



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

RE: 4175511 - CHRISMILL HOMES - HELMICK RES.

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

Site Information:

Customer Info: CHRISMILL HOMES Project Name: Helmick Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 283 SE Rolling Meadows, 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 8.7
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	T34750233	CJ01	8/16/24	15	T34750247	T02G	8/16/24
2	T34750234	CJ03	8/16/24	16	T34750248	T03	8/16/24
3	T34750235	CJ05	8/16/24	17	T34750249	T03A	8/16/24
4	T34750236	EJ01	8/16/24	18	T34750250	T04	8/16/24
5	T34750237	EJ02	8/16/24	19	T34750251	T05	8/16/24
6	T34750238	EJ03	8/16/24	20	T34750252	T06	8/16/24
7	T34750239	EJ03A	8/16/24	21	T34750253	T07	8/16/24
8	T34750240	HJ05	8/16/24	22	T34750254	T08	8/16/24
9	T34750241	HJ10	8/16/24	23	T34750255	T09	8/16/24
10	T34750242	PB01	8/16/24	24	T34750256	T10	8/16/24
11	T34750243	PB02	8/16/24	25	T34750257	T11	8/16/24
12	T34750244	T01	8/16/24	26	T34750258	T12	8/16/24
13	T34750245	T01G	8/16/24	27	T34750259	T13	8/16/24
14	T34750246	T02	8/16/24	28	T34750260	T14	8/16/24



Review for Code Compliance
Universal Engineering Science

Philip J. O'Regan
Examiner-License No.

PX2707 09/27/2024

This item has been digitally signed and sealed by O'Regan, Philip, PE on the date adjacent to the seal.

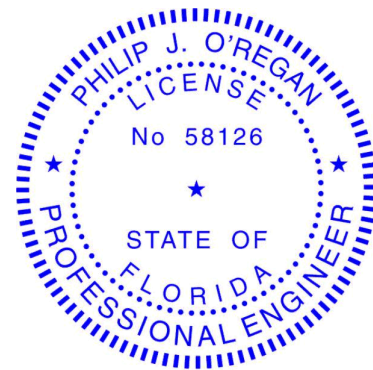
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

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

My license renewal date for the state of Florida is February 28, 2025.

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



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

August 16,2024

O'Regan, Philip

1 of 2



RE: 4175511 - CHRISMILL HOMES - HELMICK RES.

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

Site Information:

Customer Info: CHRISMILL HOMES Project Name: Helmick Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 283 SE Rolling Meadows, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T34750261	T15	8/16/24
30	T34750262	T16	8/16/24
31	T34750263	T17	8/16/24
32	T34750264	T18	8/16/24
33	T34750265	T19	8/16/24
34	T34750266	T20	8/16/24
35	T34750267	T21	8/16/24
36	T34750268	T22	8/16/24
37	T34750269	T23	8/16/24
38	T34750270	T24	8/16/24
39	T34750271	T25	8/16/24
40	T34750272	T25G	8/16/24
41	T34750273	T26	8/16/24
42	T34750274	T26G	8/16/24
43	T34750275	T27	8/16/24
44	T34750276	V01	8/16/24



Review for Code Compliance
Universal Engineering Science

Lawrence Powell
Examiner-License No.

PX2707

09/27/2024

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750233
4175511	CJ01	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:13 2024 Page 1
ID:NRxBsG5n1U8Rm10Po4KHkyolqO-0QYBmucueFSbMccIR4VnmKgsN3ImA0w2ZE1_gQyncy4

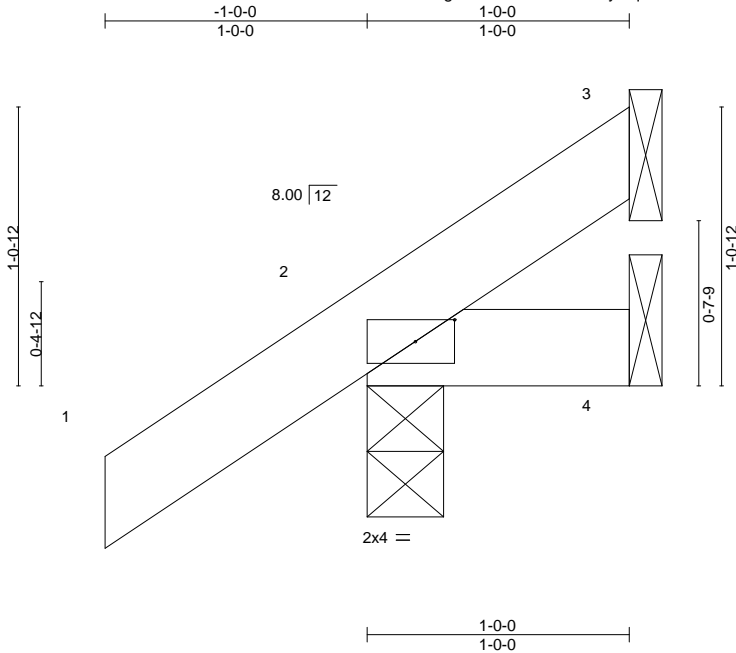


Plate Offsets (X,Y)--		[2:0-1-13,0-1-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.09	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MP						Weight: 5 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=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.



Review for Code Compliance
Universal Engineering Science

- 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; Endo. 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 ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

August 16,2024

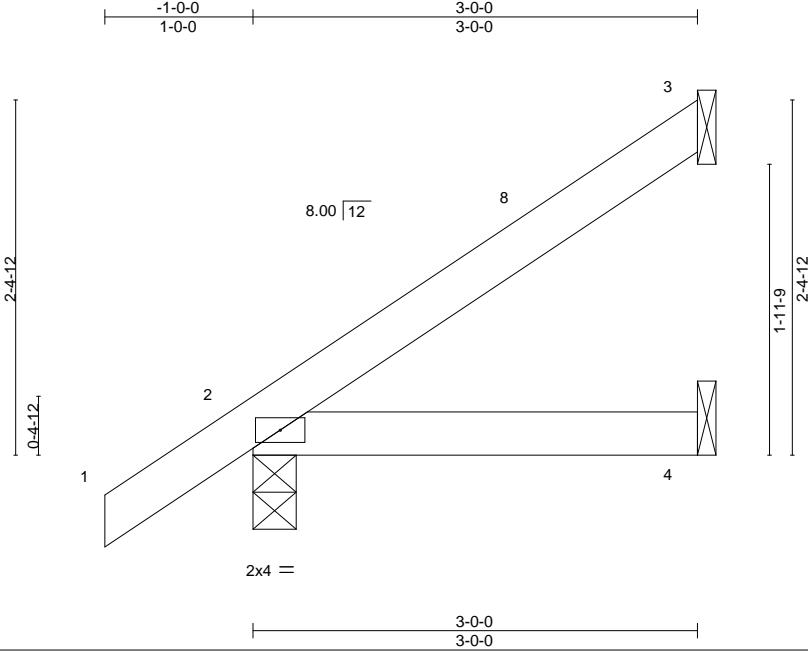
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	CJ03	Jack-Open	4	1	T34750234
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:13 2024 Page 1
ID:NRxBSSg5n1U8Rm10Po4KHkyolqO-0QYBmucueFSbMCciR4VnmKgsN3HqA0w2ZE1_gQyncy4



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

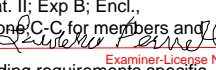
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=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.

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-Licence No.

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

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

August 16,2024

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

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

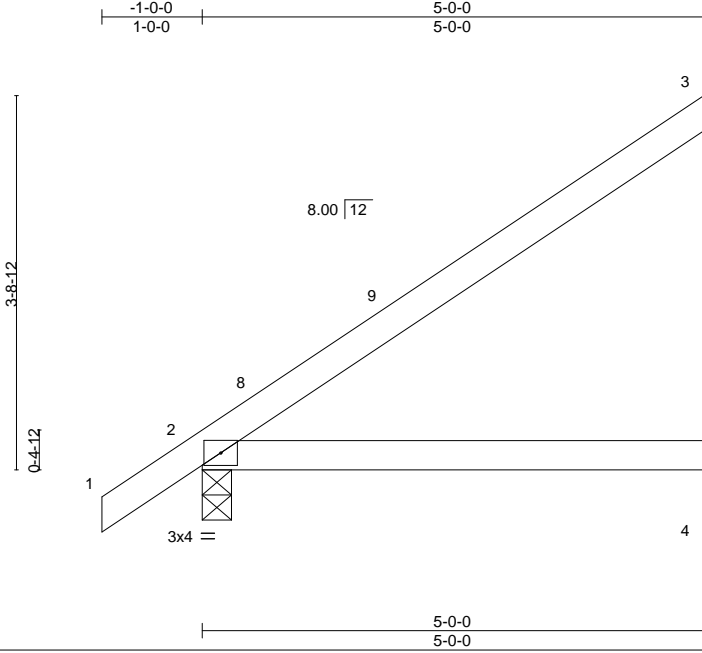
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	CJ05	Jack-Open	4	1	T34750235

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:14 2024 Page 1

ID: NKrxBSg5n1U8Rm10Po4KHkyolQO-Ud6Z_EdWPZaS_MBv_n00JXD_iSaDvT9CnunXCtynCy3



Scale = 1:23.0

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

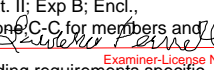
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=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.

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-Licence No.

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

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	EJ01	Jack-Partial	18	1	T34750236

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:14 2024 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-Ud6Z_EdWPZaS_MBv_n00JXDzpSYKvStCnunXCtyncy3



Scale = 1:30.3

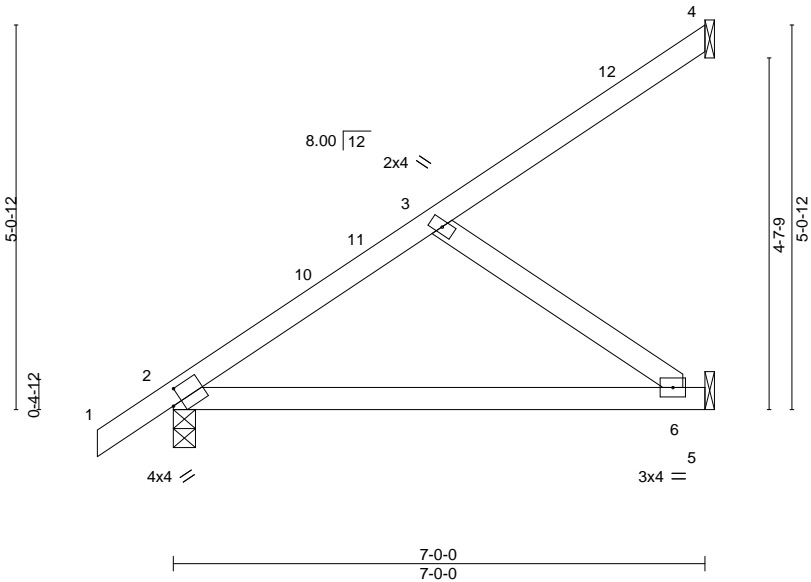


Plate Offsets (X,Y)--		[2:0-1-9,0-2-5]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.36	Vert(LL) -0.08 6-9 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.44	Vert(CT) -0.16 6-9 >523 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 31 lb	FT = 20%

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 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; 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.

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

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	EJ02	Roof Special	2	1	T34750237

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:14 2024 Page 1

ID:NRKxBsg5n1U8Rm10Po4KHkyolqO-Ud6Z_EdWPZaS_MBv_n00JXDwQsX8vT9CnunXCtyncy3

-1-0-0 1-0-0 6-8-0 6-8-0 7-0-0 7-0-0 0-4-0 0-4-0

Scale = 1:29.2

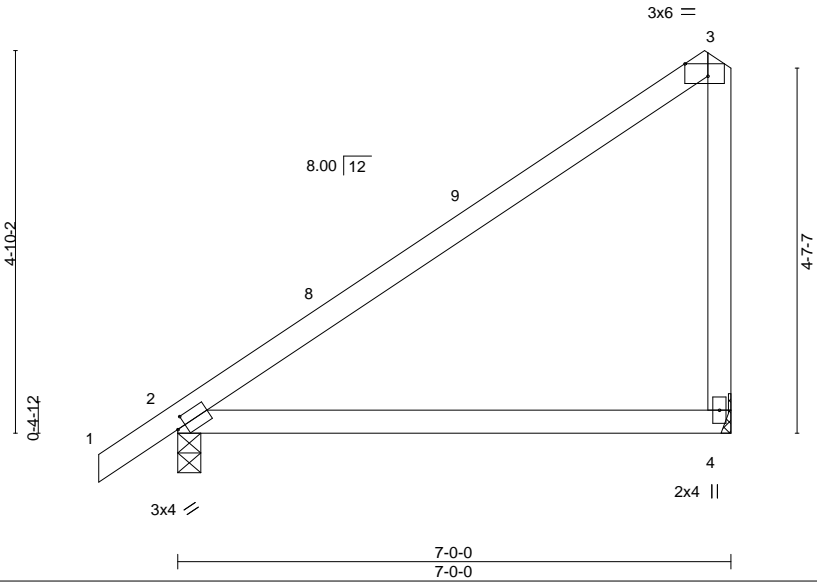


Plate Offsets (X,Y)--		[2:0-1-5,0-1-8], [3:0-3-8,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	0.10	4-7	>833	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.17	4-7	>493	180		
BCLL 0.0 *	Rep Stress Incr	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.



Review for Code Compliance
Universal Engineering Science

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; 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
 - 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) 2 except (jt=lb) 4=141.

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

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

August 16,2024

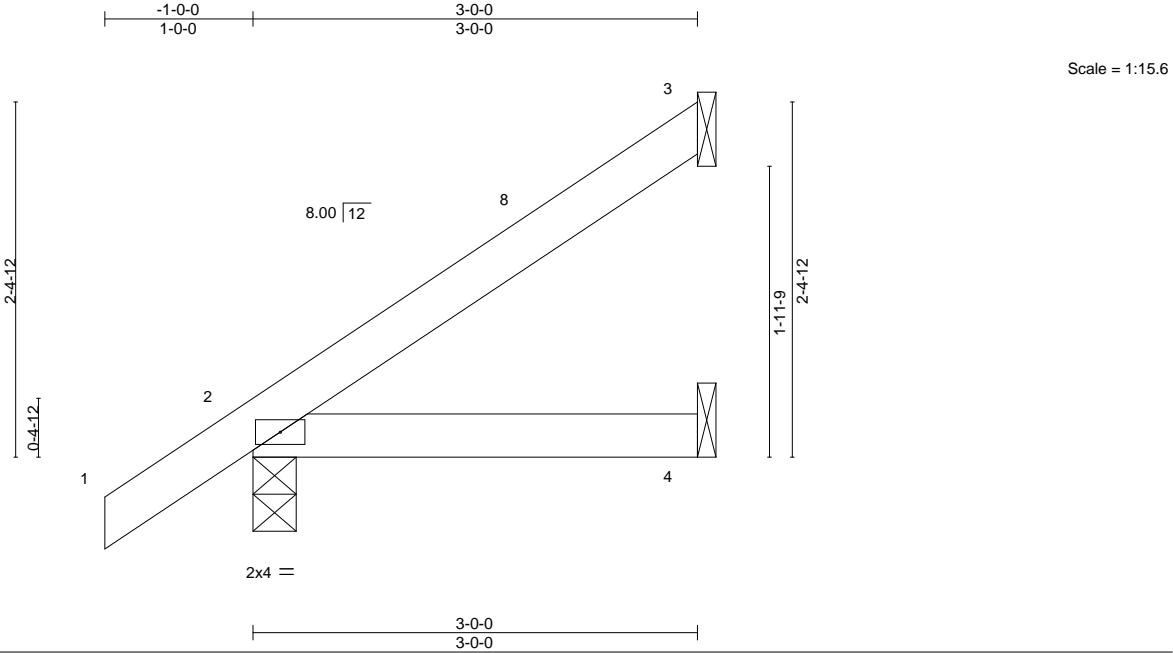
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	EJ03	Jack-Open	3	1	T34750238
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:15 2024 Page 1
ID:NRxBsG5n1U8Rm10Po4KHkyolqO-ypgxBad8AsiJcWl5YVXFslCszleWPL0YW5kJyncy2



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

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

REACTIONS.	(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
	Max Horz 2=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.

