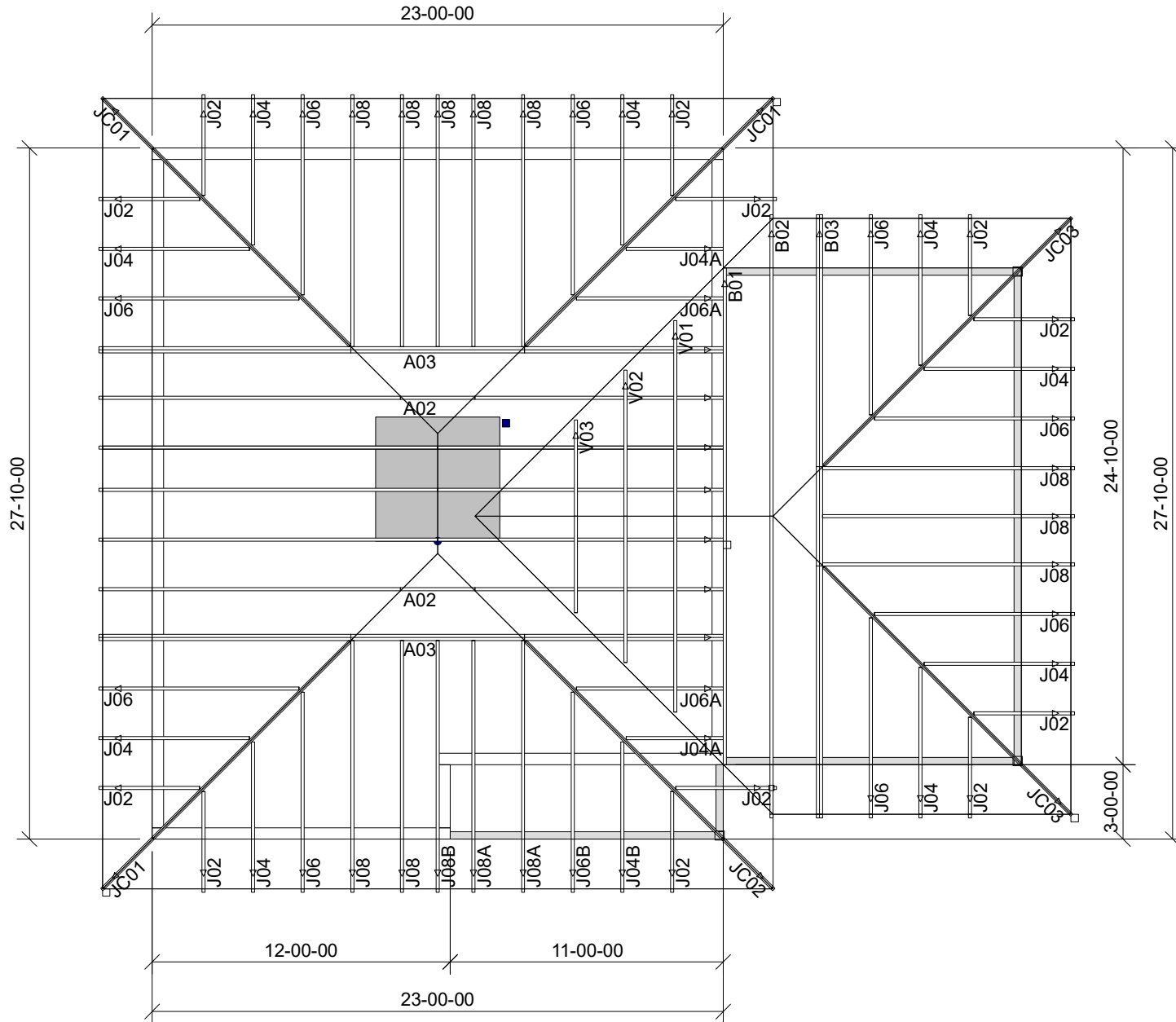


Reviewed for
Design Criteria Only



◁ Indicates left end of truss

Drawing is not to scale u.n.o.

Dashed walls indicate a non-bearing wall



Client: Truss Bid For Mayer

Job Name: Yavapai County HMO Phase1 -1Bed

Job #: 25-7751

Location: TBD Prescott, AZ

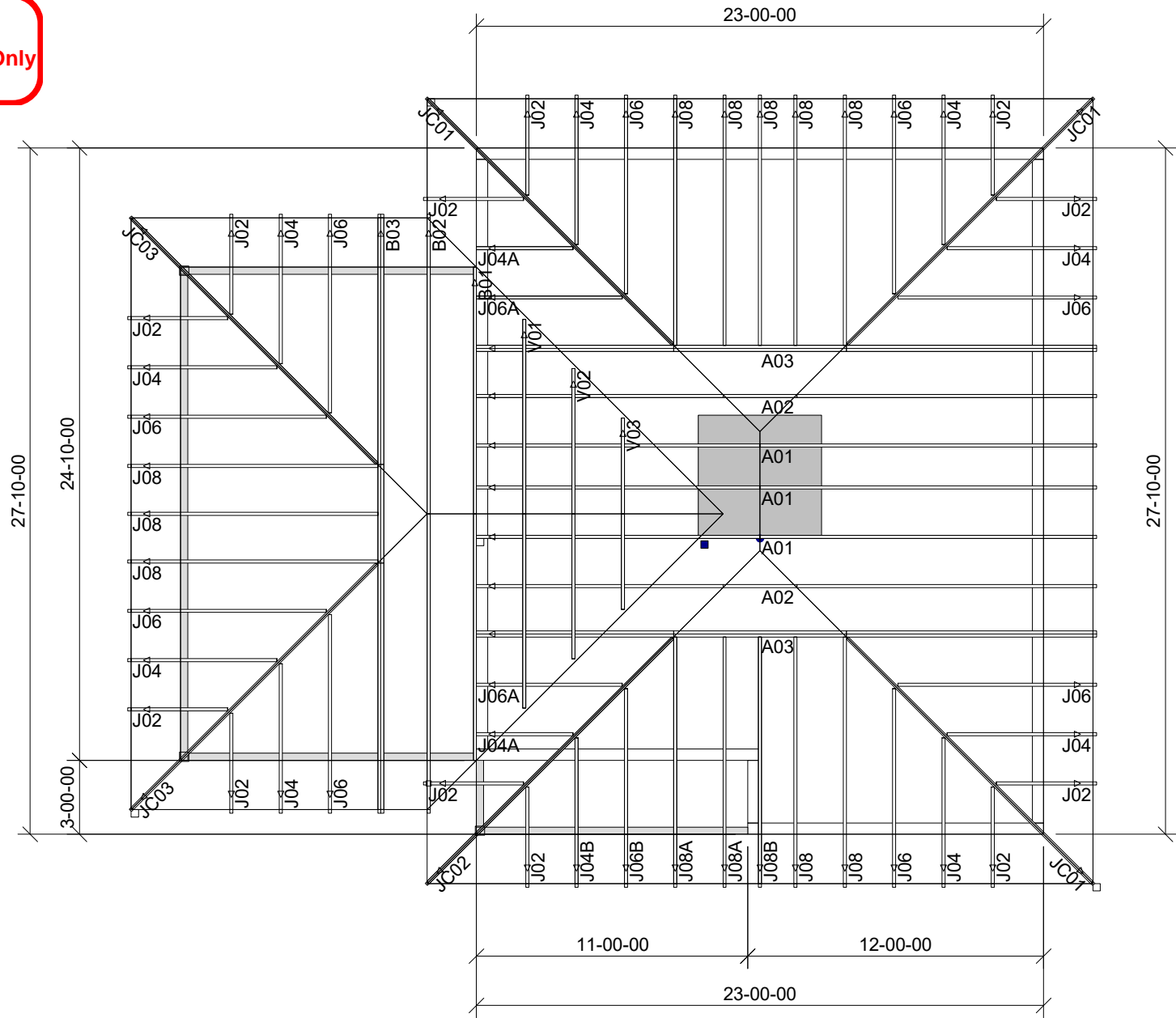
By signing below, I agree that I have reviewed this layout and the attached truss drawings and found them to be in conformance to my needs for this project, even if it they have deviated from the plans.

Signed: _____

Date: _____

Disclaimer: This Truss Placement Diagram was not created by an engineer, but rather by the Ballard Truss Staff and is purely 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 Designer.

Reviewed for
Design Criteria Only



◁ Indicates left end of truss

Drawing is not to scale u.n.o.

Dashed walls indicate a non-bearing wall



Client: Truss Bid For Mayer
 Job Name: Yavapai County HMO Phase1 -1Bed
 Job #: 25-7751
 Location: TBD Prescott, AZ

By signing below, I agree that I have reviewed this layout and the attached truss drawings and found them to be in conformance to my needs for this project, even if it they have deviated from the plans.
 Signed: _____
 Date: _____

Disclaimer: This Truss Placement Diagram was not created by an engineer, but rather by the Ballard Truss Staff and is purely 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 Designer.

MiTek, Inc.
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571

Re: 25-7751
Yavapai County HMO Phase1

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

Pages or sheets covered by this seal: R91871609 thru R91871630

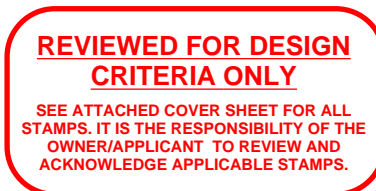
My license renewal date for the state of Arizona is December 31, 2025.

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.



EXPIRES ~~12/31/2025~~



December 23, 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.

