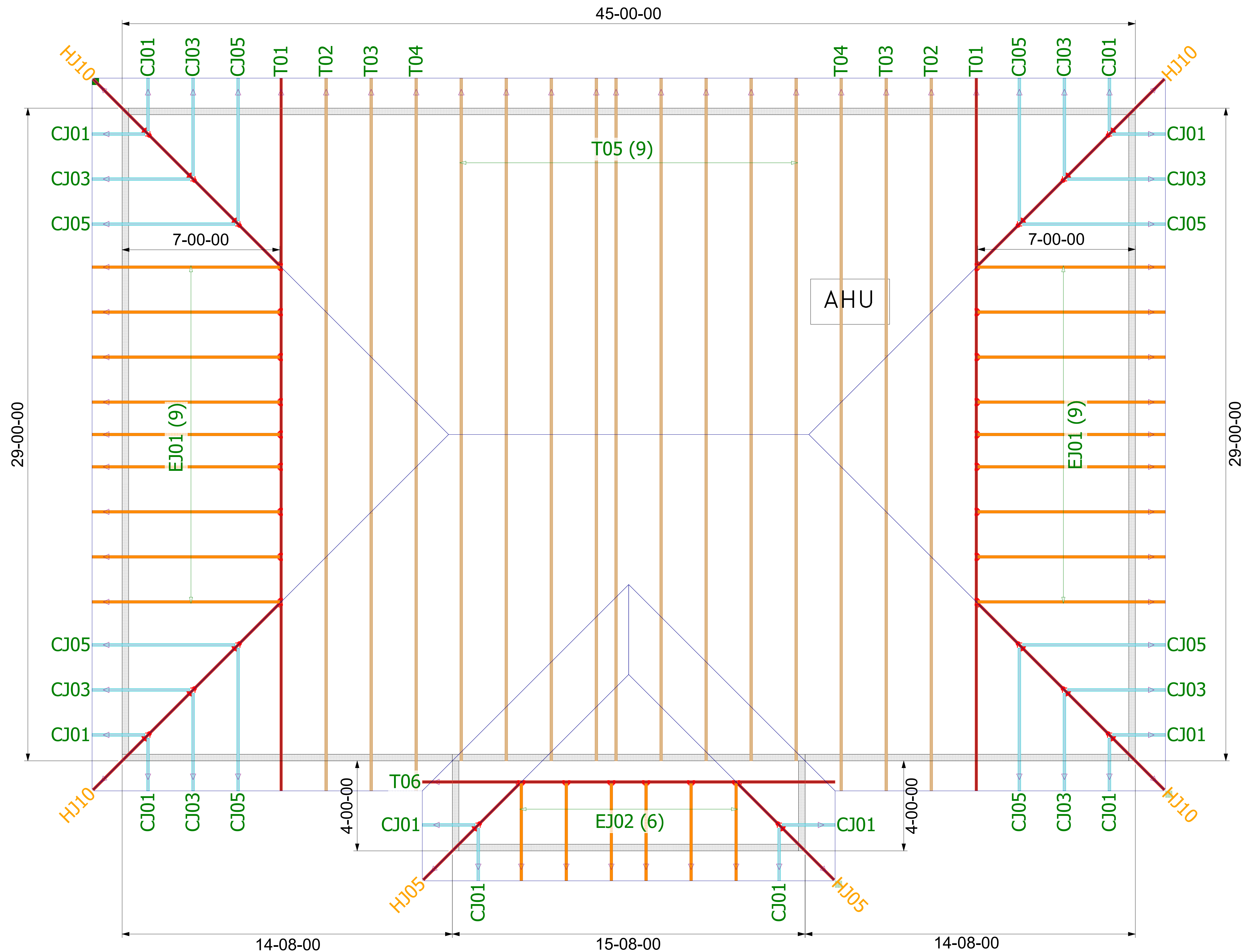
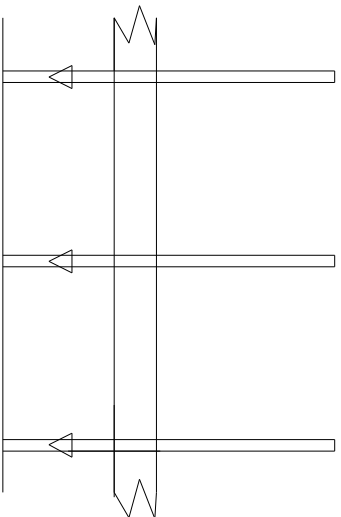


# 8/12 PITCH – 16” OH



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:

**HARTLEY BROTHERS**

## Legal Address:

**Lominack-Puig Res.**

## Model:

**Custom**

## Date:

**8-7-24**

## Drawn By:

**KLH**

## Original Ref #:

**4152011**

## Floor 1 Job#

**N/A**

## Floor 2 Job#:

**N/A**

## Roof Job #:

**4152011**



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

RE: 4152011 - HARTLEY = LOMINACK-PUIG RES.

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

**Site Information:**

Customer Info: HARTLEY BROTHERS Project Name: Lominack-Puig Res. Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: TBD, TBD  
City: Columbia Cty State: FL

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

Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7  
Wind Code: ASCE 7-22 Wind Speed: 130 mph  
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 13 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.

