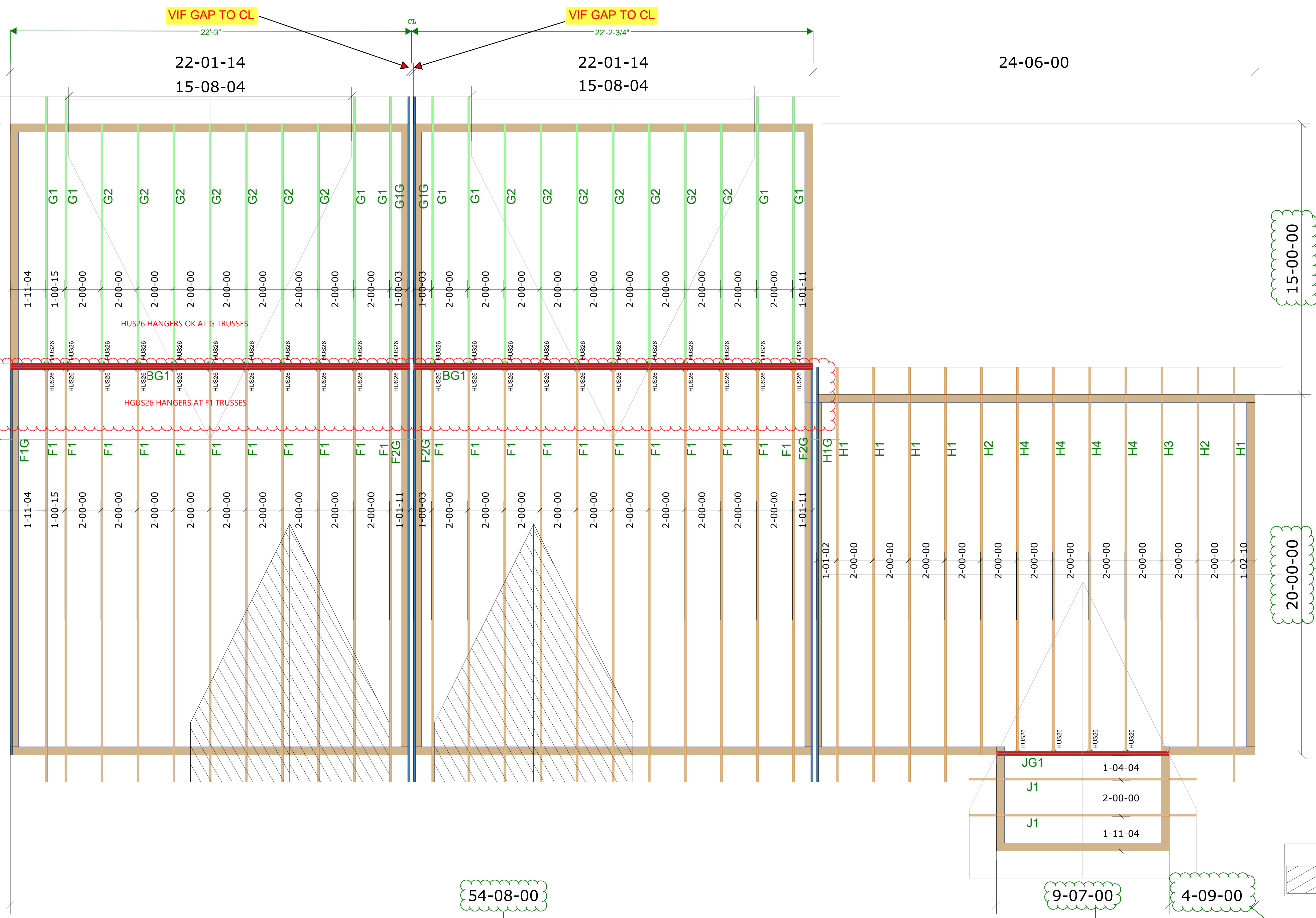


Actual dimensions have been field verified by KOCON. Arch/Structural Engineer to confirm clouded dimensions needed that are not shown on plans.

Arch/Engr Verify Scaled dimensions.
Notes for AOR/EOR:
- 34'-6" on Arch Dwgs

35'-0" CONFIRMED
Arch/Eng Verify these dimensions



Arch/Eng Verify.
14'-6" on Arch Dwgs
USE FIELD VERIFIED DIM. 15'-2"

Field Verified Actual: 20'-0"
20'-0" CONFIRMED

Field Verified Actual: 54'-8"
- 54'-8" on Structural
USE FIELD VERIFIED DIM: 54'-8"

Field Verified Actual: 9'-6 3/4"
Notes for AOR/EOR:
- 9'-7" on Structural
- 5'-3" on Structural
- 4'-11-3/4" on Architectural
USE FIELD VERIFIED DIM. 9'-6 3/4" + OVERHANG