Review for Code Compliance
Universal Engineering Science

Philip J. O'Regan
Examiner-Licence No. PX2707 09/27/2024

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

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

August 16,2024

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	EJ03A	Jack-Open Girder	1	1	T34750239
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:15 2024 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-ypgxBad8AsiJcWi5YVXFslI95sqPewPL0YW5kJyncy2

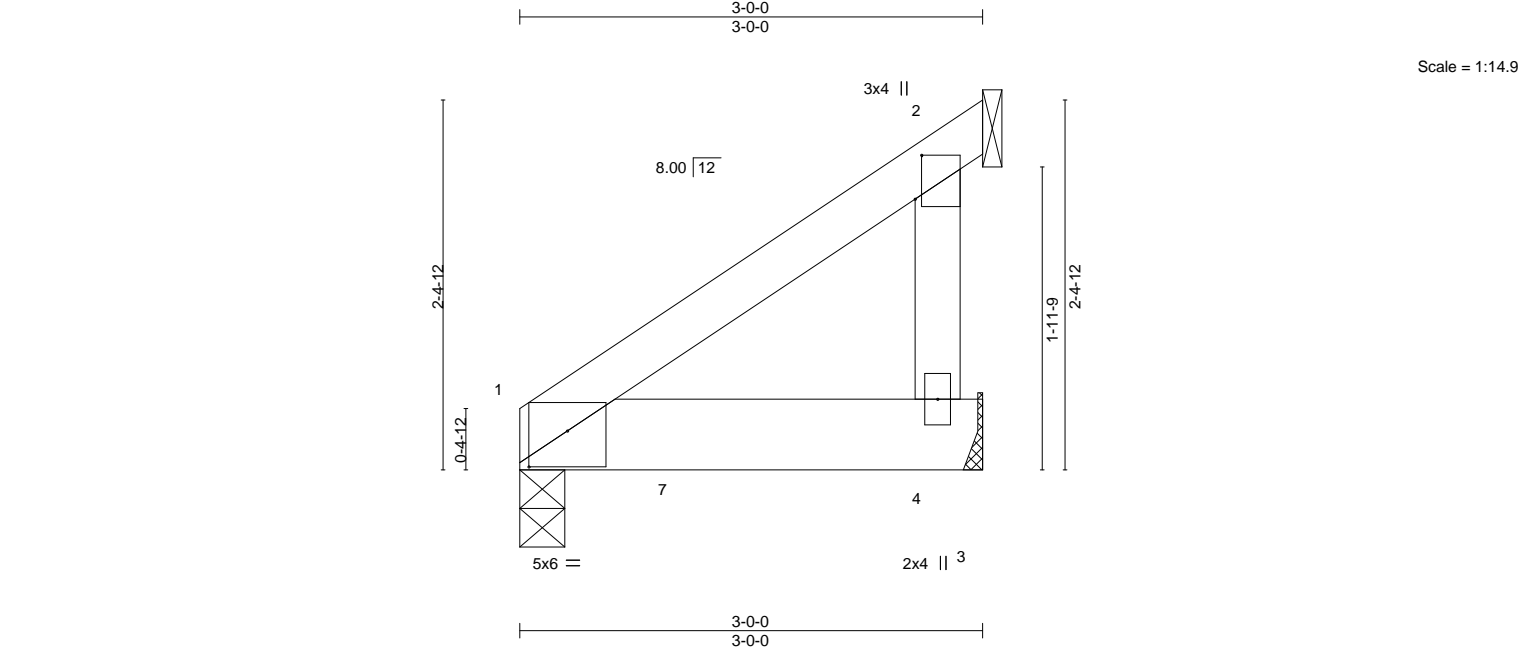


Plate Offsets (X,Y)--		[1:0-3-0,0-2-13], [2:0-3-7,0-0-8]								
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.01	4-6	>999	240	MT20 244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.02	4-6	>999	180	
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a	
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MP						
									Weight: 15 lb	FT = 20%

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


REACTIONS.	(size)	1=0-3-8, 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; 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)	

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

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

August 16,2024

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

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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	HJ05	Diagonal Hip Girder	1	1	T34750240

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:16 2024 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-Q?DJPwenxAqADgKH6C2UOylLmGI?NMfUFCGeHlyncy1

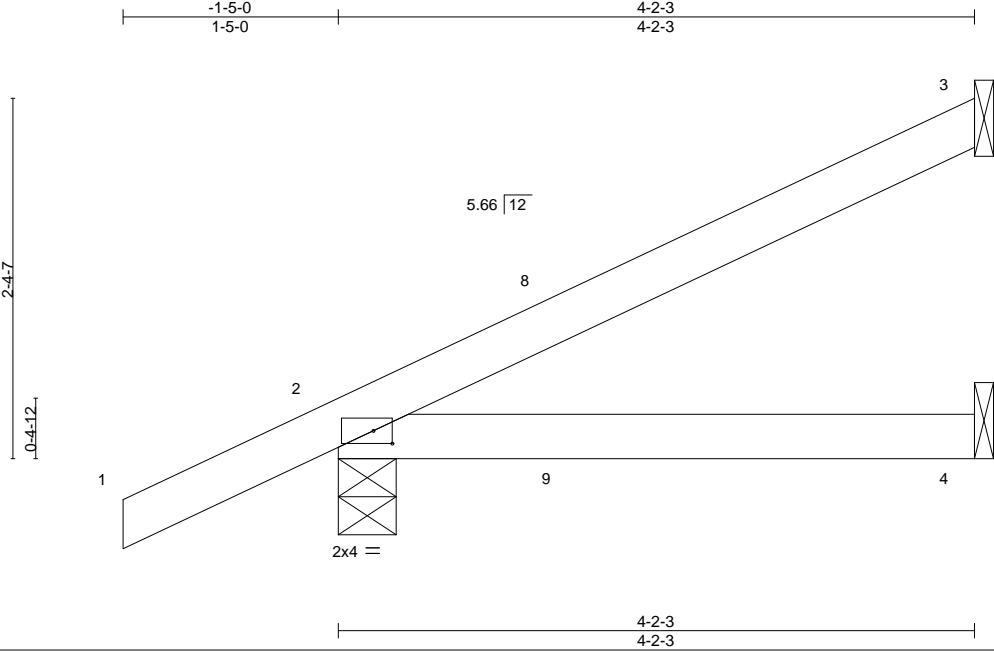


Plate Offsets (X,Y)--		[2:0-1-8,0-1-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.03	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=97(LC 8)
Max Uplift 3=64(LC 8), 2=85(LC 8), 4=28(LC 5)
Max Grav 3=91(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.



Review for Code Compliance
Universal Engineering Science

- 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 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: 9=9(F=5, B=5)

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

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

August 16,2024

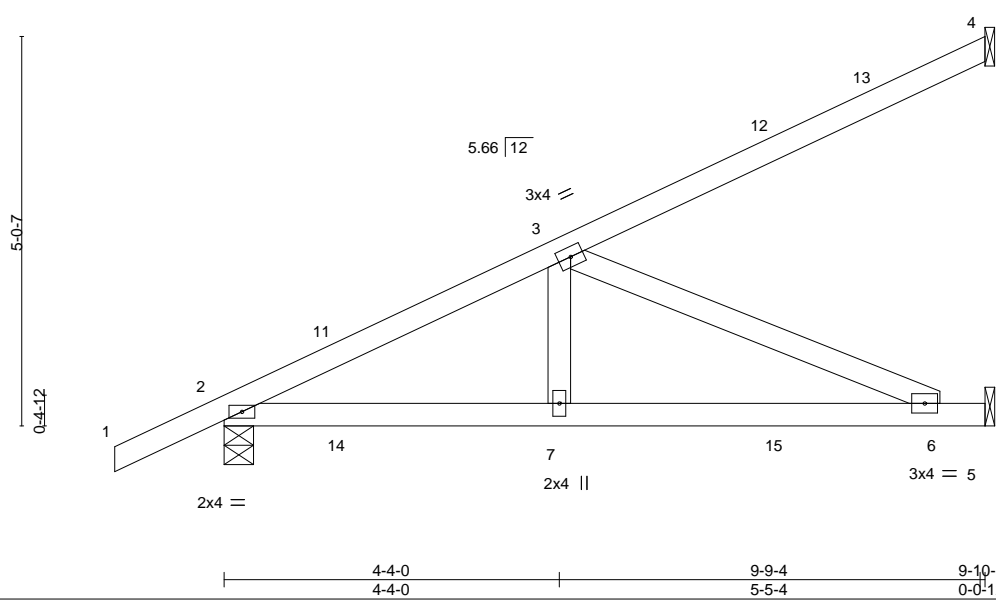
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	HJ10	Diagonal Hip Girder	2	1	T34750241
Job Reference (optional)					

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:16 2024 Page 1
ID:NRxBSSg5n1U8Rm10Po4KHkyolqO-Q?DJPwenxAqADgKH6C2UOyIErGApNGaUFCGeHlyncy1




LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	Vert(LL) 0.08	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.70	Vert(CT) -0.15	6-7	>759	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.39	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-3-4 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=193(LC 8)
Max Uplift 4=115(LC 8), 2=191(LC 8), 5=146(LC 8)
Max Grav 4=157(LC 1), 2=483(LC 1), 5=317(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-798/287
BOT CHORD 2-7=-383/630, 6-7=-383/630
WEBS 3-7=-30/307, 3-6=-686/417

 **Review for Code Compliance**
Universal Engineering Science
Lawrence Powell PX2707 09/27/2024
Examiner-License No.

- NOTES-**
- 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.
 - 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) 4=115, 2=191, 5=146.
 - 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 3=-1(F=0, B=0) 7=-14(F=-7, B=-7) 12=-79(F=-39, B=-39) 14=9(F=5, B=5) 15=-66(F=-33, B=-33)

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

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

August 16,2024

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750242
4175511	PB01	Piggyback	2	1	Job Reference (optional)	

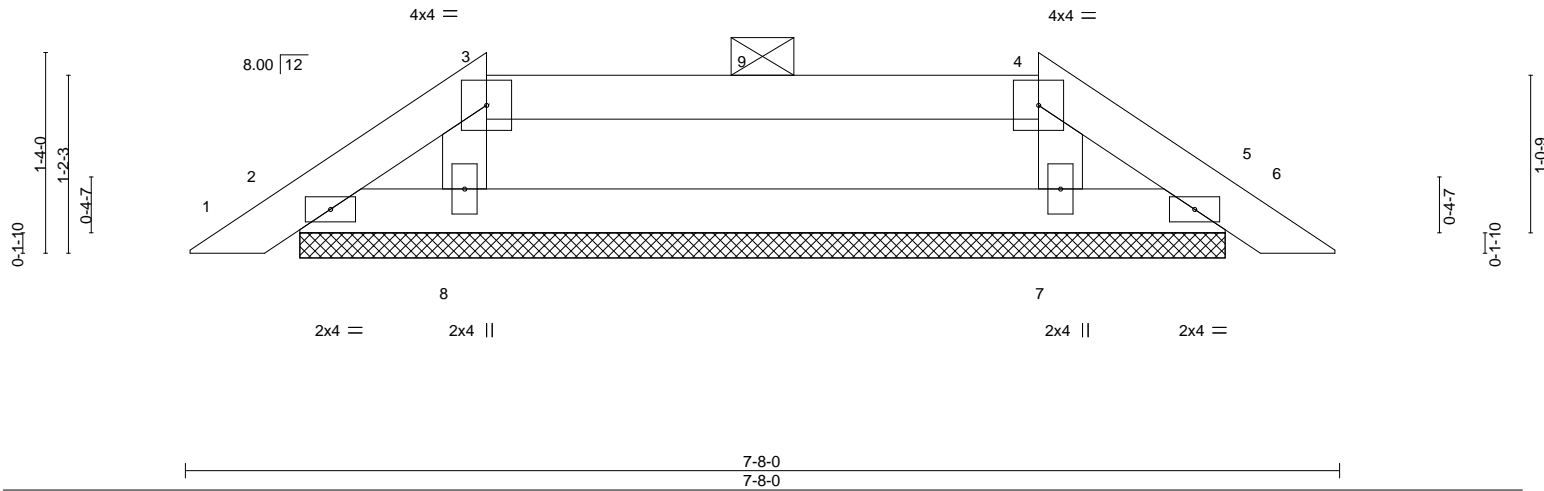
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:17 2024 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-uCnhcGfPiUy1rqvUgwZjxArVKgeY6pNeTs?CpCyncy0

7-8-0
7-8-0

Scale = 1:15.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.09	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 23 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS 2x4 SP No.3	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.

 Review for Code Compliance
Universal Engineering Science

- 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, End. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 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.

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

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

August 16,2024

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

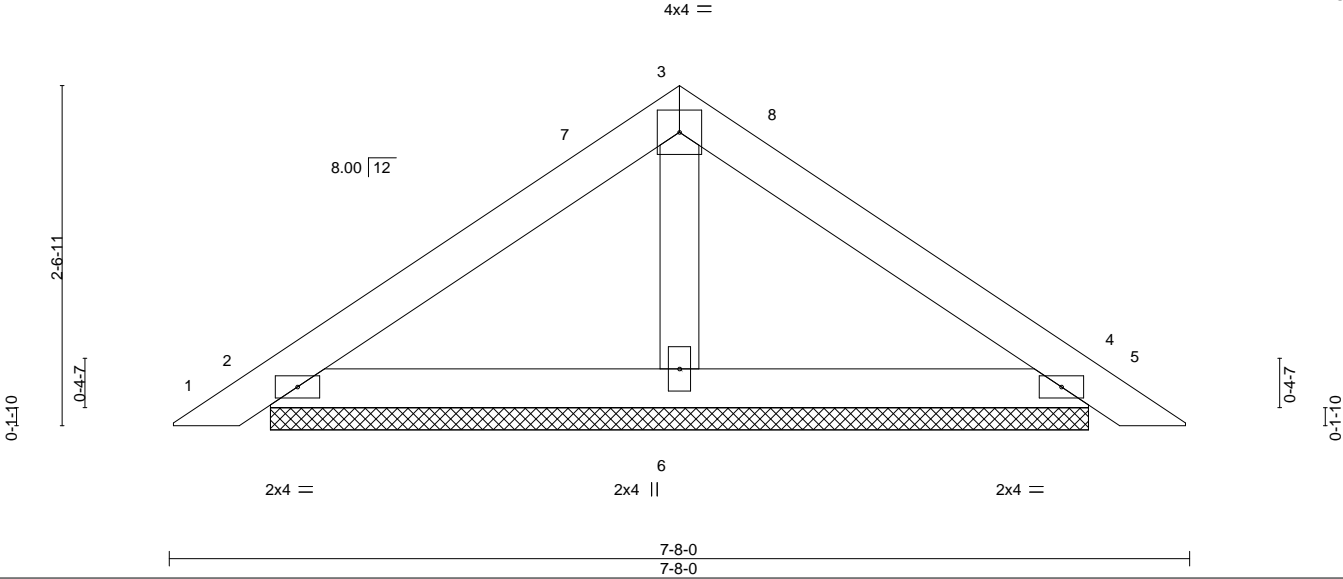
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750243
4175511	PB02	Piggyback	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:17 2024 Page 1
ID:NRxBsG5n1U8Rm10Po4KHkyolqO-uCnhcGFpIUy1rqvUgwZjxArVcgeT6pReTs?CpCyncy0
3-10-0 3-10-0 7-8-0 3-10-0

Scale = 1:17.3



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

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

REACTIONS. (size) 2=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, End. 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.