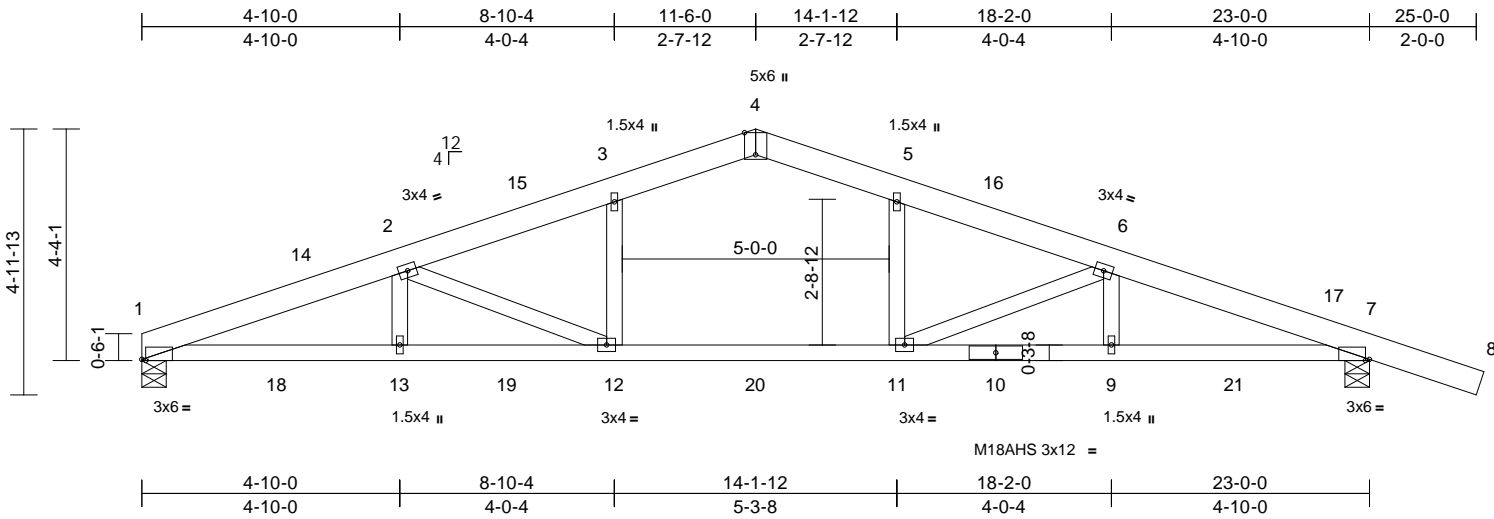
Job 25-7751	Truss A01	Truss Type Common	Qty 3	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871609
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:39

Page: 1

ID:ZlqHK5iSPNSFAFS9nHf73Py7Lz-rd6lABQ7oRA3oLoZBnAOD2x0HoJzpmef1_DvHzUy6_jC



Scale = 1:43.2

Plate Offsets (X, Y): [1:0-0-14,Edge], [4:0-4-15,Edge], [7:0-0-14,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	0.44	Vert(LL)	-0.28	9-11	>975	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.42	9-11	>640	180	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-SH								
											Weight: 110 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 1=1175/0-5-8, 7=1367/0-5-8
Max Horiz 1=-90 (LC 19)
Max Uplift 1=-181 (LC 10), 7=-286 (LC 11)
Max Grav 1=1399 (LC 21), 7=1587 (LC 22)

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

TOP CHORD 1-14=-3286/443, 2-14=-3183/454, 2-15=-2227/297, 3-15=-2095/302, 3-4=-1949/332, 4-5=-1953/319, 5-16=-2087/281, 6-16=-2218/277, 6-17=-3155/402, 7-17=-3249/384

BOT CHORD 1-18=-352/3023, 13-18=-352/3023, 13-19=-352/3023, 12-19=-352/3023, 12-20=-124/1953, 11-20=-124/1953, 10-11=-311/2954, 9-10=-311/2954, 9-21=-311/2954, 7-21=-311/2954

WEBS 3-12=-52/509, 5-11=-41/602, 2-13=0/269, 2-12=-1165/304, 6-9=0/332, 6-11=-1096/276

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 11-6-0, Zone2 11-6-0 to 15-8-15, Zone1 15-8-15 to 25-0-14 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

- 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=1.20; 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) 150.0lb AC unit load placed on the top chord, 11-6-0 from left end, supported at two points, 5-0-0 apart.
- 6) Uninhabitable Mechanical zone exists 11-12.
- 7) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 1 and 286 lb uplift at joint 7.
- 12) 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.
- 13) 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: 1-3=-76, 3-4=-86, 4-5=-86, 5-8=-76, 1-7=-20
Concentrated Loads (lb)
Vert: 3=-75, 5=-75



EXPIRES: 12/31/2025
December 23, 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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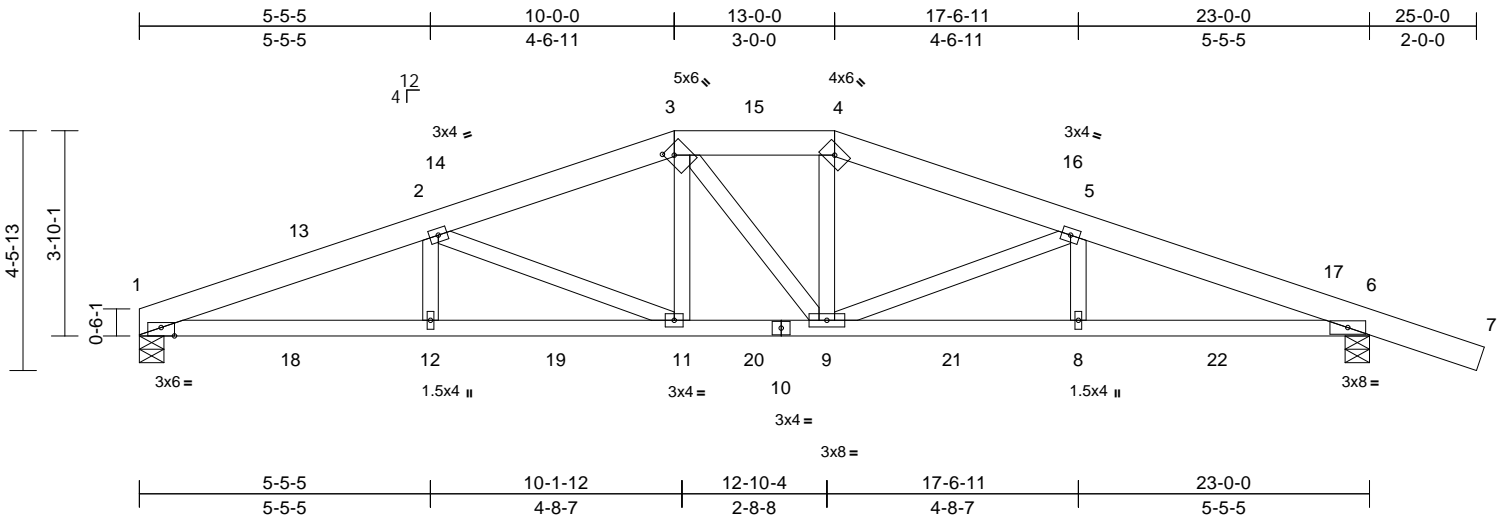
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss A02	Truss Type Hip	Qty 2	Ply 1	Yavapai County HMO Phase1 Job Reference (optional)	Reviewed for Design Criteria Only R91871610
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

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Page: 1



Scale = 1:43.1

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

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	0.18	Vert(LL)	-0.13	11-12	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.21	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-SH								
											Weight: 119 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-0-0 oc bracing.

REACTIONS

(lb/size) 1=1073/0-5-8, 6=1266/0-5-8
 Max Horiz 1=-81 (LC 19)
 Max Uplift 1=-293 (LC 10), 6=-397 (LC 11)
 Max Grav 1=1395 (LC 35), 6=1688 (LC 35)

FORCES

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

TOP CHORD

1-13=-3136/744, 2-13=-3036/756,
 2-14=-2283/630, 3-14=-2266/647,
 3-15=-2097/663, 4-15=-2097/663,
 4-16=-2257/658, 5-16=-2262/641,
 5-17=-2928/760, 6-17=-3048/740

BOT CHORD

1-18=-624/2867, 12-18=-624/2867,
 12-19=-624/2867, 11-19=-624/2867,
 11-20=-443/2102, 10-20=-443/2102,
 9-10=-443/2102, 9-21=-641/2746,
 8-21=-641/2746, 8-22=-641/2746,
 6-22=-641/2746

WEBS

3-11=-49/454, 4-9=-43/354, 2-11=-885/239,
 2-12=0/273, 5-9=-763/214, 5-8=0/307

NOTES

- Wind: ASCE 7-22; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 10-0-0, Zone3 10-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 25-0-14 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=1.20; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 293 lb uplift at joint 1 and 397 lb uplift at joint 6.
- 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
 December 23, 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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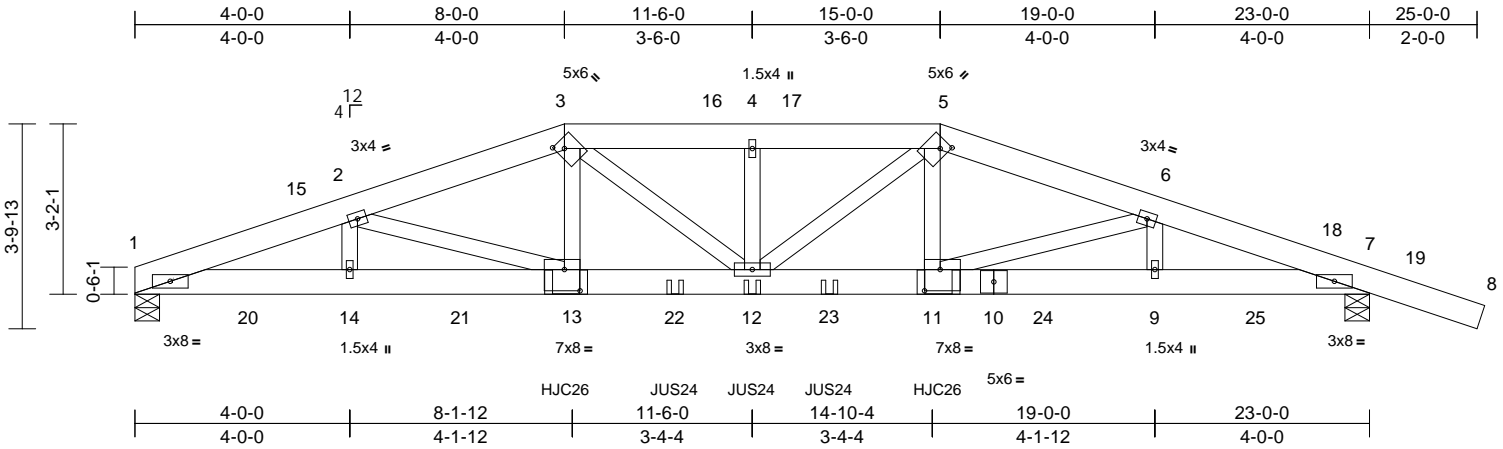
Job 25-7751	Truss A03	Truss Type Hip Girder	Qty 2	Ply 2	Yavapai County HMO Phase1 Job Reference (optional)	Reviewed for Design Criteria Only R91871611
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.40 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:40