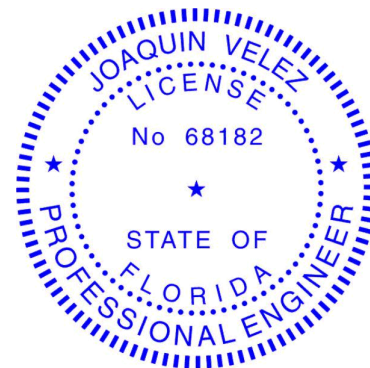
No.	Seal#	Truss Name	Date
1	T34801398	CJ01	8/22/24
2	T34801399	CJ03	8/22/24
3	T34801400	CJ05	8/22/24
4	T34801401	EJ01	8/22/24
5	T34801402	EJ02	8/22/24
6	T34801403	HJ05	8/22/24
7	T34801404	HJ10	8/22/24
8	T34801405	T01	8/22/24
9	T34801406	T02	8/22/24
10	T34801407	T03	8/22/24
11	T34801408	T04	8/22/24
12	T34801409	T05	8/22/24
13	T34801410	T06	8/22/24

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

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

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



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

August 22,2024

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	HARTLEY = LOMINACK-PUIG RES.
4152011	CJ01	Jack-Open	12	1	T34801398

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:26 2024 Page 1  
ID:KTGGBIQg0CU2lyF5gJEiUyqKJ2-CB98390Met3yn6dMk3rA5DEmN\_gtX\_iQ798BSCylbvr

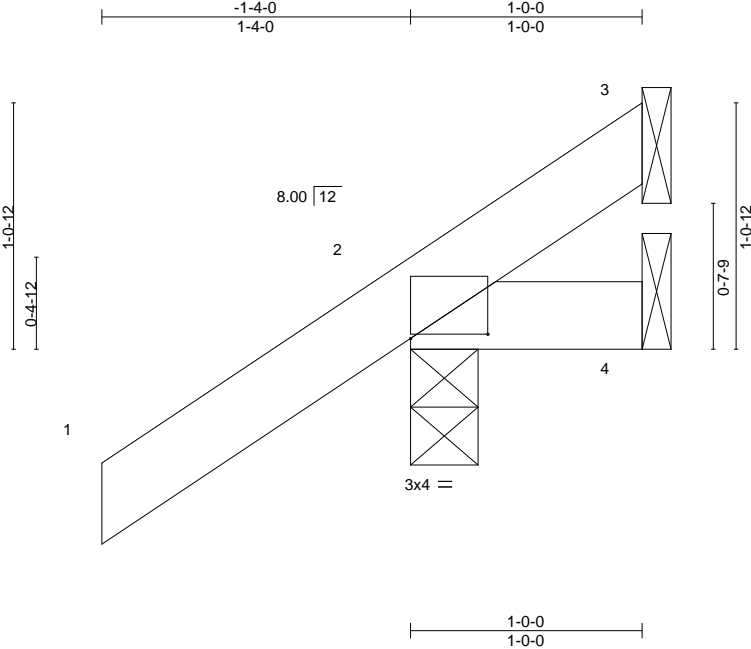


Plate Offsets (X,Y)--		[2:0-4-0,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24
TCDL 7.0	Lumber DOL	1.25	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MP
DEFL.	in (loc)	I/defl	L/d
Vert(LL)	-0.00	7	>999
Vert(CT)	0.00	7	>999
Horz(CT)	0.00	2	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 6 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=71(LC 12)  
Max Uplift 3=-6(LC 9), 2=-95(LC 12), 4=-18(LC 19)  
Max Grav 3=7(LC 8), 2=157(LC 1), 4=24(LC 16)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 95 lb uplift at joint 2 and 18 lb uplift at joint 4.

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

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

August 22,2024

**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	HARTLEY = LOMINACK-PUIG RES.	T34801399
4152011	CJ03	Jack-Open	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:26 2024 Page 1  
ID:kTGGBIQg0CU2lyFI5gJEiUyqKJ2-CB98390Met3yn6dMk3rA5DEmN\_fQX\_iQ798BSCylbVr

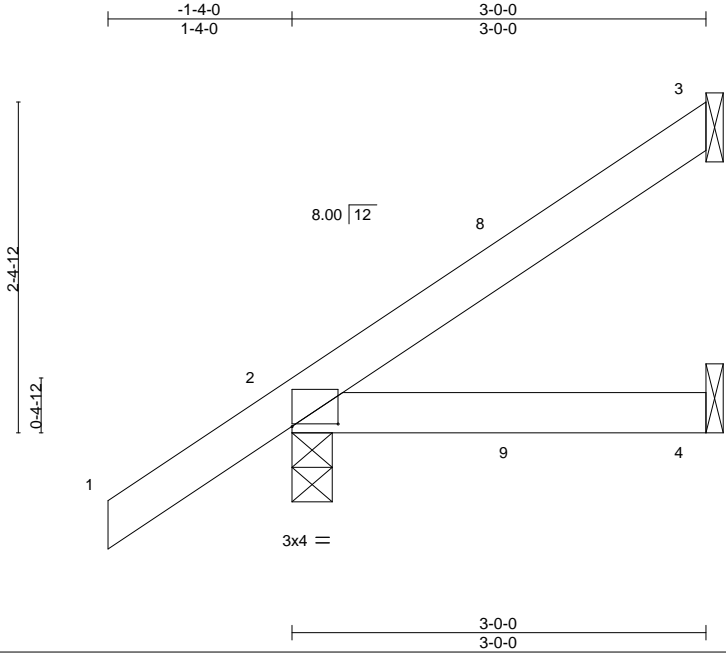


Plate Offsets (X,Y)--		[2:0-4-0,0-0-3]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) 0.01 4-7 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.09	Vert(CT) -0.01 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 12 lb	FT = 20%

LUMBER-	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=135(LC 12)  
Max Uplift 3=-69(LC 12), 2=-78(LC 12), 4=-28(LC 9)  
Max Grav 3=70(LC 19), 2=197(LC 1), 4=51(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 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 69 lb uplift at joint 3, 78 lb uplift at joint 2 and 28 lb uplift at joint 4.

