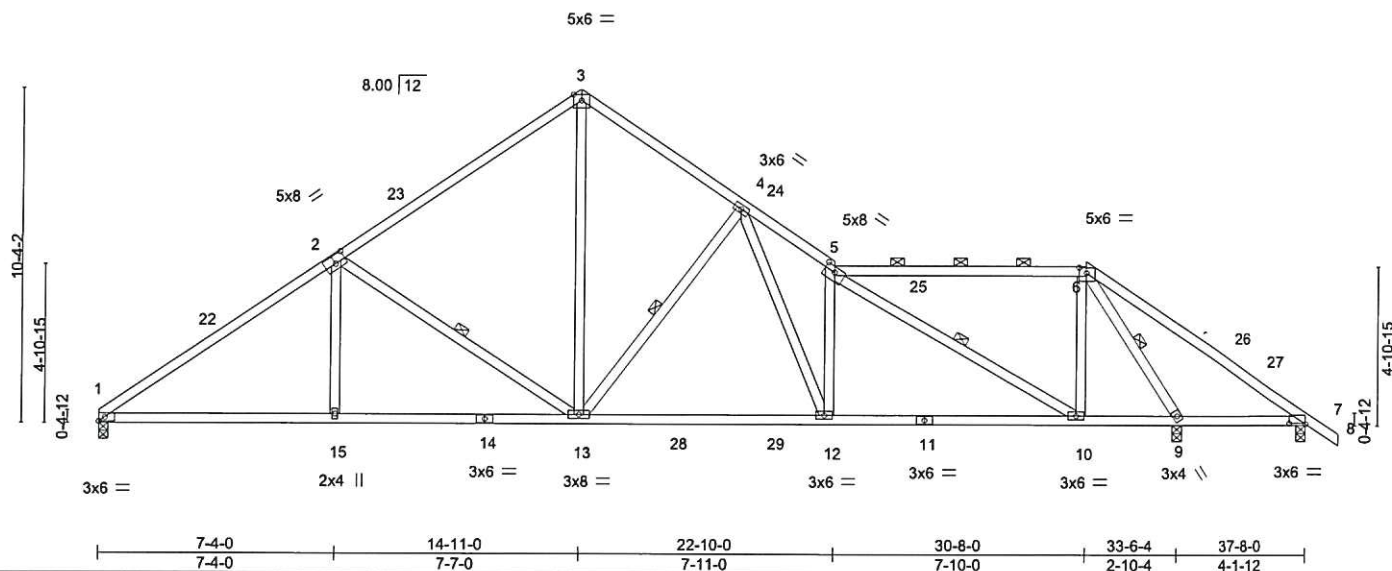


Plate Offsets (X, Y) - [2:0-4-0,0-3-0], [5:0-4-0,0-2-0], [6:0-2-12,0-2-0], [7:0-6-0,0-0-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.81	Vert(LL)	-0.21 12-13	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.80	Vert(CT)	-0.35 12-13	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.74	Horz(CT)	0.08 9	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TPI2014						Weight: 214 lb	FT = 20%

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

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

REACTIONS. (size) 1=0-3-8, 9=0-3-8, 7=0-3-8
Max Horz 1=-257(LC 8)
Max Uplift 1=-283(LC 12), 9=-484(LC 13), 7=-387(LC 19)
Max Grav 1=1330(LC 19), 9=2133(LC 2), 7=101(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1955/420, 2-3=-1375/395, 3-4=-1352/383, 4-5=-2299/637, 5-6=-425/216, 6-7=-177/1077
BOT CHORD 1-15=-406/1757, 13-15=-405/1762, 12-13=-203/1500, 10-12=-293/1884, 9-10=-22/392, 7-9=-816/244
WEBS 2-15=0/311, 2-13=-717/336, 3-13=-292/1142, 4-13=-695/332, 5-12=-676/345, 5-10=-1716/323, 6-10=-112/1062, 6-9=-2261/482, 4-12=-322/1040

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 Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 14-11-0, Zone2 14-11-0 to 20-2-15, Zone1 20-2-15 to 30-8-0, Zone2 30-8-0 to 35-11-15, Zone1 35-11-15 to 38-8-0 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.
- 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=283, 9=484, 7=387.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 18,2025

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

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

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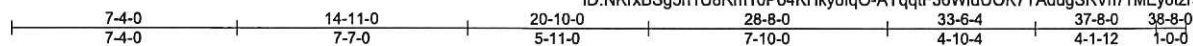
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712051
4496588	T14	ROOF SPECIAL	1	1	Job Reference (optional)	

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

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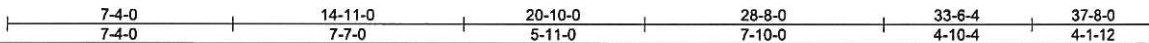
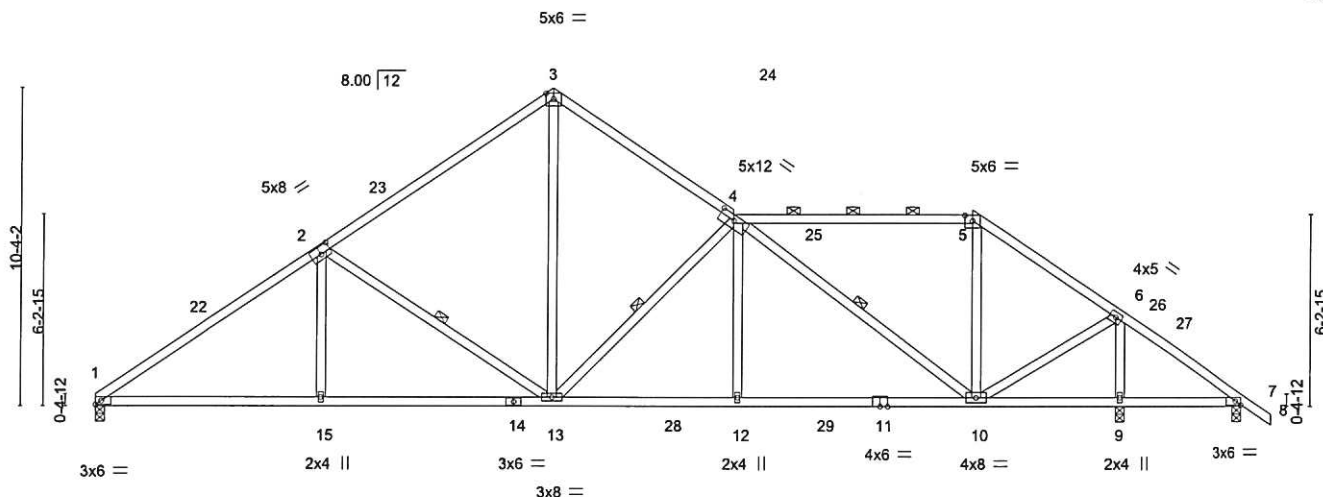


Plate Offsets (X,Y)=[2:0-4-0,0-3-0], [4:0-6-0,0-2-0], [5:0-3-0,0-2-3], [7:0-2-3,Edge]

LOADING (psf)	SPACING-		CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.89		Vert(LL)	-0.16	10-12	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.73		Vert(CT)	-0.30	10-12	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62		Horz(CT)	0.07	9	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							
									Weight: 213 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 3-8-5 oc purlins, except 2-0-0 oc purlins (3-1-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-13, 4-13, 4-10

REACTIONS. (size) 1=0-3-8, 9=0-3-8, 7=0-3-8
Max Horz 1=-257(LC 8)
Max Uplift 1=-283(LC 12), 9=-482(LC 13), 7=-348(LC 19)
Max Grav 1=1341(LC 19), 9=2083(LC 2), 7=72(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1995/418, 2-3=-1386/394, 3-4=-1394/381, 4-5=-686/280, 5-6=-879/272, 6-7=-160/882
BOT CHORD 1-15=-405/1776, 13-15=-404/1782, 12-13=-222/1695, 10-12=-221/1703, 9-10=-665/182, 7-9=-665/182
WEBS 2-15=0/321, 2-13=-729/334, 3-13=-272/1158, 4-13=-848/340, 4-12=0/373, 4-10=-1271/253, 6-10=-246/1584, 6-9=-1916/487

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 Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 14-11-0, Zone2 14-11-0 to 20-2-15, Zone1 20-2-15 to 28-8-0, Zone2 28-8-0 to 33-11-15, Zone1 33-11-15 to 38-8-0 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) 1=283, 9=482, 7=348.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 18,2025