Field Verified Actual: 4'-9"
Notes for AOR/EOR:
- 5'-3" on Structural
- 4'-11-3/4" on Architectural
USE FIELD VERIFIED DIM: 4'-9"

Hatch Legend

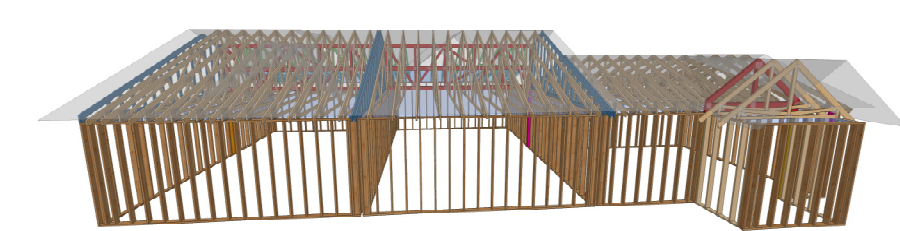
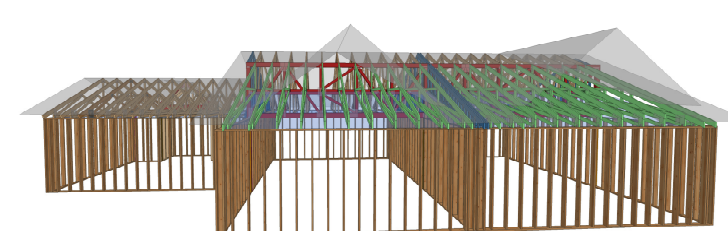
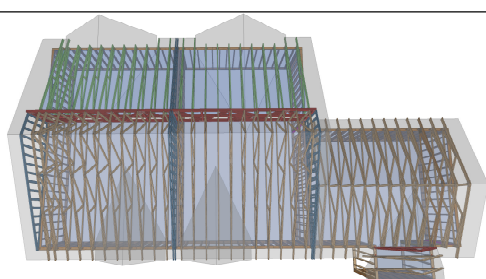
	Framing By Others
--	-------------------

- Notes:**
- 1) All Walls Shown Are Load Bearing.
 - 2) All Beams And Headers Are By Others.
 - 3) Truss Connections Are Toe-Nailed U.N.O.
 - 4) Verify ALL Truss Profiles
 - 5) Verify ALL Dimensions

Roof Area : 3019.89	16-01-08
Raked Overhang : 307.25	Field Inches/ft
Horizontal Overhang : 227.31	
Ridge : 118.35	
Valley : 157.4	
Hip : 0	Ceiling Area : 2419.7

Truss Connector Total List

Manuf	Product	Qty
Simpson	HUS26	48



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design as the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Oroville Drive, Madison, WI 53178.

Apine LUMBER
6148 Hwy 149 Road
Montrose, CO 81403
Phone: 970-249-0811 Fax: 970-249-1286

Customer:
KOCON LLC
2075 WALTON CREEK RD
STEAMBOAT SPRINGS, CO
BUILDING 2

Scale : 3/8" = 1'
Date: 8/21/2025
Building Code: IBC 2021
Drawn By: Henry Wolfe
Job Number: Q250434

MiTek, Inc.

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

Re: Q250434

KOCON LLC - Terrain at Walton Creek - Building #2

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Alpine Truss-Montrose, CO.

Pages or sheets covered by this seal: R91822875 thru R91822888

My license renewal date for the state of Colorado is October 31, 2027.



December 19, 2025

Zhao, Xiaoming

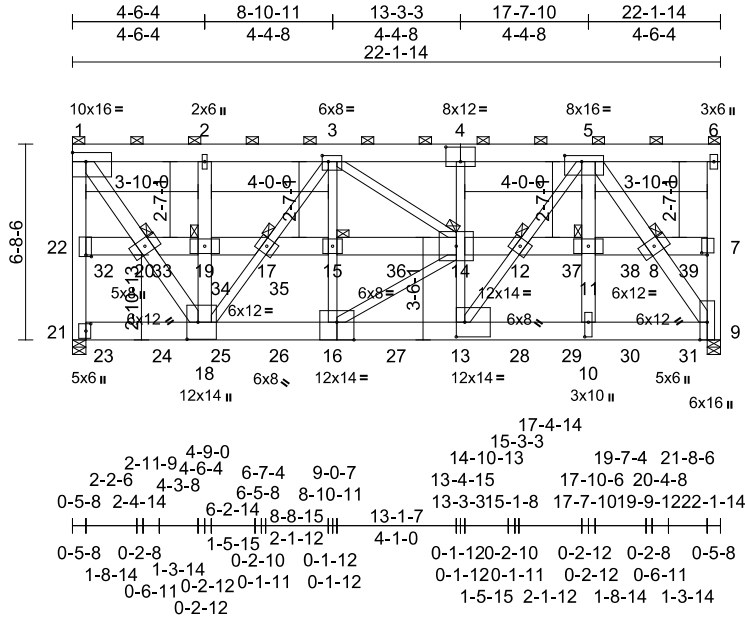
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 Q250434	Truss BG1	Truss Type	Qty 2	Ply 3	KOCON LLC Job Reference (optional)	R91822875
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:22
ID:XJLQ_aqVTCz9yJcVQzK1zUN8Q-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:78.8
[1:Edge,0-3-12], [3:0-2-8,0-2-8], [4:0-6-0,0-6-0], [5:0-7-0,0-2-8], [7:0-0-14,0-2-4], [10:0-6-0,0-1-8], [13:0-3-8,0-6-0], [16:0-7-0,Edge], [18:0-7-0,0-4-8], [21:0-3-0,0-2-0],
Plate Offsets (X, Y): [22:0-0-10,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	90.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.21	14-15	>999	360
(Roof Snow = 90.0)		Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.25	14-15	>999	240
TCDL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.07	9	n/a	n/a
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.01	13-16	>999	240
BCDL	10.0									