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

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

August 22,2024

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

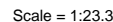
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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. Wed Aug 21 14:10:27 2024 Page 1  
ID:kTGGBIQg0CU2lyF5gJEiUyqKJ2-gNjXHv1\_PBBpPGCZlMnPeQntXOxRGRyaMptk?eylbrQ



<b>LUMBER-</b>		<b>BRACING-</b>	
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.

**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 C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 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 126 lb uplift at joint 3, 85 lb uplift at joint 2 and 9 lb uplift at joint 4.

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

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

August 22, 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](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Components Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

MiTek®

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



Job	Truss	Truss Type	Qty	Ply	HARTLEY = LOMINACK-PUIG RES.
4152011	EJ02	Jack-Partial	6	1	T34801402

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:28 2024 Page 1  
ID:kTGGBIQg0CU2lyFI5gJEiUyqKJ2-8aGvUr2cAVJf1QnlsUueAeK6tnLu?uCjbTdlX4yIbvP

-1-4-0  
1-4-0  
3-0-0  
3-0-0

Scale = 1:16.7

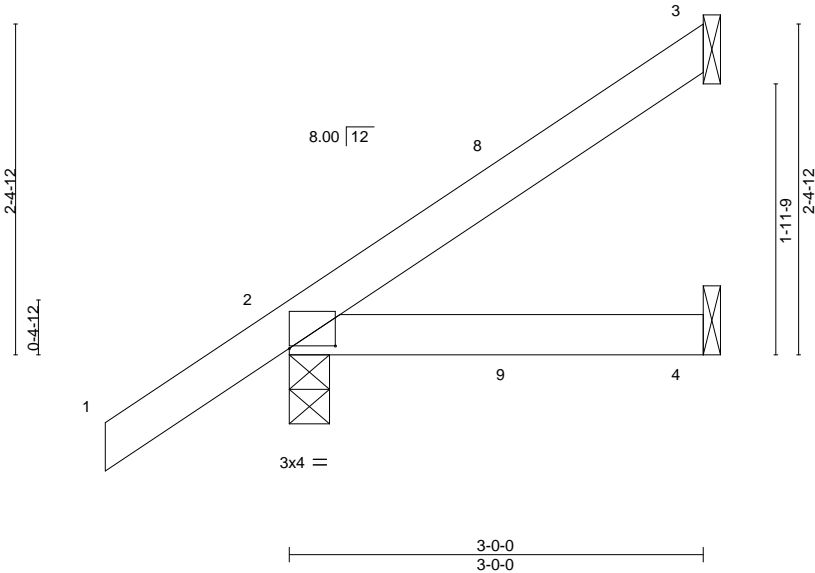


Plate Offsets (X,Y)--		[2:0-4-0,0-0-3]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 12 lb FT = 20%		

LUMBER-	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=135(LC 12)  
Max Uplift 3=-69(LC 12), 2=-78(LC 12), 4=-28(LC 9)  
Max Grav 3=70(LC 19), 2=197(LC 1), 4=51(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 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 69 lb uplift at joint 3, 78 lb uplift at joint 2 and 28 lb uplift at joint 4.

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

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

August 22,2024

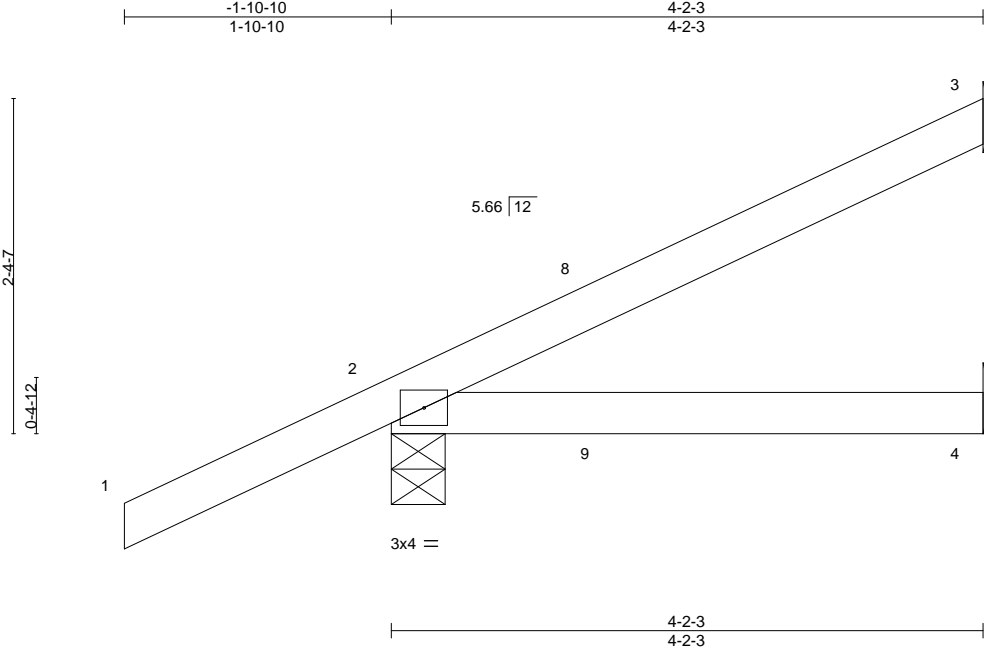
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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	HARTLEY = LOMINACK-PUIG RES.	T34801403
4152011	HJ05	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:28 2024 Page 1  
ID:kTGGBIQg0CU2lyFI5gJEiUyqKJ2-8aGvUr2cAVJf1QnlsUueAeK6tnJ7?uCjbTdlX4yIbvP