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712052
4496588	T15	Roof Special	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:54 2025 Page 1
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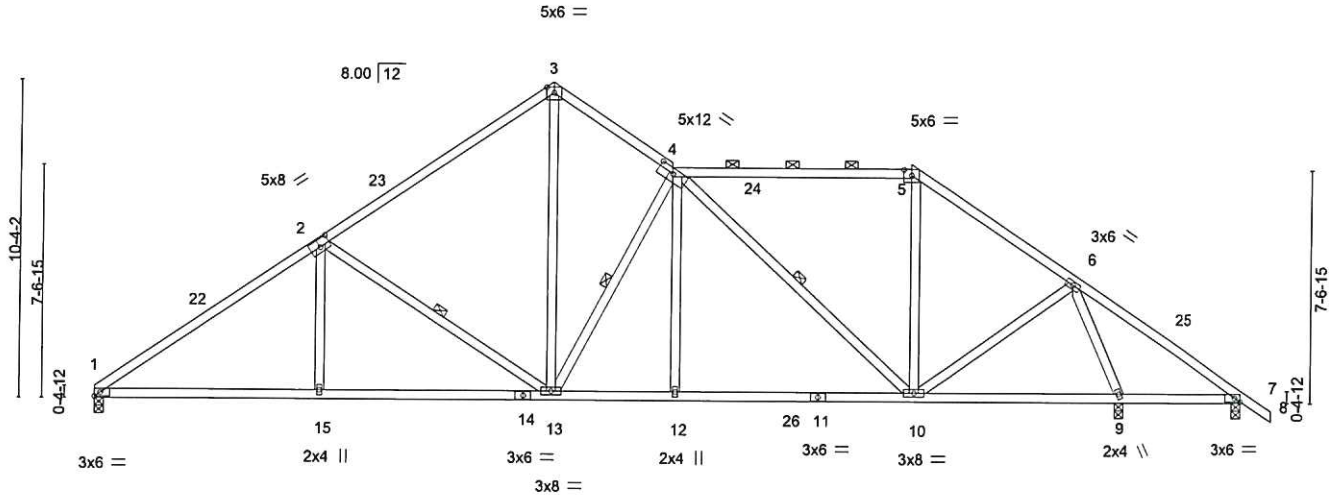


Plate Offsets (X,Y)--	[2:0-4-0,0-3-0], [4:0-6-0,0-2-0], [5:0-3-0,0-2-3], [7:0-2-3,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.97	Vert(LL)	-0.17 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.31 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.07 9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 221 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 3-8-4 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-13, 4-13, 4-10

REACTIONS. (size) 1=0-3-8, 9=0-3-8, 7=0-3-8
Max Horz 1=-257(LC 8)
Max Uplift 1=-286(LC 12), 9=-446(LC 13), 7=-294(LC 19)
Max Grav 1=1345(LC 19), 9=2000(LC 2), 7=51(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2005/424, 2-3=-1391/402, 3-4=-1368/401, 4-5=-863/346, 5-6=-1102/350, 6-7=-138/818
BOT CHORD 1-15=-409/1783, 13-15=-409/1789, 12-13=-192/1503, 10-12=-191/1508, 7-9=-598/179
WEBS 2-15=0/328, 2-13=-734/334, 3-13=-335/1216, 4-13=-804/337, 4-12=0/305, 4-10=-863/198, 5-10=-30/305, 6-10=-140/953, 6-9=-1905/483

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 Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 14-11-0, Zone3 14-11-0 to 18-10-0, Zone1 18-10-0 to 26-8-0, Zone2 26-8-0 to 31-11-13, Zone1 31-11-13 to 38-8-0 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=286, 9=446, 7=294.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 18,2025

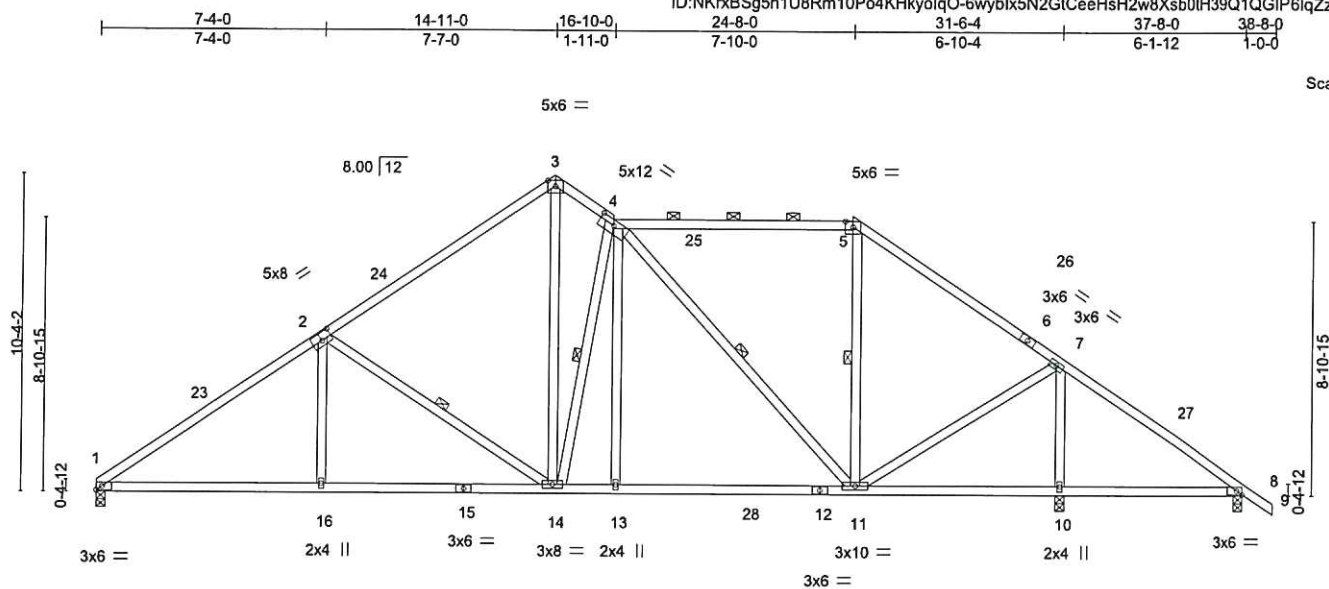
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:55 2025 Page 1
ID: NKRxBsQ5n1U8Rm10Pc4KHvQlQ-6wvblx5N2GlcEeHsH2w8Xsh0IH39Q1QGIP6lpZzZn4Y



		7-4-0		14-11-0		16-10-0		24-8-0		31-6-4		37-8-0	
		7-4-0		7-7-0		1-11-0		7-10-0		6-10-4		6-1-12	
Plate Offsets (X,Y)--		[2:0-4-0,0-3-0],		[4:0-6-0,0-2-0],		[5:0-3-0,0-2-3],		[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 0.87		Vert(LL) -0.17 11-13 >999 240				MT20		244/190	
TCDL	7.0	Lumber DOL 1.25		BC 0.70		Vert(CT) -0.29 11-13 >999 180							
BCLL	0.0 *	Rep Stress Incr YES		WB 0.68		Horz(CT) 0.05 10 n/a n/a							
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 230 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 3-9-13 oc purlins, except 2-0-0 oc purlins (3-5-6 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 2-14, 4-14, 4-11, 5-11

REACTIONS. (size) 1=0-3-8, 10=0-3-8, 8=0-3-8
 Max Horz 1=257(LC 8)
 Max Uplift 1=271(LC 12), 10=427(LC 13), 8=116(LC 10)
 Max Grav 1=127(LC 19), 10=1834(LC 2), 8=122(LC 26)

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

TOP CHORD 1-2=-1873/398, 2-3=-1258/364, 3-4=-1209/395, 4-5=-682/316, 5-7=-908/296,
7-8=-87/492

BOT CHORD 1-16=-388/1674, 14-16=-387/1680, 13-14=-189/1189, 11-13=-188/1193, 10-11=-314/125,
8-10=-314/125

WEBS 2-16=0/325, 2-14=-731/333, 3-14=-351/1128, 4-14=-720/313, 4-11=-711/178,
7-11=-165/1210, 7-10=-1585/446, 4-13=0/301

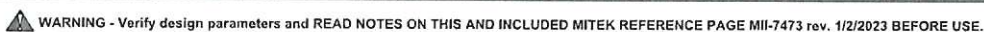
NOTES-

- 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; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Incl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 14-11-0, Zone3 14-11-0 to 16-10-0, Zone1 16-10-0 to 24-8-0, Zone2 24-8-0 to 29-11-15, Zone1 29-11-15 to 38-8-0 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) 1=271, 10=427, 8=116.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 18, 2025



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314.434.1200 / MITek-US.com

Job 4496588	Truss T17	Truss Type HIP	Qty 1	Ply 1	NORMAN - ALMONTE	T36712054
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:55 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkylqO-6wyblx5N2GtCeeHsH2w8Xsb3_H2fQ0AGIP6lqZzZo4Y