Page: 1

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Scale = 1:42.9

Plate Offsets (X, Y): [3:0-2-0,0-1-12], [5:0-2-0,0-1-12], [11:0-3-8,0-4-12], [13:0-3-8,0-4-12]

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	0.15	Vert(LL)	-0.15	12-13	>999	240	MT20	266/220
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.22	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-SH								
BCDL	10.0											
											Weight: 296 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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 (lb/size) 1=3106/0-5-8, 7=3299/0-5-8
Max Horiz 1=-71 (LC 11)
Max Uplift 1=-860 (LC 10), 7=-964 (LC 11)
Max Grav 1=3332 (LC 21), 7=3563 (LC 35)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-8598/2303, 2-15=-8506/2308, 2-3=-8726/2406, 3-16=-9005/2539, 4-16=-9005/2539, 4-17=-9004/2539, 5-17=-9005/2539, 5-6=-8735/2414, 6-18=-8387/2294, 7-18=-8494/2283
BOT CHORD 1-20=-2094/8005, 14-20=-2094/8005, 14-21=-2094/8005, 13-21=-2094/8005, 13-22=-2171/8345, 12-22=-2171/8345, 12-23=-2189/8357, 11-23=-2189/8357, 10-11=-2094/7885, 10-24=-2094/7885, 9-24=-2094/7885, 9-25=-2094/7885, 7-25=-2094/7885
WEBS 2-13=-221/636, 3-13=-411/1707, 3-12=-286/1134, 4-12=-260/114, 5-12=-284/1102, 5-11=-414/1755, 6-11=-190/715

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 3-13 2x4 - 2 rows staggered at 0-5-0 oc, Except member 5-11 2x4 - 2 rows staggered at 0-5-0 oc, member 4-12 2x4 - 1 row at 0-7-0 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (enveloppe) exterior (2) zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 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 19-0-0, Zone1 19-0-0 to 25-0-14 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=1.20; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 860 lb uplift at joint 1 and 964 lb uplift at joint 7.
- Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 6-11-4 oc max. starting at 8-0-6 from the left end to 14-11-10 to connect truss(es) to back face of bottom chord.
- Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into 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 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



EXPIRES: 12/31/2025
December 23, 2025

Continued on page 2

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

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

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Job 25-7751	Truss A03	Truss Type Hip Girder	Qty 2	Ply 2	Yavapai County HMO Phase 1 Job Reference (optional)	<div style="border: 1px solid red; border-radius: 5px; padding: 2px; display: inline-block;"> Reviewed for Design Criteria Only </div> R91871611
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

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Page: 2

- 1) Dead + 0.7 Snow (balanced): Lumber Increase=1.15,
 Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-3=-76, 3-5=-76, 5-8=-76, 1-7=-20
 Concentrated Loads (lb)
 Vert: 13=-1350 (B), 12=-455 (B), 11=-1350 (B),
 22=-455 (B), 23=-455 (B)

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

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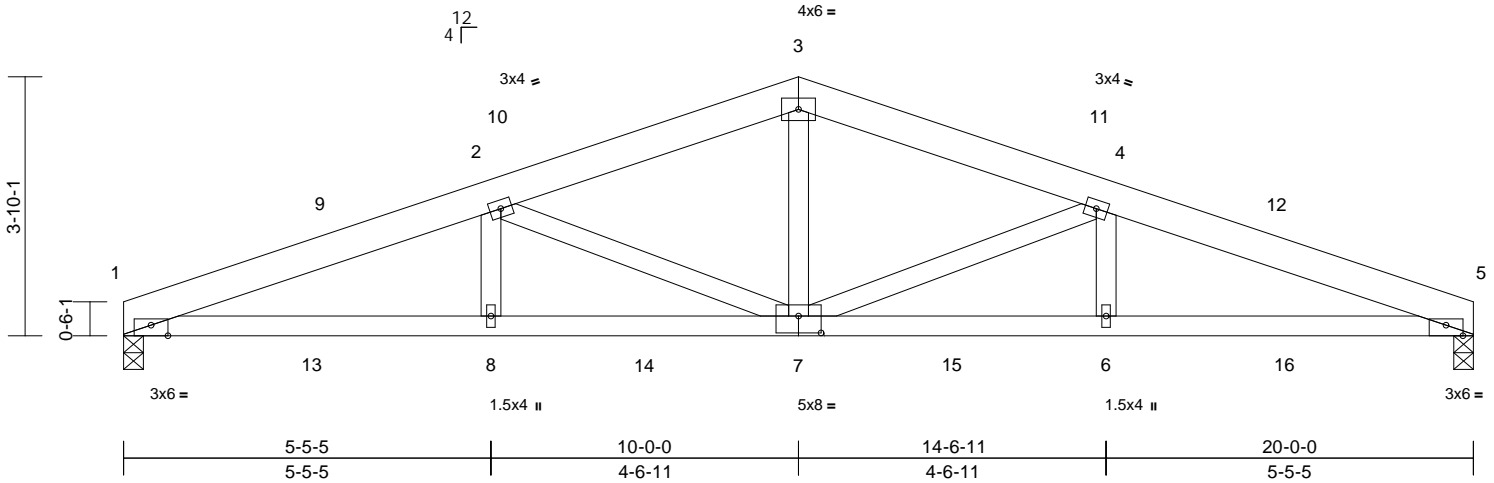
Job 25-7751	Truss B01	Truss Type Common	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871612
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:41

Page: 1

ID:NvBZb9nD?DCPuavJ7YmYlgy7lzi-jOLG?ZTdsfgVHy6KQdFKNu6lYPhltZlcvqtV6Fy6_j8



Scale = 1:34.1

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

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	0.17	Vert(LL)	-0.08	6-7	>999	240	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.15	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	5	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-SH								
BCDL	10.0											
										Weight: 94 lb	FT = 10%	

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.

REACTIONS

(lb/size) 1=946/0-3-8, 5=946/0-3-8
 Max Horiz 1=61 (LC 18)
 Max Uplift 1=248 (LC 10), 5=248 (LC 11)
 Max Grav 1=1138 (LC 20), 5=1138 (LC 21)

FORCES

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

TOP CHORD 1-9=-2442/680, 2-9=-2345/692, 2-10=-1541/538, 3-10=-1529/556, 3-11=-1529/556, 4-11=-1541/538, 4-12=-2345/692, 5-12=-2442/680
 BOT CHORD 1-13=-580/2224, 8-13=-580/2224, 8-14=-580/2224, 7-14=-580/2224, 7-15=-587/2224, 6-15=-587/2224, 6-16=-587/2224, 5-16=-587/2224
 WEBS 2-8=0/320, 2-7=-915/244, 3-7=-148/550, 4-7=-915/246, 4-6=0/320

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 19-10-4 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=1.20; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 248 lb uplift at joint 1 and 248 lb uplift at joint 5.
- 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
 December 23, 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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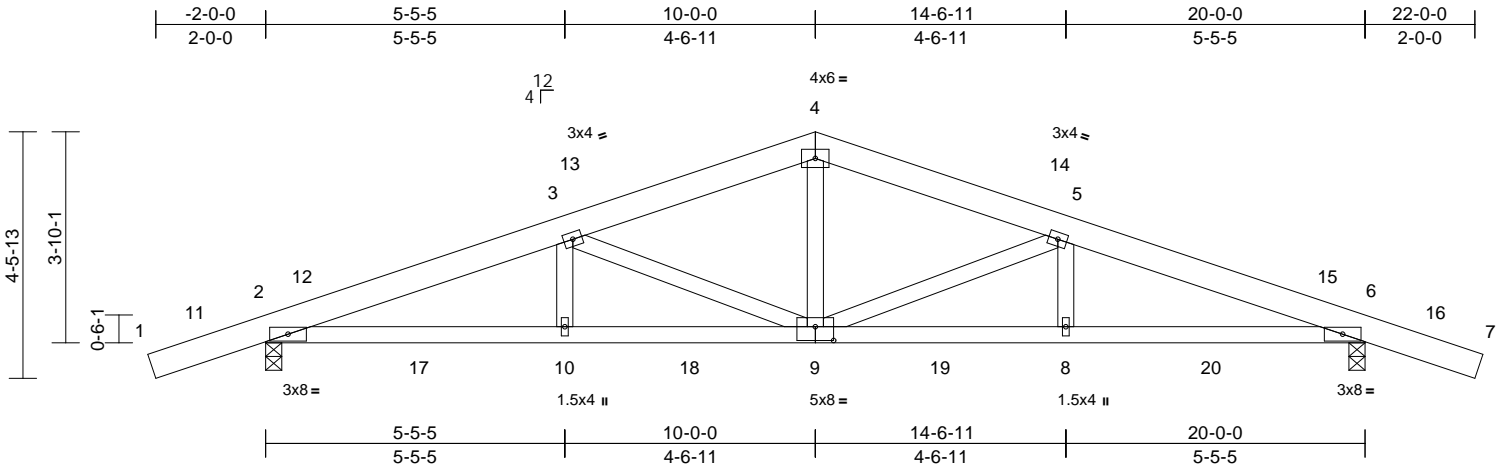
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 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 25-7751	Truss B02	Truss Type Common	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871613
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:41
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Page: 1



Scale = 1:41.9

Plate Offsets (X, Y): [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	0.14	Vert(LL)	-0.08	8-9	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.14	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-SH								
											Weight: 103 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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 (lb/size) 2=1115/0-3-8, 6=1115/0-3-8
Max Horiz 2=-71 (LC 19)
Max Uplift 2=-347 (LC 10), 6=-347 (LC 11)
Max Grav 2=1360 (LC 21), 6=1360 (LC 22)

