



Truss Layout(s) & Calcs.

Provided For
Yavapai County

Home of my Own (2020)

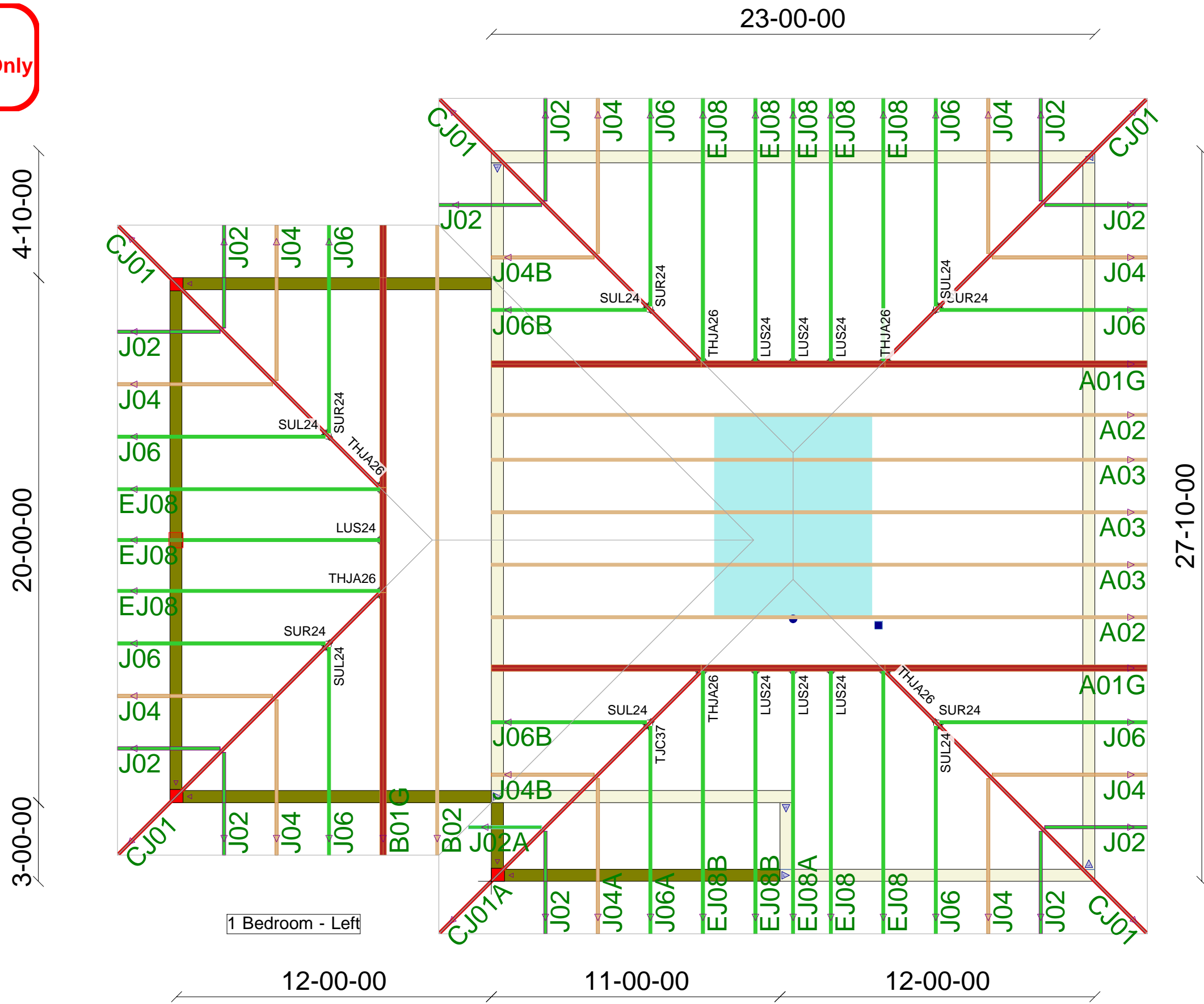
1 BDRM, left and right, garage and carport

**REVIEWED FOR DESIGN
CRITERIA ONLY**

SEE ATTACHED COVER SHEET FOR ALL
STAMPS. IT IS THE RESPONSIBILITY OF THE
OWNER/APPLICANT TO REVIEW AND
ACKNOWLEDGE APPLICABLE STAMPS.

TRUSSES ALWAYS LABELLED BOTTOM LEFT END OF TRUSS, TRUSS LEFT END INDICATED ON LAYOUT WITH ◀

Reviewed for Design Criteria Only



A Division of US

1493 N Tech Blvd
Gilbert AZ 85233
Phone: (480) 892-0025

Job #: 2414092-A

Customer: Prescott Home Center

Job Name: Home of my Own 2020
1 Bedroom L

Subdivision: Lot:

Address: 1015 Fair Street

City, ST: Prescott, AZ

Drawn By: Anthony Gardner

Date Printed: 10/14/2025

Salesrep: Jon Cherry

Revision: #

General Notes

All trusses shall be installed in accordance with the latest edition Building Code and ANSI/TPI 1

Trusses must be handled, installed, braced, and restrained per BCSI.

Temporary and permanent bracing must be installed during erection to prevent collapse. Trusses are not stable until properly braced.

Any on-site alterations of trusses, or deviations from the layout will be deemed the sole responsibility of the contractor and framer. AZBS will assume no responsibility for any such modifications.

Notify the truss designer immediately of any conflicts between truss layout and actual field conditions.

Truss designs and placement plan are the property of AZBS and shall not be copied without written permission.

All truss to beam/ledger/wall connections to be reviewed/approved by EOR and are outside AZBS scope per TPI.

All dimensions are as follows:

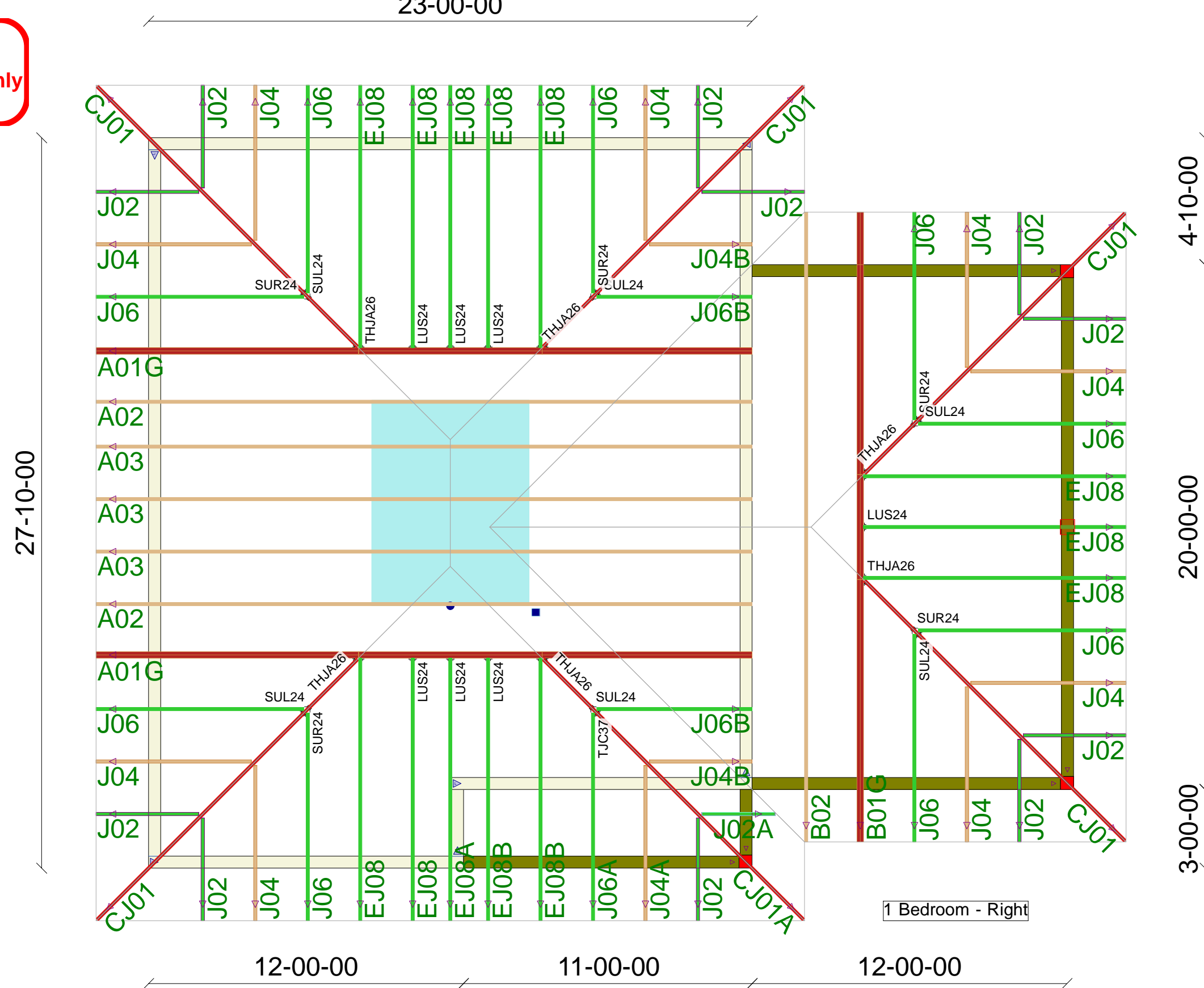
FT - IN - 16ths (3-6-9 = 3' 6 9/16")