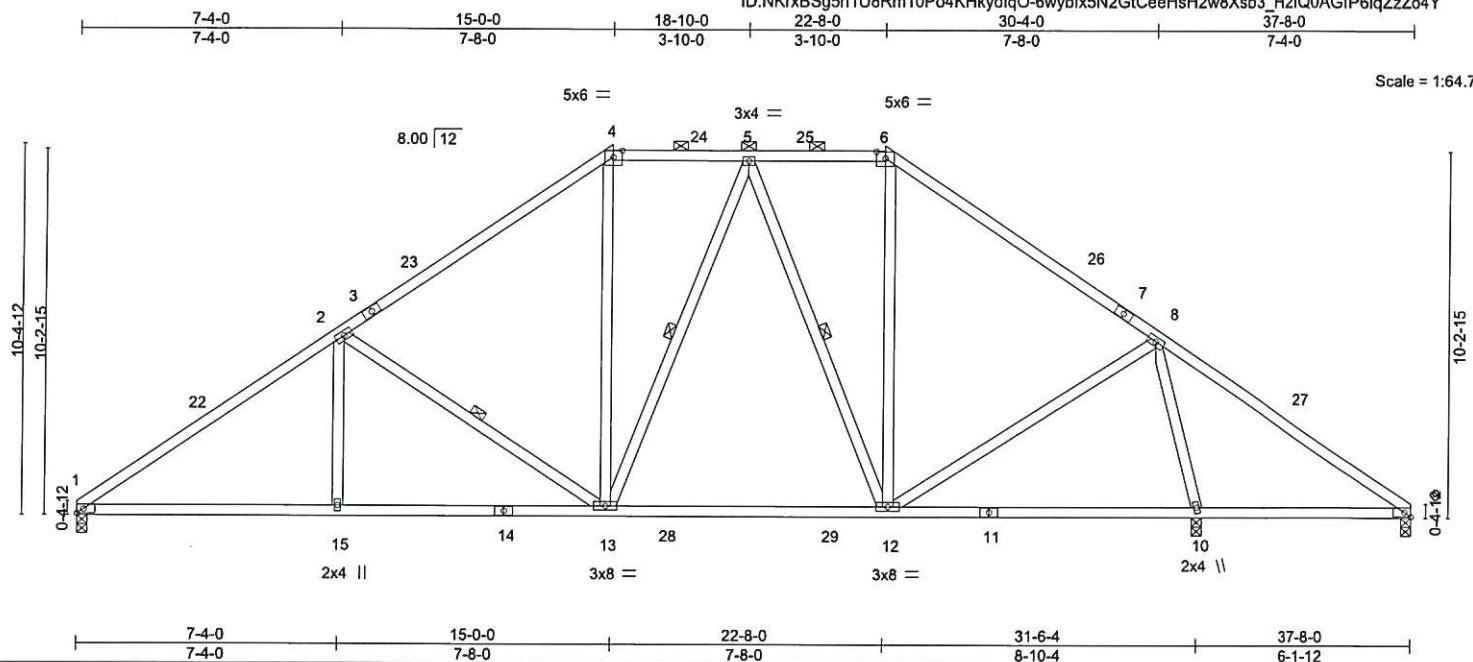


Plate Offsets (X,Y) - [4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [9:0-2-3,Edge]		7-4-0 7-4-0		15-0-0 7-8-0		22-8-0 7-8-0		31-6-4 8-10-4		37-8-0 6-1-12	
LOADING (psf)		SPACING - 2-0-0		CSI		DEFL. in (loc)		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.68		Vert(LL) -0.17 12-13 >999 240		MT20		244/190	
TCDL 7.0		Lumber DOL 1.25		BC 0.73		Vert(CT) -0.25 12-13 >999 180					
BCLL 0.0 *		Rep Stress Incr YES		WB 0.76		Horz(CT) -0.04 1 n/a n/a					
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS				Weight: 222 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 3-9-8 oc purlins, except 2-0-0 oc purlins (5-9-3 max.); 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 2-13, 5-12, 5-13

REACTIONS. (size) 1=0-3-8, 10=0-3-8, 9=0-3-8
Max Horz 9=-245(LC 10)
Max Uplift 1=-317(LC 12), 10=-399(LC 13), 9=-67(LC 9)
Max Grav 1=1265(LC 19), 10=1743(LC 2), 9=132(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1838/479, 2-4=-1309/398, 4-5=-1001/403, 5-6=-780/311, 6-8=-1043/319, 8-9=-84/395
BOT CHORD 1-15=-298/1488, 13-15=-298/1488, 12-13=-138/921, 10-12=-184/269, 9-10=-303/172
WEBS 2-15=0/311, 2-13=-702/331, 4-13=-83/427, 5-12=-452/184, 6-12=-89/331, 8-12=-70/760, 8-10=-1477/428, 5-13=-107/326

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 Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 15-0-0, Zone2 15-0-0 to 20-3-15, Zone1 20-3-15 to 22-8-0, Zone2 22-8-0 to 27-11-15, Zone1 27-11-15 to 37-8-0 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.
- All plates are 3x6 MT20 unless otherwise indicated.
- 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) 9 except (jt=lb) 1=317, 10=399.
- 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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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

March 18,2025

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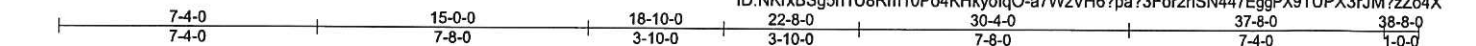
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712055
4496588	T18	Piggyback Base	1	1		

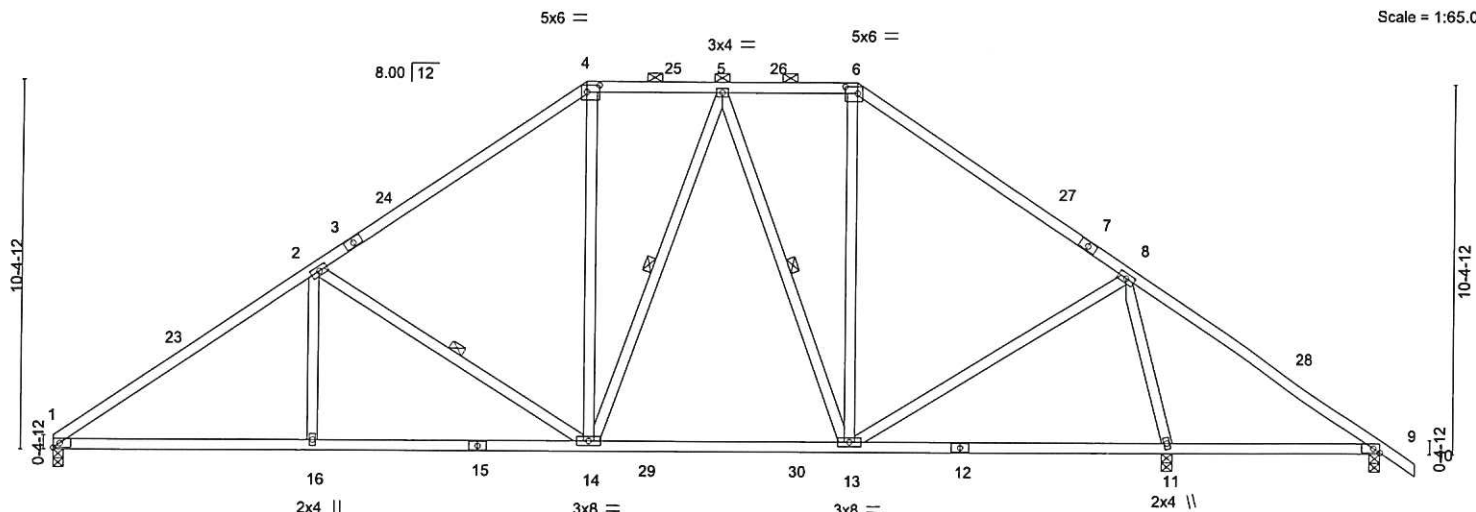
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:56 2025 Page 1