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

TOP CHORD 2-12=-2351/594, 3-12=-2241/614, 3-13=-1493/479, 4-13=-1481/496, 4-14=-1481/496, 5-14=-1493/479, 5-15=-2241/613, 6-15=-2351/594
BOT CHORD 2-17=-486/2106, 10-17=-486/2106, 10-18=-486/2106, 9-18=-486/2106, 9-19=-501/2106, 8-19=-501/2106, 8-20=-501/2106, 6-20=-501/2106
WEBS 3-10=0/318, 3-9=-833/227, 4-9=-96/506, 5-9=-833/226, 5-8=0/318

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 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 & 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=1.20; 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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 2 and 347 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
December 23, 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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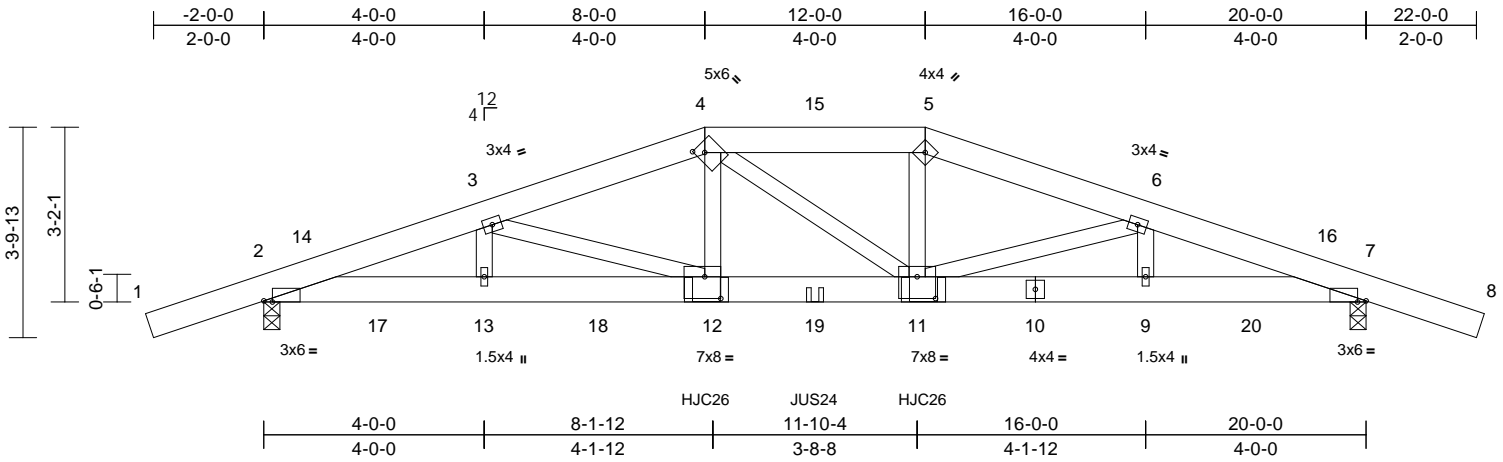
Job 25-7751	Truss B03	Truss Type Hip Girder	Qty 1	Ply 2	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871614
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:41

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Scale = 1:41.8

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

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	Vert(LL)	-0.10	9-11	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.15	9-11	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-SH							
Weight: 262 lb											FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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 (lb/size) 2=2622/0-3-8, 7=2622/0-3-8
Max Horiz 2=59 (LC 18)
Max Uplift 2=-782 (LC 10), 7=-782 (LC 11)
Max Grav 2=2941 (LC 35), 7=2941 (LC 35)

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

TOP CHORD 2-14=-6685/1897, 3-14=-6577/1908, 3-4=-6548/1939, 4-15=-6369/1945, 5-15=-6369/1945, 5-6=-6654/1984, 6-16=-6684/1953, 7-16=-6798/1941

BOT CHORD 2-17=-1719/6199, 13-17=-1719/6199, 13-18=-1719/6199, 12-18=-1719/6199, 12-19=-1715/6260, 11-19=-1715/6260, 10-11=-1774/6300, 9-10=-1774/6300, 9-20=-1774/6300, 7-20=-1774/6300

WEBS 3-12=-242/381, 4-12=-398/1660, 4-11=-110/434, 5-11=-414/1719, 6-11=-206/400

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, Except member 5-11 2x4 - 2 rows staggered at 0-5-0 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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone 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 16-0-0, Zone1 16-0-0 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=1.20; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 782 lb uplift at joint 2 and 782 lb uplift at joint 7.

- Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 3-11-4 oc max. starting at 8-0-6 from the left end to 11-11-10 to connect truss(es) to front face of bottom chord.
- Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 10-0-0 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=-76, 4-5=-76, 5-8=-76, 2-7=-20
Concentrated Loads (lb)
Vert: 12=-1280 (F), 11=-1280 (F), 19=-455 (F)



EXPIRES: 12/31/2025
December 23, 2025

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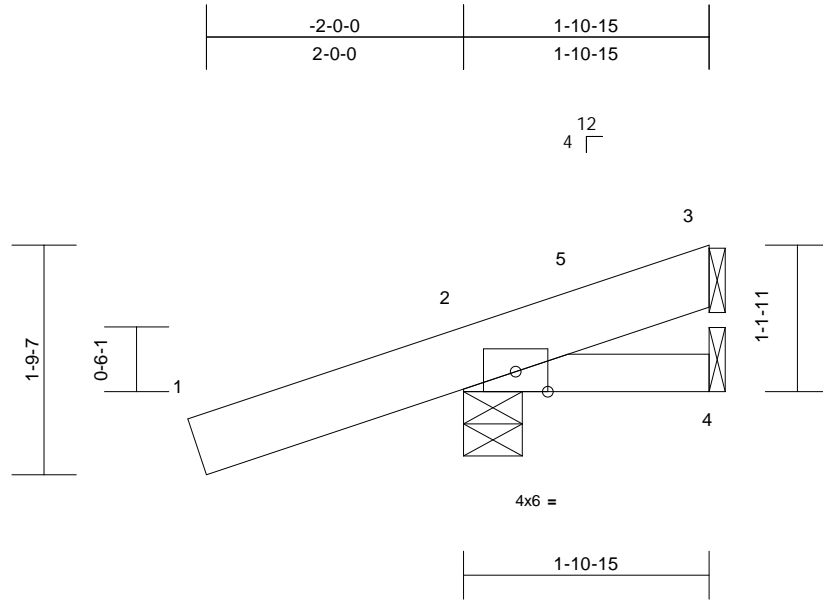
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Job 25-7751	Truss J02	Truss Type Jack-Open	Qty 12	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871615
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

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Page: 1



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	0.12	Vert(LL)	0.00	2-4	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>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	IRC2024/TPI2022	Matrix-P								
											Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E

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

(lb/size) 2=342/0-5-8, 3=-22/ Mechanical, 4=19/ Mechanical
Max Horiz 2=71 (LC 10)
Max Uplift 2=-164 (LC 10), 3=-141 (LC 20)
Max Grav 2=508 (LC 21), 3=21 (LC 12), 4=37 (LC 5)

FORCES

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

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 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=1.20; 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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3 and 164 lb uplift at joint 2.
- 10) Wane is prohibited in the bearing area at joint 5.
- 11) 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
December 23, 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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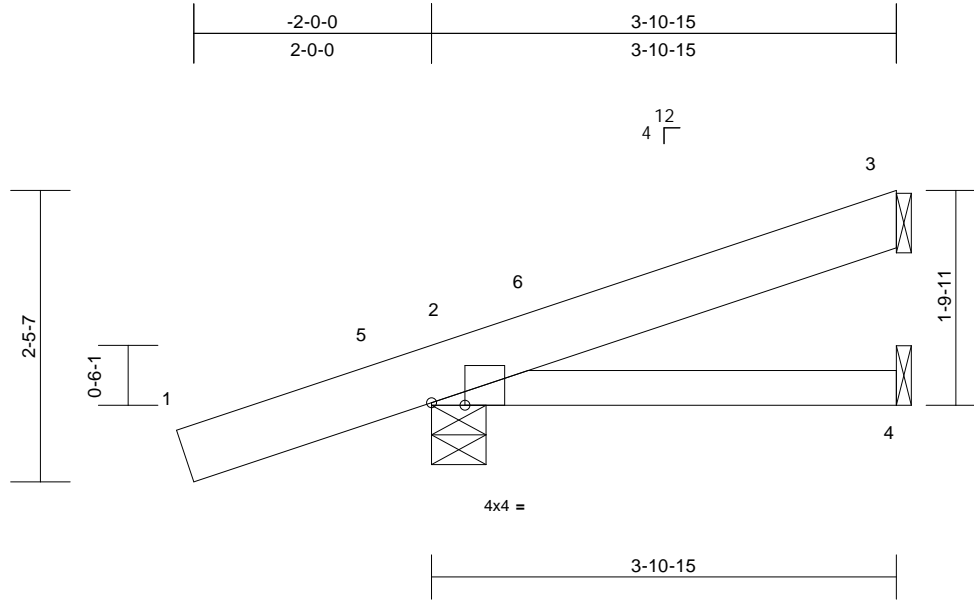
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Roseville, CA 95661
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Job 25-7751	Truss J04	Truss Type Jack-Open	Qty 9	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871616
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:42
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Page: 1



Scale = 1:19.4
Plate Offsets (X, Y): [2:0-3-6,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	0.14	Vert(LL)	-0.01	2-4	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	2-4	>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	IRC2024/TPI2022	Matrix-P		ParEv(LL)	n/a	-	n/a	999		
											Weight: 19 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E

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 (lb/size) 2=404/0-5-8, 3=82/ Mechanical, 4=36/ Mechanical
Max Horiz 2=105 (LC 10)
Max Uplift 2=-169 (LC 10), 3=-70 (LC 14)
Max Grav 2=593 (LC 21), 3=124 (LC 21), 4=72 (LC 5)

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

- 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 70 lb uplift at joint 3 and 169 lb uplift at joint 2.
- Wane is prohibited in the bearing area at joint 6.
- 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; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 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
 - 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=1.20; 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.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.