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

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

August 16, 2024

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

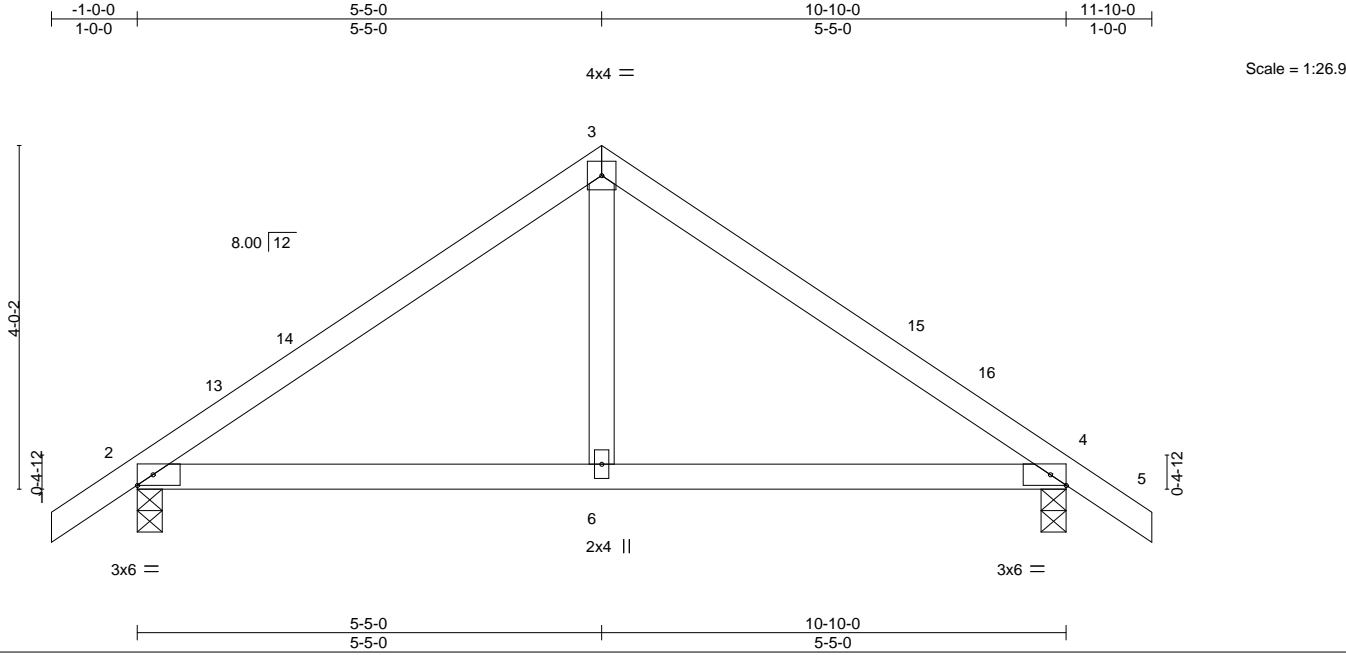
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	T01	Common	1	1	T34750244

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:18 2024 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-NOL4pbg1Tn4uTzUgDd4yTNNfs4xVrFhniWllLeyncy?



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.03	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.05				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 45 lb		FT = 20%	

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

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" to 2'-0", Zone1 2'-0" to 5'-5", Zone2 5'-5" 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" tall by 2'-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.

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

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

August 16,2024

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

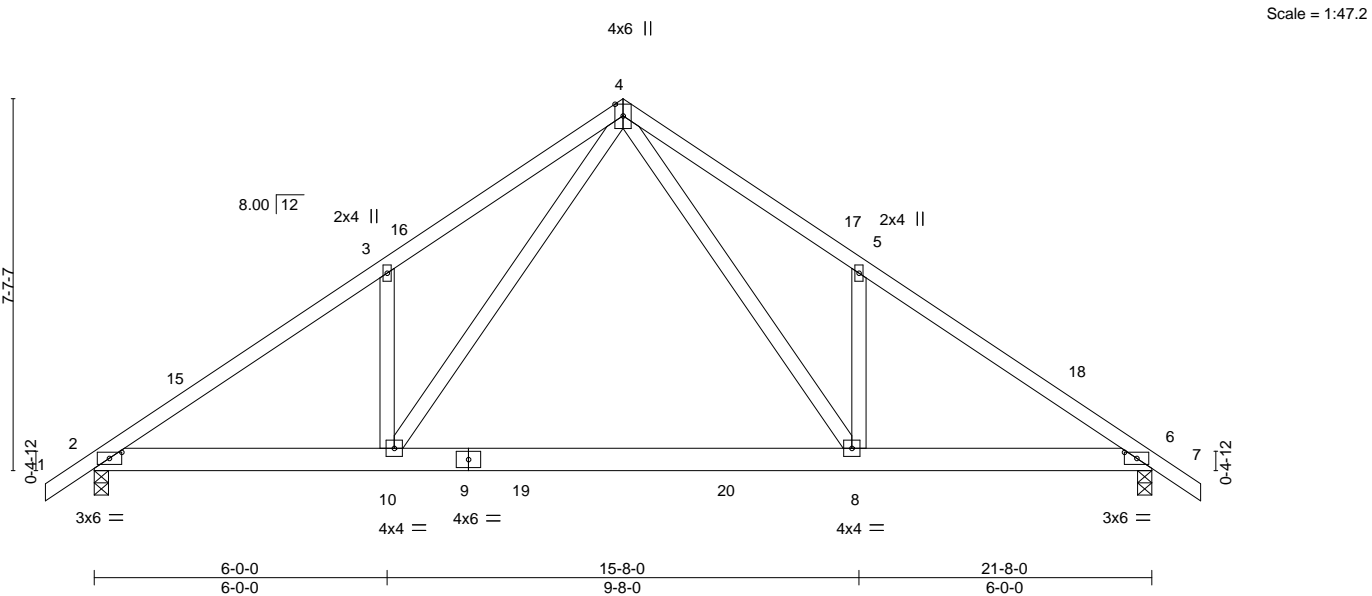
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750246
4175511	T02	Common	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:19 2024 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolQO-ravS1xhfE5CI473snLcB0bwqMT8faa5xxAUlt4yncy_



LOADING (psf)		SPACING-		CSI.		DEFL.		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-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-4 oc purlins.
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, 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.		Review for Code Compliance		Universal Engineering Science	
(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	
1) 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	

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

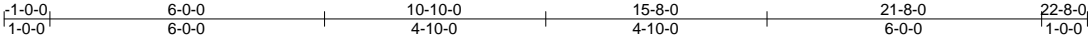
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 16,2024

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750247
4175511	T02G	GABLE	1	1	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:20 2024 Page 1
ID:NRxBsG5n1U8Rm10Po4KHkyolqO-JnTqEHhH?PLciHe2L27QZoT?zteFJ4d4AqEsPXyncxz



4x6 ||

Scale = 1:50.3

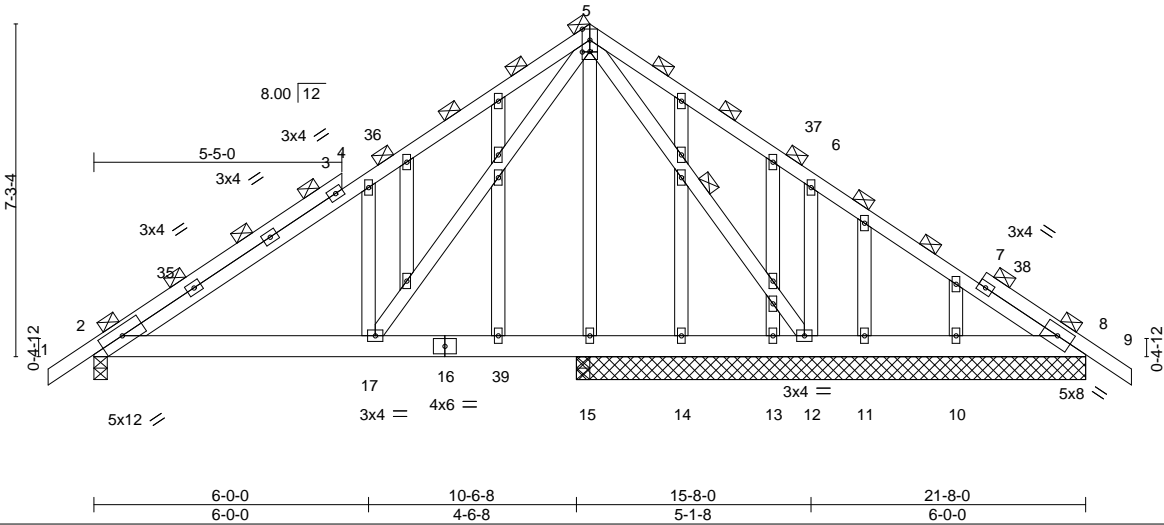


Plate Offsets (X,Y)--		[5:0-2-0,0-0-2]										
LOADING (psf)		SPACING-	2-0-0	CSI.			DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32		Vert(LL)	-0.02 17-31	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22		Vert(CT)	-0.04 17-31	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	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 12)=637(LC 12)

Review for Code Compliance
Universal Engineering Science

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

Philip J. O'Regan PX2707 09/27/2024
Examiner-License No.

- 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 O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750248
4175511	T03	Common	4	1	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:20 2024 Page 1
ID:NRxBsg5n1U8Rm10Po4KHkyolqO-JnTqEHhH?PLciHe2L27QZoT?6tUpJ1C4AqEsPXyncxz



4x6 ||

Scale = 1:46.6

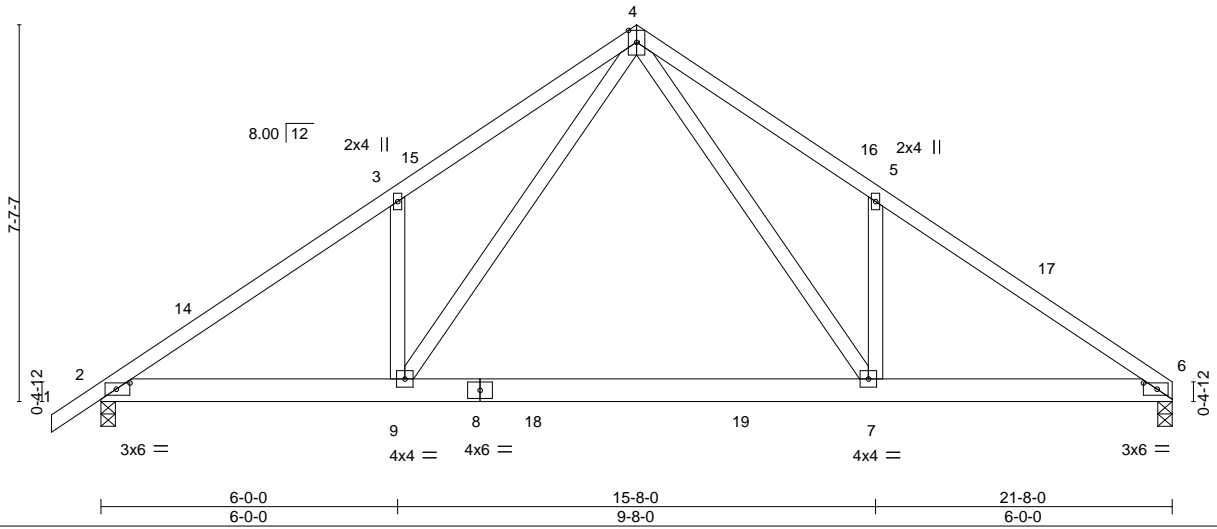


Plate Offsets (X,Y)-- [2:0-3-5,0-1-8], [6:0-3-5,0-1-8]					
LOADING (psf)		SPACING-		CSI.	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31
TCDL	7.0	Lumber DOL	1.25	BC	0.89
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS	
				DEFL.	
				in (loc)	I/defl L/d
				Vert(LL)	-0.19 7-9 >999 240
				Vert(CT)	-0.37 7-9 >700 180
				Horz(CT)	0.03 6 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 127 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-2 oc purlins.
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) 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



Review for Code Compliance
Universal Engineering Science

Lawrence Powell
Examiner-License No.

PX2707 09/27/2024

- 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=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
1) 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 O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750249
4175511	T03A	COMMON	2	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:21 2024 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHyoIqO-nz1CSdivmiTTKRDFvmeF50?9DHP42TeDOUzPxzyncxy

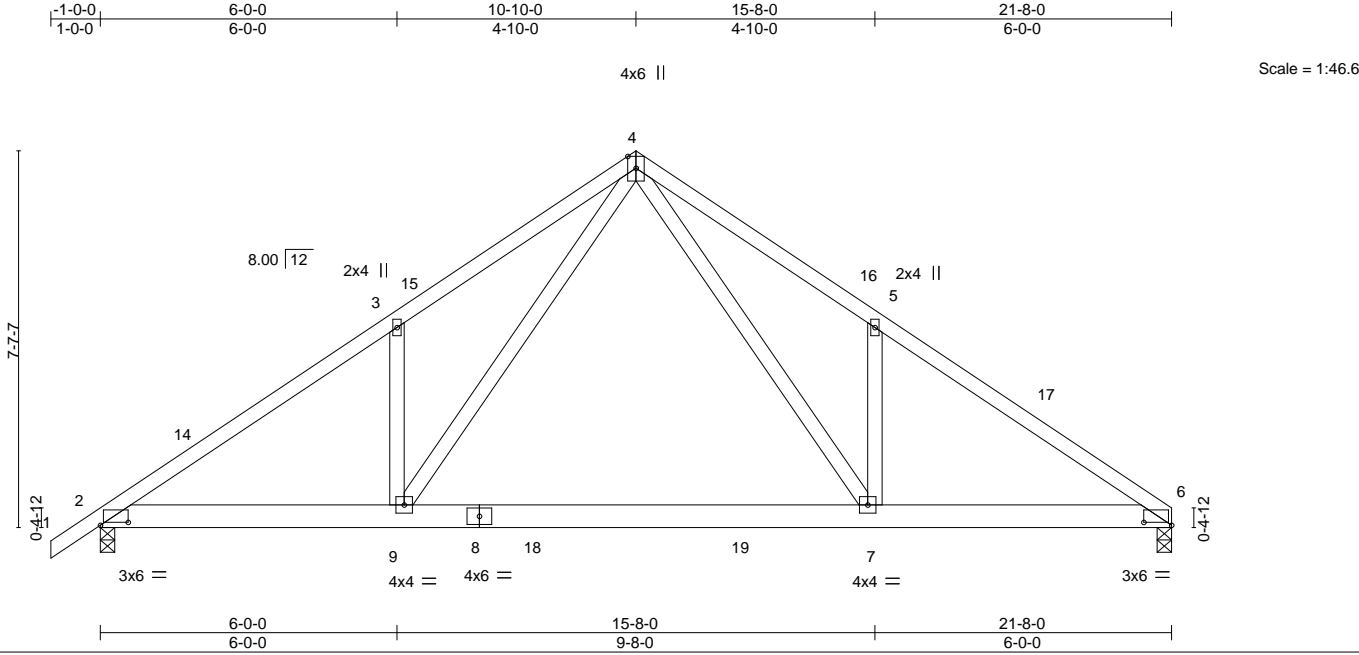


Plate Offsets (X,Y)--		[2:0-6-12,0-0-12], [6:0-6-12,0-0-11]										
LOADING (psf)		SPACING-	2-3-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.21	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.39	7-9	>659	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 127 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-11 oc purlins.
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) 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
1) 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

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

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

August 16,2024

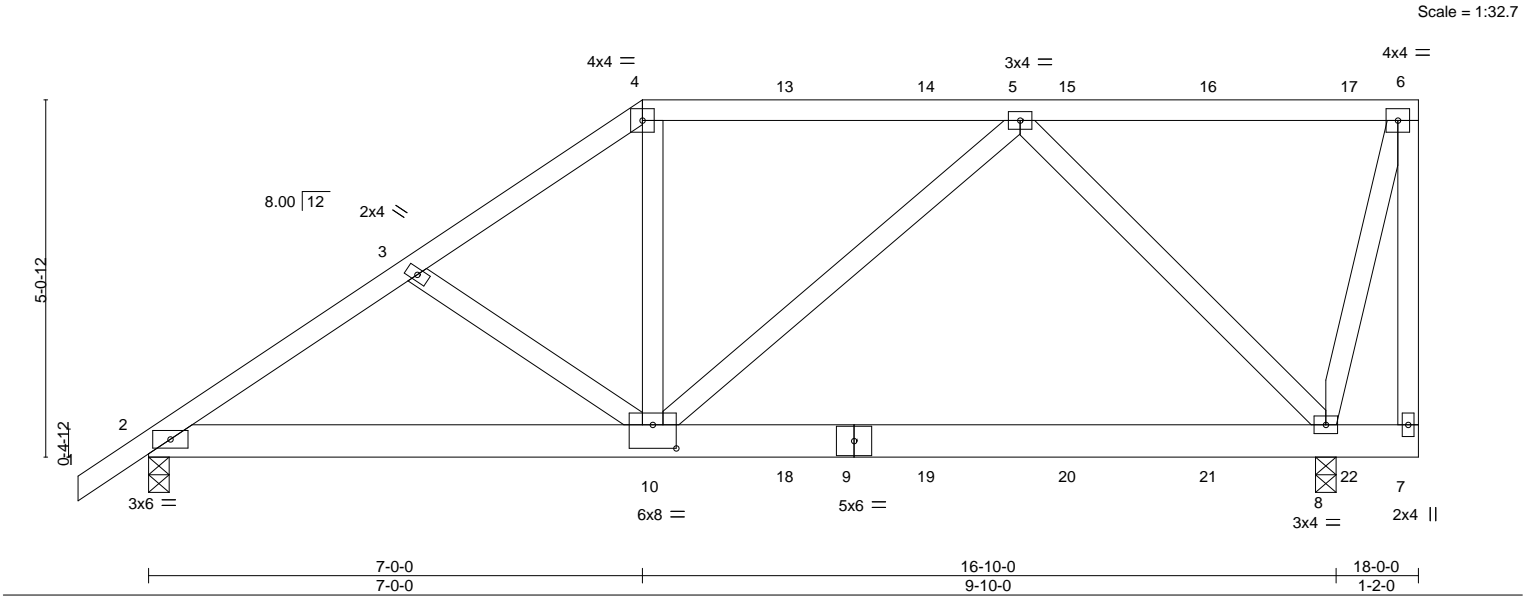
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750250
4175511	T04	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:21 2024 Page 1
ID:NRxBBSg5n1U8Rm10Po4KHkyolqO-nz1CSdivmiTTKRDFvmef50?7UHpb2Q9DOUzPxzyncxy
-1-0-0 3-9-11 7-0-0 12-4-4 18-0-0
1-0-0 3-9-11 3-2-5 5-4-4 5-7-12



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	0.15 8-10 >999	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.25 8-10 >786				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.02 8 n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS						Weight: 117 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-4-5 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=457(LC 8), 8=743(LC 5)
Max Grav	2=1128(LC 1), 8=1610(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1769/753, 3-4=-1628/722, 4-5=-1332/645, 6-7=-626/214
BOT CHORD	2-10=-742/1426, 8-10=-434/871
WEBS	4-10=-238/642, 5-10=-284/637, 5-8=-1101/582, 6-8=-142/616

- 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=457, 8=743.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 56 lb up at 7-0-0, 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 51 lb up at 13-0-12, and 72 lb down and 53 lb up at 15-0-12, and 69 lb down and 54 lb up at 17-0-12 on top chord, and 445 lb down and 269 lb up at 7-0-0, 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, and 162 lb down and 94 lb up at 15-0-12, and 164 lb down and 92 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-4=-54, 4-6=-54, 2-7=-20	

Review for Code Compliance
Universal Engineering Science

Lawrence Powell PX2707 09/27/2024
Examiner-License No.