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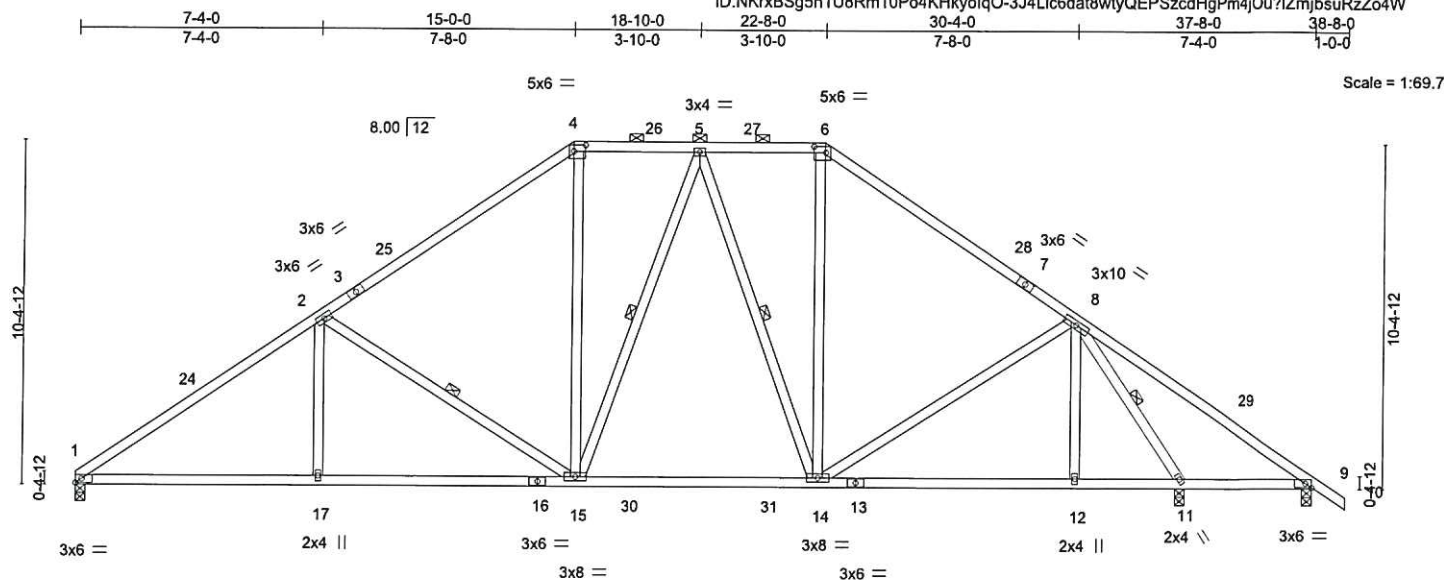


Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712056
4496588	T19	Piggyback Base	5	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:57 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolQO-3J4Lic6dat8wlyQEPSzcdHgPm4jOu?lZmjbsuRzZo4W



		7-4-0		15-0-0		22-8-0		30-4-0		33-6-4		37-8-0	
		7-4-0		7-8-0		7-8-0		7-8-0		3-2-4		4-1-12	
Plate Offsets (X,Y)--		[4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [9:0-2-3,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 0.66		Vert(LL) -0.14 14-15		>999 240		MT20		244/190	
TCDL	7.0	Lumber DOL 1.25		BC 0.71		Vert(CT) -0.22 14-15		>999 180					
BCLL	0.0 *	Rep Stress Incr YES		WB 0.43		Horz(CT) 0.07 11		n/a n/a					
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 232 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 3-7-6 oc purlins, except 2-0-0 oc purlins (5-4-13 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-15, 5-15, 5-14, 8-11

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz 1=259(LC 8)
Max Uplift 1=323(LC 12), 11=340(LC 13), 9=80(LC 8)
Max Grav 1=1346(LC 19), 11=1692(LC 2), 9=134(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=2015/488, 2-4=1462/404, 4-5=1134/409, 5-6=1004/375, 6-8=1306/362, 8-9=61/384
BOT CHORD 1-17=463/1780, 15-17=463/1780, 14-15=175/1093, 12-14=99/773, 11-12=99/773
WEBS 2-17=0/320, 2-15=727/337, 4-15=108/506, 5-15=104/251, 5-14=365/194, 6-14=98/450, 8-14=147/344, 8-11=1803/348

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 Zone3 0-0-0 to 3-9-3, Zone1 3-9-3 to 15-0-0, Zone2 15-0-0 to 20-3-15, Zone1 20-3-15 to 22-8-0, Zone2 22-8-0 to 27-11-15, Zone1 27-11-15 to 38-8-0 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) 9 except (jt=lb) 1=323, 11=340.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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Chesterfield, MO 63017
Date:

March 18,2025

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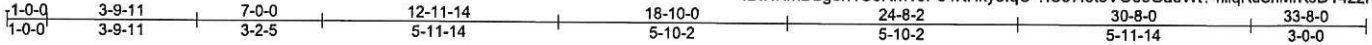
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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712057
4496588	T20	Hip Girder	1	2	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:59 2025 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-?iC57I8t5VOe6GadWl?4iilqRuShMrKsD14zzKzZo4U



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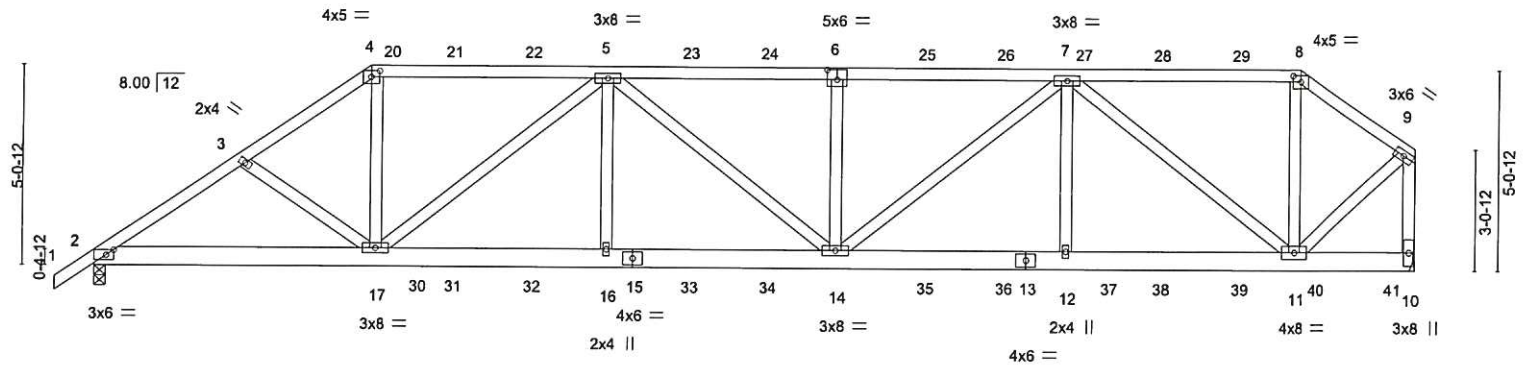


Plate Offsets (X,Y) -	7-0-0 7-0-0	12-11-14 5-11-14	18-10-0 5-10-2	24-8-2 5-10-2	30-8-0 5-11-14	33-8-0 3-0-0
	[2:0-2-5,Edge], [4:0-2-8,0-1-13], [6:0-3-0,0-3-0], [8:0-2-8,0-1-13]					

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 0.33	Vert(LL)	0.17 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.25 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 446 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 5-5-15 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3			

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=161(LC 29)
Max Uplift 2=-1161(LC 8), 10=-1360(LC 9)
Max Grav 2=2590(LC 1), 10=2918(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4327/1991, 3-4=-4175/1962, 4-5=-3499/1694, 5-6=-5002/2329, 6-7=-5002/2329, 7-8=-1702/836, 8-9=-2053/949, 9-10=-2712/1241
BOT CHORD 2-17=-1729/3554, 16-17=-2300/4891, 14-16=-2300/4891, 12-14=-1847/3974, 11-12=-1847/3974
WEBS 4-17=-820/1928, 5-17=-1822/890, 5-16=-226/658, 6-14=-343/230, 7-14=-644/1325, 7-12=-200/646, 7-11=-2922/1378, 8-11=-409/908, 9-11=-1027/2252

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: 2x6 - 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; 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.
- 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) 2=1161, 10=1360.

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

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Chesterfield, MO 63017
Date:

March 18,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712057
4496588	T20	Hip Girder	1	2	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:47:59 2025 Page 2
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-?IC57l8t5VOe6GadWt?4iilqRuShMrKsD14zzKzZo4U

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 146 lb up at 7-0-0, 72 lb down and 53 lb up at 7-5-12, 72 lb down and 53 lb up at 9-0-12, 72 lb down and 53 lb up at 11-0-12, 72 lb down and 53 lb up at 13-0-12, 72 lb down and 53 lb up at 15-0-12, 72 lb down and 53 lb up at 17-0-12, 72 lb down and 51 lb up at 19-0-12, 72 lb down and 53 lb up at 21-0-12, 72 lb down and 53 lb up at 23-0-12, 72 lb down and 53 lb up at 25-0-12, and 72 lb down and 53 lb up at 27-0-12, and 72 lb down and 53 lb up at 29-0-12 on top chord, and 260 lb down and 154 lb up at 7-0-0, 162 lb down and 94 lb up at 7-5-12, 162 lb down and 94 lb up at 9-0-12, 162 lb down and 94 lb up at 11-0-12, 162 lb down and 94 lb up at 13-0-12, 162 lb down and 94 lb up at 15-0-12, 162 lb down and 94 lb up at 17-0-12, 162 lb down and 94 lb up at 19-0-12, 162 lb down and 94 lb up at 21-0-12, 162 lb down and 94 lb up at 23-0-12, 162 lb down and 94 lb up at 25-0-12, 162 lb down and 94 lb up at 27-0-12, 162 lb down and 94 lb up at 29-0-12, and 230 lb down and 161 lb up at 31-0-12, and 235 lb down and 156 lb up at 33-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-9=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-103(B) 17=-260(B) 5=-17(B) 16=-162(B) 6=-17(B) 14=-162(B) 20=-17(B) 21=-17(B) 22=-17(B) 23=-17(B) 24=-17(B) 25=-17(B) 26=-17(B) 27=-17(B) 28=-17(B) 29=-17(B) 30=-162(B) 31=-162(B) 32=-162(B) 33=-162(B) 34=-162(B) 35=-162(B) 36=-162(B) 37=-162(B) 38=-162(B) 39=-162(B) 40=-230(B) 41=-235(B)