EXPIRES: 12/31/2025
December 23, 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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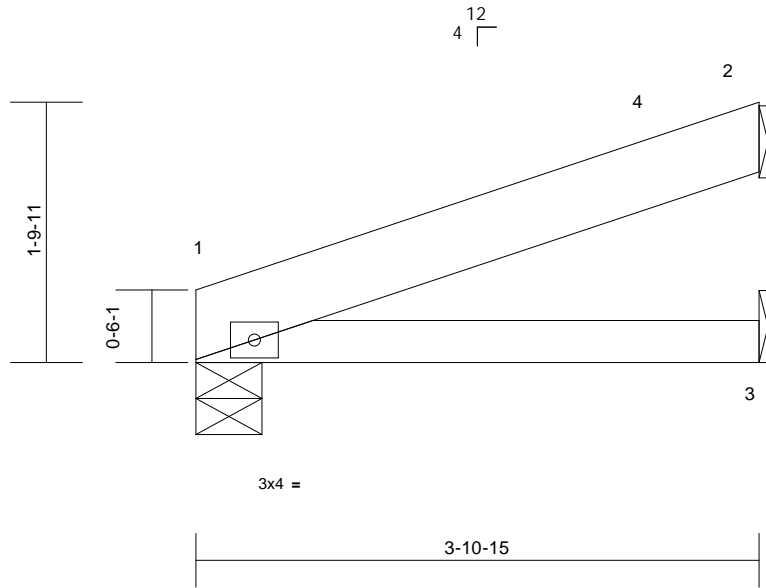
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss J04A	Truss Type Jack-Open	Qty 2	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871617
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:42
ID:ZlqHK5iSPNSFAFS9nHf73Py7Lz-BaveDvUFdzoMu6hW_KmZw5exhpD0U7Sm8Ud2fhy6_j7

Page: 1



Scale = 1:16

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	0.08	Vert(LL)	-0.01	1-3	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	1-3	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-P		ParEv(LL)	n/a	-	n/a	999		
											Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E

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

(lb/size) 1=174/0-5-8, 2=138/ Mechanical, 3=36/ Mechanical
Max Horiz 1=74 (LC 10)
Max Uplift 1=-38 (LC 10), 2=-88 (LC 10)
Max Grav 1=244 (LC 20), 2=208 (LC 20), 3=72 (LC 5)

FORCES

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

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 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=1.20; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 38 lb uplift at joint 1 and 88 lb uplift at joint 2.
 - 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
December 23, 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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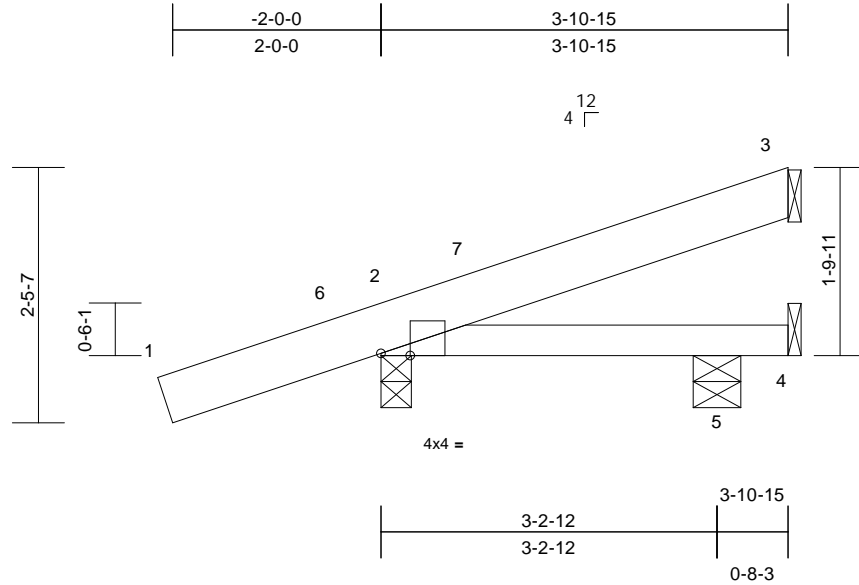
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss J04B	Truss Type Jack-Open	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871618
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:42
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Page: 1



Scale = 1:22.1

Plate Offsets (X, Y): [2:0-3-6,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	0.13	Vert(LL)	0.00	2-5	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	2-5	>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	IRC2024/TPI2022	Matrix-P		ParEv(LL)	n/a	-	n/a	999		
											Weight: 19 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E

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

All bearings 0-1-8, except 2=0-3-8, 5=0-5-8
(lb) - Max Horiz 2=105 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 3, 4 except 2=172 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 3, 4, 5 except 2=570 (LC 21)

FORCES

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

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 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=1.20; 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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 3, 171 lb uplift at joint 2 and 52 lb uplift at joint 4.
- 10) Wane is prohibited in the bearing area at joint 5.
- 11) 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
December 23, 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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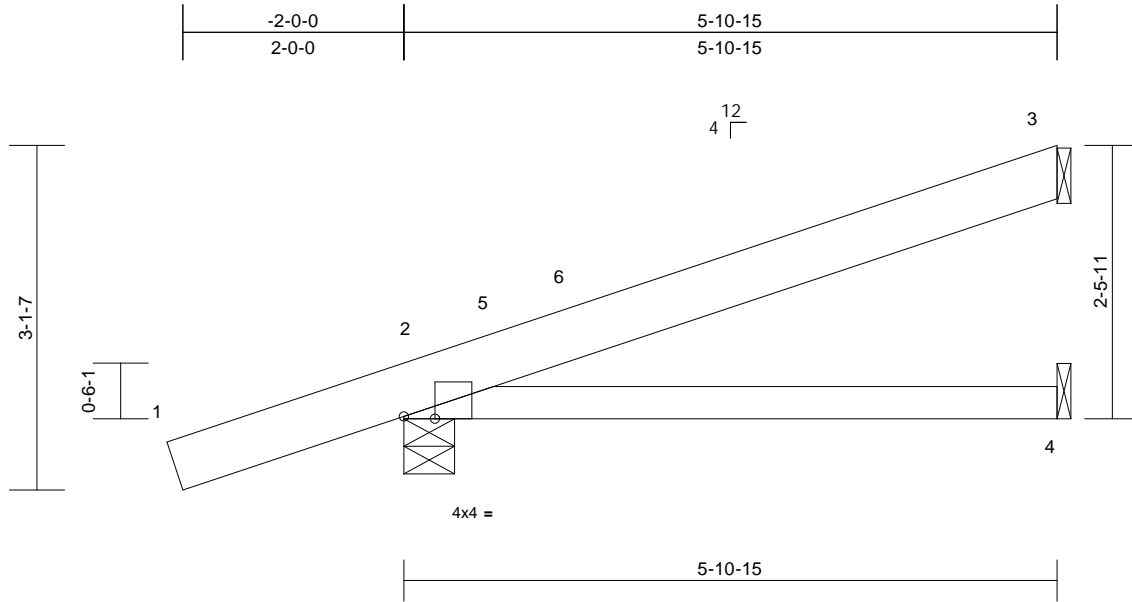
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss J06	Truss Type Jack-Open	Qty 9	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871619
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:42
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Page: 1



Scale = 1:20.9

Plate Offsets (X, Y): [2:0-3-6,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	0.14	Vert(LL)	-0.06	2-4	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.11	2-4	>604	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-P		ParEv(LL)	n/a	-	n/a	999		
											Weight: 27 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

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

REACTIONS (lb/size) 2=481/0-5-8, 3=178/ Mechanical, 4=56/ Mechanical
Max Horiz 2=140 (LC 10)
Max Uplift 2=-180 (LC 10), 3=-123 (LC 14)
Max Grav 2=699 (LC 21), 3=269 (LC 21), 4=112 (LC 5)

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

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 to 5-10-3 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=1.20; 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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 3 and 180 lb uplift at joint 2.
- 10) Wane is prohibited in the bearing area at joint 3.
- 11) 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
December 23, 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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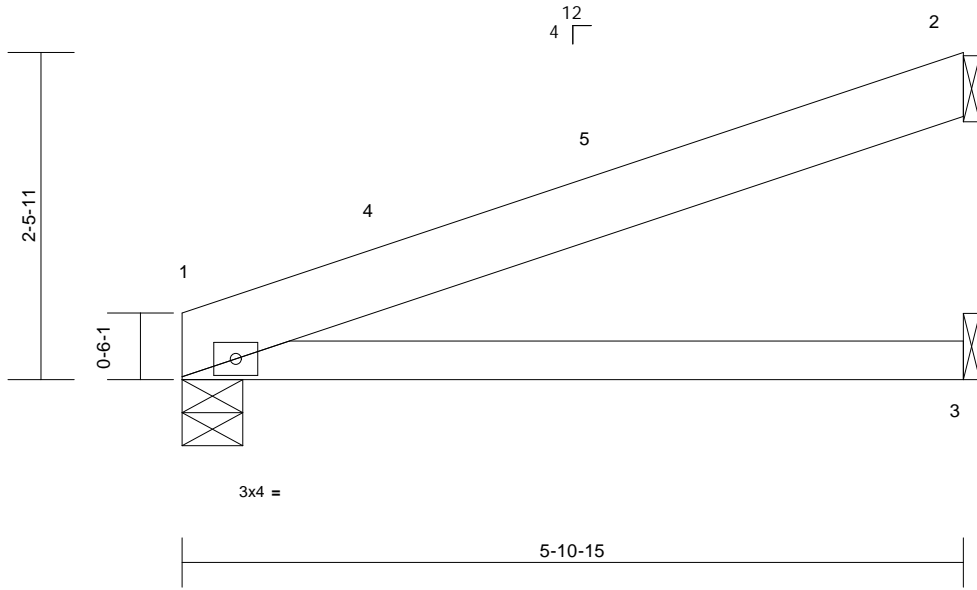
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss J06A	Truss Type Jack-Open	Qty 2	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871620
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:42
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Page: 1



Scale = 1:17.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFLL	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)	-0.06	1-3	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.11	1-3	>604	180		
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-P		ParEv(LL)	n/a	-	n/a	999		
											Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

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

REACTIONS

(lb/size) 1=270/0-5-8, 2=214/ Mechanical, 3=56/ Mechanical
Max Horiz 1=109 (LC 10)
Max Uplift 1=-61 (LC 10), 2=-135 (LC 10)
Max Grav 1=380 (LC 20), 2=323 (LC 20), 3=112 (LC 5)