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

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


August 16,2024

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	T04	Half Hip Girder	1	1	T34750250
Job Reference (optional)					

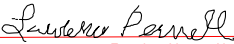
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:21 2024 Page 2
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-nz1CSdivmiTTKRDFvmef50?7UHpb2Q9DOUzPxyzncy

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-17(F) 10=-445(F) 13=-17(F) 14=-17(F) 15=-17(F) 16=-17(F) 17=-22(F) 18=-162(F) 19=-162(F) 20=-162(F) 21=-162(F) 22=-164(F)



Review for Code Compliance
Universal Engineering Science



PX2707 09/27/2024

Examiner-License No.

 **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)

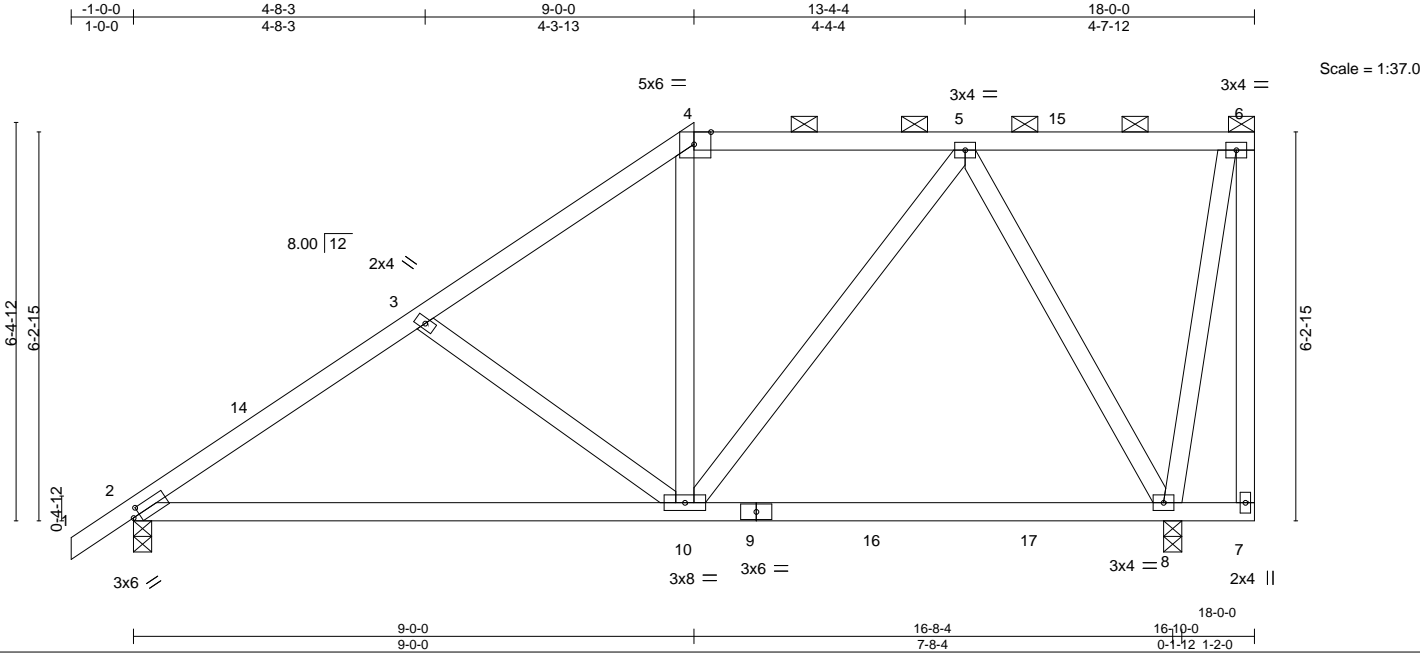
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750251
4175511	T05	Half Hip	1	1	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:22 2024 Page 1
ID:NRxBSg5n1U8Rm10Po4KHkyolqO-F9bafzjXX0bKxboRST9ueDYKmhDhnyyNd8jyTPyncxx



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.11 10-13 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.23 10-13 >876 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 112 lb		FT = 20%	

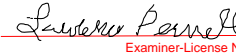
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=250(LC 12)
Max Uplift	2=156(LC 12), 8=214(LC 9)
Max Grav	2=736(LC 19), 8=784(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-851/179, 3-4=-675/128, 4-5=-509/148
BOT CHORD	2-10=-310/747, 8-10=-91/296
WEBS	3-10=-296/201, 5-10=-114/400, 5-8=-586/213

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 -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.	

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

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

August 16,2024

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

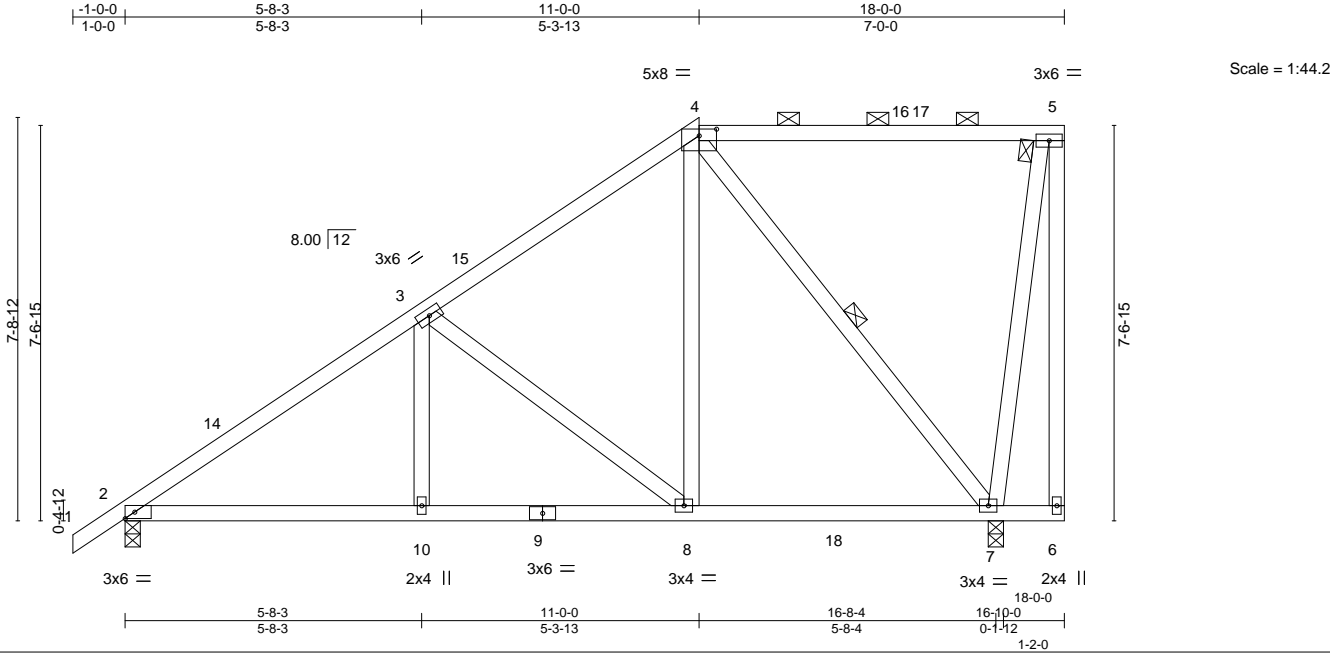
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750252
4175511	T06	Half Hip	1	1	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:22 2024 Page 1
ID:NRxBsg5n1U8Rm10Po4KHkyolqO-F9bafzjXX0bKxboRST9ueDYGphISn_3Nd8jyTPyncxx



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.04 10-13 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.08 10-13 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02 7 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 118 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	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	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	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.		Review for Code Compliance	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		Universal Engineering Science	
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-	
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 -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	
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=149, 7=205.	
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 O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

August 16,2024

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

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

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

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:23 2024 Page 1
ID:NRxBSG5n1U8Rm10Po4KHkyolqO-jL9ztJkAIKjBZINd0Ag7AR5T65cVWVMEwsoSW0rncxw



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 midbt 4-8. 5-8. 6-7

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

Lawrence Parnell PX2707 09/27/2024
Examiner-License No.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCFL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-0-0, 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=lb) 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 ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

August 16, 2024



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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750254
4175511	T08	Common	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:23 2024 Page 1
ID:NRxBSg5n1U8Rm10Po4KHkyolqO-jL9ztJkAIKjBZINd0Ag7AR5RE5XFWQ4WsoSW0rncxw

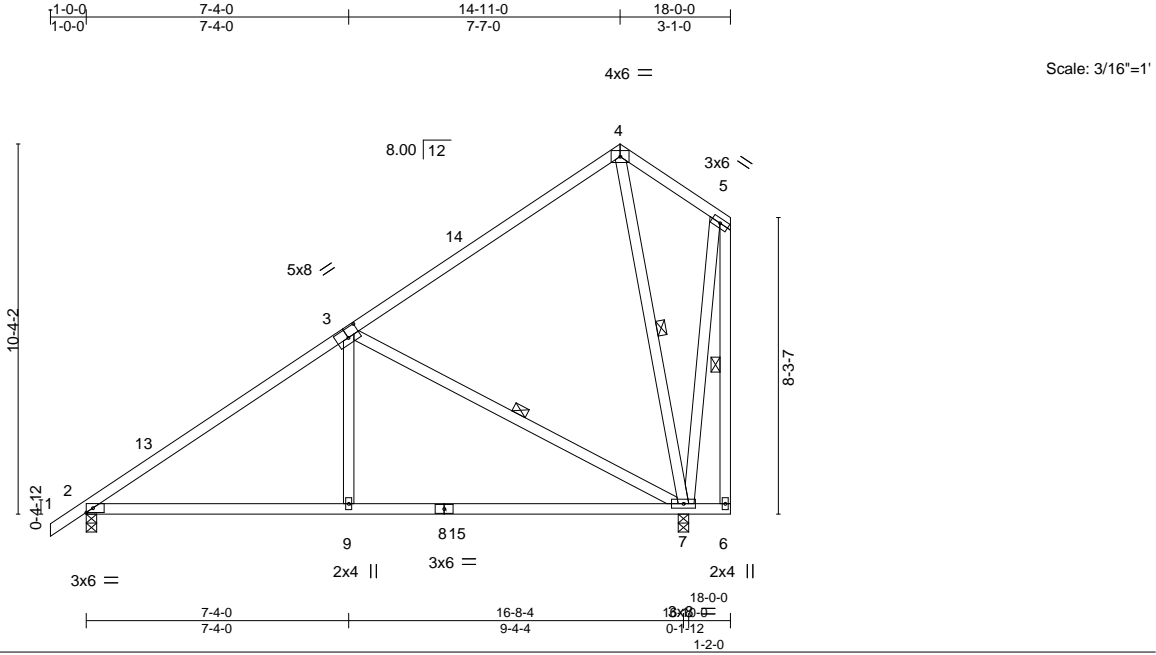


Plate Offsets (X,Y)--		[3:0-4-0,0-3-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) -0.15 7-9 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.71	Vert(CT) -0.28 7-9 >713 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.02 7 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 122 lb	FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 7=0-3-8
	Max Horz 2=363(LC 12)
	Max Uplift 2=133(LC 12), 7=275(LC 12)
	Max Grav 2=771(LC 19), 7=854(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-907/103
BOT CHORD	2-9=-329/798, 7-9=-328/805
WEBS	3-9=0/405, 3-7=-832/344, 4-7=-259/159

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 -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	
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=133, 7=275.	

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

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

August 16,2024

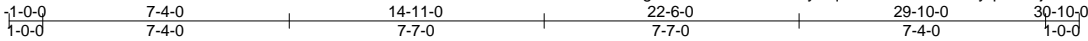
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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


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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750255
4175511	T09	Common	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:24 2024 Page 1
ID:NRxBSSg5n1U8Rm10Po4KHkyolqO-BYiL4fko3dr2BuyqauBMjedbsUvMFvhg4SC3Ylncxv



4x6 = Scale = 1:68.5

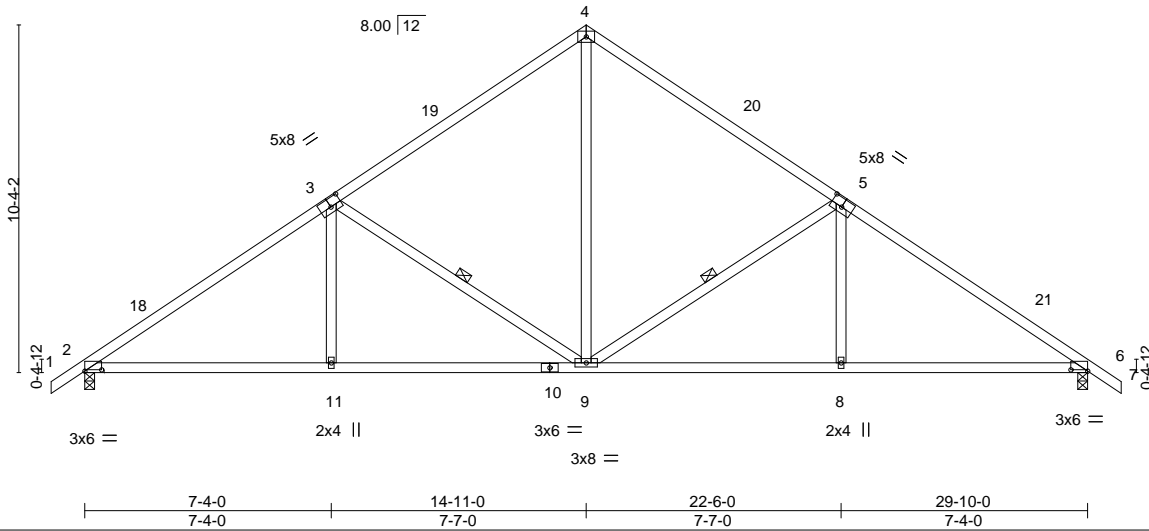



Plate Offsets (X,Y)-- [2:0-6-0,0-0-8], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-6-0,0-0-8]						
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC 0.65	in (loc) l/defl L/d	GRIP
TCDL	7.0	Lumber DOL	1.25	BC 0.59	Vert(LL) 0.09 11-14 >999 240	MT20 244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.38	Vert(CT) -0.16 8-9 >999 180	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS	Horz(CT) 0.06 6 n/a n/a	
						Weight: 156 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-6 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-2-11 oc bracing.
WEBS	2x4 SP No.3	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

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

- 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.