 **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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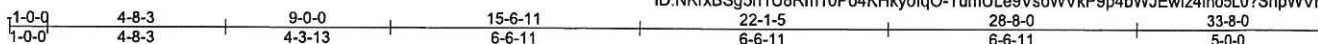
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712058
4496588	T21	Hip	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:00 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-TumULe9VsoWVkp9p4bWJEwlz4lho5L0?ShpWVmzZo4T



Scale = 1:60.4

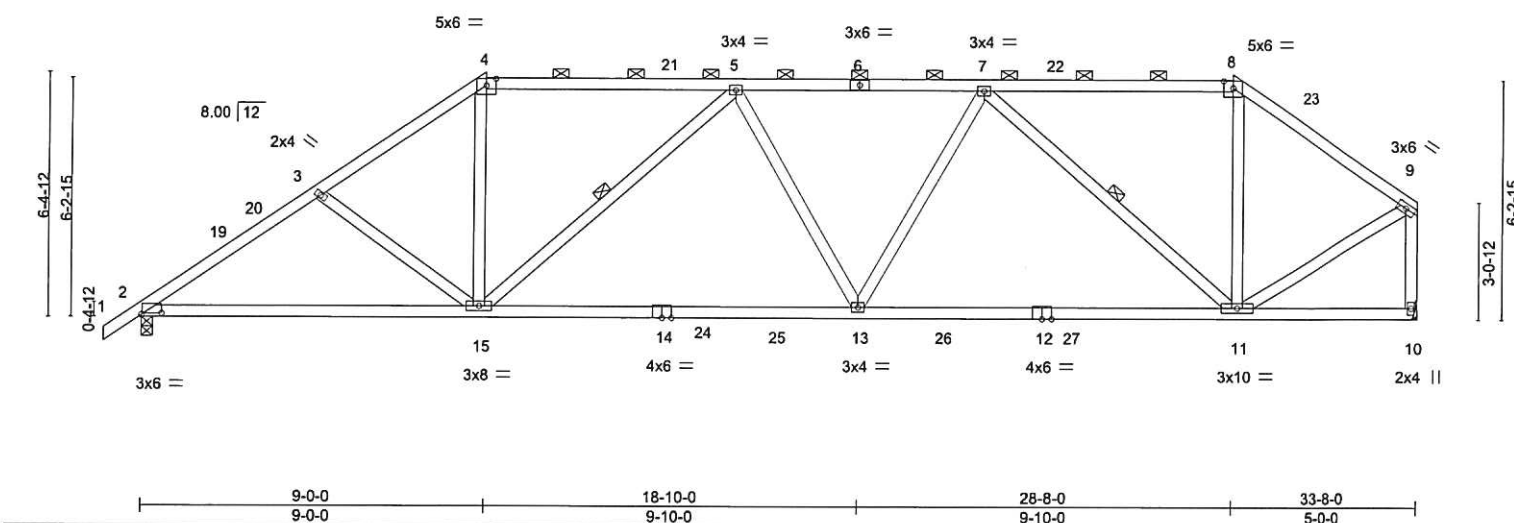


Plate Offsets (X,Y)– [2:0-6-4,0-0-8], [4:0-3-0,0-2-3], [8:0-3-0,0-2-3]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.46		Vert(LL) -0.26 13-15	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.99		Vert(CT) -0.45 11-13	>893	180		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.46		Horz(CT) 0.08 10	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS					Weight: 188 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-3 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-15, 7-11

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=181(LC 12)
Max Uplift 2=-366(LC 12), 10=-313(LC 13)
Max Grav 2=1413(LC 2), 10=1380(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2092/545, 3-4=-1940/501, 4-5=-1562/461, 5-7=-1994/473, 7-8=-994/296,
8-9=-1251/290, 9-10=-1349/317
BOT CHORD 2-15=-543/1719, 13-15=-532/1968, 11-13=-470/1779
WEBS 3-15=-254/183, 4-15=-117/814, 5-15=-601/283, 7-13=-89/472, 7-11=-1073/362,
8-11=-65/455, 9-11=-243/1156

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 Zone3 -1-0-0 to 2-4-6, Zone1 2-4-6 to 9-0-0, Zone2 9-0-0 to 13-9-2, Zone1 13-9-2 to 28-8-0, Zone3 28-8-0 to 33-6-4 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.
- 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) 2=366, 10=313.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

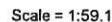
March 18,2025

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

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

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T36712059

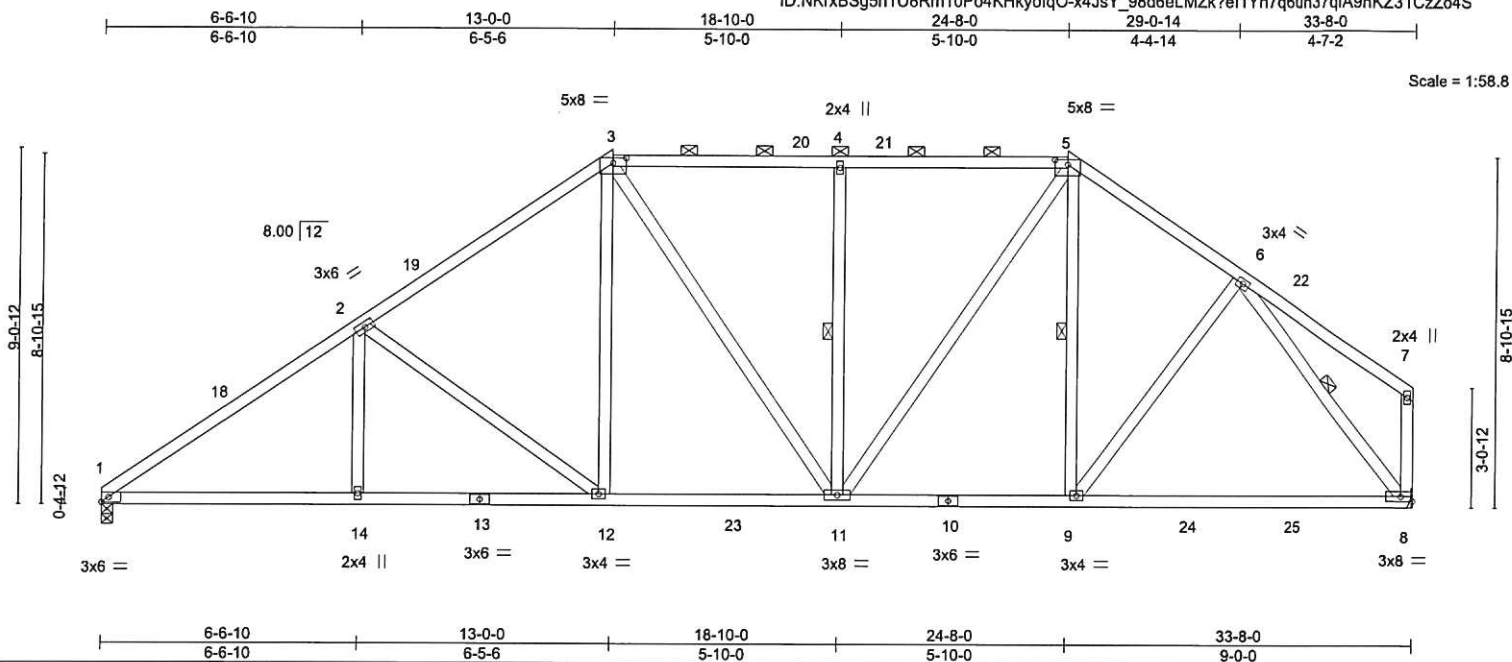
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.tpiinst.org) and *BCSI Building Component Safety Information* available from the Structural Building Components Association (www.sbcsccomponents.com).