JOB NOTES

1	Carport and Garage options are identical
2	
3	
4	
5	
6	
7	
8	
9	
10	

TRUSSES ALWAYS LABELLED BOTTOM LEFT END OF TRUSS, TRUSS LEFT END INDICATED ON LAYOUT WITH ◀

Reviewed for Design Criteria Only



1 Bedroom - Right



A Division of US

1493 N Tech Blvd
Gilbert AZ 85233
Phone: (480) 892-0025

Job #: 2414092-A

Customer: Prescott Home Center

Job Name: Home of my Own 2020
1 Bedroom R

Subdivision: Lot:

Address: 1015 Fair Street

City, ST: Prescott, AZ

Drawn By: Anthony Gardner

Date Printed: 10/14/2025

Salesrep: Jon Cherry

Revision: #

General Notes

All trusses shall be installed in accordance with the latest edition Building Code and ANSI/TPI 1
Trusses must be handled, installed, braced, and restrained per BCSI.
Temporary and permanent bracing must be installed during erection to prevent collapse. Trusses are not stable until properly braced.
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Notify the truss designer immediately of any conflicts between truss layout and actual field conditions.
Truss designs and placement plan are the property of AZBS and shall not be copied without written permission.
All truss to beam/ledger/wall connections to be reviewed/approved by EOR and are outside AZBS scope per TPI.
All dimensions are as follows:
FT - IN - 16ths (3-6-9 = 3' 6 9/16")

JOB NOTES

1	Carpport and Garage options are identical
2	
3	
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MiTek, Inc.
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571

Re: 2414092-A
Home of My Own Project

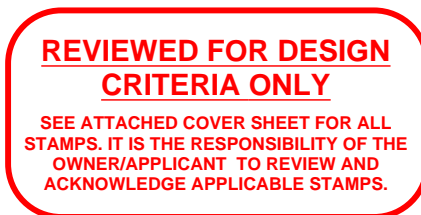
The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by US LBM AZBS Gilbert Truss (Gilbert, AZ).

Pages or sheets covered by this seal: R90764467 thru R90764484

My license renewal date for the state of Arizona is December 31, 2025.

Arizona COA: 11906-0

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



October 16, 2025

Zhao, Xiaoming

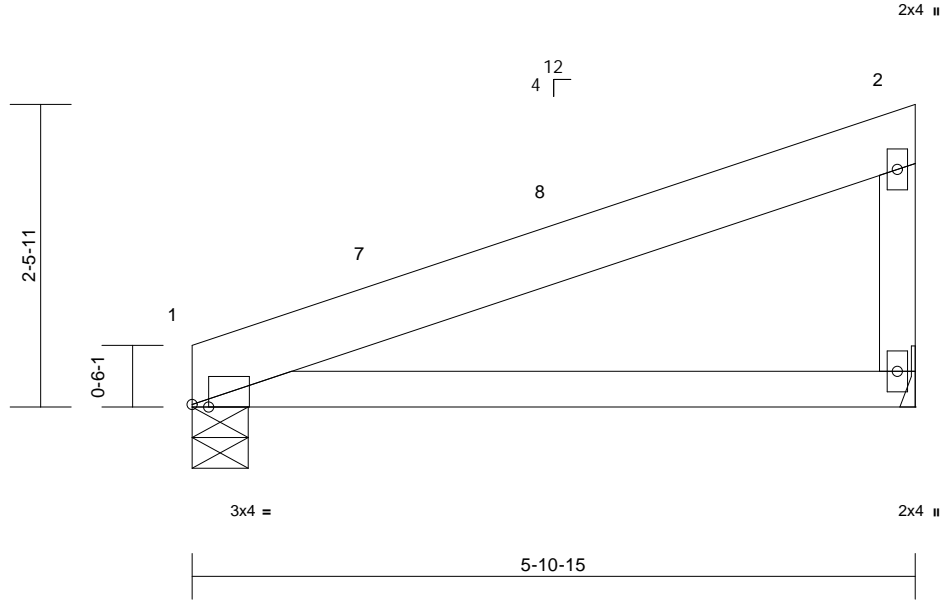
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.

Job 2414092-A	Truss J06B	Truss Type Jack-Closed	Qty 6	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764467
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:21
ID:yKmmZE0B5teO3DwDaQ5Rgwymf5T-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:18.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.05	3-6	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.09	3-6	>731	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	0.00	2-3	>999	120		
											Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=0-5-8, 3= Mechanical
Max Horiz 1=78 (LC 13)
Max Uplift 1=-21 (LC 14), 3=-26 (LC 14)
Max Grav 1=423 (LC 18), 3=423 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-258/93, 2-3=-357/212
BOT CHORD 1-3=-138/156

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0,
Zone1 3-0-0 to 5-9-3 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate
DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this
design.
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 21 lb uplift at joint
1 and 26 lb uplift at joint 3.
- 8) Install all permanent bracing per project-specific bracing
requirements, designed by others, or per industry
standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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

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

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Roseville, CA 95661
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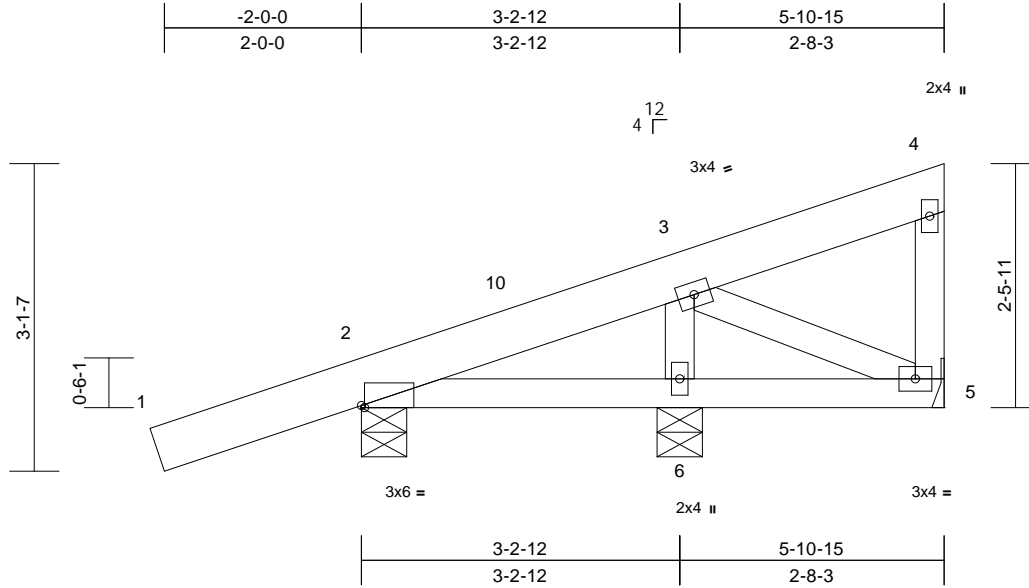
Job 2414092-A	Truss J06A	Truss Type Jack-Closed	Qty 4	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764468
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:21