Weight: 839 lb FT = 20%

LUMBER
TOP CHORD 2x8 DF 1950F 1.7E
BOT CHORD 2x8 DF 1950F 1.7E
WEBS 2x6 SPF 1650F 1.5E *Except* 18-1,9-5:2x4
SPF 2100F 1.8E, 18-3,3-16,4-13,13-5:2x4
SPF 1650F 1.5E, 14-3,14-16:2x4 WW Stud

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

JOINTS 1 Brace at Jt(s): 1, 6, 14, 20, 19, 17, 15, 12, 11, 8

REACTIONS (size) 9=0-5-8, 21=0-5-8
Max Horiz 21=135 (LC 6)
Max Grav 9=26223 (LC 1), 21=26134 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 21-22=-23670/0, 1-22=-21022/0,
1-2=-15025/0, 2-3=-15239/0, 3-5=-22387/0,
5-6=-404/0, 7-9=-2528/0, 6-7=-465/11
BOT CHORD 18-21=-39/818, 13-18=0/22831,
10-13=0/15871, 9-10=0/15666, 20-22=-393/0,
19-20=-57/370, 17-19=-51/394,
15-17=-1207/0, 14-15=-1215/0, 12-14=0/551,
11-12=-1431/0, 8-11=-1394/0, 7-8=-166/22

WEBS 1-20=0/25131, 18-20=0/23769,
18-19=-2982/0, 2-19=-730/80,
17-18=-13485/0, 3-17=-11019/0,
15-16=0/4001, 3-15=0/7405, 3-14=0/874,
13-14=-3455/0, 4-14=-386/163,
12-13=0/10242, 5-12=0/13344,
10-11=0/5523, 5-11=0/7602, 5-8=-23911/0,
8-9=-26115/0, 14-16=0/1264

NOTES

- 3-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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.
Web connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, Except member 3-16
2x4 - 2 rows staggered at 0-6-0 oc, Except member 4-13
2x4 - 2 rows staggered at 0-6-0 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 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Provide adequate drainage to prevent water ponding.
- The Fabrication Tolerance at joint 18 = 12%, joint 16 = 12%
- 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.

9) Bearing at joint(s) 21, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2273 lb down at 1-0-15, 2272 lb down at 3-0-15, 2272 lb down at 5-0-15, 2272 lb down at 7-0-15, 2272 lb down at 8-10-11, 2272 lb down at 11-0-15, 2272 lb down at 13-3-3, 2272 lb down at 15-3-10, 2272 lb down at 17-0-15, and 2272 lb down at 19-0-15, and 2273 lb down at 21-0-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-6=-200, 9-21=-20, 7-22=-20



December 19, 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)

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

Job	Truss	Truss Type	Qty	Ply	KOCON LLC	R91822875
Q250434	BG1		2	3	Job Reference (optional)	

Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:22
 ID:XJlQ_aqVTCz9yjJcVQzZK1zUN8Q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

Concentrated Loads (lb)