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712060
4496588	T23	Hip	1	1		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:01 2025 Page 1
ID: NKrBSg5n1U8Rm10Po4KHkyolQO-x4JsY_98d6eLMZk?el1Yn7q6uh37qlA9hKZ31CzZo4S



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	Vert(LL)	-0.24	8-9	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.85	Vert(CT)	-0.41	8-9	>988		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.66	Horz(CT)	0.07	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TPI2014						Weight: 216 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 3-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-14 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 7-10-7 oc bracing.
WEBS 1 Row at midpt 4-11, 5-9, 6-8

REACTIONS. (size) 1=0-3-8, 8=Mechanical
Max Horz 1=205(LC 9)
Max Uplift 1=-331(LC 12), 8=-304(LC 13)
Max Grav 1=1372(LC 2), 8=1413(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2116/509, 2-3=-1661/448, 3-4=-1375/399, 4-5=-1375/399, 5-6=-1369/368
BOT CHORD 1-14=-534/1753, 12-14=-534/1753, 11-12=-305/1308, 9-11=-162/1099, 8-9=-184/914
WEBS 2-14=0/265, 2-12=-590/279, 3-12=-118/596, 4-11=-379/213, 5-11=-212/538, 6-9=-113/367, 6-8=-1415/298

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 Zone3 0-0-0 to 3-4-6, Zone1 3-4-6 to 13-0-0, Zone2 13-0-0 to 17-9-2, Zone1 17-9-2 to 24-8-0, Zone2 24-8-0 to 29-1-15, Zone1 29-1-15 to 33-6-4 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.
- 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=331, 8=304.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 18,2025

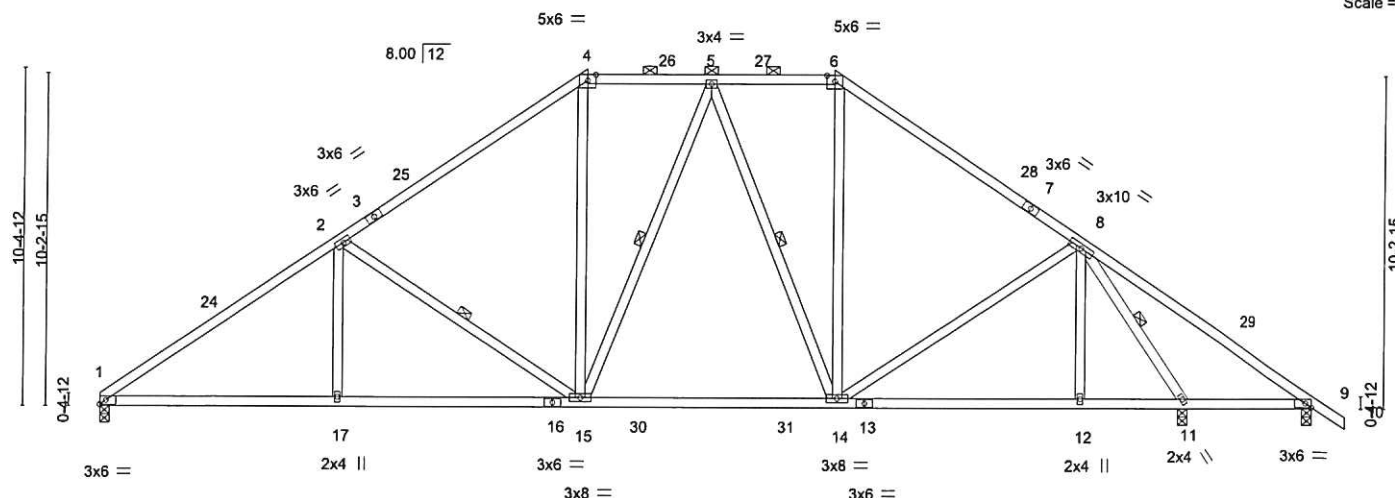
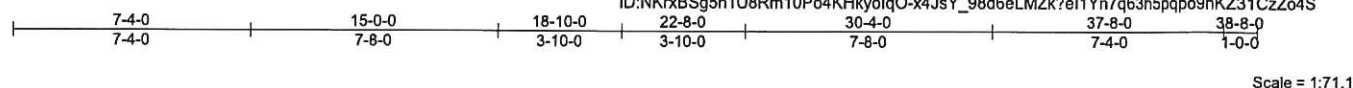
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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	0-3-8	7-4-0	15-0-0	22-8-0	30-4-0	33-6-4	37-4-8	37-8-0
	0-3-8	7-0-8	7-8-0	7-8-0	7-8-0	3-2-4	3-10-4	0-3-8
Plate Offsets (X,Y)--	[4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [9:0-2-3,Edge]							
LOADING (psf)	SPACING- 2-0-0		CSI.	DEFL.	in (loc)	l/def	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.64	Vert(LL)	-0.18 14-15	>999	240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.75	Vert(CT)	-0.28 14-15	>999	180	
BCLL 0.0 *	Rep Stress Incr YES		WB 0.43	Horz(CT)	0.07 11	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 3-7-0 oc purlins, except 2-0-0 oc purlins (5-4-8 max.); 4-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 2-15. 5-15. 5-14. 8-11

REACTIONS. (size) 1=0-3-8, 9=0-3-8, 11=0-3-8
 Max Horz 1=-256(LC 8)
 Max Uplift 1=-324(LC 12), 9=-83(LC 13), 11=-333(LC 13)
 Max Grav 1=1349(LC 19), 9=138(LC 26), 11=1692(LC 2)

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

TOP CHORD 1-2=-2015/491, 2-4=-1489/411, 4-5=-1150/414, 5-6=-1008/378, 6-8=-1317/367,
8-9=-60/379

BOT CHORD 1-17=-462/1778, 15-17=-462/1778, 14-15=-177/1110, 12-14=-104/770, 11-12=-104/770

WEBS 2-17=0/309, 2-15=-697/331, 4-15=-110/524, 5-14=-380/196, 6-14=-99/457,
8-14=-146/367, 8-11=-1790/341

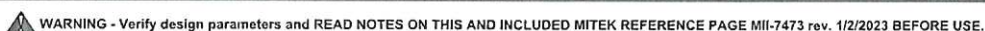
NOTES-

- 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; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0 to 3-9-3, Zone1 3-9-3 to 15-0-0, Zone2 15-0-0 to 20-3-15, Zone1 20-3-15 to 22-8-0, Zone2 22-8-0 to 27-11-15, Zone1 27-11-15 to 38-8-0 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) 9 except (jt=lb) 1=324, 11=333.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

March 18, 2025



WARNING: Verify design parameters SHOWN NOTES ON THIS AND INCLUDED REFERENCE PAGE 161-173/223 BEFORE USE.

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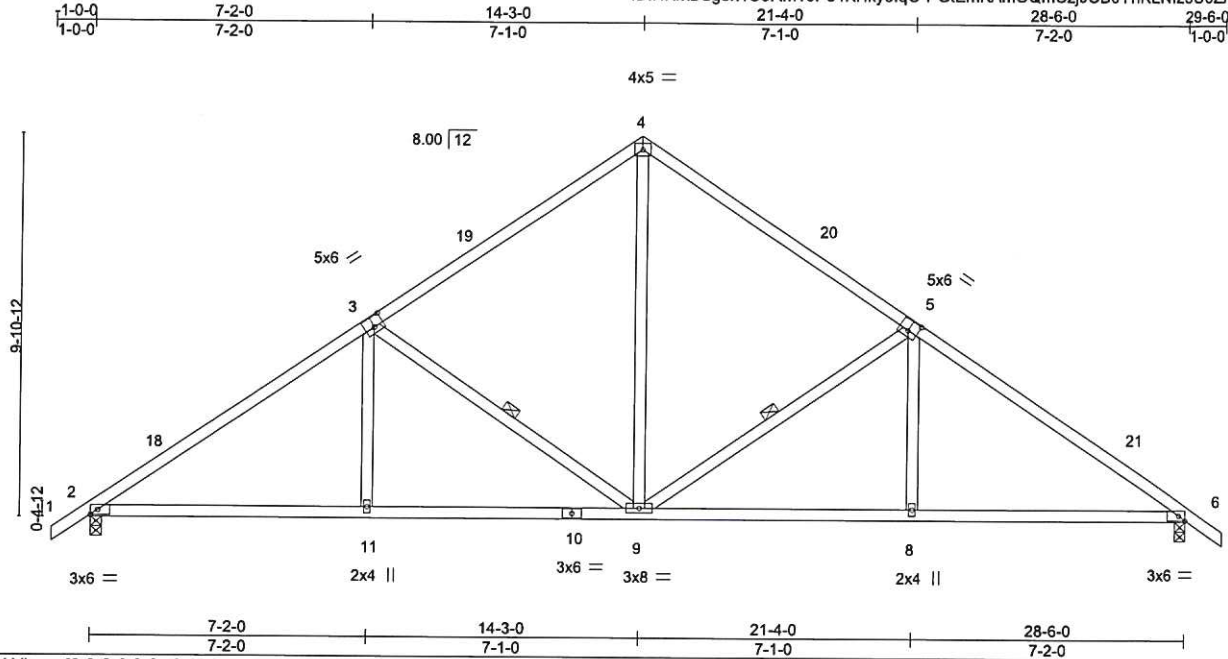
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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712062
4496588	T25	COMMON	4	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:02 2025 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-PGTEmKAmOQmCzjJCB0YnKLNi25U0ZAvlv_IdZfzZo4R