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

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750256
4175511	T10	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:25 2024 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-fkGjH?IQqxzvo2W08bibGsAmYuFY_LupJ6xd4kyncxu

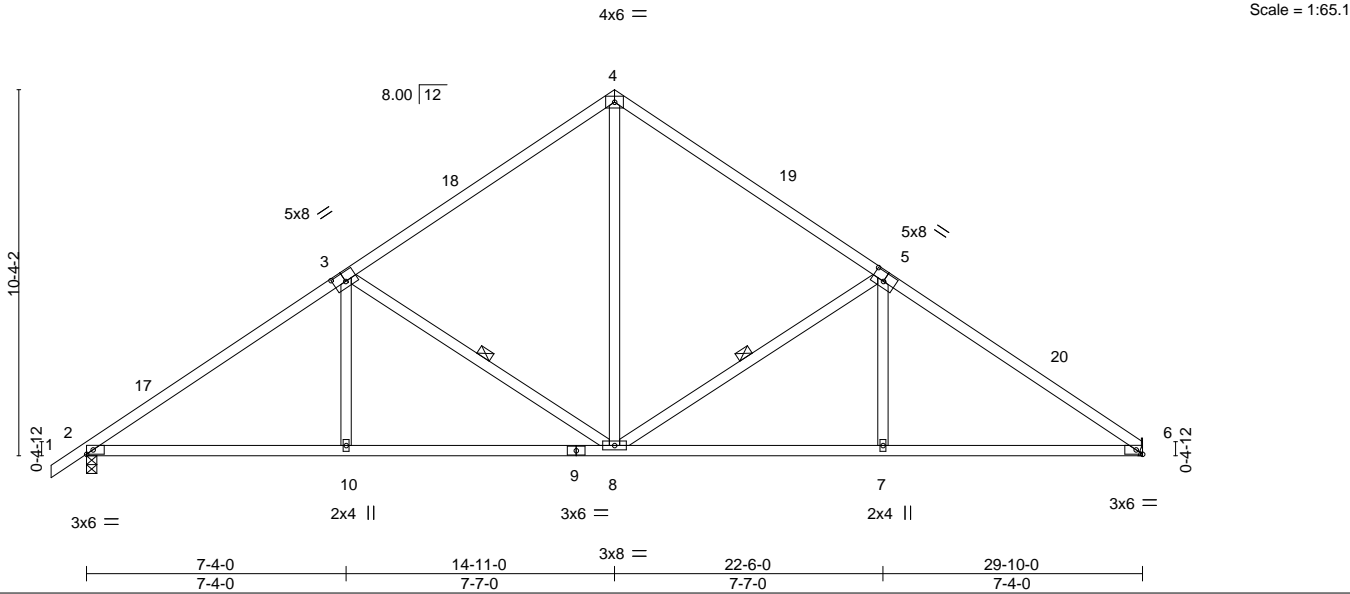


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-2-3,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	in	(loc)	I/defl	L/d
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(LL)	0.09 7-16	>999	240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Vert(CT)	-0.16 8-10	>999	180
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Horz(CT)	0.06 6	n/a	n/a
								Weight: 154 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-11-15 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-1-3 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-8, 3-8

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=257(LC 9)
Max Uplift 2=-296(LC 12), 6=-271(LC 13)
Max Grav 2=1159(LC 1), 6=1103(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1661/394, 3-4=-1139/352, 4-5=-1139/352, 5-6=-1665/398
BOT CHORD 2-10=-395/1339, 8-10=-394/1342, 7-8=-232/1318, 6-7=-233/1315
WEBS 4-8=-199/749, 5-8=-614/336, 5-7=0/313, 3-8=-608/332, 3-10=0/313



Review for Code Compliance
Universal Engineering Science

Lauren Powell
Examiner-License No.

PX2707 09/27/2024

- 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 29-10-0 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.
 - 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=296, 6=271.

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

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRSIMILL HOMES - HELMICK RES.	T34750257
4175511	T11	Roof Special Girder	1	1	Job Reference (optional)	

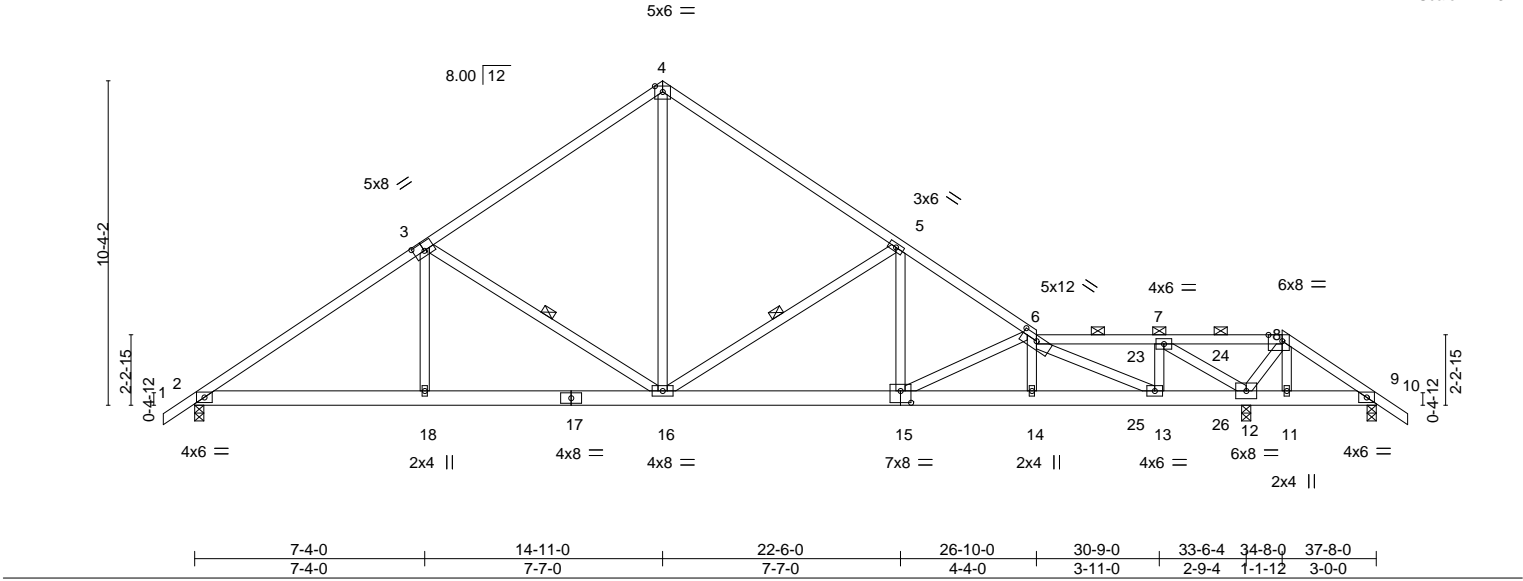
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:25 2024 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-fkGjH?lQqzxvo2W08bibGsAkquFj_E0pJ6xd4kyncxu

1-0-0 7-4-0 14-11-0 22-6-0 26-10-0 30-9-0 34-8-0 37-8-0 38-8-0
1-0-0 7-4-0 7-7-0 7-7-0 4-4-0 3-11-0 3-11-0 3-0-0 1-0-0

Scale = 1:73.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.12 15 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.23 15-16 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.05 12 n/a n/a				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS							
								Weight: 238 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x6 SP No.2		2-0-0 oc purlins (6-0-0 max.): 6-8.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
			5-3-6 oc bracing: 11-12
			5-7-13 oc bracing: 9-11.
		WEBS	1 Row at midpt 3-16, 5-16

REACTIONS. (size) 2=0-3-8, 12=0-3-8 (req. 0-3-13), 9=0-3-8
Max Horz 2=262(LC 6)
Max Uplift 2=308(LC 8), 12=984(LC 9), 9=955(LC 1)
Max Grav 2=1201(LC 1), 12=3214(LC 1), 9=219(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1759/422, 3-4=-1224/377, 4-5=-1219/371, 5-6=-1841/480, 6-7=-254/286,
7-8=-636/2438, 8-9=-506/2061
BOT CHORD 2-18=-404/1416, 16-18=-403/1420, 15-16=-261/1502, 14-15=-483/2109, 13-14=-483/2102,
12-13=-303/318, 11-12=-1697/486, 9-11=-1703/487
WEBS 3-18=0/328, 3-16=-620/335, 4-16=-221/836, 5-16=-711/369, 5-15=-63/458,
6-15=-667/246, 6-13=-2284/541, 7-13=-294/1385, 7-12=-3002/879, 8-12=-1442/478

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) 12 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 (it=lb) 2=308, 12=984, 9=955.
- 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 168 lb down and 126 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).



Review for Code Compliance
Universal Engineering Science

Signature
Examiner-License No.

PX2707 09/27/2024

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

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

August 16,2024

LOAD CASE(S) Standard

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	T11	Roof Special Girder	1	1	T34750257
Job Reference (optional)					

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:25 2024 Page 2
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-fkGjH?lQqxzvo2W08bibGsAkquFj_E0pJ6xd4kyncxu

LOAD CASE(S) Standard


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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 6-8=-54, 8-10=-54, 2-9=-20


Concentrated Loads (lb)

Vert: 8=-26(F) 13=-14(F) 7=-11(F) 11=-31(F) 23=-54(F) 24=-11(F) 25=-403(F) 26=-14(F)



Review for Code Compliance

Universal Engineering Science



PX2707

09/27/2024

Examiner-License No.

 **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	CHRISMILL HOMES - HELMICK RES.	T34750258
4175511	T12	Roof Special	1	1	Job Reference (optional)	

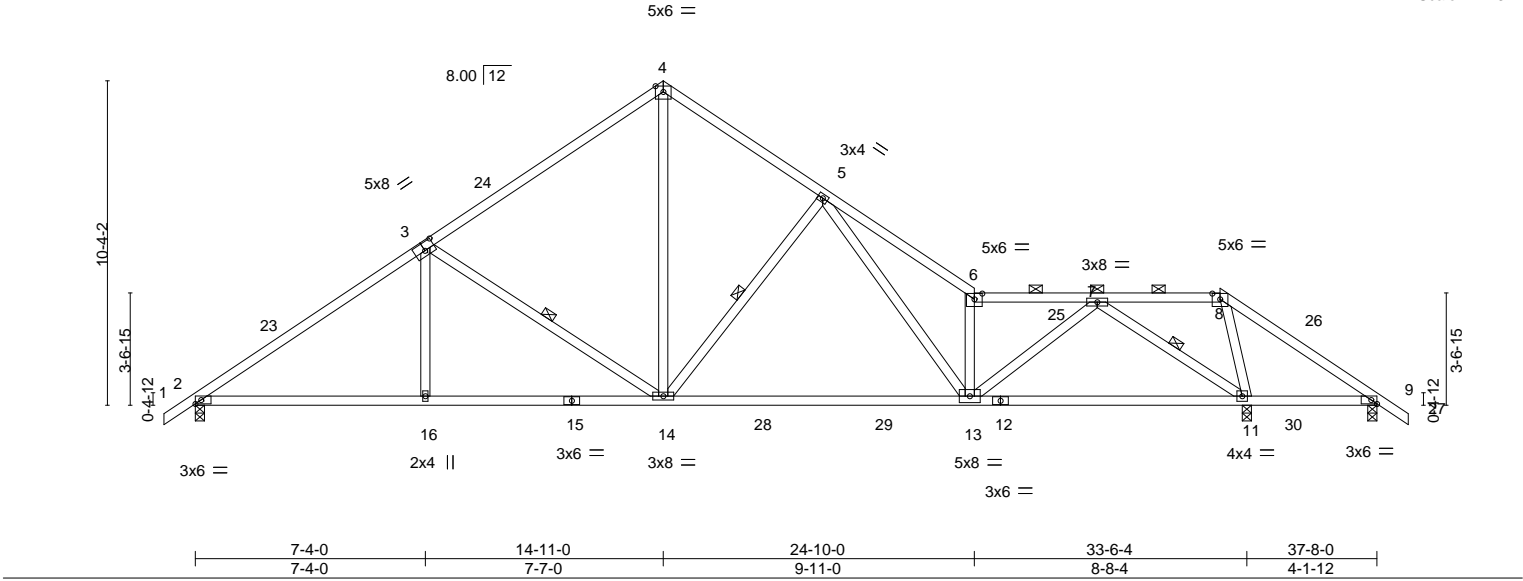
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:26 2024 Page 1

ID:NRxBSg5n1U8Rm10Po4KHkyolqO-8wq5VKm2aF5lQC5ChJEqo3jxMIVTjI0zYmhAcAyncxt

1-0-0 7-4-0 14-11-0 20-0-0 24-10-0 28-9-0 32-8-0 37-8-0 38-8-0
1-0-0 7-4-0 7-7-0 5-1-0 4-10-0 3-11-0 3-11-0 5-0-0 1-0-0

Scale = 1:73.4



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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750260
4175511	T14	Roof Special	1	1	Job Reference (optional)	

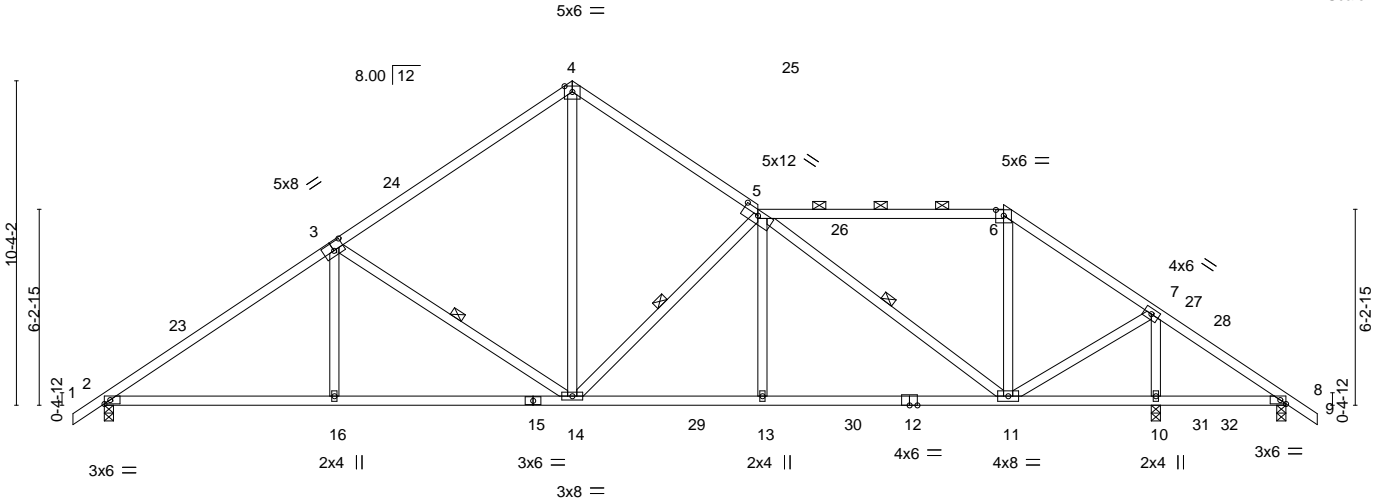
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:27 2024 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-c7OTigngLYDc2MgPF0i3LHF3HivzSCI6nQQj9dyncxs

1-0-0 7-4-0 14-11-0 20-10-0 28-8-0 33-6-4 37-8-0 38-8-0
1-0-0 7-4-0 7-7-0 5-11-0 7-10-0 4-10-4 4-1-12 1-0-0