Page: 1

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Scale = 1:23.4

Plate Offsets (X, Y): [2:0-0-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	6-9	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	0.00	4-5	>999	120		
											Weight: 28 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 5= Mechanical, 6=0-5-8
Max Horiz 2=89 (LC 13)
Max Uplift 2=-115 (LC 14), 5=-16 (LC 14), 6=-8 (LC 35)
Max Grav 2=570 (LC 19), 5=168 (LC 19), 6=372 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-238/304, 3-4=-64/47, 4-5=-132/90
BOT CHORD 2-6=-248/176, 5-6=-57/56
WEBS 3-6=-321/199, 3-5=-40/33

- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 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 115 lb uplift at joint 2, 8 lb uplift at joint 6 and 16 lb uplift at joint 5.
- Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard

- NOTES**
- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 5-9-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
 - Unbalanced snow loads have been considered for this design.



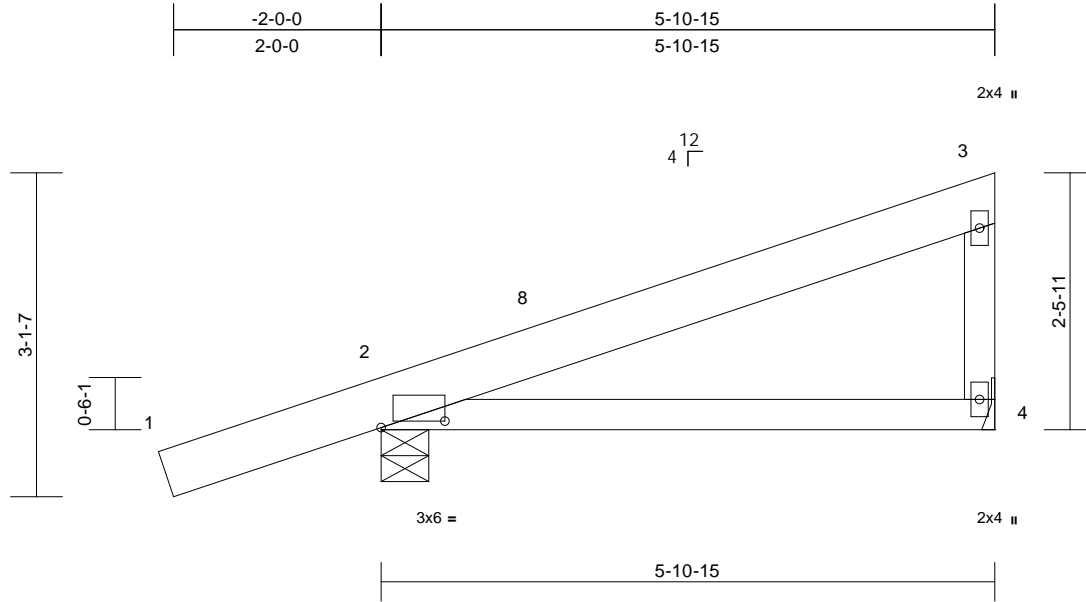
EXPIRES: 12/31/2025
October 16, 2025

Job 2414092-A	Truss J06	Truss Type Jack-Closed	Qty 52	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764469
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

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Page: 1



Scale = 1:22.2
Plate Offsets (X, Y): [2:0-7-6,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.03	4-7	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.07	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	0.00	3-4	>999	120		
											Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical
Max Horiz 2=89 (LC 13)
Max Uplift 2=-111 (LC 14), 4=-11 (LC 14)
Max Grav 2=734 (LC 19), 4=376 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-228/287, 3-4=-320/197
BOT CHORD 2-4=-243/156

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 11 lb uplift at joint 4 and 111 lb uplift at joint 2.
 - Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.
- LOAD CASE(S)** Standard

- NOTES**
- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 5-9-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



EXPIRES: 12/31/2025
October 16, 2025

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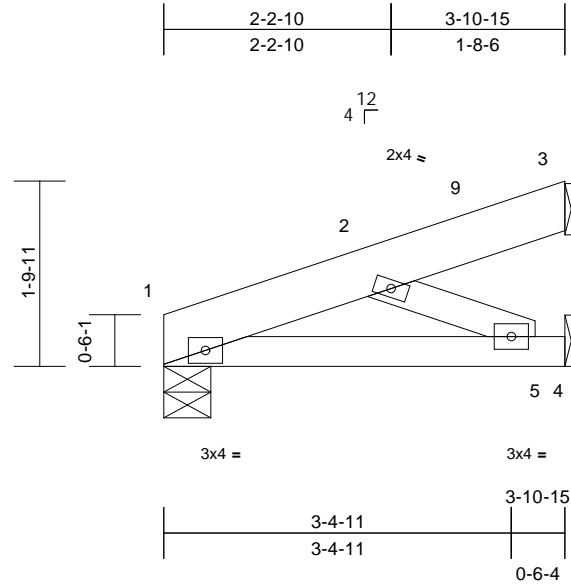
Job 2414092-A	Truss J04B	Truss Type Jack-Partial	Qty 6	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764470
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:21

Page: 1

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Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	5-8	>999	360	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	5-8	>999	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	n/a	-	n/a	999		
BCDL	10.0										Weight: 14 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 HF/SPF No.2
 WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=0-5-8, 3= Mechanical, 4= Mechanical
 Max Horiz 1=41 (LC 14)
 Max Uplift 1=-7 (LC 14), 3=-23 (LC 14), 4=-1 (LC 14)
 Max Grav 1=283 (LC 18), 3=129 (LC 18), 4=153 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-331/117, 2-3=-32/33
 BOT CHORD 1-5=-181/314, 4-5=0/0
 WEBS 2-5=-343/198

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 23 lb uplift at joint 3 and 1 lb uplift at joint 4.
- 8) Wane is prohibited in the bearing area at joint 9.
- 9) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
 October 16, 2025

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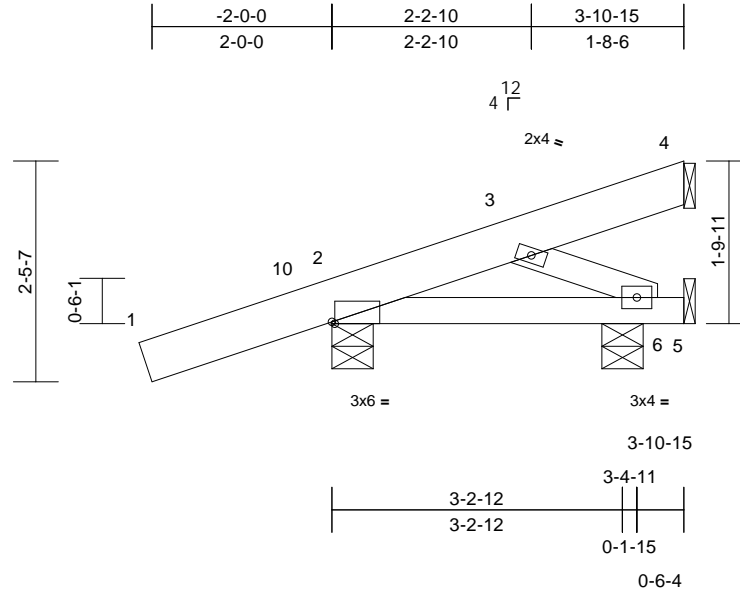
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 Roseville, CA 95661
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Job 2414092-A	Truss J04A	Truss Type Jack-Partial	Qty 4	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764471
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:21
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Page: 1