Vert: 16=-2272 (F), 14=-2023 (B), 13=-2272 (F),
 15=-2023 (B), 12=-2023 (B), 23=-2273 (F), 24=-2272
 (F), 25=-2272 (F), 26=-2272 (F), 27=-2272 (F),
 28=-2272 (F), 29=-2272 (F), 30=-2272 (F), 31=-2273
 (F), 32=-1999 (B), 33=-1999 (B), 34=-2023 (B),
 35=-2023 (B), 36=-2023 (B), 37=-2023 (B), 38=-1999
 (B), 39=-1999 (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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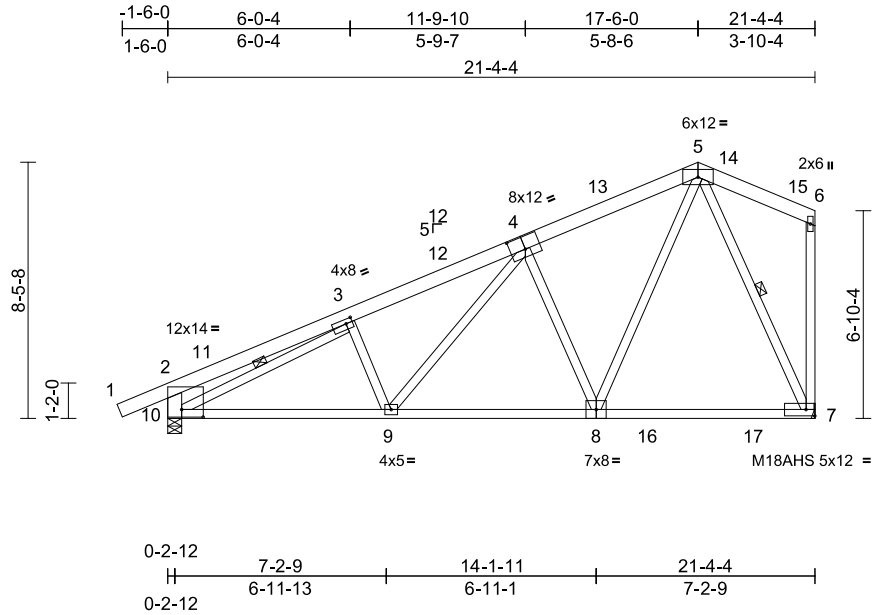
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job Q250434	Truss F1	Truss Type	Qty 22	Ply 1	KOCON LLC Job Reference (optional)	R91822876
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Alpine Truss, Montrose, CO - 81401,

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ID:WQ2R0uOrVe_1ARik1wLf?xzUNAH-RfC?PsB70Hq3NSgPqnl8w3ulTXbGKwRcD0i7J4zJC?f

Page: 1



Scale = 1:76

Plate Offsets (X, Y): [2:0-8-8,0-3-0], [3:0-2-8,0-1-12], [4:0-6-0,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	90.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.16	8-9	>999	360	MT20	169/123
(Roof Snow = 90.0)		Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.20	7-8	>999	240	M18AHS	142/136
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.02	8-9	>999	240		
BCDL	10.0											
											Weight: 120 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 2100F 1.8E *Except* 5-6:2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 SPF 1650F 1.5E *Except* 10-2:2x6 SPF 1650F 1.5E, 3-9,4-9:2x4 WW Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-10, 5-7

REACTIONS

(size) 7= Mechanical, 10=0-5-8
 Max Horiz 10=170 (LC 13)
 Max Grav 7=2292 (LC 1), 10=2886 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/266, 2-3=-1049/309, 3-5=-3556/80, 5-6=-169/213, 2-10=-1341/80, 6-7=-520/75
 BOT CHORD 9-10=-131/3308, 7-9=-100/2604
 WEBS 5-8=0/2157, 3-10=-2967/0, 5-7=-2342/82, 3-9=-598/91, 4-9=0/864, 4-8=-1999/90

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-1 to 1-4-15, Interior (1) 1-4-15 to 17-6-0, Exterior(2R) 17-6-0 to 20-6-0, Interior (1) 20-6-0 to 21-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

LOAD CASE(S) Standard



December 19, 2025

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

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

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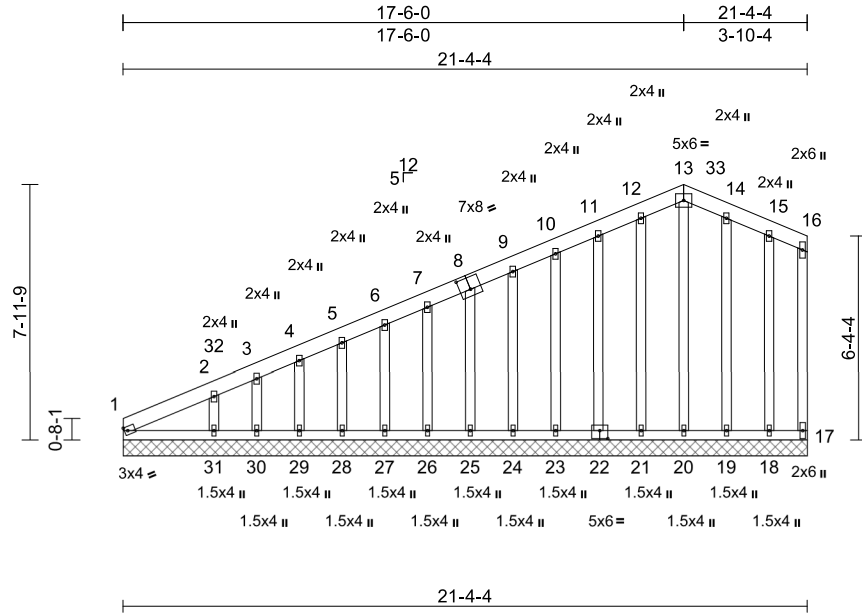
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job Q250434	Truss F1G	Truss Type Common Supported Gable	Qty 1	Ply 1	KOCON LLC Job Reference (optional)	R91822877
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:24
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Page: 1