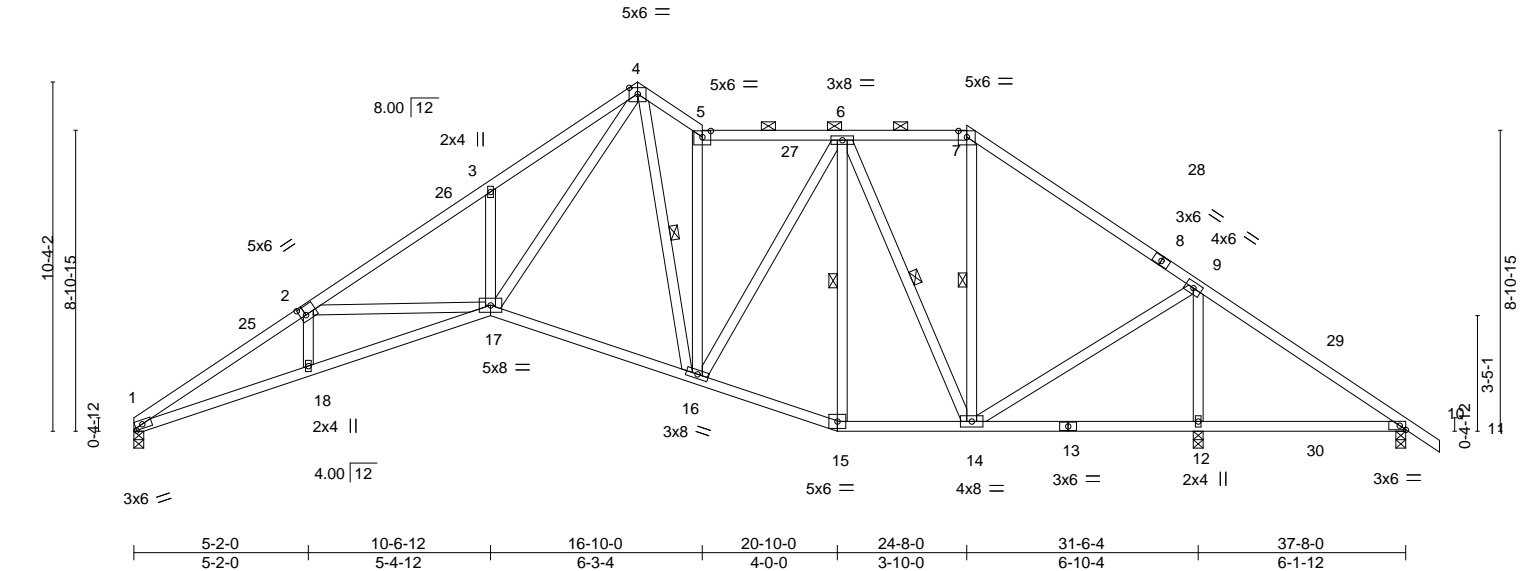
Scale = 1:73.4



Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750262
4175511	T16	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:29 2024 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-YVWE7MowtATKHggnNRnXQiLRkVbHw3_PEkvqDVyncxq
5-2-0 10-6-12 14-11-0 16-10-0 20-10-0 24-8-0 31-6-4 37-8-0 38-8-0
5-2-0 5-4-12 4-4-4 1-11-0 4-0-0 3-10-0 6-10-4 6-1-12 1-0-0

Scale = 1:68.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.19 17-18 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.37 17-18 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.21 12 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 243 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-0 oc purlins, except 2-0-0 oc purlins (5-9-13 max.): 5-7.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-7-7 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-16, 6-15, 6-14, 7-14

REACTIONS.	
(size)	1=0-3-8, 12=0-3-8, 10=0-3-8
Max Horz	1=-257(LC 8)
Max Uplift	1=-244(LC 12), 12=-465(LC 13), 10=-537(LC 19)
Max Grav	1=1026(LC 1), 12=2247(LC 1), 10=160(LC 12)

FORCES.		Review for Code Compliance	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		Universal Engineering Science	
TOP CHORD	1-2=-2857/768, 2-3=-2313/550, 3-4=-2310/712, 4-5=-1161/431, 5-6=-950/330, 6-7=-350/293, 7-9=-533/274, 9-10=-329/1267	PX2707 09/27/2024	
BOT CHORD	1-18=-761/2512, 17-18=-760/2535, 16-17=-187/948, 15-16=-126/667, 14-15=-119/619, 12-14=-961/314, 10-12=-961/314	Examiner-License No.	
WEBS	2-17=-512/313, 3-17=-321/255, 4-17=-586/1826, 4-16=-332/398, 5-16=-774/323, 6-16=-162/674, 6-14=-723/212, 9-14=-286/1514, 9-12=-2066/486		

- 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, 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=244, 12=465, 10=537.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

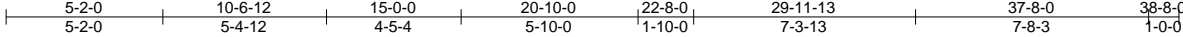
August 16,2024

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750263
4175511	T17	Hip	1	1	Job Reference (optional)	

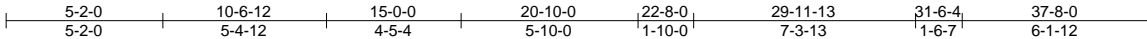
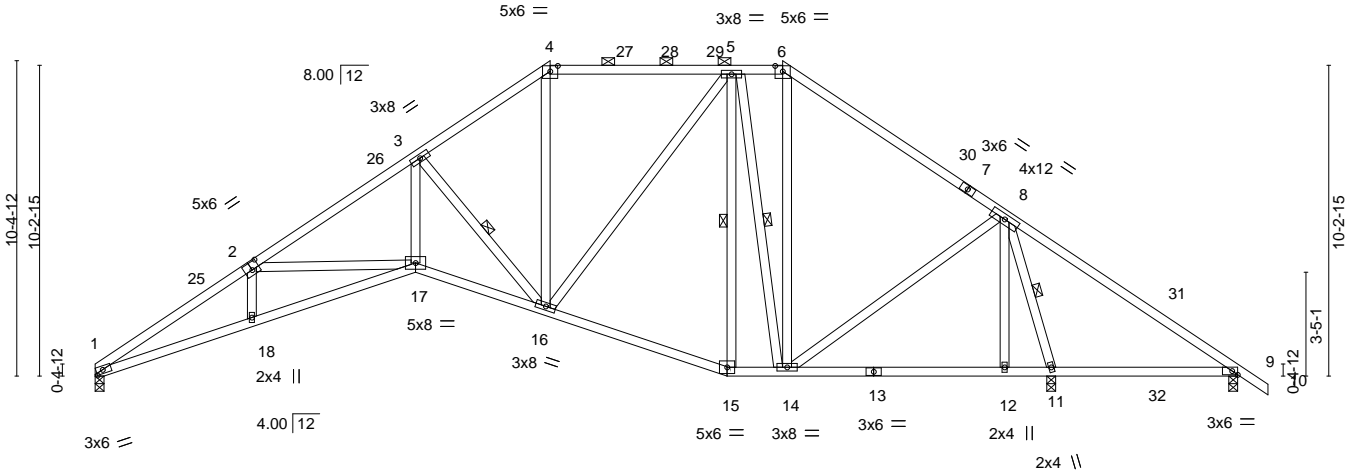
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:29 2024 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-YVWE7MowtATKHgqnNRnXQiLP_VbCw6tPEkvqDVyncxq



Scale = 1:76.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.19 17-18 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.37 17-18 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.22 11 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 247 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-2-8 oc purlins, except 2-0-0 oc purlins (5-4-6 max.): 4-6.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-0-15 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-16, 5-15, 5-14, 8-11

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz 1=-256(LC 8)
Max Uplift 1=-275(LC 12), 11=-492(LC 12), 9=-520(LC 25)
Max Grav 1=1042(LC 1), 11=2166(LC 1), 9=161(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2905/861, 2-3=-2360/658, 3-4=-1193/392, 4-5=-935/367, 5-6=-472/329, 6-8=-691/315, 8-9=-334/1216
BOT CHORD 1-18=-839/2479, 17-18=-841/2495, 16-17=-522/2014, 15-16=-109/627, 14-15=-99/576, 12-14=-430/191, 11-12=-430/191, 9-11=-907/329
WEBS 2-17=-511/301, 3-17=-407/1512, 3-16=-1495/546, 4-16=-96/382, 5-16=-195/625, 5-14=-682/283, 8-14=-249/976, 8-11=-2021/474



Review for Code Compliance
Universal Engineering Science

Lawrence Powell
Examiner-License No.

PX2707

09/27/2024

- 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.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=275, 11=492, 9=520.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

August 16,2024

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

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750265
4175511	T19	Piggyback Base	5	1	Job Reference (optional)	

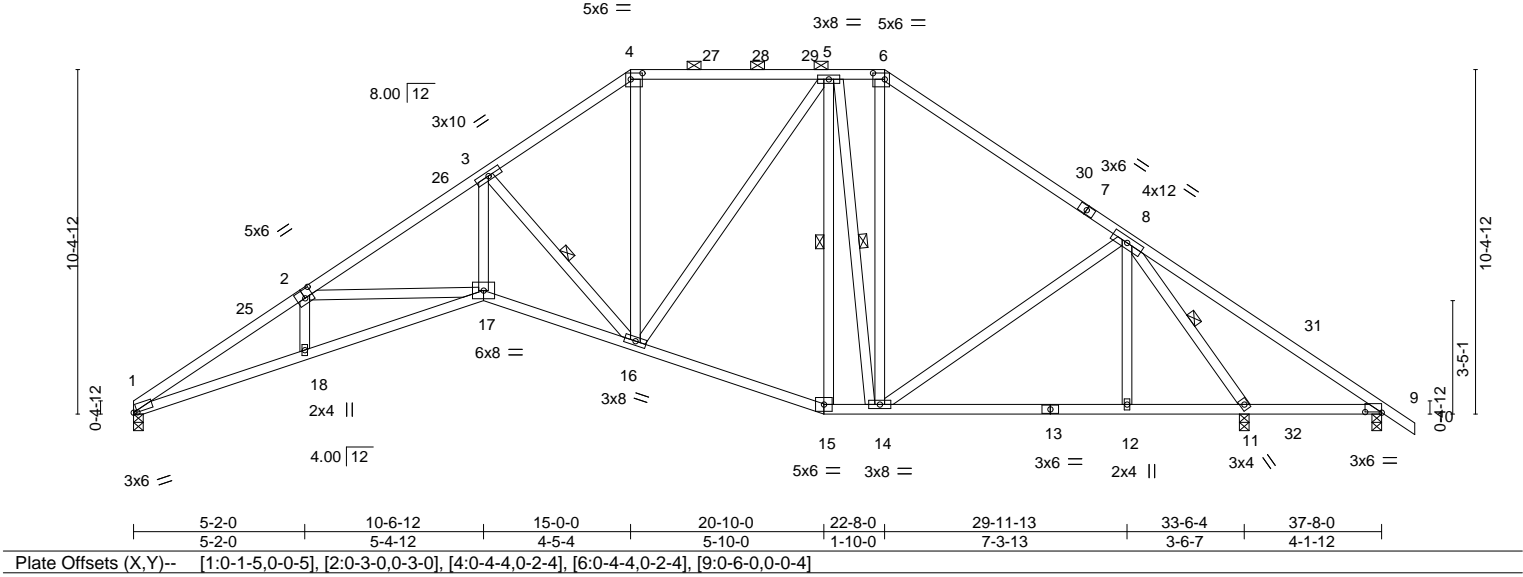
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:31 2024 Page 1

ID:NRxBBSg5n1U8Rm10Po4KHkyolqO-Uud_Y2qBPnj2Wz_AUsp?V7QmNJEgO?uih1OxI0yncxo



Scale = 1:69.5



LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	-0.22 17-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.44 17-18	>926	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.28 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-12 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-9-4 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-3-8 oc bracing.
	WEBS 1 Row at midpt 3-16, 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=-307(LC 12), 11=-445(LC 12), 9=-493(LC 25)
Max Grav 1=1175(LC 1), 11=2033(LC 1), 9=146(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3327/963, 2-3=-2816/768, 3-4=-1446/451, 4-5=-1148/418, 5-6=-780/373, 6-8=-1059/365, 8-9=-294/1133
BOT CHORD 1-18=-929/2844, 17-18=-932/2863, 16-17=-621/2416, 15-16=-137/906, 14-15=-126/843, 12-14=-92/494, 11-12=-92/494, 9-11=-841/296
WEBS 2-17=-483/293, 3-17=-466/1762, 3-16=-1729/605, 4-16=-121/506, 5-16=-180/575, 5-15=-261/55, 5-14=-538/272, 6-14=-123/388, 8-14=-193/502, 8-11=-2239/504

- 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 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.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=307, 11=445, 9=493.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Lawrence Powell
Examiner-License No.

PX2707 09/27/2024

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

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

August 16,2024

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

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

MiTek®

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

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


Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	T20	Hip Girder	1	2	T34750266

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

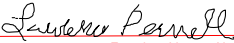
8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:33 2024 Page 2
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-QHllzkrRxOzmmH8YcHsTaYVCg7?hsvl?9Lt2MGyncxm

NOTES-
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 56 lb up at 7-0-0, 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 445 lb down and 269 lb up at 7-0-0, 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=-17(B) 17=-445(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=-162(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=-230(B) 39=-235(B)



Review for Code Compliance
Universal Engineering Science



PX2707 09/27/2024

Examiner-License No.

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

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

MiTek®

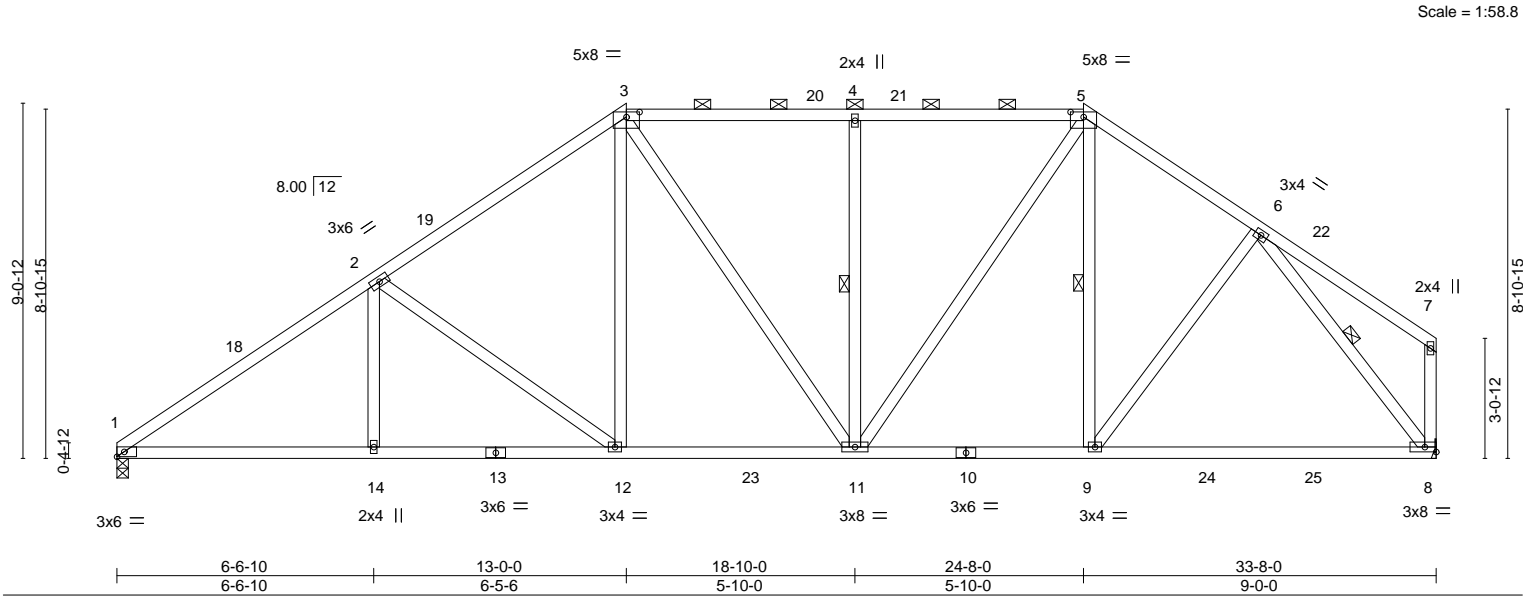
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750269
4175511	T23	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:34 2024 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-vTJ7A4s3ii5dNRil9_Ni7l2JlWgcbMn8O?dbuijncxl



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.24	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.41				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.07				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 216 lb FT = 20%			

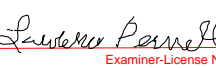
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-14 max.): 3-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-10-7 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-11, 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-	
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 0-0-0 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	
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
4) Provide adequate drainage to prevent water ponding.	
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	
7) Refer to girder(s) for truss to truss connections.	
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=331, 8=304.	
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 63014
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 16, 2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750270
4175511	T24	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:35 2024 Page 1
ID:NRxBsG5n1U8Rm10Po4KHkyolqO-NftVOPhT0DU?bHxjiuxfzaRZwcbKovHcfM9R9yncxk
5-2-0 10-6-12 15-0-0 20-10-0 22-8-0 29-11-13 37-8-0 38-8-0
5-2-0 5-4-12 4-5-4 5-10-0 1-10-0 7-3-13 7-8-3 1-0-0