FORCES

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

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 5-10-3 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=1.20; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 61 lb uplift at joint 1 and 135 lb uplift at joint 2.
 - 9) Wane is prohibited in the bearing area at joint 5.
 - 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
December 23, 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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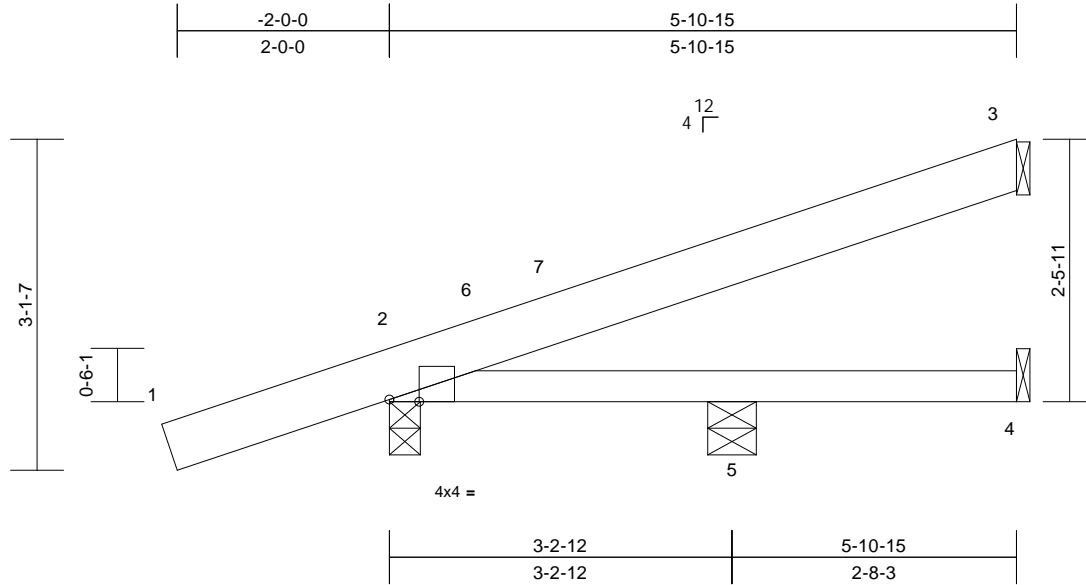
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss J06B	Truss Type Jack-Open	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871621
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:42
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Page: 1



Scale = 1:21.7
Plate Offsets (X, Y): [2:0-3-6,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	0.16	Vert(LL)	0.00	2-5	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	2-5	>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	IRC2024/TPI2022	Matrix-P		ParEv(LL)	n/a	-	n/a	999		
											Weight: 27 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E

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

REACTIONS All bearings 0-1-8, except 2=0-3-8, 5=0-5-8
(lb) - Max Horiz 2=140 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=196 (LC 10), 3=126 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 4, 5 except 2=658 (LC 21), 3=279 (LC 21)

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

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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 125 lb uplift at joint 3 and 196 lb uplift at joint 2.
 - Wane is prohibited in the bearing area 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; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 to 5-10-3 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
 - 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=1.20; 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.



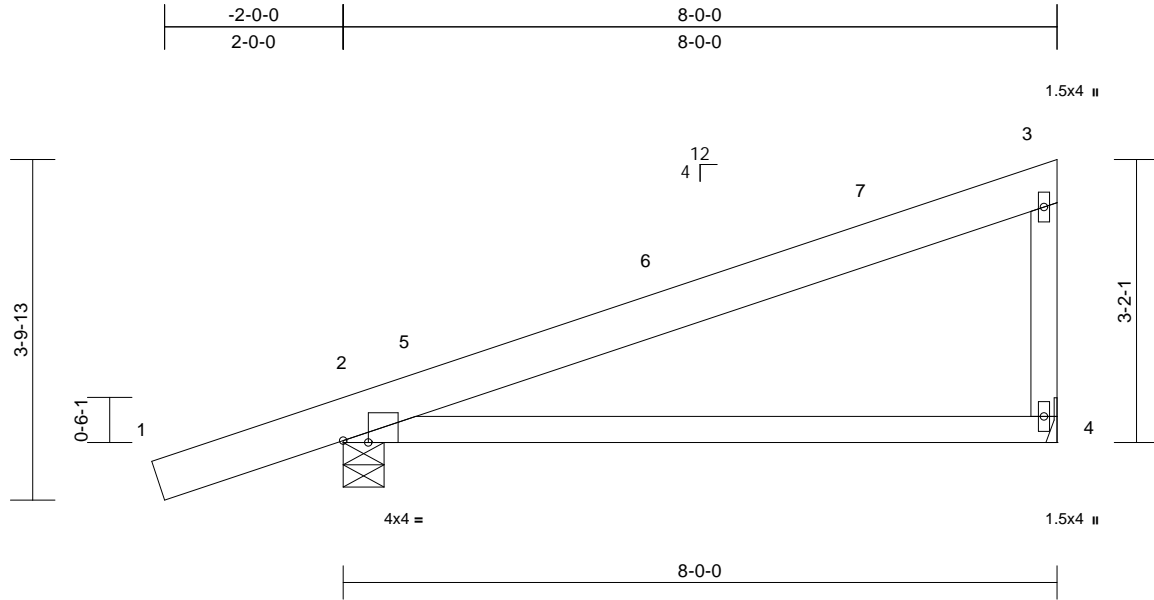
EXPIRES: 12/31/2025
December 23, 2025

Job 25-7751	Truss J08	Truss Type Jack-Closed	Qty 10	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871622
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:43
ID:zKVQz7LiIqq17AkSQDrg1y7zu-fmT0QFVuOHwDWGGjY2HoSJB2UCSnDaivM8McB8y6_j6

Page: 1



Scale = 1:25.8

Plate Offsets (X, Y): [2:0-3-6,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	0.33	Vert(LL)	-0.19	2-4	>484	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.38	2-4	>242	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-P		ParEv(LL)	0.00	3-4	>999	120		
											Weight: 37 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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 (lb/size) 2=567/0-5-8, 4=340/ Mechanical
Max Horiz 2=134 (LC 11)
Max Uplift 2=-214 (LC 10), 4=-104 (LC 10)
Max Grav 2=820 (LC 21), 4=475 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=399/306

- NOTES**
- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 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=1.20; 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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 4 and 214 lb uplift at joint 2.
- 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
December 23, 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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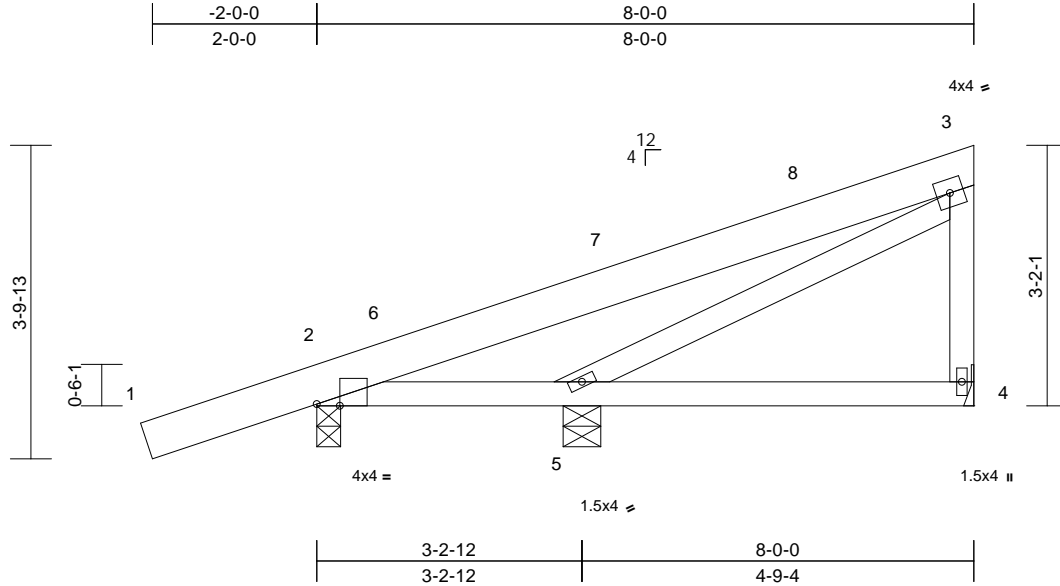
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss J08A	Truss Type Jack-Closed	Qty 2	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871623
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:43
ID:RW3oATmzTcyhfGlx07k4DFy7lzt-fmT0QFVuOHwDWGGjY2HoSJB2FCYnDaVvM8McB8y6_j6

Page: 1



Scale = 1:28

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

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	0.35	Vert(LL)	-0.02	4-5	>999	240	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.04	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-P		ParEv(LL)	0.00	3-4	>999	120		
BCDL	10.0										Weight: 45 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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

(lb/size) 2=492/0-3-8, 4=306/ Mechanical, 5=110/0-5-8
 Max Horiz 2=134 (LC 11)
 Max Uplift 2=-252 (LC 10), 4=-130 (LC 10), 5=-2 (LC 34)
 Max Grav 2=740 (LC 21), 4=443 (LC 21), 5=208 (LC 5)