Scale = 1:59.7

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [6:0-2-3,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 0.56	Vert(LL)	0.11 11-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.15 11-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.05 6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 149 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 4-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-1-5 oc bracing.
WEBS 1 Row at midpt 5-9, 3-9

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-251(LC 10)
Max Uplift 2=-284(LC 12), 6=-284(LC 13)
Max Grav 2=1109(LC 1), 6=1109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1571/710, 3-4=-1080/558, 4-5=-1080/558, 5-6=-1571/710
BOT CHORD 2-11=-489/1233, 9-11=-487/1231, 8-9=-496/1231, 6-8=-498/1233
WEBS 4-9=-467/733, 5-9=-536/332, 5-8=-120/301, 3-9=-536/332, 3-11=-120/301

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 14-3-0, Zone2 14-3-0 to 18-5-15, Zone1 18-5-15 to 29-6-0 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=284, 6=284.

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

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

March 18,2025

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

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

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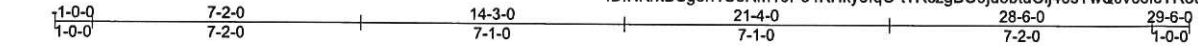
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712063
4496588	T25G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:03 2025 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-ITRczgBO9ju3btuOlj40sYwQcVoolcYR8e2A65zZo4Q



Scale = 1:61.5

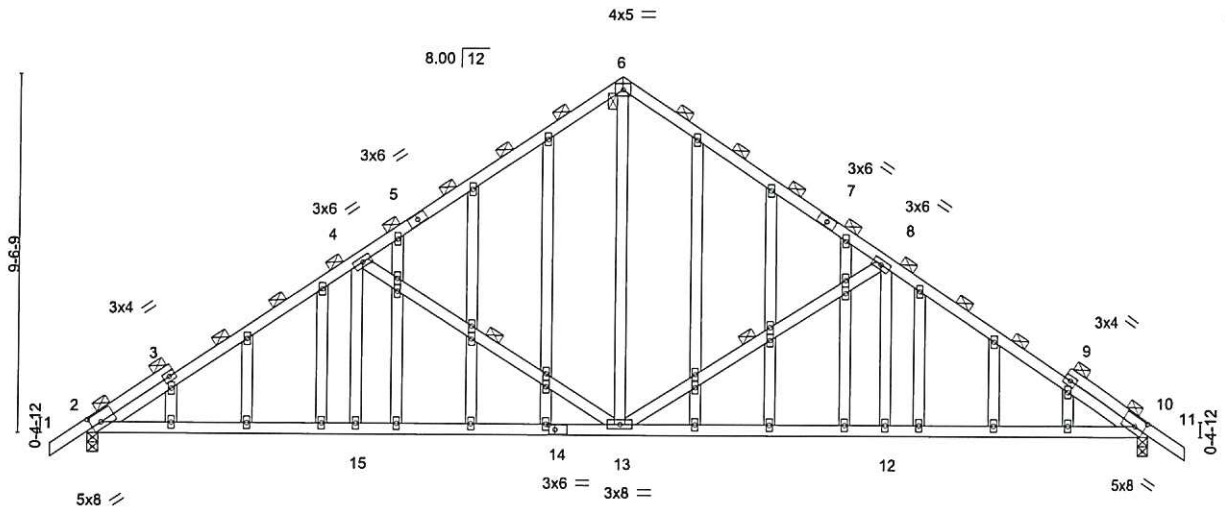


Plate Offsets (X,Y)=-	[2:0-3-5,0-3-0], [10:0-3-5,0-3-0], [14:0-2-0,0-1-8]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	0.12 12-51	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.20 15-48	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.04 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 230 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (3-1-13 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-13, 4-13
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=243(LC 11)
Max Uplift 2=-286(LC 12), 10=-286(LC 13)
Max Grav 2=1106(LC 1), 10=1106(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1595/826, 4-6=-1098/622, 6-8=-1098/622, 8-10=-1594/826
BOT CHORD 2-15=-601/1308, 13-15=-601/1308, 12-13=-604/1308, 10-12=-604/1308
WEBS 6-13=-528/755, 8-13=-587/409, 8-12=-129/305, 4-13=-587/409, 4-15=-129/305

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 Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) except (jt=lb) 2=286, 10=286.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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Chesterfield, MO 63017
Date:

March 18,2025

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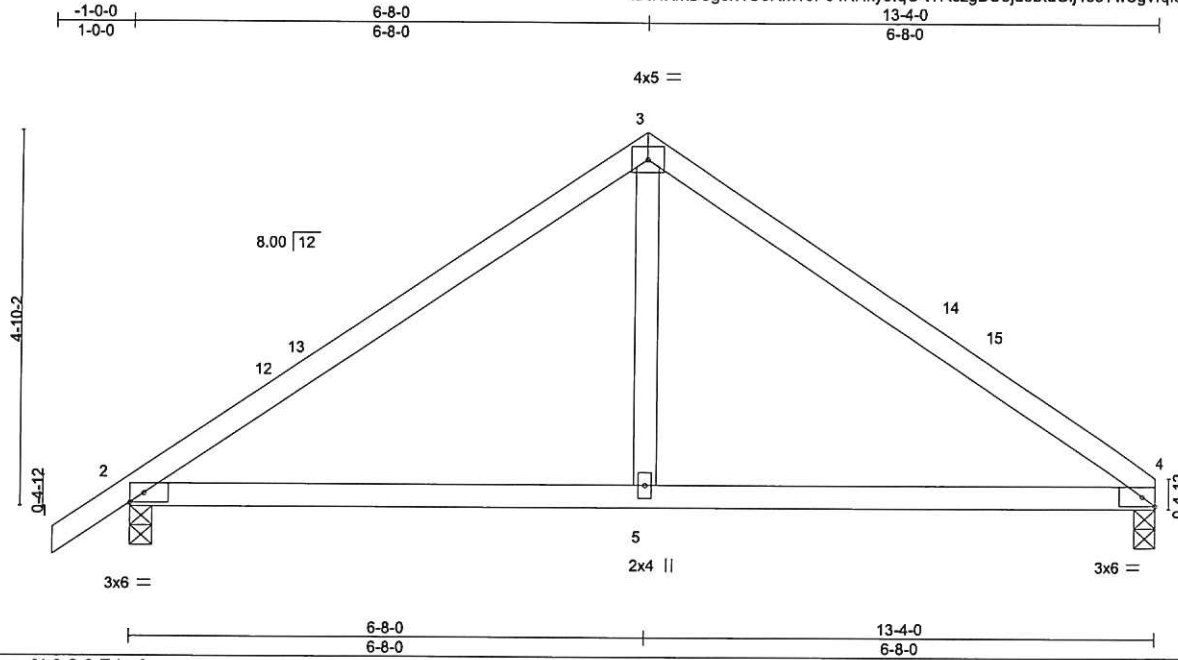
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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712064
4496588	T26	Common	2	1	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:03 2025 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-iTRczgBO9ju3btuOlj40sYwUgVrqlo9R8e2A65zZo4Q



Scale = 1:29.8

Plate Offsets (X,Y) - [4:0-2-3,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 0.50	Vert(LL)	0.08	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.12	5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							
									Weight: 52 lb	FT = 20%

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

REACTIONS. (size) 4=0-3-8, 2=0-3-8
Max Horz 2=121(LC 9)
Max Uplift 4=-120(LC 13), 2=-147(LC 12)
Max Grav 4=491(LC 1), 2=549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-602/205, 3-4=-601/215
BOT CHORD 2-5=-69/425, 4-5=-69/425
WEBS 3-5=-22/311

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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 13-4-0 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) except (jt=lb) 4=120, 2=147.