Scale = 1:71.9

Plate Offsets (X, Y): [8:0-4-0,0-4-8], [22:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 90.0)	90.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	169/123
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-SH								
											Weight: 133 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 WW Stud
OTHERS	2x4 WW 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	(size)
	1=21-4-4, 17=21-4-4, 18=21-4-4, 19=21-4-4, 20=21-4-4, 21=21-4-4, 22=21-4-4, 23=21-4-4, 24=21-4-4, 25=21-4-4, 26=21-4-4, 27=21-4-4, 28=21-4-4, 29=21-4-4, 30=21-4-4, 31=21-4-4
Max Horiz	1=151 (LC 11)
Max Uplift	17=4 (LC 10), 18=15 (LC 10), 19=11 (LC 15), 22=7 (LC 14), 23=6 (LC 14), 24=5 (LC 14), 25=6 (LC 14), 26=4 (LC 14), 27=5 (LC 14), 28=5 (LC 14), 29=4 (LC 14), 30=6 (LC 14), 31=24 (LC 14)
Max Grav	1=251 (LC 20), 17=165 (LC 21), 18=374 (LC 21), 19=421 (LC 21), 20=284 (LC 1), 21=382 (LC 20), 22=408 (LC 20), 23=403 (LC 20), 24=407 (LC 20), 25=393 (LC 20), 26=336 (LC 20), 27=295 (LC 20), 28=294 (LC 1), 29=295 (LC 1), 30=214 (LC 20), 31=567 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension

TOP CHORD	
	16-17=-155/87, 1-2=-201/164, 2-3=-158/128, 3-4=-143/121, 4-5=-127/112, 5-6=-111/104, 6-7=-99/99, 7-9=-92/93, 9-10=-83/89, 10-11=-80/105, 11-12=-86/121, 12-13=-85/129, 13-14=-85/128, 14-15=-90/127, 15-16=-90/120
BOT CHORD	
	1-31=-65/88, 30-31=-65/88, 29-30=-65/88, 28-29=-65/88, 27-28=-65/88, 26-27=-65/88, 25-26=-65/88, 24-25=-66/88, 23-24=-66/88, 21-23=-66/88, 20-21=-66/88, 19-20=-66/88, 18-19=-66/88, 17-18=-66/88
WEBS	
	13-20=-257/24, 12-21=-356/23, 11-22=-381/27, 10-23=-376/28, 9-24=-381/26, 8-25=-366/26, 7-26=-309/24, 6-27=-268/25, 5-28=-269/25, 4-29=-262/24, 3-30=-211/23, 2-31=-490/79, 14-19=-394/47, 15-18=-349/48

- Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 4 lb uplift at joint 17, 7 lb uplift at joint 22, 6 lb uplift at joint 23, 5 lb uplift at joint 24, 6 lb uplift at joint 25, 4 lb uplift at joint 26, 5 lb uplift at joint 27, 5 lb uplift at joint 28, 4 lb uplift at joint 29, 6 lb uplift at joint 30, 24 lb uplift at joint 31, 11 lb uplift at joint 19 and 15 lb uplift at joint 18.
- LOAD CASE(S)** Standard

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 17-6-0, Corner(3R) 17-6-0 to 20-6-0, Exterior(2N) 20-6-0 to 21-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.



December 19, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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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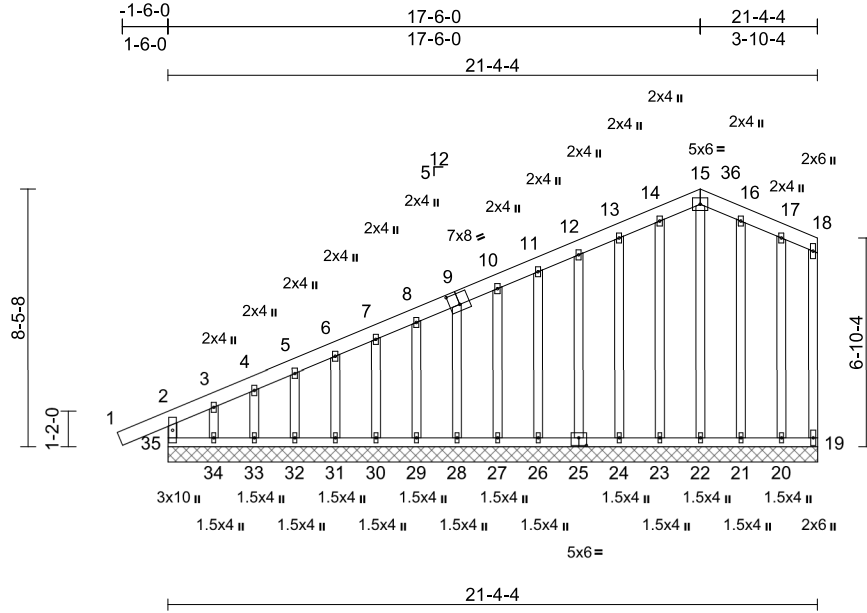
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job Q250434	Truss F2G	Truss Type	Qty 3	Ply 1	KOCON LLC Job Reference (optional)	R91822878
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:24
ID:wkC846D3oKD0UHe2C_5NR_zUNAV-RfC?PsB70Hq3NSgPqnL8w3ITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:75.7
Plate Offsets (X, Y): [9:0-4-0,0-4-8], [25:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 90.0)	90.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	169/123
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.00	19	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-R								
											Weight: 145 lb	FT = 20%