FORCES

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

TOP CHORD 3-4=403/313

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 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=1.20; 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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 4, 252 lb uplift at joint 2 and 2 lb uplift at joint 5.
- 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
 December 23, 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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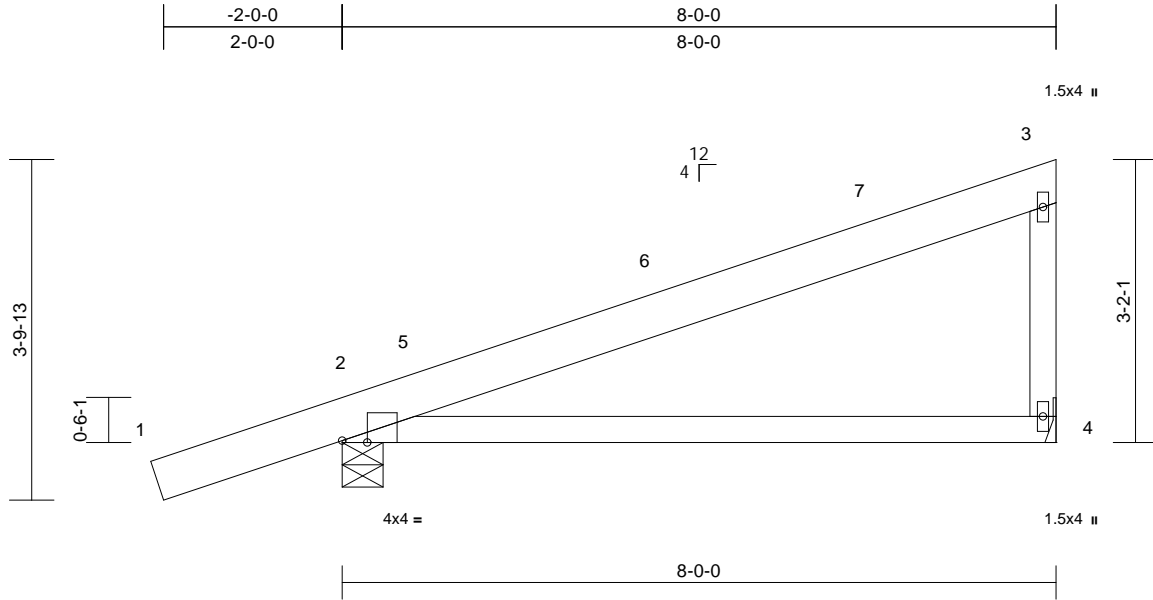
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 25-7751	Truss J08B	Truss Type Jack-Closed	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871624
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:43
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Page: 1



Scale = 1:25.8

Plate Offsets (X, Y): [2:0-3-6,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	0.33	Vert(LL)	-0.19	2-4	>484	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.38	2-4	>242	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-P		ParEv(LL)	0.00	3-4	>999	120		
											Weight: 37 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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

(lb/size) 2=567/0-5-8, 4=340/ Mechanical
 Max Horiz 2=134 (LC 11)
 Max Uplift 2=-214 (LC 10), 4=-104 (LC 10)
 Max Grav 2=820 (LC 21), 4=475 (LC 21)

FORCES

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

TOP CHORD 3-4=399/306

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-14 to 0-11-2, Zone1 0-11-2 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=1.20; 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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 4 and 214 lb uplift at joint 2.
- 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
 December 23, 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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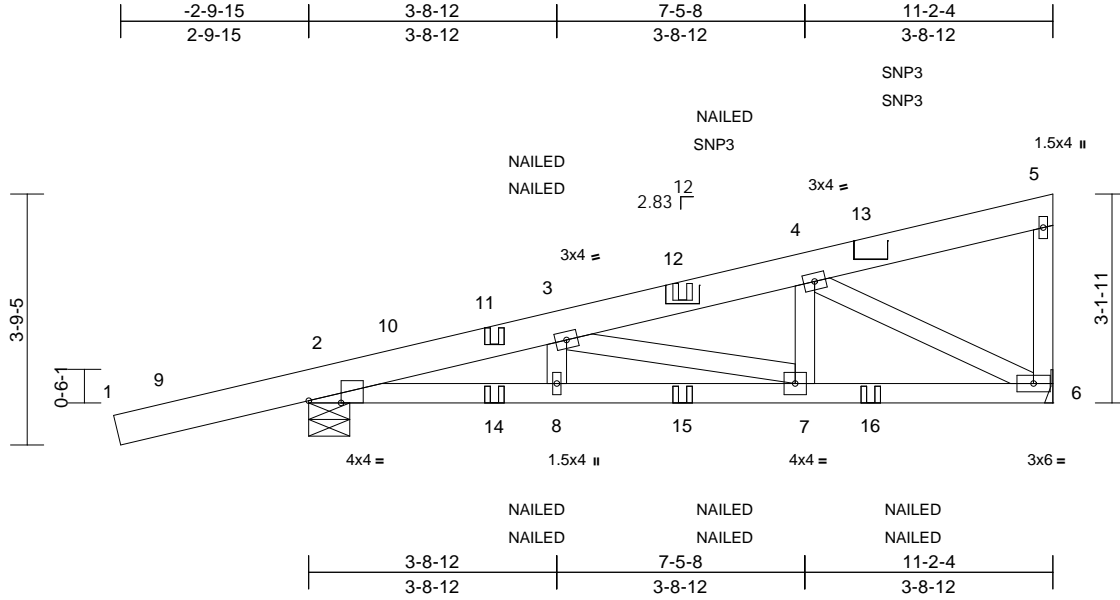
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 25-7751	Truss JC01	Truss Type Diagonal Hip Girder	Qty 3	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871625
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:43
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Page: 1



Scale = 1:34.6

Plate Offsets (X, Y): [2:0-5-13,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	0.30	Vert(LL)	-0.05	7-8	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-SH		ParEv(LL)	0.01	5-6	>999	120		
											Weight: 63 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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 (lb/size) 2=917/0-7-6, 6=861/ Mechanical
Max Horiz 2=112 (LC 11)
Max Uplift 2=302 (LC 10), 6=223 (LC 16)
Max Grav 2=1123 (LC 21), 6=924 (LC 21)

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

TOP CHORD 2-10=-1521/456, 10-11=-1489/456, 3-11=-1446/443, 3-12=-1329/423, 4-12=-1279/386

BOT CHORD 2-14=-383/1370, 8-14=-383/1370, 8-15=-383/1370, 7-15=-383/1370, 7-16=-416/1274, 6-16=-416/1274

WEBS 3-7=-292/335, 4-7=0/362, 4-6=-1416/445

NOTES

- Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone 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=1.20; 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.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- n/a
- 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 223 lb uplift at joint 6 and 302 lb uplift at joint 2.
- Use MiTek SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) to front face of top chord, skewed 45.0 deg.to the left, sloping -18.4 deg. down.
- Use MiTek SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 8-5-6 from the left end to connect truss(es) to front face of top chord, skewed 45.0 deg.to the left, sloping -18.4 deg. down.
- Use MiTek SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 8-5-6 from the left end to connect truss(es) to back face of top chord, skewed 45.0 deg.to the right, sloping -18.4 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.

- A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
- 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=-76, 2-6=-20
Concentrated Loads (lb)
Vert: 11=68 (F=34, B=34), 12=-124 (F=-101, B=-23), 13=-377 (F=-216, B=-162), 15=-16 (F=-8, B=-8), 16=-56 (F=-28, B=-28)



EXPIRES: 12/31/2025
December 23, 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.sbccomponents.com)

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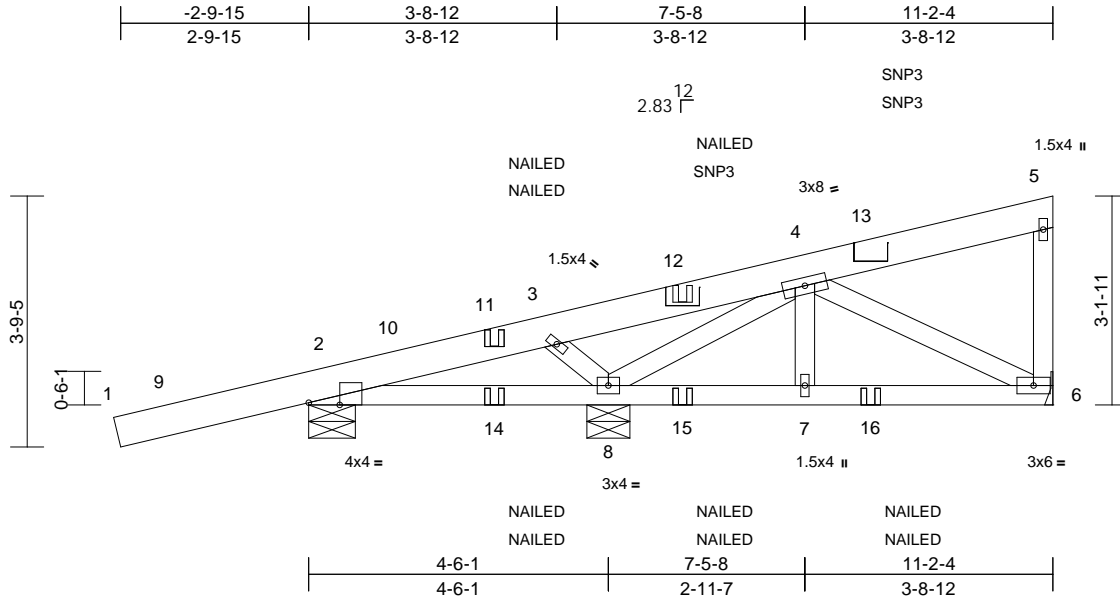
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss JC02	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871626
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:43
ID: V8y2lnkix?izPzcYuuic8qy7Izv-fmT0QFVuOHwDWGGjY2HoSJB3wCXeDWHvM8McB8y6_j6

Page: 1



Scale = 1:34.6
Plate Offsets (X, Y): [2:0-5-9,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	0.31	Vert(LL)	0.01	2-8	>999	240	MT20	203/168
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2024/TPI2022	Matrix-SH		ParEv(LL)	0.00	5-6	>999	120		
											Weight: 63 lb	FT = 10%

- LUMBER**
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud
- 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** (lb/size) 2=499/0-8-6, 6=571/ Mechanical, 8=637/0-7-12
Max Horiz 2=112 (LC 11)
Max Uplift 2=223 (LC 10), 6=178 (LC 10), 8=258 (LC 15)
Max Grav 2=689 (LC 20), 6=607 (LC 21), 8=691 (LC 21)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 8-15=-308/650, 7-15=-308/650, 7-16=-308/650, 6-16=-308/650
WEBS 3-8=-277/243, 4-8=-903/347, 4-6=-714/353
- NOTES**
1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone 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
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=1.20; 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 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
6) n/a
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 6, 223 lb uplift at joint 2 and 258 lb uplift at joint 8.
11) Use MiTek SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 8-5-6 from the left end to connect truss(es) to front face of top chord, skewed 45.0 deg.to the left, sloping -18.4 deg. down.
12) Use MiTek SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) to back face of top chord, skewed 45.0 deg.to the right, sloping -18.4 deg. down.
13) Use MiTek SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 8-5-6 from the left end to connect truss(es) to back face of top chord, skewed 45.0 deg.to the right, sloping -18.4 deg. down.
14) Fill all nail holes where hanger is in contact with lumber.
15) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 16) A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
17) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.
18) 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 + 0.7 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-76, 2-6=-20
Concentrated Loads (lb)
Vert: 11=68 (F=34, B=34), 12=-134 (F=-34, B=-101), 13=-387 (F=-171, B=-216), 15=46 (F=54, B=-8), 16=-28 (B)