Scale = 1:16.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) -0.02	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.20	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=135(LC 8)  
Max Uplift 3=-86(LC 8), 2=-163(LC 8), 4=-43(LC 5)  
Max Grav 3=84(LC 21), 2=258(LC 21), 4=72(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 C; 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 86 lb uplift at joint 3, 163 lb uplift at joint 2 and 43 lb uplift at joint 4.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 57 lb up at 1-6-1, and 85 lb down and 57 lb up at 1-6-1 on top chord, and 56 lb down and 50 lb up at 1-6-1, and 56 lb down and 50 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: 8=115(F=57, B=57)

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

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

August 22,2024

**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	HARTLEY = LOMINACK-PUIG RES.	T34801405
4152011	T01	Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:30 2024 Page 1  
ID:KTGGBIQg0CU2lyFI5gJEiUyqKJ2-4yOfvX3si6ZNGkx8zuw6G3PLDb\_hTZF02n6PbzyIbvN  
1-4-0 3-11-4 7-0-0 12-1-12 16-10-5 22-0-0 25-0-12 29-0-0 30-4-0  
1-4-0 3-11-4 3-0-12 5-1-11 4-8-9 5-1-12 3-0-12 3-11-4 1-4-0  
Scale = 1:51.6

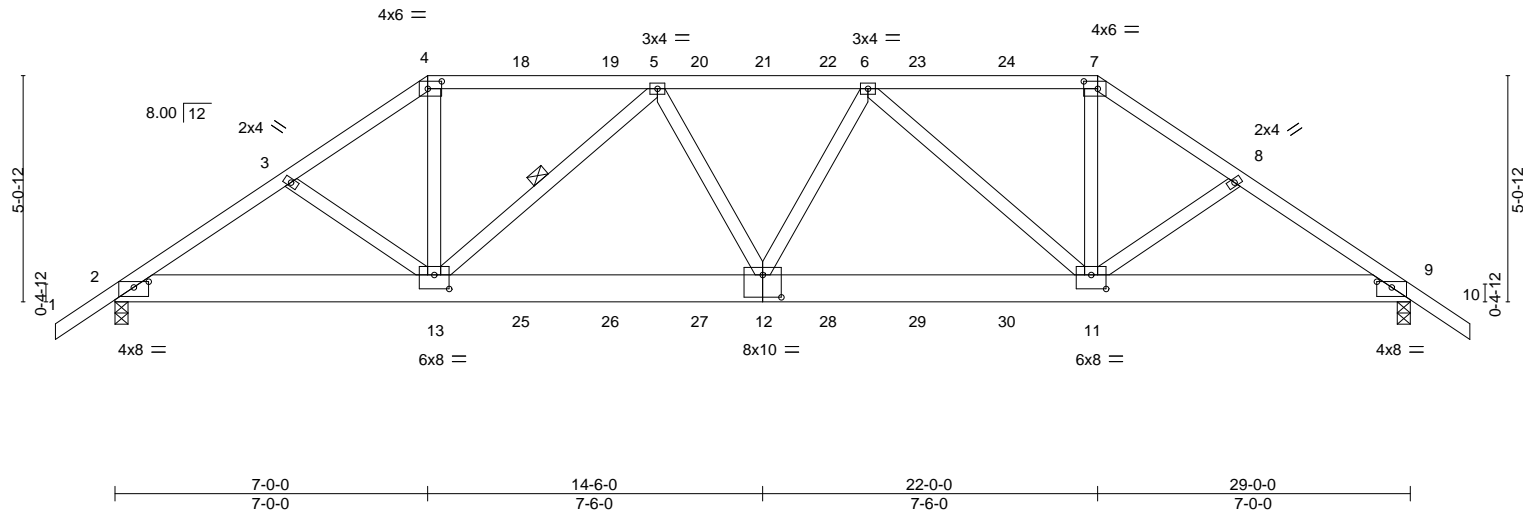


Plate Offsets (X,Y)--		[2:0-4-0,0-1-9], [4:0-3-12,0-2-0], [7:0-3-12,0-2-0], [9:0-4-0,0-1-9], [11:0-4-0,0-3-12], [12:0-5-0,0-6-0], [13:0-4-0,0-3-12]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.70		Vert(LL)	0.24 12-13	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.26		Vert(CT)	-0.28 11-12	>999	180		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.99		Horz(CT)	0.06 9	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 199 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 7-5-13 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-13

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8  
Max Horz 2=178(LC 7)  
Max Uplift 2=1414(LC 8), 9=1448(LC 9)  
Max Grav 2=2216(LC 1), 9=2252(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3659/2397, 3-4=-3512/2354, 4-5=-2940/2037, 5-6=-4019/2698, 6-7=-2992/2083,  
7-8=-3576/2412, 8-9=-3723/2455  
BOT CHORD 2-13=-1991/3031, 12-13=-2500/3787, 11-12=-2493/3804, 9-11=-1919/3055  
WEBS 4-13=-1091/1689, 5-13=-1197/883, 5-12=-341/587, 6-12=-290/535, 6-11=-1139/808,  
7-11=-1044/1655

- 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 C; 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 1414 lb uplift at joint 2 and 1448 lb uplift at joint 9.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 73 lb up at 7-0-0, 92 lb down and 70 lb up at 9-0-12, 92 lb down and 70 lb up at 11-0-12, 92 lb down and 70 lb up at 13-0-12, 92 lb down and 68 lb up at 14-6-0, 92 lb down and 70 lb up at 15-11-4, 92 lb down and 70 lb up at 17-11-4, and 92 lb down and 70 lb up at 19-11-4, and 247 lb down and 219 lb up at 22-0-0 on top chord, and 449 lb down and 387 lb up at 7-0-0, 168 lb down and 123 lb up at 9-0-12, 168 lb down and 123 lb up at 11-0-12, 168 lb down and 123 lb up at 13-0-12, 168 lb down and 123 lb up at 14-6-0, 168 lb down and 123 lb up at 15-11-4, 168 lb down and 123 lb up at 17-11-4, and 168 lb down and 123 lb up at 19-11-4, and 449 lb down and 387 lb up at 21-11-4 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).