Scale = 1:70.7

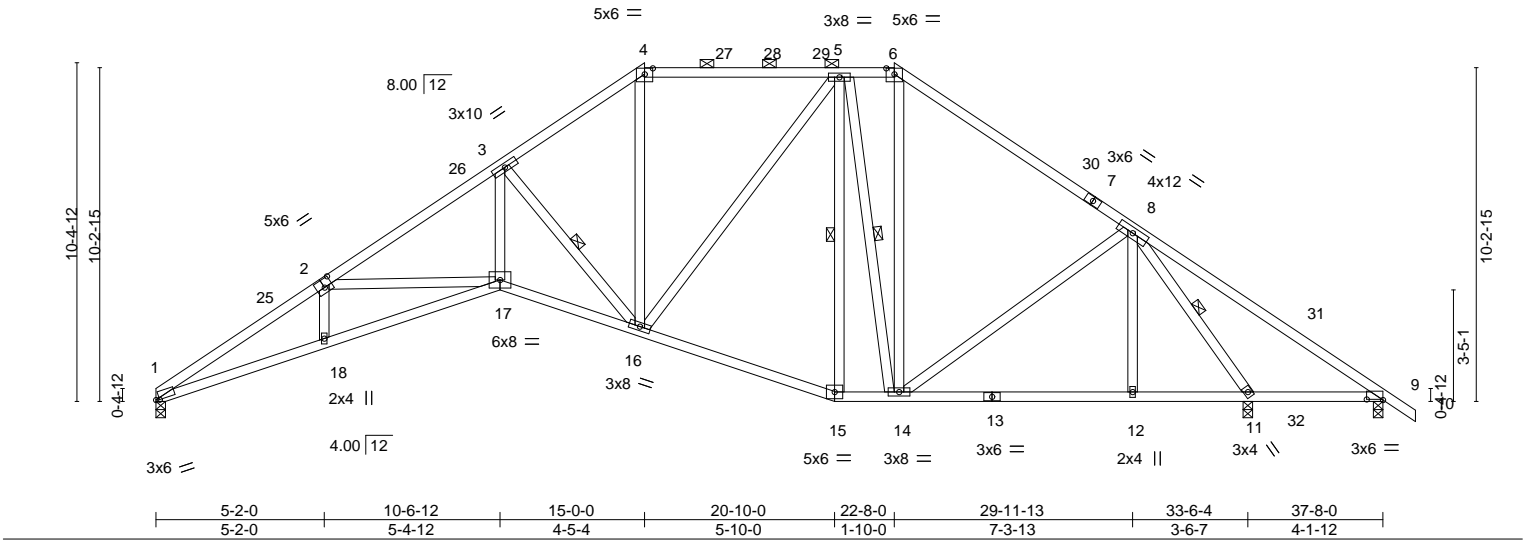


Plate Offsets (X,Y)--	[1:0-1-5,0-0-5], [2:0-3-0,0-3-0], [4:0-3-0,0-2-3], [6:0-3-0,0-2-3], [9:0-6-0,0-0-4]
-----------------------	---

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.81	Vert(LL)	-0.22 17-18	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.87	Vert(CT)	-0.43 17-18	>929	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.67	Horz(CT)	0.28 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS					Weight: 248 lb	FT = 20%
	Code FBC2023/TPI2014							

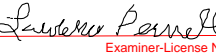
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-12 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-8-2 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-3-8 oc bracing.
	WEBS 1 Row at midpt 3-16, 5-15, 5-14, 8-11

REACTIONS.	(size) 1=0-3-8, 11=0-3-8, 9=0-3-8
	Max Horz 1=-256(LC 8)
	Max Uplift 1=-307(LC 12), 11=-442(LC 12), 9=-492(LC 25)
	Max Grav 1=1175(LC 1), 11=2028(LC 1), 9=144(LC 12)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-3329/964, 2-3=-2817/769, 3-4=-1491/464, 4-5=-1183/427, 5-6=-776/374, 6-8=-1056/369, 8-9=-291/1125
BOT CHORD	1-18=-927/2845, 17-18=-930/2864, 16-17=-619/2415, 15-16=-138/921, 14-15=-127/857, 12-14=-94/495, 11-12=-94/495, 9-11=-835/294
WEBS	2-17=-484/293, 3-17=-466/1758, 3-16=-1698/595, 4-16=-119/522, 5-16=-182/580, 5-14=-574/271, 6-14=-121/395, 8-14=-192/509, 8-11=-2230/501

- 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.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=307, 11=442, 9=492.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

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

August 16,2024

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

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

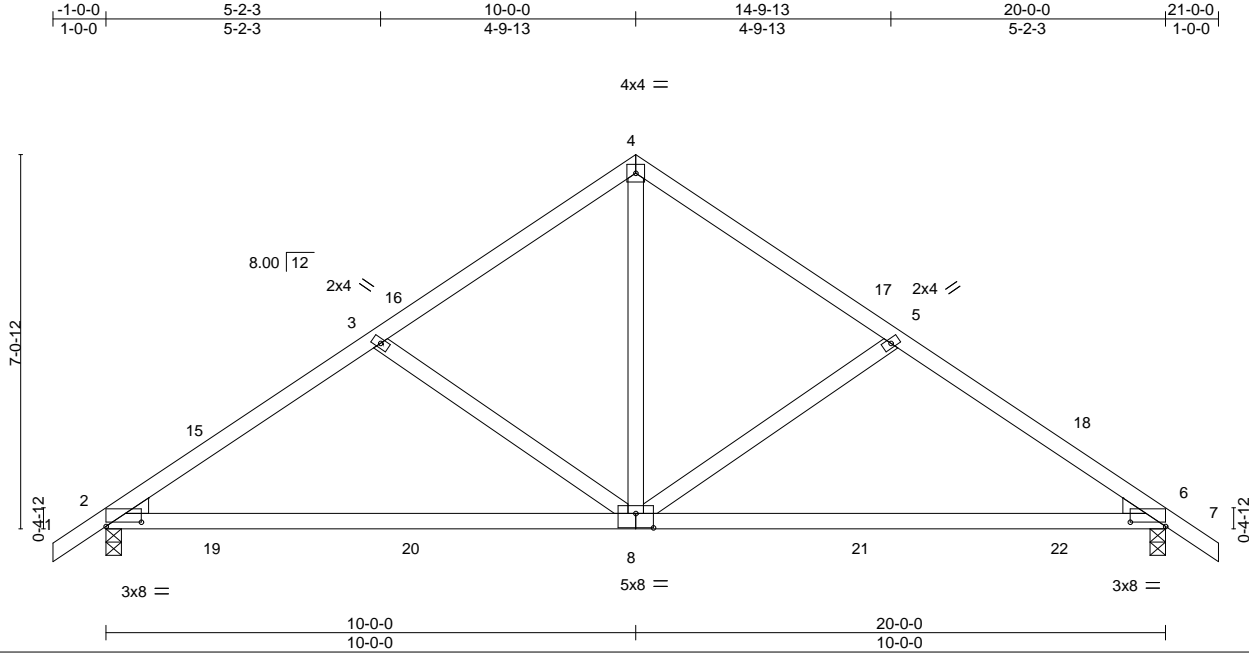
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750271
4175511	T25	Common	5	1	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:36 2024 Page 1

ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-rsRtbluJEJMLdls7HPPACA7i6KwO3KQRrJ6izbyncxj



Scale = 1:43.5

Plate Offsets (X,Y)-- [2:0-8-0,0-0-15], [6:0-8-0,0-0-15], [8:0-4-0,0-0-3-4]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	in (loc)	L/d
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(LL)	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Vert(CT)	-0.34
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Horz(CT)	0.02
						PLATES	
						GRIP	
						Weight: 98 lb	
						FT = 20%	

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=181(LC 10)
Max Uplift 2=207(LC 12), 6=207(LC 13)
Max Grav 2=794(LC 1), 6=794(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1015/491, 3-4=-784/451, 4-5=-784/451, 5-6=-1015/491
BOT CHORD 2-8=-337/816, 6-8=-348/816
WEBS 4-8=-385/572, 5-8=-298/227, 3-8=-297/227

- 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 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 21-0-0 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=207, 6=207.



Review for Code Compliance
Universal Engineering Science

Lawrence Parnell
Examiner-License No.

PX2707 09/27/2024

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

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750272
4175511	T25G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:36 2024 Page 1
ID: NKrxBSg5n1U8Rm10Po4KHkyolqO-rsRtbluJEJMLds7HPPACA7fuKyv3K1RrJ6izbyncxj

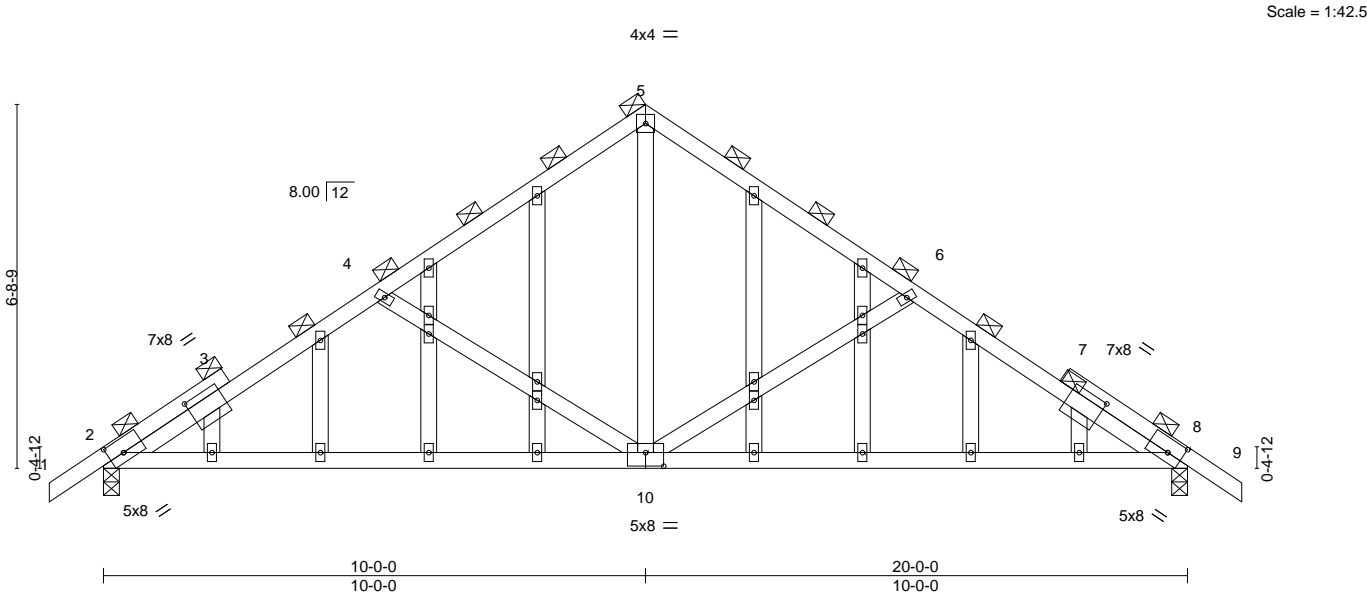


Plate Offsets (X,Y)--		[2:0-3-5,0-3-0], [8:0-3-5,0-3-0], [10:0-4-0,0-3-0], [20:1-5-3,0-1-8], [30:1-5-3,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.14 10-33	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.28 10-33	>847	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02 8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 134 lb	FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 8=0-3-8
	Max Horz 2=-173(LC 10)
	Max Uplift 2=-209(LC 12), 8=-209(LC 13)
	Max Grav 2=791(LC 1), 8=791(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1047/627, 4-5=-798/534, 5-6=-798/534, 6-8=-1047/627
BOT CHORD	2-10=-463/880, 8-10=-466/880
WEBS	5-10=-460/584, 6-10=-341/280, 4-10=-341/280

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 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
5) All plates are 2x4 MT20 unless otherwise indicated.	
6) Gable studs spaced at 2-0-0 oc.	
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.	
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 8=209.	
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

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

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

August 16,2024

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

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


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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750273
4175511	T26	Common	2	1	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:37 2024 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-J2?Fp5uy?dUCEuRKq7wPIOgspkNXor0a4zrFV1yncxi

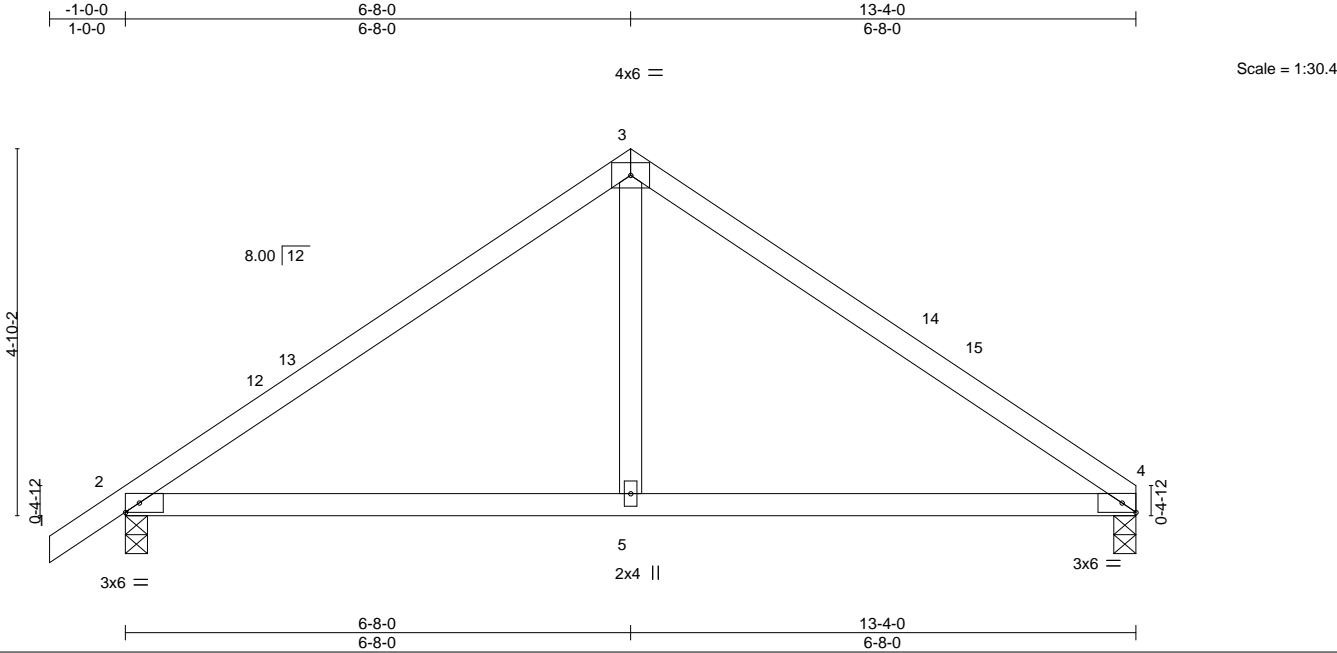


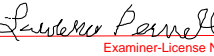
Plate Offsets (X,Y)-- [4:0-2-3,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.50	Vert(LL)	0.08 5-8 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.45	Vert(CT)	-0.12 5-8 >999	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.12	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

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

- 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.