LUMBER		TOP CHORD	
TOP CHORD	2x6 SPF 1650F 1.5E	2-35=-1110/116, 1-2=0/253, 2-3=-221/182, 3-4=-176/144, 4-5=-161/136, 5-6=-146/127, 6-7=-131/117, 7-8=-115/109, 8-10=-99/104, 10-11=-89/93, 11-12=-85/95, 12-13=-85/111, 13-14=-91/128, 14-15=-90/135, 15-16=-89/134, 16-17=-96/135, 17-18=-97/129, 18-19=-157/96	4) Unbalanced snow loads have been considered for this design.
BOT CHORD	2x4 SPF 1650F 1.5E	34-35=-71/94, 33-34=-71/94, 32-33=-71/94, 31-32=-71/94, 30-31=-71/94, 29-30=-71/94, 28-29=-71/94, 27-28=-71/94, 26-27=-71/94, 24-26=-71/94, 23-24=-71/94, 22-23=-71/94, 21-22=-71/94, 20-21=-71/94, 19-20=-71/94	5) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
WEBS	2x4 WW Stud	15-22=-258/25, 14-23=-355/24, 13-24=-382/26, 12-25=-375/28, 11-26=-373/25, 10-27=-365/25, 9-28=-320/25, 8-29=-271/26, 7-30=-267/25, 6-31=-266/25, 5-32=-273/25, 4-33=-278/25, 3-34=-116/441, 16-21=-393/48, 17-20=-348/48	6) Gable requires continuous bottom chord bearing.
OTHERS	2x4 WW Stud		7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

BRACING		TOP CHORD	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.		8) Gable studs spaced at 1'-4-0 oc.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

REACTIONS	(size)		
Max Horiz	19=21-4-4, 20=21-4-4, 21=21-4-4, 22=21-4-4, 23=21-4-4, 24=21-4-4, 25=21-4-4, 26=21-4-4, 27=21-4-4, 28=21-4-4, 29=21-4-4, 30=21-4-4, 31=21-4-4, 32=21-4-4, 33=21-4-4, 34=21-4-4, 35=21-4-4		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.
Max Uplift	19=-5 (LC 10), 20=-19 (LC 10), 21=-13 (LC 15), 24=-6 (LC 14), 25=-7 (LC 14), 26=-5 (LC 14), 27=-5 (LC 14), 28=-5 (LC 14), 29=-5 (LC 14), 30=-5 (LC 14), 31=-4 (LC 14), 32=-7 (LC 14), 34=-444 (LC 20)		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 19, 6 lb uplift at joint 24, 7 lb uplift at joint 25, 5 lb uplift at joint 26, 5 lb uplift at joint 27, 5 lb uplift at joint 28, 5 lb uplift at joint 29, 5 lb uplift at joint 30, 4 lb uplift at joint 31, 7 lb uplift at joint 32, 444 lb uplift at joint 34, 13 lb uplift at joint 21 and 19 lb uplift at joint 20.
Max Grav	19=166 (LC 22), 20=372 (LC 22), 21=420 (LC 22), 22=285 (LC 1), 23=382 (LC 21), 24=409 (LC 21), 25=402 (LC 21), 26=399 (LC 21), 27=391 (LC 21), 28=346 (LC 21), 29=297 (LC 21), 30=293 (LC 1), 31=293 (LC 1), 32=298 (LC 21), 33=307 (LC 1), 34=64 (LC 5), 35=1147 (LC 20)		

FORCES	(lb) - Maximum Compression/Maximum Tension	NOTES
		1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-7-1 to 1-6-0, Exterior(2N) 1-6-0 to 17-6-0, Corner(3R) 17-6-0 to 20-6-0, Exterior(2N) 20-6-0 to 21-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
		2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
		3) TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.