Scale = 1:25.6

Plate Offsets (X, Y): [2:0-0-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	6-9	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	n/a	-	n/a	999		
											Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 4= Mechanical, 5= Mechanical, 6=0-5-8
Max Horiz 2=75 (LC 14)
Max Uplift 2=-110 (LC 14), 4=-26 (LC 14), 5=-118 (LC 5), 6=-25 (LC 18)
Max Grav 2=609 (LC 19), 4=131 (LC 19), 5=3 (LC 18), 6=220 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-256/316, 3-4=-33/34
BOT CHORD 2-6=-258/164, 5-6=0/0
WEBS 3-6=-149/110

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 3-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4, 110 lb uplift at joint 2, 118 lb uplift at joint 5 and 25 lb uplift at joint 6.
- 9) Wane is prohibited in the bearing area at joint 4.
- 10) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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

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

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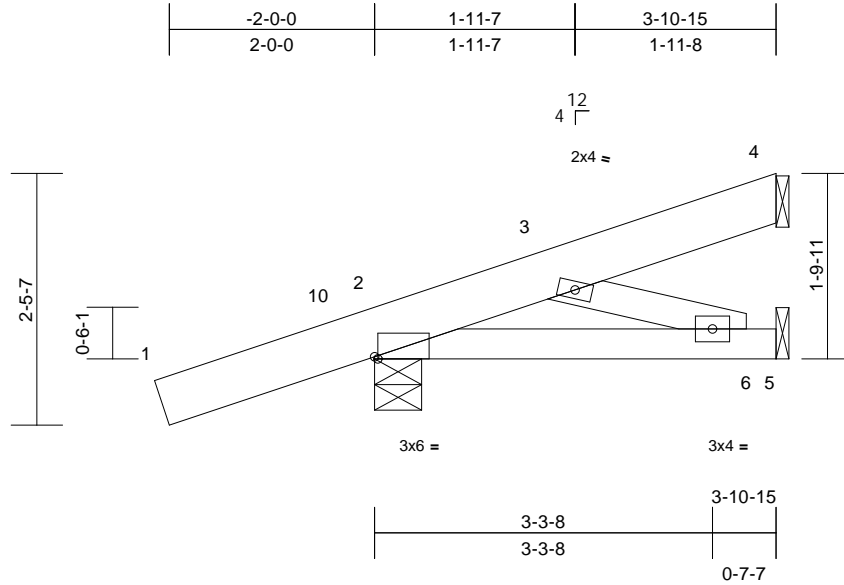
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2414092-A	Truss J04	Truss Type Jack-Partial	Qty 54	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764472
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:21
ID: ?JUSkg8ybwX8aEzDUaD2S?ymf75-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:22.4

Plate Offsets (X, Y): [2:0-0-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	6-9	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	n/a	-	n/a	999		
											Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 4= Mechanical, 5= Mechanical
Max Horiz 2=75 (LC 14)
Max Uplift 2=-105 (LC 14), 4=-24 (LC 14), 5=-15 (LC 18)
Max Grav 2=616 (LC 19), 4=147 (LC 19), 5=78 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-263/321, 3-4=-37/38
BOT CHORD 2-6=-261/166, 5-6=0/0
WEBS 3-6=-168/124

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4, 105 lb uplift at joint 2 and 15 lb uplift at joint 5.
- 9) Wane is prohibited in the bearing area at joint 6.
- 10) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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

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

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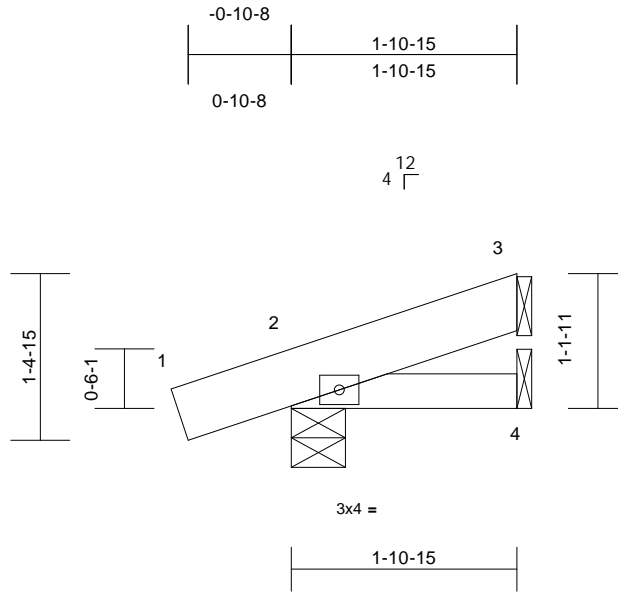
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2414092-A	Truss J02A	Truss Type Jack-Open	Qty 4	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764473
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:gKUFxvL7kqTKQcTC8pUjqNymf4F-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:19.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	Vert(LL)	0.00	7	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	Vert(CT)	0.00	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP						Weight: 8 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=36 (LC 14)
Max Uplift 2=-46 (LC 14), 3=-9 (LC 14)
Max Grav 2=290 (LC 19), 3=92 (LC 19), 4=23 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/43, 2-3=-37/46
BOT CHORD 2-4=-38/19

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever
left and right exposed; end vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate
DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 46 lb uplift at joint
2 and 9 lb uplift at joint 3.
 - 9) Wane is prohibited in the bearing area at joint 6.
 - 10) Install all permanent bracing per project-specific bracing
requirements, designed by others, or per industry
standard details.
- LOAD CASE(S)** Standard



EXPIRES: 12/31/2025
October 16, 2025

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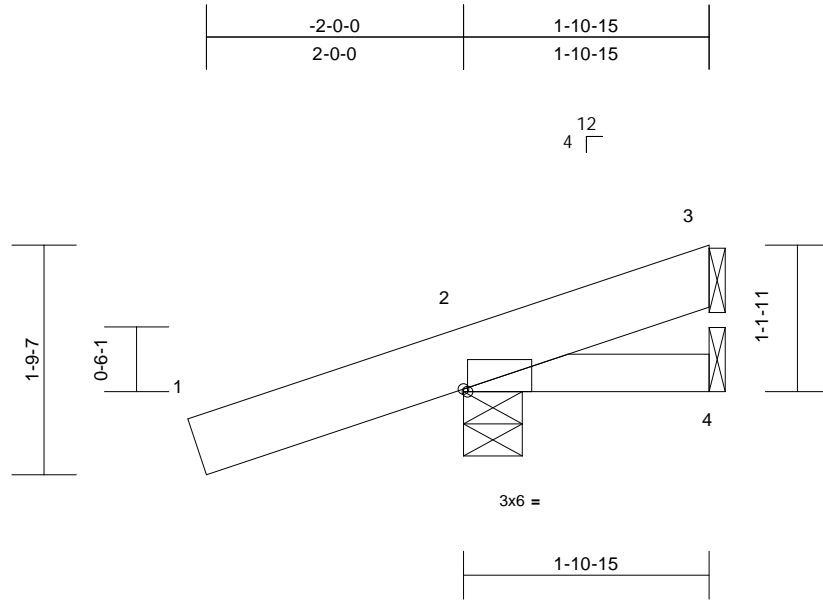
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2414092-A	Truss J02	Truss Type Jack-Open	Qty 60	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764474
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:9GQBvwdY1Wnt41vCfqUkueymf92-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:17.9

Plate Offsets (X, Y): [2:0-0-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	4-7	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP								
											Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=54 (LC 14)
Max Uplift 2=-124 (LC 14), 3=-87 (LC 18), 4=-27 (LC 18)
Max Grav 2=546 (LC 19), 3=18 (LC 15), 4=17 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/93, 2-3=-227/279
BOT CHORD 2-4=-233/169