**LOAD CASE(S)** Standard

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

Job	Truss	Truss Type	Qty	Ply	HARTLEY = LOMINACK-PUIG RES.
4152011	T01	Hip Girder	2	1	T34801405
Job Reference (optional)					

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

8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:30 2024 Page 2  
ID:kTGGBIQg0CU2lyFI5gJEiUyqKJ2-4yOfvX3si6ZNGkx8zuw6G3PLDb\_hTZF02n6PbzyIbvN

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, 7-10=-54, 2-9=-20
- Concentrated Loads (lb)  
Vert: 4=-18(F) 7=-87(F) 12=-158(F) 13=-422(F) 11=-422(F) 18=-18(F) 19=-18(F) 20=-18(F) 21=-18(F) 22=-18(F) 23=-18(F) 24=-18(F) 25=-158(F) 26=-158(F)  
27=-158(F) 28=-158(F) 29=-158(F) 30=-158(F)

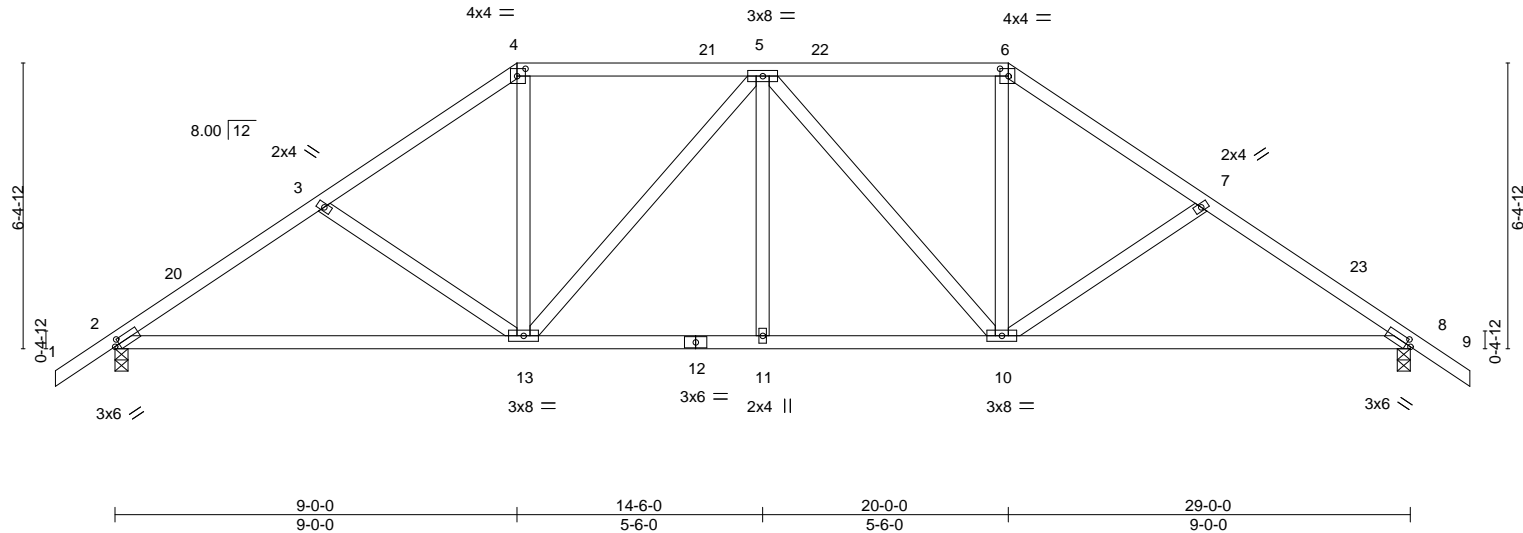
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	HARTLEY = LOMINACK-PUIG RES.	T34801406
4152011	T02	Hip	2	1	Job Reference (optional)	



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.15 10-19 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.31 10-19 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 161 lb		FT = 20%	

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-8 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-10-5 oc bracing.
WEBS	2x4 SP No.3		

<b>REACTIONS.</b>	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=-220(LC 10)
Max Uplift	2=-468(LC 12), 8=-468(LC 13)
Max Grav	2=1145(LC 1), 8=1145(LC 1)

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1611/648, 3-4=-1405/570, 4-5=-1117/537, 5-6=-1117/537, 6-7=-1405/570, 7-8=-1611/648
BOT CHORD	2-13=-563/1310, 11-13=-428/1295, 10-11=-428/1295, 8-10=-415/1310
WEBS	3-13=-304/263, 4-13=-173/505, 5-13=-348/253, 5-10=-348/252, 6-10=-172/505, 7-10=-305/264

- 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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 20-0-0, Zone2 20-0-0 to 24-5-6, Zone1 24-5-6 to 30-4-0 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.
  - 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 468 lb uplift at joint 2 and 468 lb uplift at joint 8.

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

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

August 22,2024

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:31 2024 Page 1  
ID:kTGGBIQg0CU2lyFl5gJEIYqKJ2-Y9y16s4UTQhEuuWKXcRLoGwW7?GAC979HRy8PylbvM  
-1-4-0 5-8-3 11-0-0 18-0-0 23-3-13 29-0-0 30-4-0  
1-4-0 5-8-3 5-3-13 7-0-0 5-3-13 5-8-3 1-4-0



<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-10-9 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt                      4-10

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

TOP CHORD	2-3=1778/609, 3-4=1405/531, 4-5=1110/512, 5-6=1393/531, 6-7=1768/610
BOT CHORD	2-13=543/1533, 12-13=543/1533, 10-12=287/1121, 9-10=366/1422, 7-9=366/1422
WEBS	3-12=518/318, 4-12=143/559, 5-10=126/505, 6-10=520/318

**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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 18-0-0, Zone2 18-0-0 to 22-2-15, Zone1 22-2-15 to 30-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 2 and 461 lb uplift at joint 7.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here.