December 19, 2025

Job Q250434	Truss F2G	Truss Type	Qty 3	Ply 1	KOCON LLC Job Reference (optional)	R91822878
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:24

Page: 2

ID:wkC846D3oKD0UHe2C_5NR_zUNAV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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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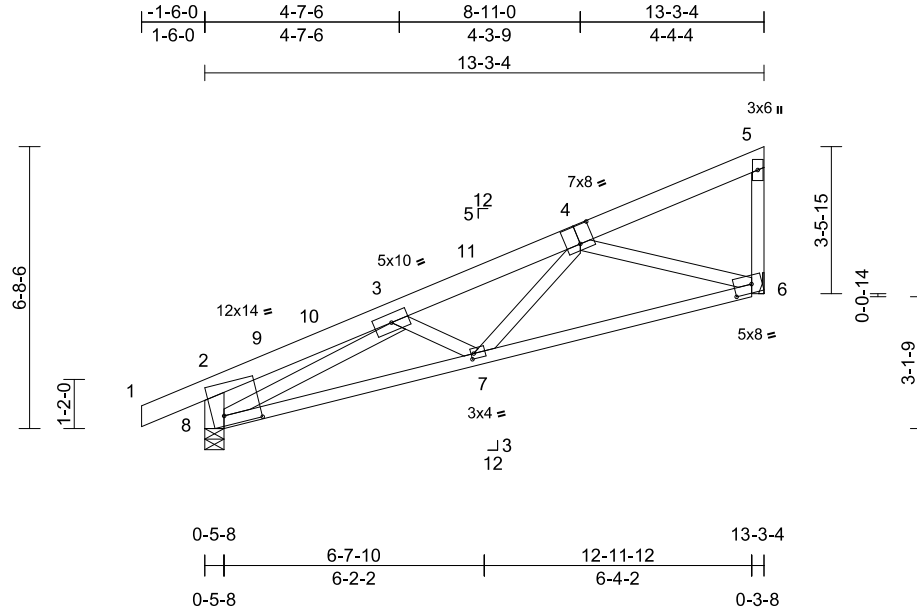
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job Q250434	Truss G1	Truss Type Jack-Closed	Qty 8	Ply 1	KOCON LLC Job Reference (optional)	R91822879
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:25
ID:v4eorSzR3eD5CEAY?ZUfKvYfQ_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:54.7

Plate Offsets (X, Y): [2:0-10-10,0-2-14], [4:0-4-0,0-5-4], [6:0-5-0,0-2-8], [7:0-0-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 90.0)	90.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.13	6-7	>999	360	MT20	169/123
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.17	6-7	>925	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.01	6-7	>999	240		
											Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 WW Stud *Except* 8-2:2x6 SPF 1650F 1.5E, 4-6:2x4 SPF 1650F 1.5E, 8-3:2x4 SPF 2100F 1.8E

BRACING

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

REACTIONS

(size) 6= Mechanical, 8=0-5-8
 Max Horiz 8=135 (LC 11)
 Max Grav 6=1999 (LC 21), 8=2195 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 2-8=-1103/81, 1-2=0/253, 2-3=-686/318, 3-5=-3404/116, 5-6=-507/52
 BOT CHORD 7-8=-144/3439, 6-7=-119/2716
 WEBS 3-7=-370/140, 4-7=0/597, 4-6=-2699/89, 3-8=-3439/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 13-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide metal plate or equivalent at bearing(s) 6 to support reaction shown.

LOAD CASE(S) Standard



December 19, 2025

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

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

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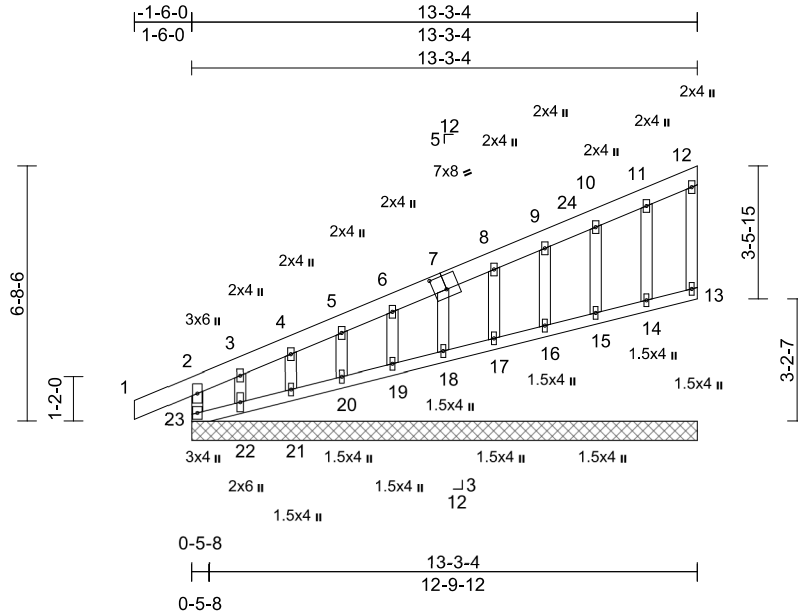
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job Q250434	Truss G1G	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	KOCON LLC Job Reference (optional)	R91822880
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:25
ID:Wb4NUGlClcPsVEeSj8vSdyfOz-RfC?Psb70Hq3NSgPqnL8w3uTXbGKWRCDoi7J4zJC?F