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 2, 27 lb uplift at joint 4 and 87 lb uplift at joint 3.
- 9) Wane is prohibited in the bearing area at joint 6.
- 10) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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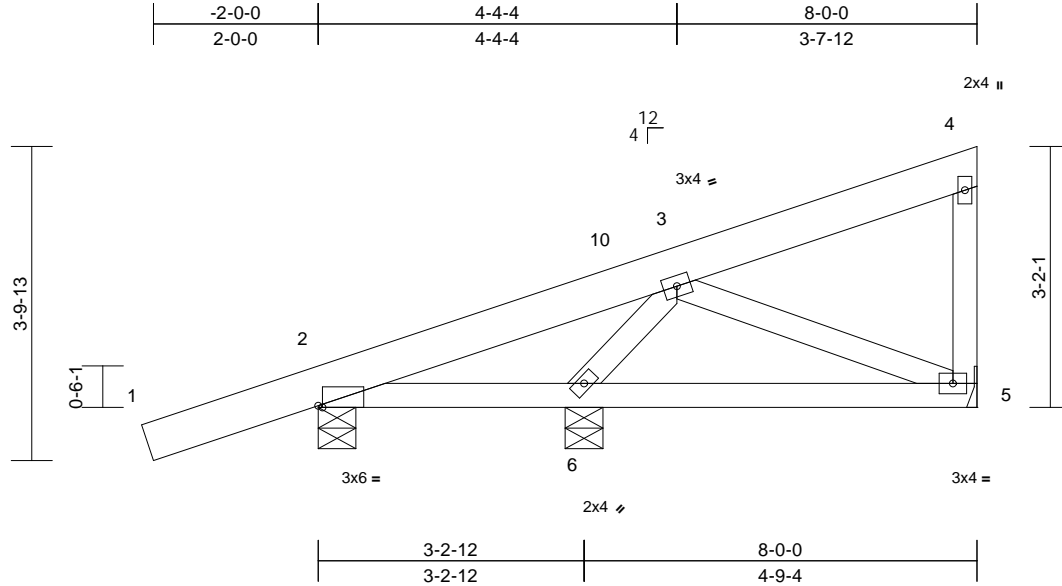
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2414092-A	Truss EJ08B	Truss Type Jack-Closed	Qty 8	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764475
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:vFxN6YqmdxAHNg7g_kt7Wymf4v-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28

Plate Offsets (X, Y): [2:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.02	5-6	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.04	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	0.00	4-5	>999	120		
											Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING

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

REACTIONS

(size) 2=0-5-8, 5= Mechanical, 6=0-5-8
Max Horiz 2=116 (LC 13)
Max Uplift 2=-118 (LC 14), 5=-26 (LC 14), 6=-7 (LC 35)
Max Grav 2=553 (LC 19), 5=334 (LC 19), 6=530 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/93, 2-3=-226/329, 3-4=-85/64, 4-5=-176/112
BOT CHORD 2-6=-264/168, 5-6=-196/268
WEBS 3-5=-294/174, 3-6=-538/264

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 2, 26 lb uplift at joint 5 and 7 lb uplift at joint 6.
- 9) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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MiTek®

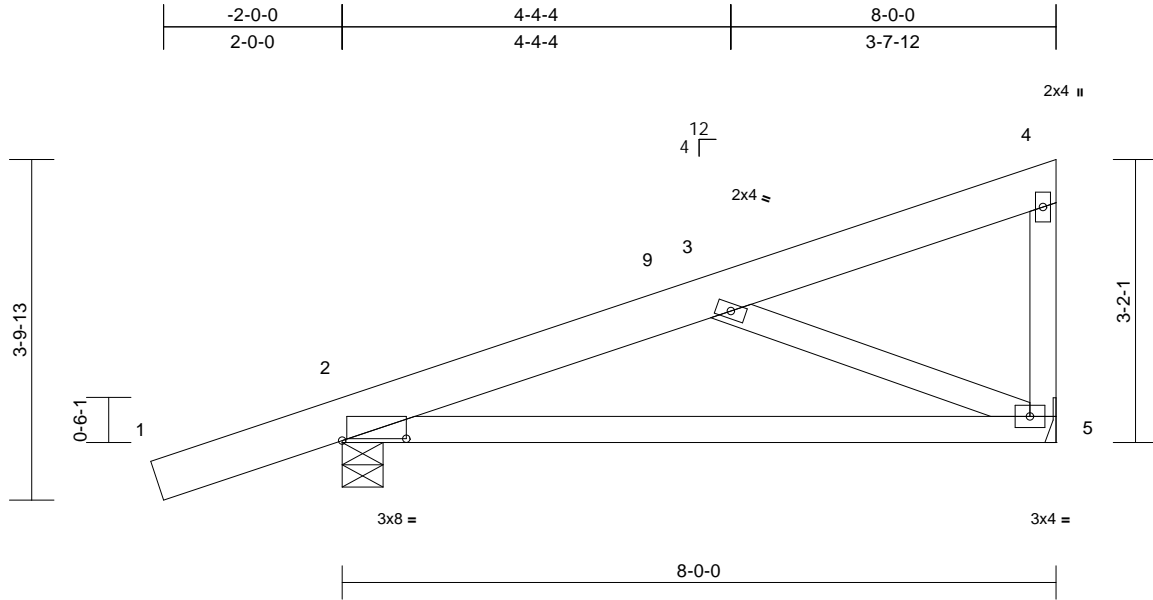
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2414092-A	Truss EJ08A	Truss Type Jack-Closed	Qty 2	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764476
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:cv0ke8lNGnH1genm06EL2ymf50-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:25.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.08	5-8	>999	360	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.16	5-8	>579	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	0.00	4-5	>999	120		
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.

REACTIONS

(size) 2=0-5-8, 5= Mechanical
Max Horiz 2=116 (LC 13)
Max Uplift 2=-115 (LC 14), 5=-24 (LC 14)
Max Grav 2=875 (LC 19), 5=542 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-798/242, 3-4=-93/66,
4-5=-208/140
BOT CHORD 2-5=-328/719
WEBS 3-5=-771/312

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12,
Zone1 0-9-12 to 7-10-4 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate
DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.

- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 115 lb uplift at joint
2 and 24 lb uplift at joint 5.
- 9) Install all permanent bracing per project-specific bracing
requirements, designed by others, or per industry
standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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

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

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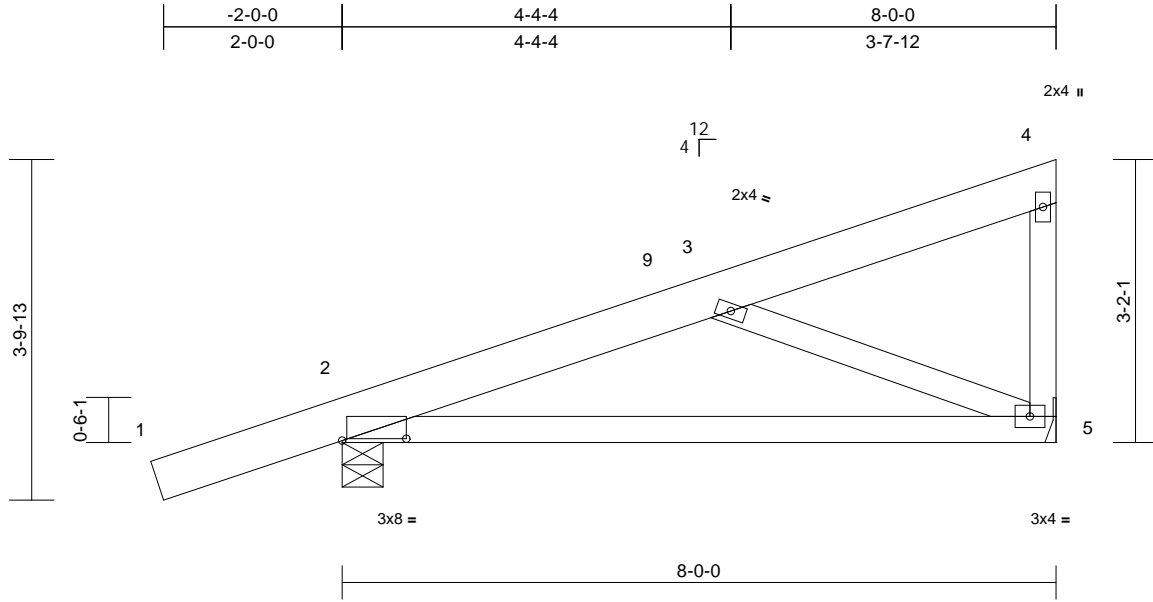
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2414092-A	Truss EJ08	Truss Type Jack-Closed	Qty 74	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764477
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:FghP1dUaS0WOOlyZUOj4SPymf5M-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:25.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.08	5-8	>999	360	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.16	5-8	>579	240		
TCDL	15.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-MP		ParEv(LL)	0.00	4-5	>999	120		
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.