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

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

August 22, 2024



Job	Truss	Truss Type	Qty	Ply	HARTLEY = LOMINACK-PUIG RES.	T34801408
4152011	T04	Hip	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:32 2024 Page 1  
ID:kTGGBIQg0CU2lyFI5gJEiUyqKJ2-0LWQKC57Ejp5V15W5JyaLUUkrPb9xYhJW5bVgrylbyL

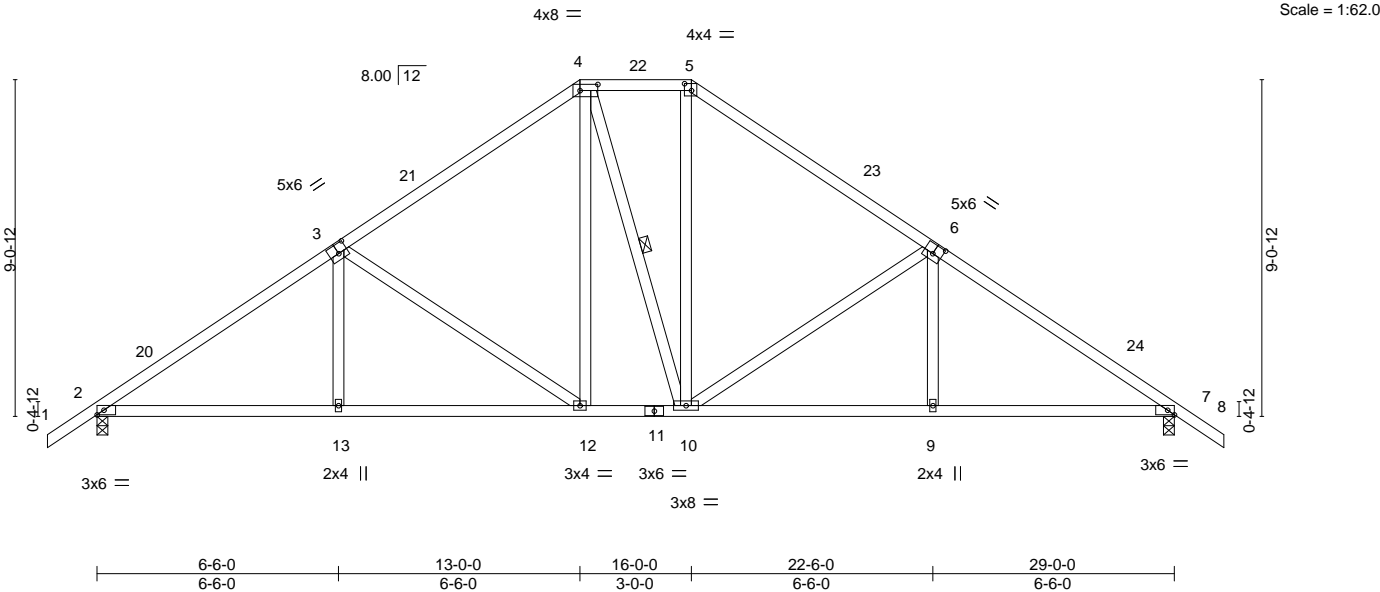


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [4:0-5-12,0-2-0], [5:0-2-4,0-2-4], [6:0-3-0,0-3-0], [7:0-2-3,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49
TCDL 7.0	Lumber DOL	1.25	BC 0.52
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.07 12-13 >999 240
			Vert(CT) -0.15 12-13 >999 180
			Horz(CT) 0.05 7 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 173 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10

REACTIONS.	(size) 2=0-3-8, 7=0-3-8
	Max Horz 2=-305(LC 10)
	Max Uplift 2=-453(LC 12), 7=-453(LC 13)
	Max Grav 2=1145(LC 1), 7=1145(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1626/588, 3-4=-1171/505, 4-5=-887/489, 5-6=-1172/499, 6-7=-1626/589
BOT CHORD	2-13=-546/1315, 12-13=-546/1317, 10-12=-219/886, 9-10=-353/1290, 7-9=-354/1288
WEBS	3-13=0/284, 3-12=-561/393, 4-12=-180/386, 5-10=-182/381, 6-10=-559/393, 6-9=0/283

- 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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-0-0, Zone3 13-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 30-4-0 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.
  - 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 453 lb uplift at joint 2 and 453 lb uplift at joint 7.

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

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

August 22,2024

**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	HARTLEY = LOMINACK-PUIG RES.	T34801409
4152011	T05	Common	9	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jul 24 2024 MiTek Industries, Inc. Wed Aug 21 14:10:32 2024 Page 1  
ID:KTGGBIQg0CU2IyF5gJEiUyqKJ2-0LWQKC57Ejp5V15W5JyaLUUeHPX4xdVJW5bVgrylvL  
1-4-0 7-0-0 14-6-0 22-0-0 29-0-0  
1-4-0 7-0-0 7-6-0 7-6-0 7-0-0  
4x6 || Scale = 1:58.7