EXPIRES: 12/31/2025
December 23, 2025

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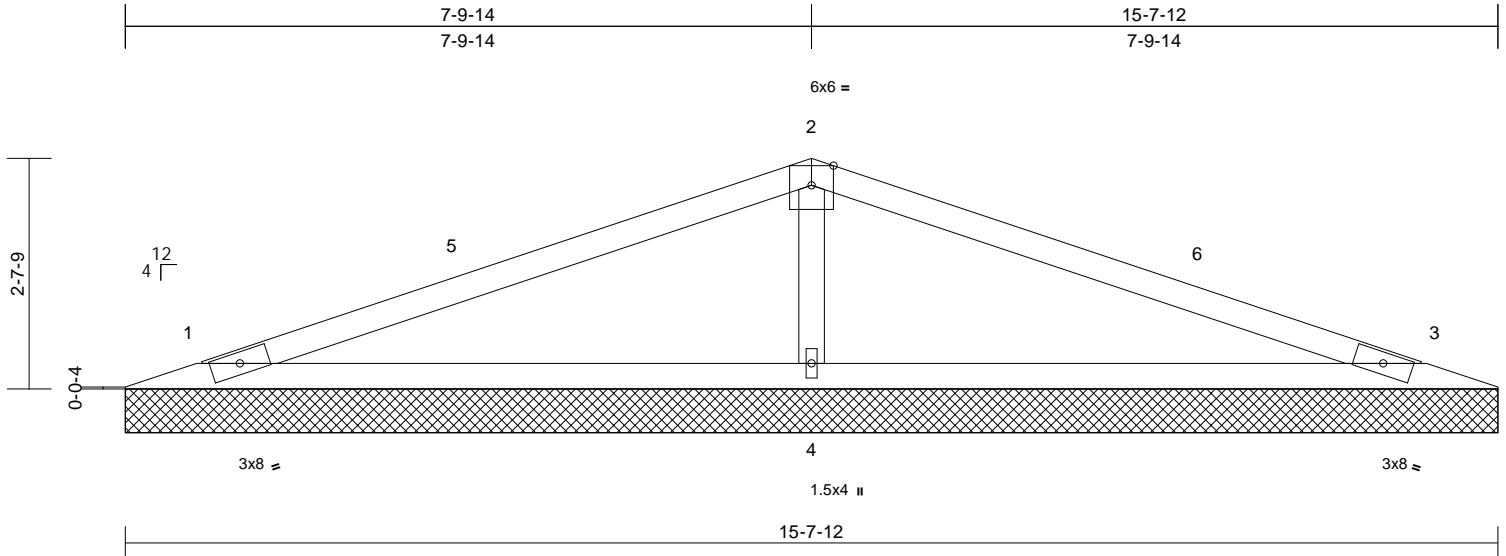
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 25-7751	Truss V01	Truss Type Valley	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871628
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:44
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Page: 1



Scale = 1:26.3

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	0.82	Vert(LL)	n/a	-	n/a	999	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.56	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-SH								
BCDL	10.0											
											Weight: 37 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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

(lb/size) 1=284/15-7-12, 3=284/15-7-12, 4=764/15-7-12
 Max Horiz 1=41 (LC 14)
 Max Uplift 1=95 (LC 10), 3=100 (LC 15), 4=161 (LC 10)
 Max Grav 1=420 (LC 20), 3=420 (LC 21), 4=764 (LC 1)

FORCES

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

WEBS

2-4=516/312

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-11-5 to 3-11-5, Zone1 3-11-5 to 7-10-10, Zone2 7-10-10 to 12-1-8, Zone1 12-1-8 to 14-9-15 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=1.20; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 1, 100 lb uplift at joint 3 and 161 lb uplift at joint 4.
- 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
 December 23, 2025

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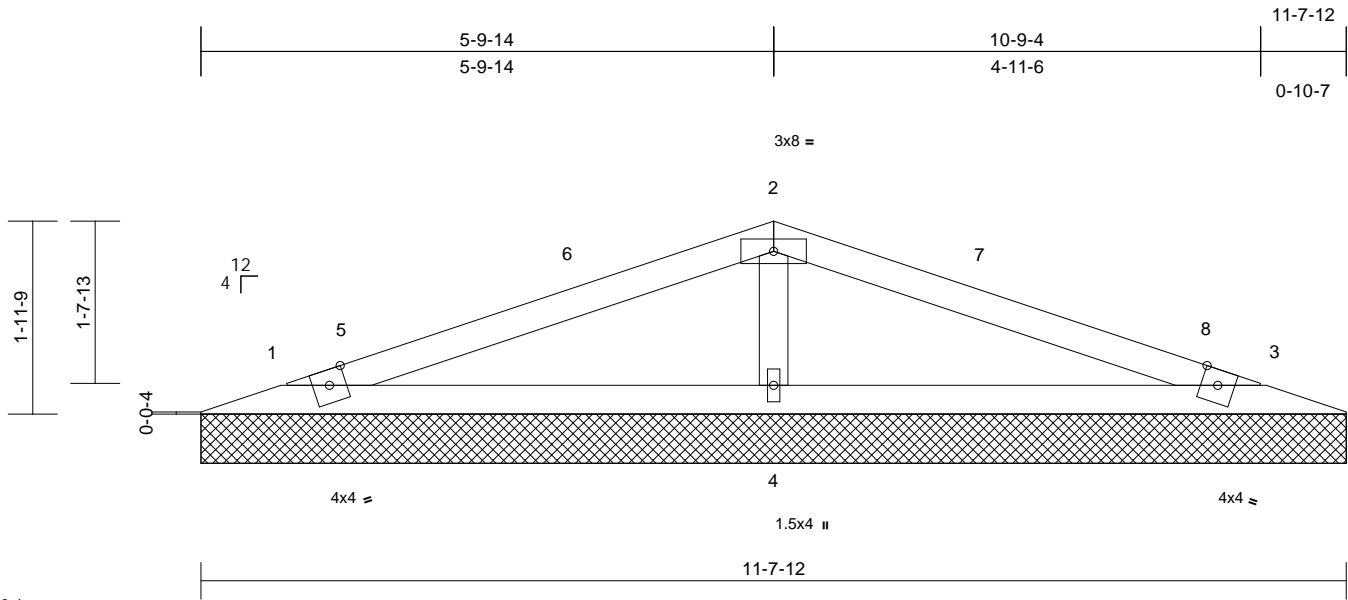
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 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 25-7751	Truss V02	Truss Type Valley	Qty 1	Ply 1	Yavapai County HMO Phase 1 Job Reference (optional)	Reviewed for Design Criteria Only R91871629
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Ballard Truss LLC (Mesa, AZ), Mesa, AZ - 85210,

Run: 25.40 E Dec 15 2025 Print: 25.4.0 E Dec 15 2025 MiTek Industries, Inc. Tue Dec 23 17:17:44
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Scale = 1:23.4

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	0.39	Vert(LL)	n/a	-	n/a	999	MT20	203/168
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2024/TPI2022	Matrix-SH								
BCDL	10.0										Weight: 27 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

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

(lb/size) 1=203/11-7-12, 3=203/11-7-12, 4=544/11-7-12
 Max Horiz 1=29 (LC 14)
 Max Uplift 1=-67 (LC 10), 3=-71 (LC 15), 4=-115 (LC 10)
 Max Grav 1=299 (LC 20), 3=299 (LC 21), 4=544 (LC 1)

FORCES

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

WEBS

2-4=-367/277

NOTES

- 1) Wind: ASCE 7-22; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Partially Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-11-5 to 3-11-5, Zone1 3-11-5 to 5-10-10, Zone2 5-10-10 to 10-1-8, Zone1 10-1-8 to 10-9-15 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=1.20; W2=0.55
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1, 71 lb uplift at joint 3 and 115 lb uplift at joint 4.
- 9) Install all permanent bracing per project-specific bracing requirements, designed by others, or per industry standard details.

LOAD CASE(S) Standard



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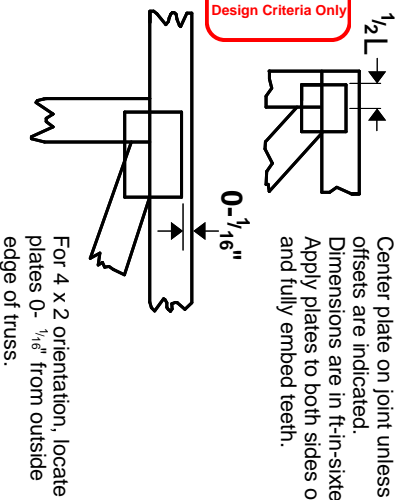
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Symbols

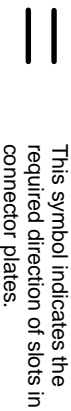
PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

Reviewed for Design Criteria Only



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



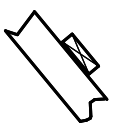
* Plate location details available in MITek software or upon request.

PLATE SIZE

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

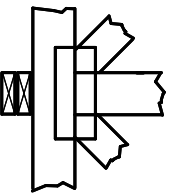
4 X 4

LATERAL BRACING LOCATION



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

BEARING



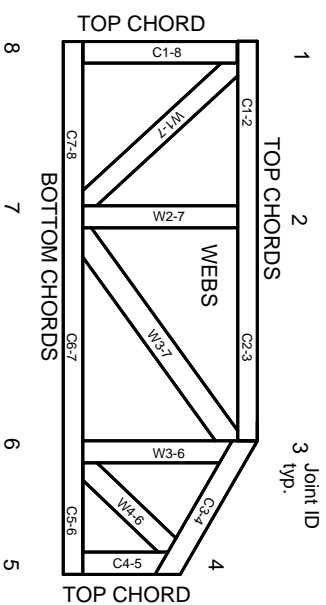
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



JOINTS ARE GENERALLY NUMBERED/LETTERED 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

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



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