REACTIONS

(size) 2=0-5-8, 5= Mechanical
Max Horiz 2=116 (LC 13)
Max Uplift 2=-115 (LC 14), 5=-24 (LC 14)
Max Grav 2=875 (LC 19), 5=542 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-798/242, 3-4=-93/66,
4-5=-208/140
BOT CHORD 2-5=-328/719
WEBS 3-5=-771/312

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCCL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12,
Zone1 0-9-12 to 7-10-4 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate
DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.

- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 115 lb uplift at joint
2 and 24 lb uplift at joint 5.
- 9) Install all permanent bracing per project-specific bracing
requirements, designed by others, or per industry
standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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

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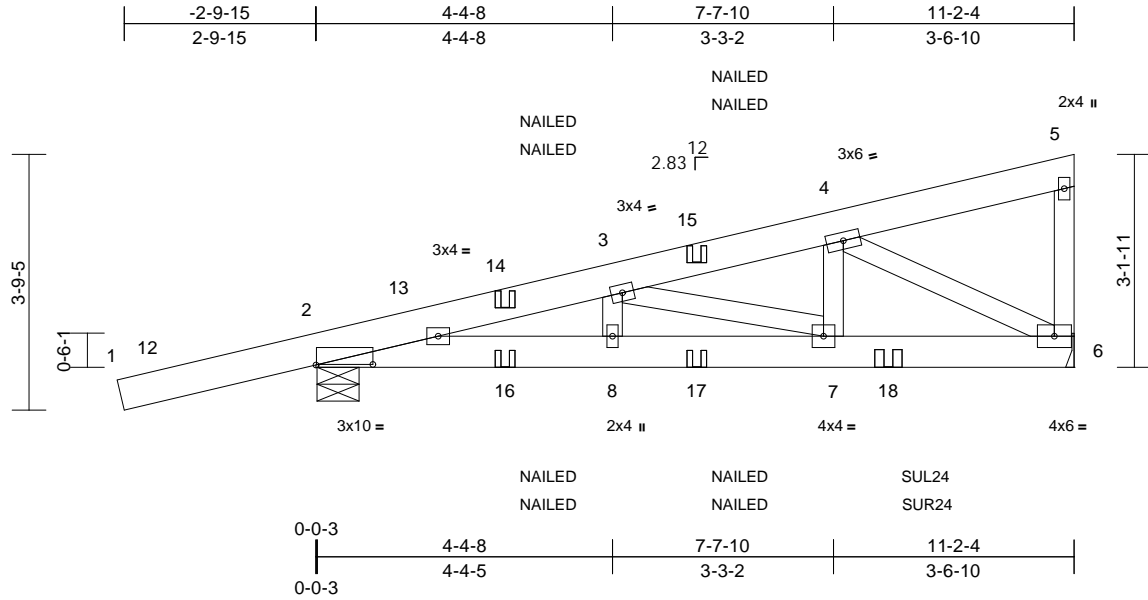
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Roseville, CA 95661
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Job 2414092-A	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 26	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764479
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:8LdvrhzkUp0xfBsCBkQwxLymf3RfC?PsB70Hq3NSgPqnl8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:34

Plate Offsets (X, Y): [2:0-10-1,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.04	7-8	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.07	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS		ParEv(LL)	0.01	5-6	>999	120		
											Weight: 59 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x6 SPF 1650F 1.5E
 WEBS 2x4 HF/SPF Stud/Std

BRACING

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

REACTIONS

(size) 2=0-7-7, 6= Mechanical
 Max Horiz 2=117 (LC 13)
 Max Uplift 2=-201 (LC 10), 6=-92 (LC 10)
 Max Grav 2=1183 (LC 51), 6=1238 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/94, 2-3=-1880/346, 3-4=-1733/321, 4-5=-86/56, 5-6=-185/89
 BOT CHORD 2-8=-529/1830, 7-8=-529/1830, 6-7=-395/1663
 WEBS 3-8=-82/140, 3-7=-530/141, 4-7=-43/844, 4-6=-1853/401

NOTES

- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-10-9 to 1-4-5, Zone2 1-4-5 to 11-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 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 201 lb uplift at joint 2 and 92 lb uplift at joint 6.
- Use Simpson Strong-Tie SUL24 (4-10dx1 1/2 Girder, 4-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 8-5-6 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- Use Simpson Strong-Tie SUR24 (4-10dx1 1/2 Girder, 4-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 8-5-6 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + 0.7 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-5=-86, 6-9=-20
 Concentrated Loads (lb)

Vert: 14=159 (F=79, B=79), 15=-62 (F=-31, B=-31), 16=6 (F=3, B=3), 17=-73 (F=-37, B=-37), 18=-696 (F=-348, B=-348)



EXPIRES: 12/31/2025
 October 16, 2025

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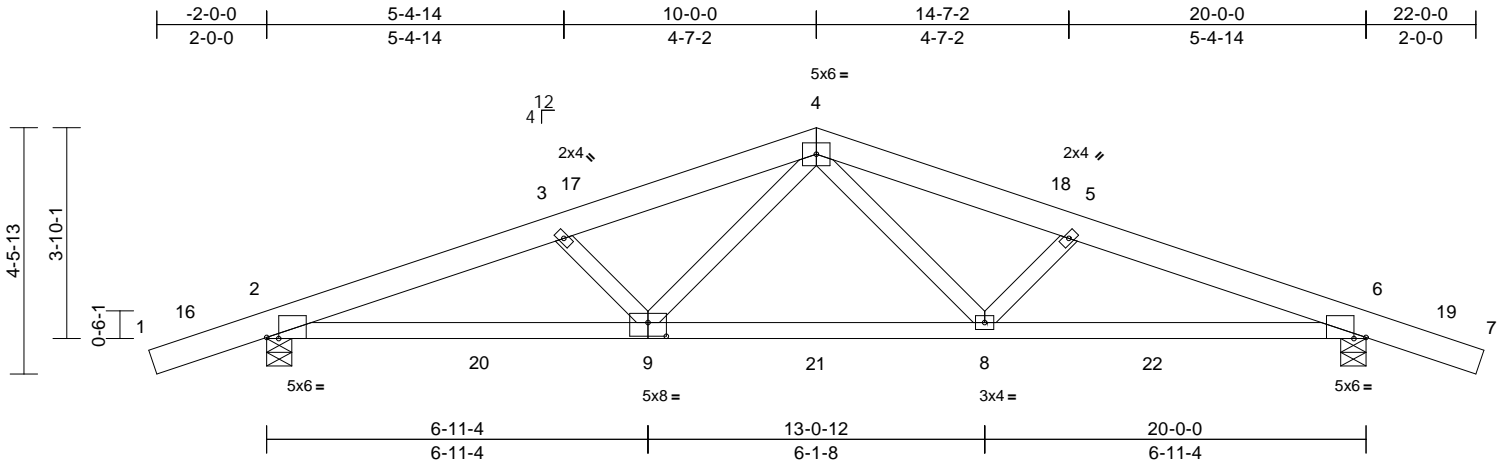
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 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 2414092-A	Truss B02	Truss Type Common	Qty 12	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764480
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:GXG6Kmi3sSkhW15lyHw49lymey1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:41.9

Plate Offsets (X, Y): [2:0-2-10,Edge], [6:0-2-10,Edge], [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.08	8-9	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.17	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 6=0-5-8
Max Horiz 2=-47 (LC 12)
Max Uplift 2=-156 (LC 14), 6=-156 (LC 14)
Max Grav 2=1504 (LC 19), 6=1504 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-2665/395, 3-4=-2237/346,
4-5=-2237/346, 5-6=-2665/395, 6-7=0/93
BOT CHORD 2-8=-286/2445, 6-8=-307/2445
WEBS 4-9=-60/764, 3-9=-612/163, 4-8=-60/764,
5-8=-612/163

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFERS (directional) and C-C Zone3 -2-0-14 to 0-9-12,
Zone1 0-9-12 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1
14-2-15 to 22-0-14 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFERS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate
DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10; W2=0.55
- 3) Unbalanced snow loads have been considered for this
design.

- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 156 lb uplift at joint
2 and 156 lb uplift at joint 6.
- 8) Install all permanent bracing per project-specific bracing
requirements, designed by others, or per industry
standard details.

LOAD CASE(S) Standard



EXPIRES: 12/31/2025
October 16, 2025

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

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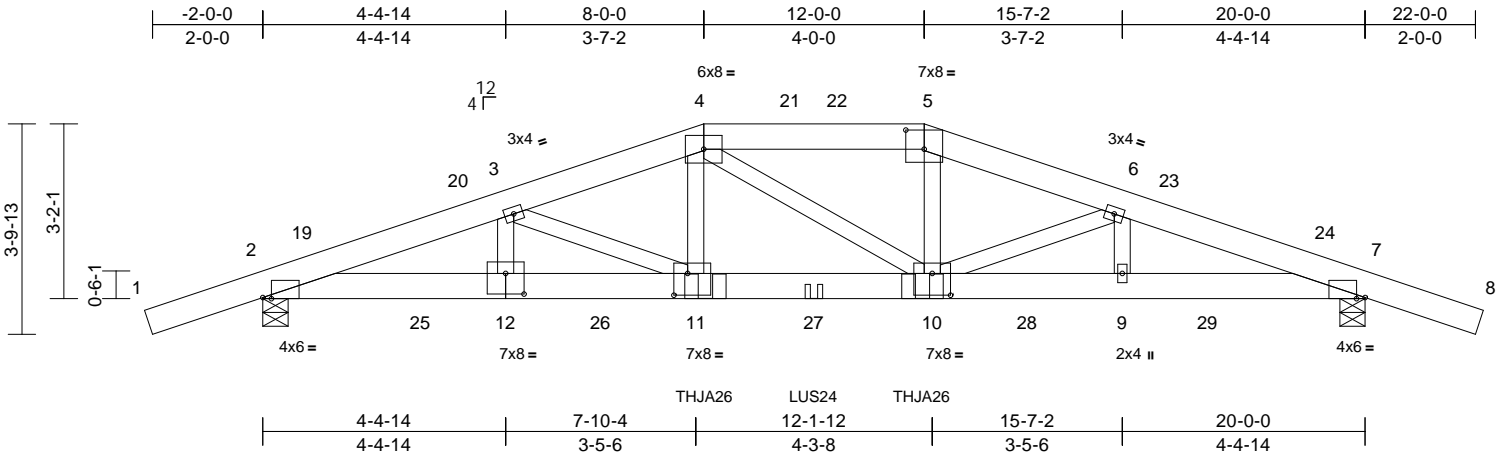
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Job 2414092-A	Truss B01G	Truss Type Hip Girder	Qty 4	Ply 2	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764481
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:20
ID:ZcfKELbnCNT6JVKNNAIKlBmyeB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.8
Plate Offsets (X, Y): [2:0-1-14,Edge], [5:0-4-0,0-4-3], [7:0-1-14,Edge], [10:0-4-0,0-4-12], [11:0-3-0,0-4-12], [12:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.17	10-11	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.26	10-11	>929	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 204 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS (size) 2=0-5-8, 7=0-5-8
Max Horiz 2=-39 (LC 12)
Max Uplift 2=-384 (LC 14), 7=-384 (LC 14)
Max Grav 2=3726 (LC 33), 7=3726 (LC 33)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/94, 2-3=-8865/1160, 3-4=-8644/1149, 4-5=-8058/1131, 5-6=-8672/1173, 6-7=-8856/1181, 7-8=0/94
BOT CHORD 2-11=-1024/8339, 10-11=-949/8030, 9-10=-1058/8330, 7-9=-1058/8330
WEBS 3-12=-226/91, 3-11=-230/318, 4-11=-225/2309, 4-10=-197/262, 5-10=-214/2316, 6-10=-195/349, 6-9=-246/91

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-11 2x4 - 1 row at 0-2-0 oc, Except member 5-10 2x4 - 1 row at 0-2-0 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.
- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 to 8-0-0, Zone3 8-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 22-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 384 lb uplift at joint 2 and 384 lb uplift at joint 7.
- Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 8-0-6 from the left end to connect truss(es) to back face of bottom chord.

- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 10-0-0 from the left end to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 11-11-10 from the left end to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.
- LOAD CASE(S)** Standard
- Dead + 0.7 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-86, 4-5=-86, 5-8=-86, 13-16=-20
Concentrated Loads (lb)
Vert: 11=-1732 (B), 10=-1732 (B), 27=-522 (B)



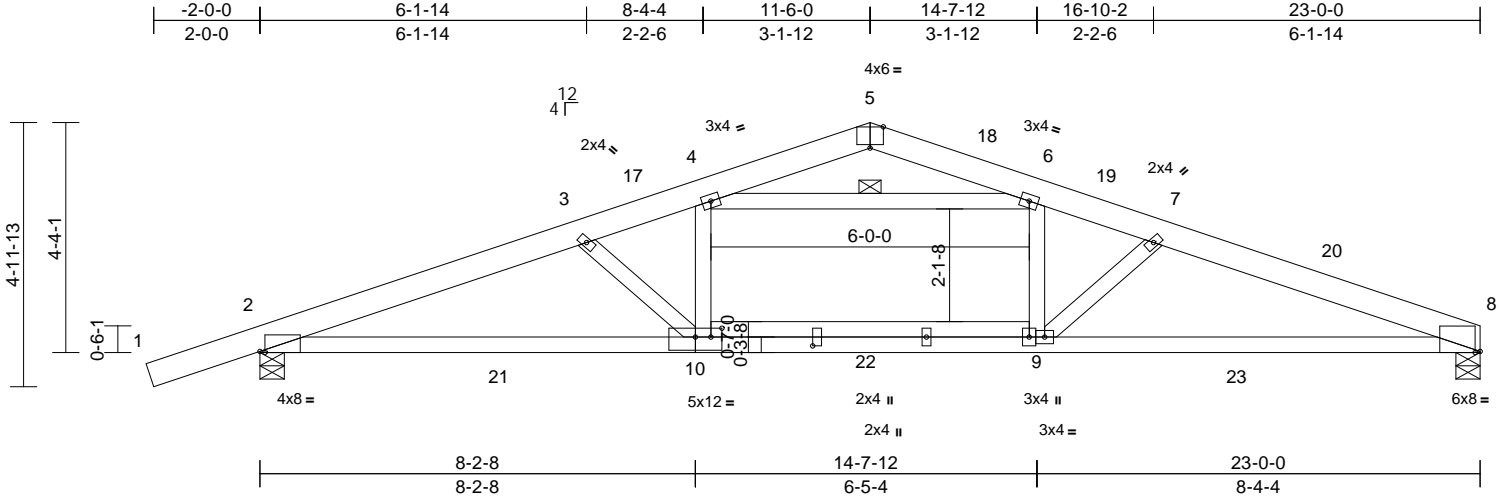
EXPIRES: 12/31/2025
October 16, 2025

Job 2414092-A	Truss A03	Truss Type Common	Qty 6	Ply 1	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764482
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:19
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Page: 1