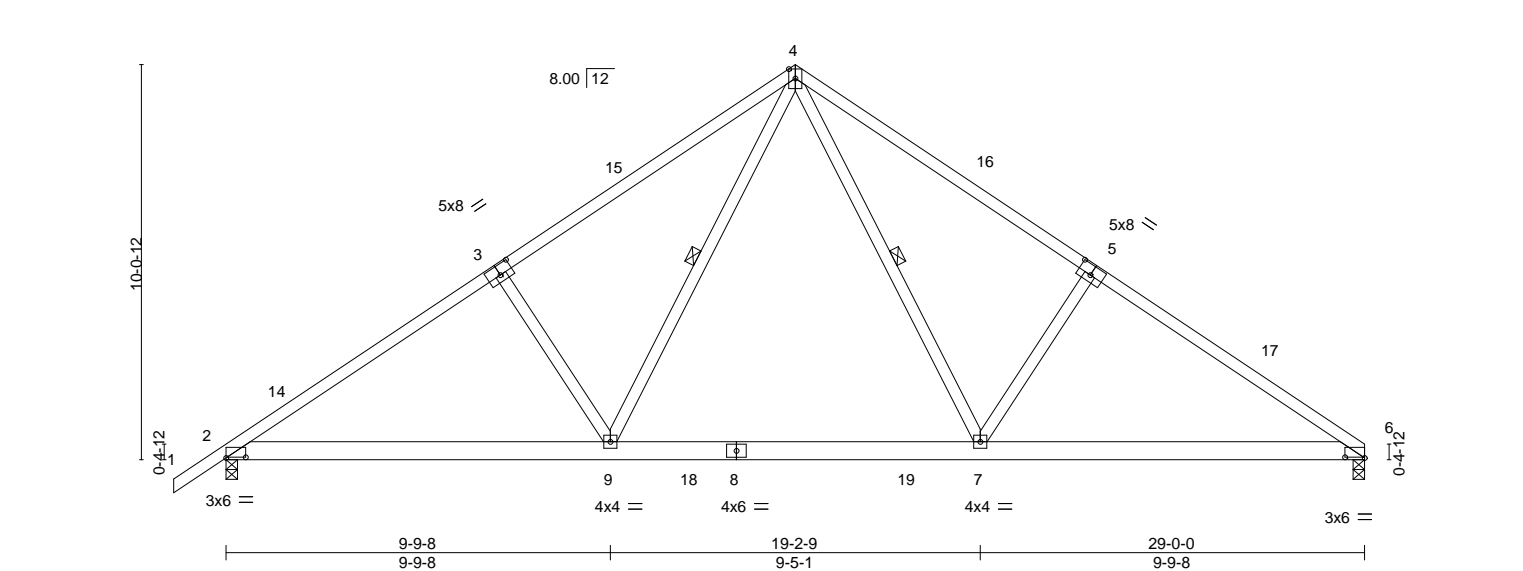


Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-6-0,0-0-3]									
<b>LOADING</b> (psf)		<b>SPACING-</b>		<b>CSI.</b>		<b>DEFL.</b>		<b>PLATES</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	in (loc)	I/defl	MT20	GRIP
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(LL)	-0.17 7-9 >999		244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Vert(CT)	-0.30 7-9 >999		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Horz(CT)	0.05 6 n/a n/a		
								Weight: 169 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.1 *Except* 1-3,5-6: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-6-6 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-7, 4-9

<b>REACTIONS.</b>	
(size)	2=0-3-8, 6=0-3-8
Max Horz	2=327(LC 9)
Max Uplift	2=538(LC 12), 6=490(LC 13)
Max Grav	2=1525(LC 19), 6=1453(LC 20)

<b>FORCES.</b>	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2182/760, 3-4=-2040/807, 4-5=-2048/814, 5-6=-2189/768
BOT CHORD	2-9=-717/1969, 7-9=-298/1253, 6-7=-525/1745
WEBS	4-7=-465/1128, 5-7=-426/415, 4-9=-456/1119, 3-9=-424/413

- 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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 14-6-0, Zone2 14-6-0 to 18-8-15, Zone1 18-8-15 to 29-0-0 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 538 lb uplift at joint 2 and 490 lb uplift at joint 6.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

<b>LOAD CASE(S)</b> 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=-60(F=-40), 6-7=-20	

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

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

August 22,2024

Job	Truss	Truss Type	Qty	Ply	HARTLEY = LOMINACK-PUIG RES.	T34801410
4152011	T06	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. Wed Aug 21 14:10:33 2024 Page 1  
ID:kTGGBIQg0CU2lyFI5gJEiUyqKJ2-VX4oXY6I\_1xy7Bgje1Upth1wZo09g5GSKiK3ClylvbK  
-1-4-0 3-0-0 7-10-0 12-8-0 15-8-0 17-0-0  
1-4-0 3-0-0 4-10-0 4-10-0 3-0-0 1-4-0