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

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750274
4175511	T26G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:37 2024 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-J2?Fp5uy?dUCEuRKq7wPIQgyfkUuosEa4zrFV1yncxi

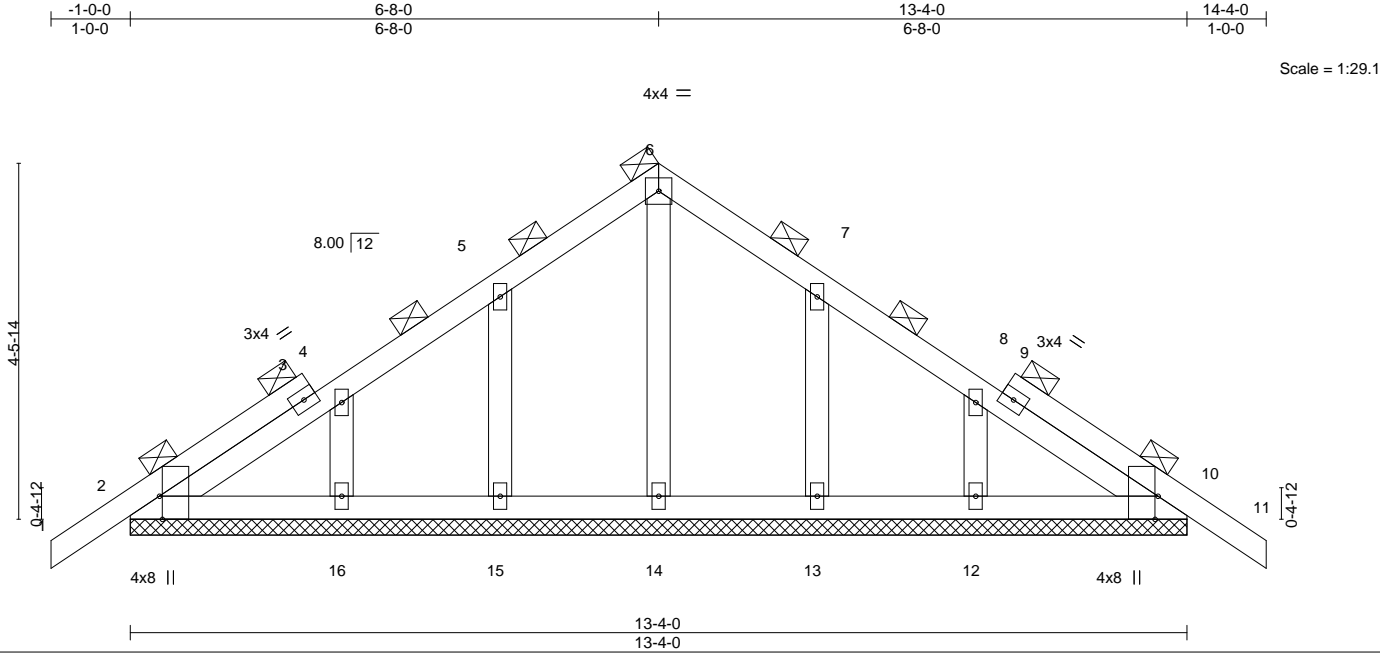


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [10:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06
TCDL 7.0	Lumber DOL	1.25	BC 0.05
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	I/defl	L/d
Vert(LL)	-0.00 10	n/r	120
Vert(CT)	-0.00 10	n/r	120
Horz(CT)	0.00 10	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 72 lb		FT = 20%	

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

REACTIONS. All bearings 13-4-0.
(lb) - Max Horz 2=118(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Review for Code Compliance
Universal Engineering Science

Lawrence Powell
Examiner-License No.

PX2707 09/27/2024

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

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

August 16,2024

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

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

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.	T34750275
4175511	T27	Common Girder	1	2	Job Reference (optional)	

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:38 2024 Page 1

ID:NRxBBSg5n1U8Rm10Po4KHkyolqO-nEZd0Rvamxc2s20WOqReHbC5t8nvX77klbpb1Uynxh



4x6 ||

Scale = 1:29.6

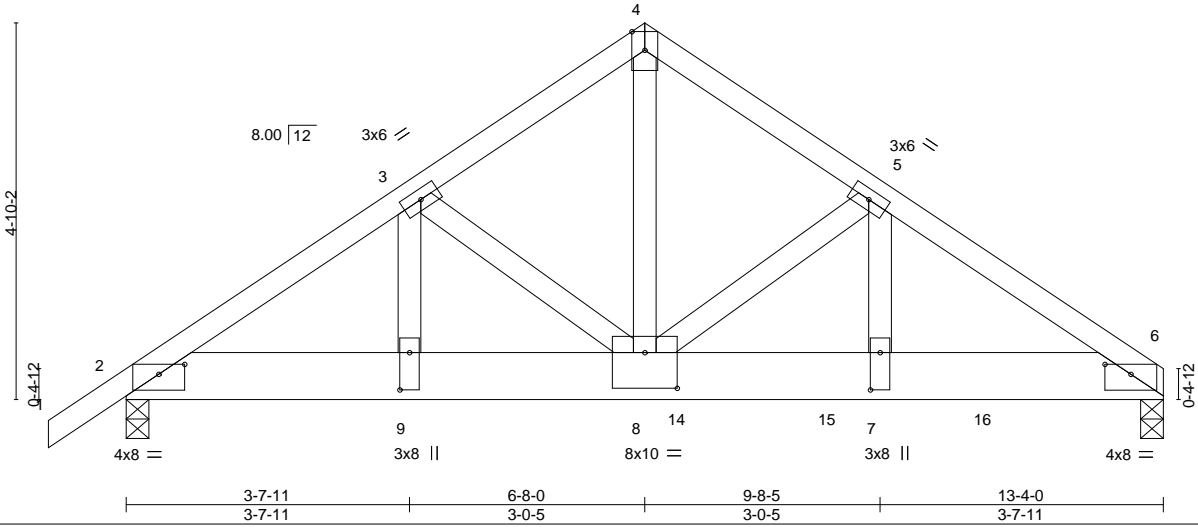


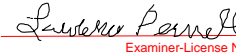
Plate Offsets (X,Y)-- [2:0-4-0,0-1-9], [6:0-4-0,0-1-9], [7:0-5-12,0-1-8], [8:0-5-0,0-5-8], [9:0-5-12,0-1-8]						
LOADING (psf)		SPACING-		CSI.	DEFL.	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC 0.23	in (loc) l/defl L/d	GRIP
TCDL	7.0	Lumber DOL	1.25	BC 0.25	Vert(LL) -0.05 7-8 >999 240	MT20 244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.83	Vert(CT) -0.09 7-8 >999 180	
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS	Horz(CT) 0.02 6 n/a n/a	
						Weight: 178 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-10 oc purlins.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=121(LC 26)
Max Uplift 6=1624(LC 9), 2=929(LC 8)
Max Grav 6=5211(LC 2), 2=2487(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4082/1532, 3-4=-4150/1628, 4-5=-4148/1627, 5-6=-6115/2161
BOT CHORD 2-9=-1286/3357, 8-9=-1286/3357, 7-8=-1745/5062, 6-7=-1745/5062
WEBS 4-8=-1713/4367, 5-8=-2184/675, 5-7=-631/2375, 3-8=-280/298

 Review for Code Compliance
Universal Engineering Science

 PX2707 09/27/2024
Examiner-License No.

- 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=1624, 2=929.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2879 lb down and 1359 lb up at 7-1-9, 1361 lb down and 333 lb up at 9-0-12, and 1366 lb down and 328 lb up at 11-0-12, and 1399 lb down and 316 lb up at 13-4-0 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, 4-6=-54, 2-6=-20

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

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

August 16,2024

Continued on page 2

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

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


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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	T27	Common Girder	1	2	T34750275

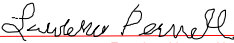
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:38 2024 Page 2
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-nEZd0Rvamxc2s20WOqReHbC5t8nvX77klbpb1Uyncxh

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-1228(F) 14=-2879(F) 15=-1219(F) 16=-1219(F)



Review for Code Compliance
Universal Engineering Science



PX2707 09/27/2024

Examiner-License No.

 **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)

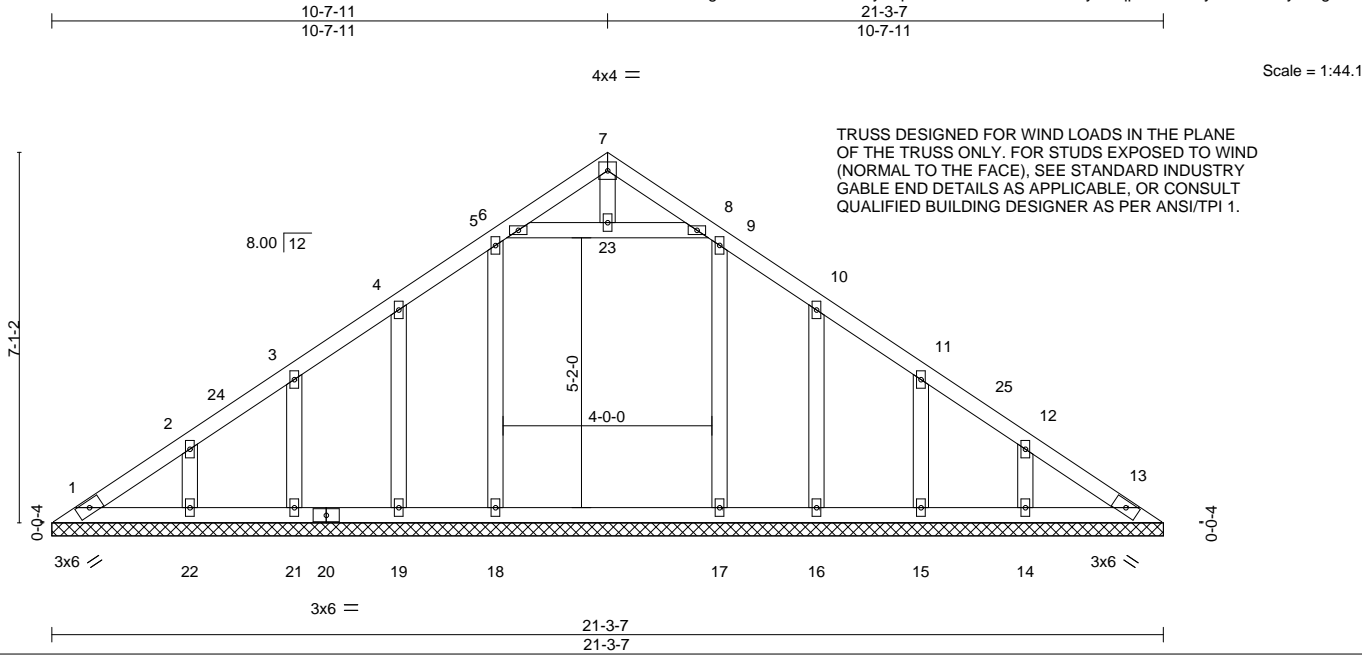
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	CHRISMILL HOMES - HELMICK RES.
4175511	V01	GABLE	1	1	T34750276

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 11:21:39 2024 Page 1
ID:NKrxBSg5n1U8Rm10Po4KHkyolqO-FQ60EnwCXEkvUCbiyXztqplJJX8aGlytXHKMawyncxg



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
								Weight: 113 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		
OTHERS	2x4 SP No.3		

REACTIONS.		FORCES.	
All bearings 21-3-7.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
(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			

NOTES-		FORCES.	
1) Unbalanced roof live loads have been considered for this design.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
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 0-5-12 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			
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) All plates are 2x4 MT20 unless otherwise indicated.			
5) Gable requires continuous bottom chord bearing.			
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.			
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 18, 19, 21, 22, 16, 15, 14.			

Review for Code Compliance
Universal Engineering Science

Signature: *Philip J. O'Regan*
Examiner-License No. PX2707
Date: 09/27/2024

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

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

August 16,2024

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

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

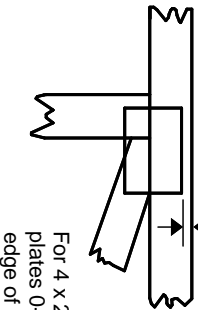
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

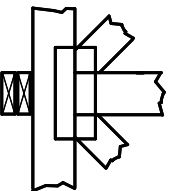
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



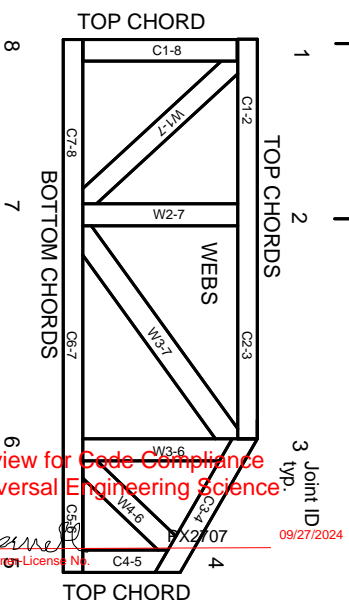
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

© 2023 MITek® All Rights Reserved

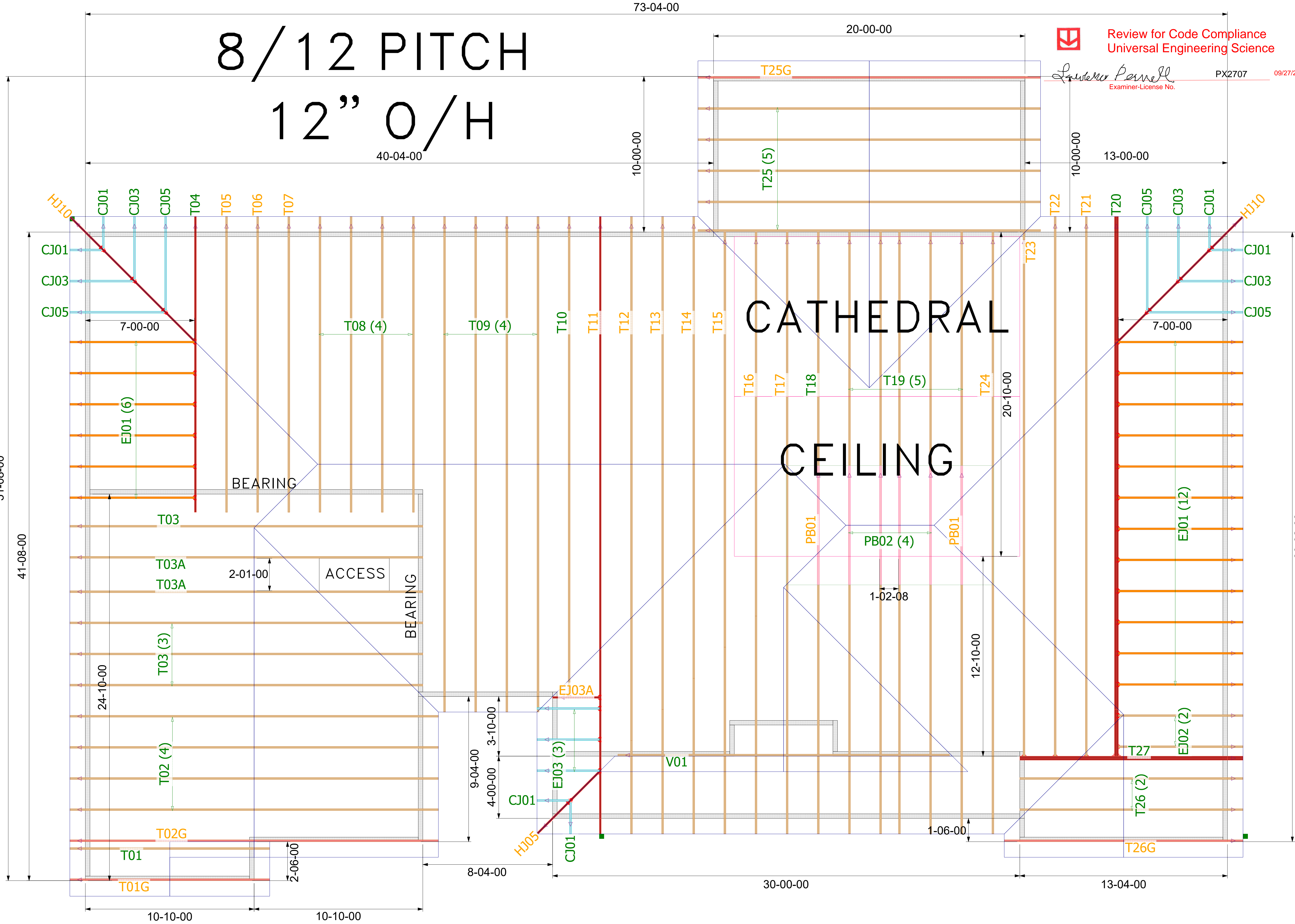
MITek®

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



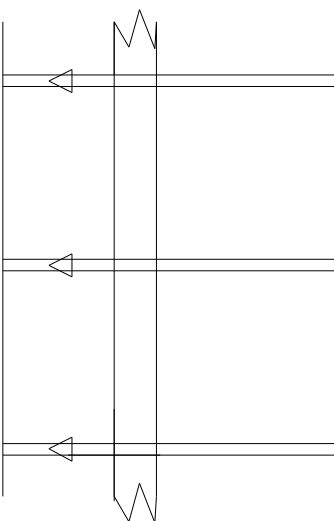
Review for Code Compliance
Universal Engineering Science

Lester Parnell
Examiner-License No.

PX2707

09/27/2024

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



General Notes:

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

Notes:

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

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

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

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

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

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

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

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

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



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

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

Tallahassee
PHONE: 850-576-5177

Builder: **CHRISMILL HOMES**

Legal Address: **Helmick Res.**

Model: **Custom**

Date:	Drawn By:	Original Ref #:
8-13-24	KLH	4175511
Floor 1 Job#	Floor 2 Job#:	Roof Job #:
N/A	N/A	4175511