Scale = 1:43.4

Plate Offsets (X, Y): [2:0-1-2,Edge], [5:0-3-0,Edge], [8:0-1-2,Edge], [10:0-2-0,2-9-0], [10:0-6-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.23	9-13	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.35	9-13	>786	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 100 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E *Except* 10-9:2x4 HF/SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS (size) 2=0-5-8, 8=0-5-8
Max Horiz 2=56 (LC 13)
Max Uplift 2=-62 (LC 14)
Max Grav 2=1755 (LC 19), 8=1557 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/93, 2-3=-3455/73, 3-4=-2834/30, 4-5=-844/64, 5-6=-857/76, 6-7=-2818/62, 7-8=-3479/140
BOT CHORD 2-9=-13/3186, 8-9=-87/3238
WEBS 7-9=-940/174, 3-10=-867/110, 4-10=0/687, 6-9=-37/724, 4-6=-1772/18

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 150.0lb AC unit load placed on the top chord, 9-0-0 from left end, supported at two points, 5-0-0 apart.
- Uninhabitable Mechanical zone exists .
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 2.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard
1) Dead + 0.7 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-86, 4-5=-96, 5-6=-96, 6-8=-86, 11-14=-20
Concentrated Loads (lb)
Vert: 4=-75, 18=-75

- NOTES**
- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-9-12, Zone1 0-9-12 to 11-6-0, Zone2 11-6-0 to 15-8-15, Zone1 15-8-15 to 23-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55



EXPIRES: 12/31/2025
October 16, 2025

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

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

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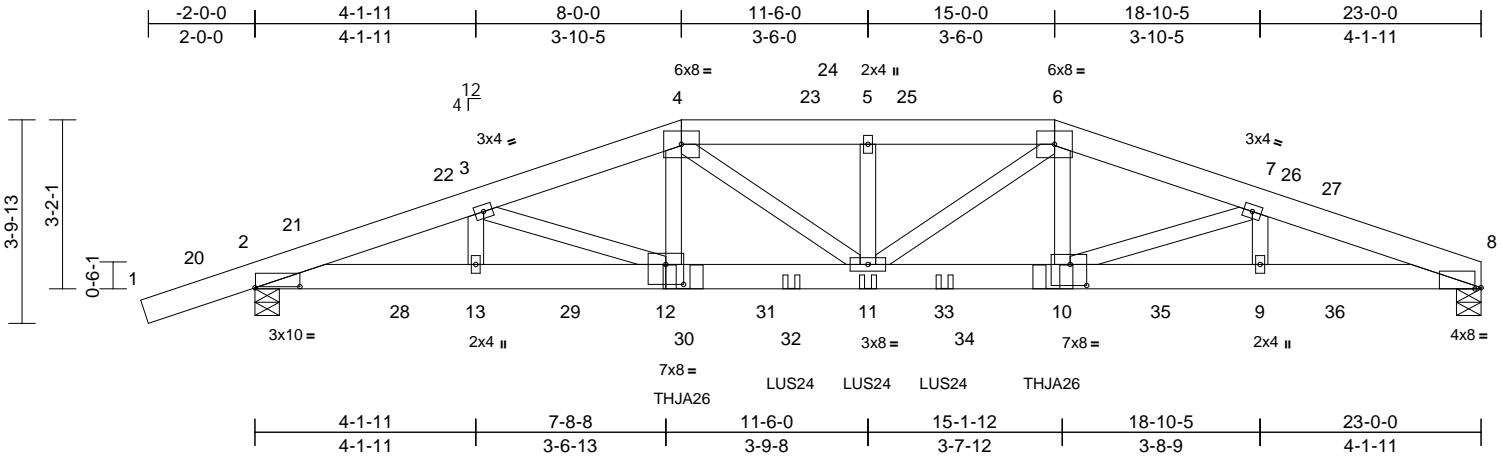
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 2414092-A	Truss A01G	Truss Type Hip Girder	Qty 4	Ply 2	Home of My Own Project Job Reference (optional)	Reviewed for Design Criteria Only R90764484
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US LBM AZBS Gilbert Truss (Gilbert, AZ), Gilbert, AZ - 85233,

Run: 25.30 S Oct 2 2025 Print: 25.3.0 S Oct 2 2025 MiTek Industries, Inc. Wed Oct 15 09:55:18
ID:DrB8PhO7xmLBAIHyo1MB0ymf1c-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:43.2

Plate Offsets (X, Y): [2:0-10-2,0-0-4], [8:0-1-6,Edge], [10:0-3-12,0-4-12], [12:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 40.0)	40.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.24	11-12	>999	360	MT20	203/168
TCDL	15.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.37	11-12	>750	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-MS								
											Weight: 232 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 8=0-5-8
Max Horiz 2=45 (LC 10)
Max Uplift 2=-436 (LC 14), 8=-352 (LC 14)
Max Grav 2=4364 (LC 33), 8=4036 (LC 33)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/94, 2-3=-10684/1265,
3-4=-10778/1283, 4-5=-10912/1305,
5-6=-10912/1305, 6-7=-10751/1272,
7-8=-10850/1265
BOT CHORD 2-13=-1167/10060, 11-13=-1167/10060,
10-11=-1104/10060, 9-10=-1158/10225,
8-9=-1158/10225
WEBS 3-13=-319/99, 3-12=-216/531,
4-12=-214/2153, 4-11=-139/1479,
5-11=-374/167, 6-11=-116/1394,
6-10=-219/2202, 7-10=-213/429, 7-9=-215/79

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-12 2x4 - 2 rows staggered at 0-5-0 oc, member 5-11 2x4 - 1 row at 0-7-0 oc, member 6-10 2x4 - 1 row at 0-2-0 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.
- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 to 8-0-0, Zone2 8-0-0 to 12-2-15, Zone1 12-2-15 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 23-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-22; Pf=40.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; W2=0.55
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 8 and 436 lb uplift at joint 2.
- Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 8-0-6 from the left end to connect truss(es) to front face of bottom chord.

- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 1-5-4 oc max. starting at 10-0-12 from the left end to 12-11-4 to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 14-11-10 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard

- Dead + 0.7 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-86, 4-6=-86, 6-8=-86, 14-17=-20
Concentrated Loads (lb)
Vert: 12=-1209 (F), 11=-522 (F), 10=-1732 (F), 30=-522 (F), 32=-522 (F), 33=-522 (F)



EXPIRES: 12/31/2025
October 16, 2025

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

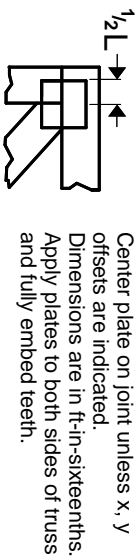
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



Reviewed for Design Criteria Only

For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

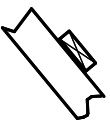
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

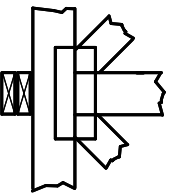
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

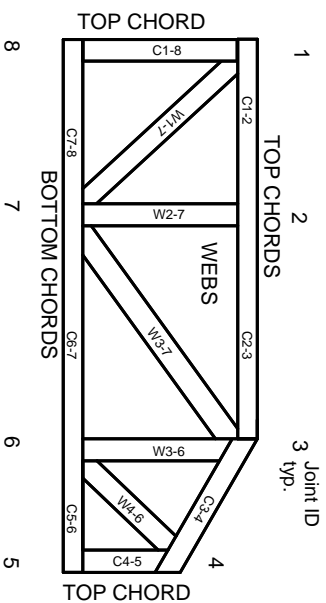


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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-1-1988, 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.

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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.

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