Scale = 1:29.9

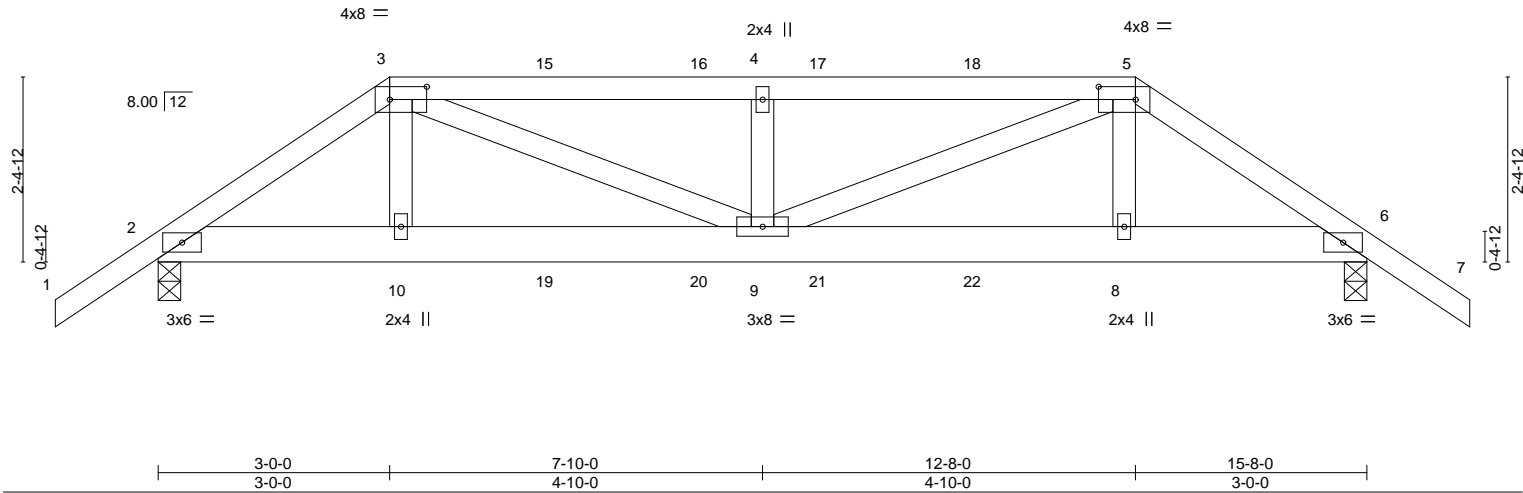


Plate Offsets (X,Y)-- [3:0-5-12,0-2-0], [5:0-5-12,0-2-0]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	0.08	9	>999	240	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	-0.07	9	>999	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.27	Horz(CT)	-0.02	6	n/a	n/a	
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS						Weight: 88 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-6 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size)	2=0-3-8, 6=0-3-8
Max Horz	2=-93(LC 27)	
Max Uplift	2=-560(LC 5), 6=-582(LC 4)	
Max Grav	2=715(LC 1), 6=719(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-996/903, 3-4=-1300/1253, 4-5=-1300/1253, 5-6=-1004/941
BOT CHORD	2-10=-768/836, 9-10=-777/847, 8-9=-782/864, 6-8=-774/854
WEBS	3-9=-555/550, 4-9=-318/308, 5-9=-506/530

- 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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 560 lb uplift at joint 2 and 582 lb uplift at joint 6.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 69 lb up at 3-0-0, 89 lb down and 66 lb up at 5-0-12, 89 lb down and 65 lb up at 7-0-12, 89 lb down and 65 lb up at 8-7-4, and 89 lb down and 66 lb up at 10-7-4, and 206 lb down and 155 lb up at 12-8-0 on top chord, and 110 lb down and 86 lb up at 3-0-0, 23 lb down and 36 lb up at 5-0-12, 23 lb down and 36 lb up at 7-0-12, 23 lb down and 36 lb up at 8-7-4, and 23 lb down and 36 lb up at 10-7-4, and 110 lb down and 86 lb up at 12-7-4 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).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-54, 3-5=-54, 5-7=-54, 2-6=-20	

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

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

August 22,2024

Job	Truss	Truss Type	Qty	Ply	HARTLEY = LOMINACK-PUIG RES.	T34801410
4152011	T06	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. Wed Aug 21 14:10:33 2024 Page 2  
ID:kTGGBIQg0CU2lyFI5gJEiUyqKJ2-VX4oXY6L\_1xy7Bgje1Upth1wZo09g5GSklK3ClylbvK

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 3=-8(F) 5=-16(F) 10=-17(F) 8=-17(F) 15=-8(F) 16=-8(F) 17=-8(F) 18=-8(F) 19=-10(F) 20=-10(F) 21=-10(F) 22=-10(F)

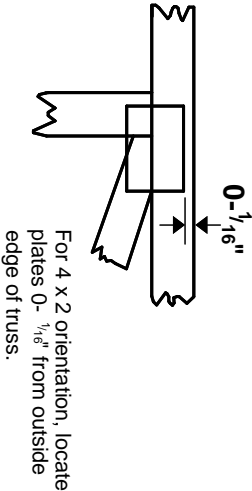
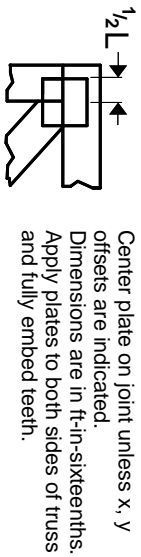
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

**MiTek®**  
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / [MiTek-US.com](http://MiTek-US.com)

# Symbols

## PLATE LOCATION AND ORIENTATION



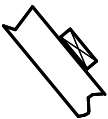
—  
This symbol indicates the required direction of slots in connector plates.

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

## PLATE SIZE

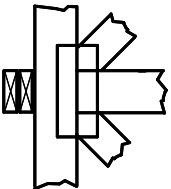
4 X 4  
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

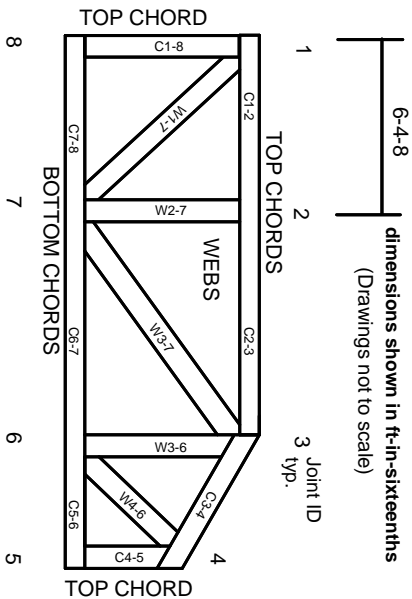
## BEARING



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



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

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

## Product Code Approvals

ICC-ES Reports:  
ESR-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

## Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.  
Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

© 2023 MITek® All Rights Reserved

# MITek®

MITek Engineering Reference Sheet: MII-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.