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March 18,2025

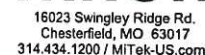
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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:04 2025 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-Lf?_A0C0w10wD1TaJRbFPmSIGvHQ1GdbNinkeXzZo4P

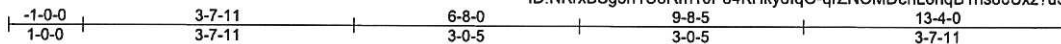


Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712066
4496588	T27	Common Girder	1	2		

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:05 2025 Page 1

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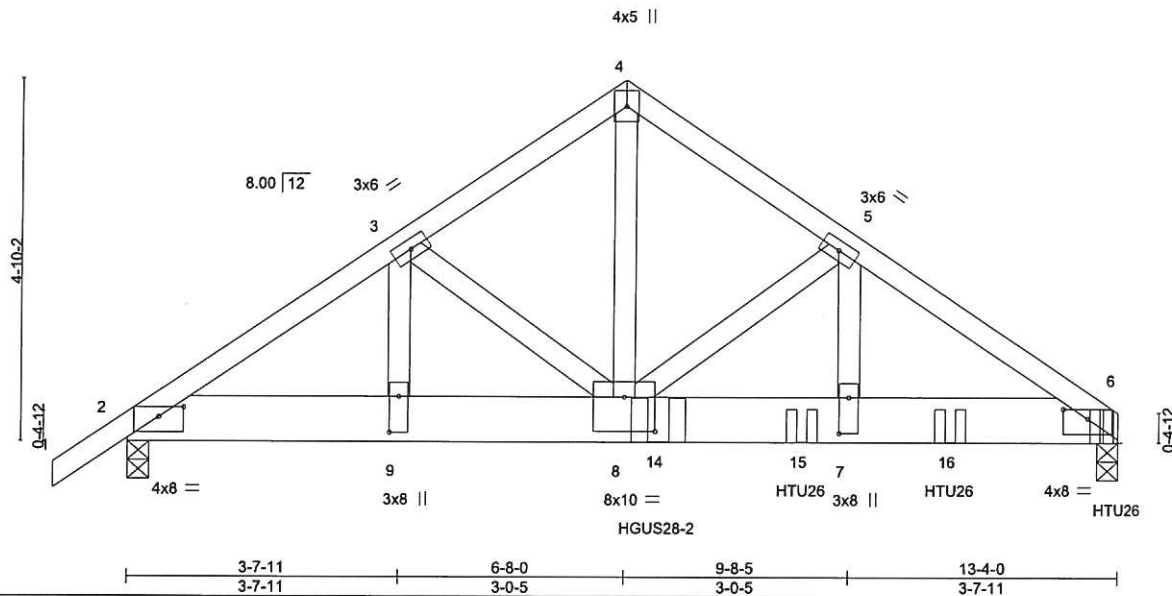


Plate Offsets (X,Y)--- [2:0-4-0,0-1-9], [6:0-4-0,0-1-9], [7:0-5-12,0-1-8], [8:0-5-0,0-5-8], [9:0-5-12,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/def L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 178 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 2=0-3-8
Max Horz 2=121(LC 5)
Max Uplift 6=1637(LC 9), 2=939(LC 8)
Max Grav 6=5222(LC 2), 2=2496(LC 1)

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

TOP CHORD 2-3=-4097/1549, 3-4=-4166/1647, 4-5=-4164/1646, 5-6=-6133/2183
BOT CHORD 2-9=-1301/3369, 8-9=-1301/3369, 7-8=-1763/5077, 6-7=-1763/5077
WEBS 4-8=-1734/4385, 5-8=-2186/678, 5-7=-634/2377, 3-8=-282/300

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1637, 2=939.
- Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 6-16d Truss) or equivalent at 7-1-9 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-3-4 oc max. starting at 9-0-12 from the left end to 13-4-0 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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Date:

March 18,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712066
4496588	T27	Common Girder	1	2	Job Reference (optional)	

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

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:05 2025 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: 1-4=-54, 4-6=-54, 2-6=-20
Concentrated Loads (lb)
Vert: 6=-1228(F) 14=-2898(F) 15=-1219(F) 16=-1219(F)

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Job	Truss	Truss Type	Qty	Ply	NORMAN - ALMONTE	T36712067
4496588	V01	GABLE	1	1		

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8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 18 05:48:05 2025 Page 1

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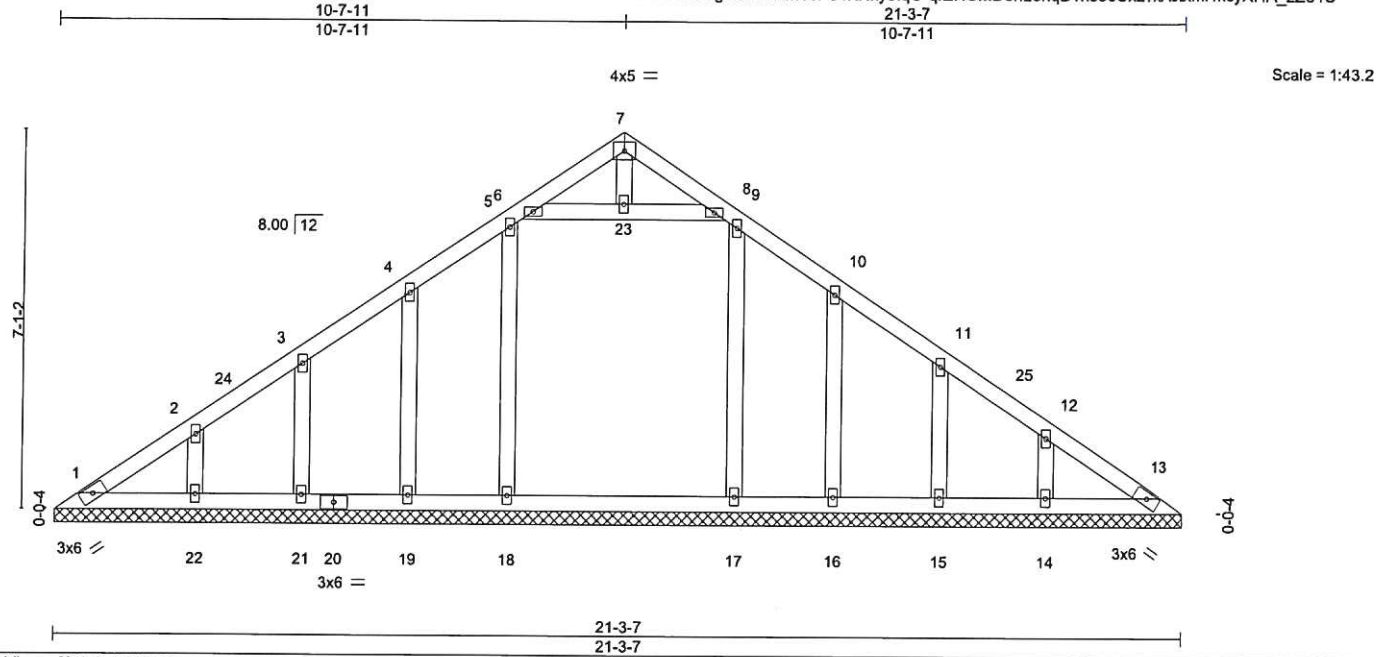


Plate Offsets (X,Y)=[9:0-0-1,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.16	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	13	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 113 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
BOT CHORD

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

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.

REACTIONS. All bearings 21-3-7.
(lb) - Max Horz 1=-167(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 18, 19, 21, 22, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 21, 22, 16, 15, 14 except 18=341(LC 19), 17=312(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 10-7-11, Zone2 10-7-11 to 14-7-11, Zone1 14-7-11 to 20-9-10 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 18, 19, 21, 22, 16, 15, 14.

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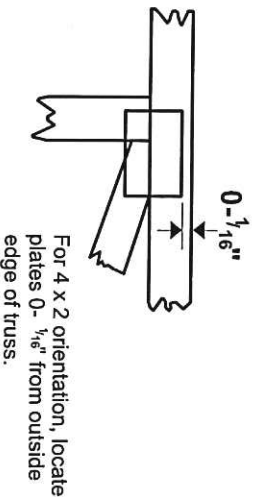
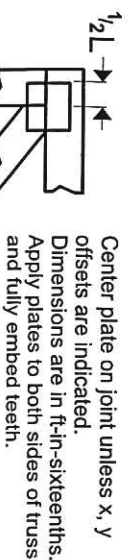
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Symbols

PLATE LOCATION AND ORIENTATION



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

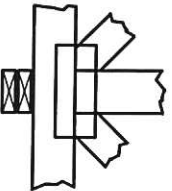
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

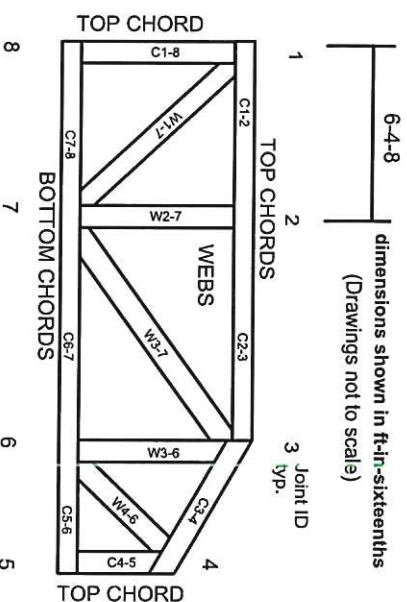


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TTP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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