Page: 1



Scale = 1:60.5

Plate Offsets (X, Y): [7:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 90.0)	90.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	169/123
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-R								
											Weight: 63 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 WW Stud
OTHERS	2x4 WW 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 (size)

13=13-3-4, 14=13-3-4, 15=13-3-4, 16=13-3-4, 17=13-3-4, 18=13-3-4, 19=13-3-4, 20=13-3-4, 21=13-3-4, 22=13-3-4, 23=13-3-4	
Max Horiz	23=134 (LC 11)
Max Uplift	13=18 (LC 11), 15=-5 (LC 14), 16=-6 (LC 14), 17=-5 (LC 14), 18=-5 (LC 14), 19=-4 (LC 14), 20=-7 (LC 14), 22=-435 (LC 20), 23=134 (LC 11)
Max Grav	13=166 (LC 21), 14=406 (LC 21), 15=438 (LC 21), 16=425 (LC 21), 17=422 (LC 21), 18=423 (LC 21), 19=425 (LC 21), 20=430 (LC 21), 21=366 (LC 21), 22=55 (LC 5), 23=1120 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-23=-1087/99, 1-2=0/241, 2-3=-254/142, 3-4=-199/108, 4-5=-178/98, 5-6=-158/89, 6-8=-137/79, 8-9=-95/77, 9-10=-77/76, 10-11=-82/70, 11-12=-75/47, 12-13=-158/28
BOT CHORD	22-23=-59/53, 21-22=-37/46, 20-21=-37/43, 19-20=-37/43, 18-19=-37/43, 17-18=-37/43, 16-17=-37/43, 15-16=-37/43, 14-15=-37/42, 13-14=-40/46

WEBS

11-14=-377/37, 10-15=-412/42, 9-16=-398/40, 8-17=-396/38, 7-18=-396/38, 6-19=-398/38, 5-20=-404/38, 4-21=-336/38, 3-22=-103/433

- NOTES**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-6-0 to 1-3-4, Exterior(2N) 1-3-4 to 13-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearing at joint(s) 23, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 13, 5 lb uplift at joint 15, 6 lb uplift at joint 16, 5 lb uplift at joint 17, 5 lb uplift at joint 18, 4 lb uplift at joint 19, 7 lb uplift at joint 20 and 435 lb uplift at joint 22.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22.

LOAD CASE(S) Standard



December 19, 2025

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

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

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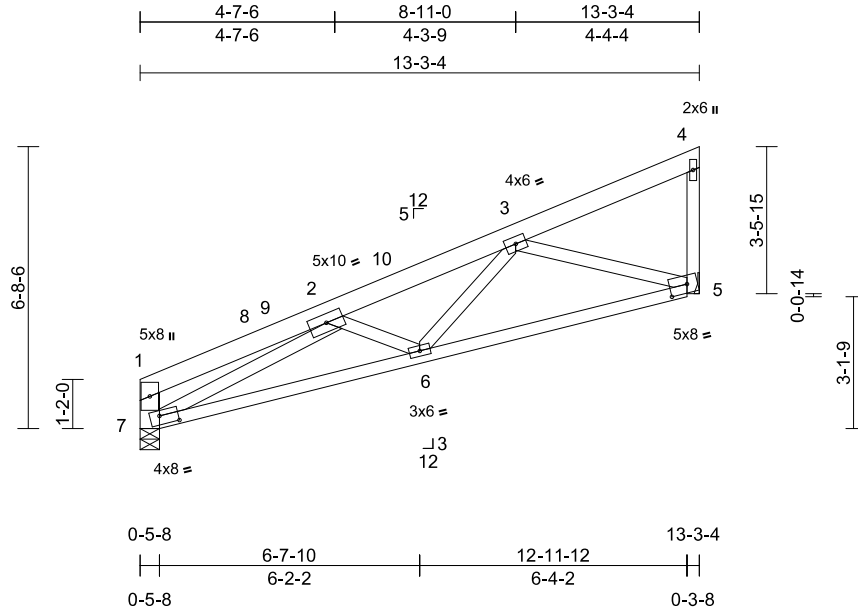
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job Q250434	Truss G2	Truss Type Jack-Closed	Qty 14	Ply 1	KOCON LLC Job Reference (optional)	R91822881
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:26
ID:vYbyiqY63Bxv70aQ?QthxkyfQW-RFC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:54.7

Plate Offsets (X, Y): [5:0-5-0,0-2-8], [7:0-5-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	90.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.14	5-6	>999	360	MT20	197/144
(Roof Snow = 90.0)		Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.16	5-6	>939	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.07	5	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.01	6	>999	240		
BCDL	10.0										Weight: 61 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 WW Stud *Except* 7-1:2x6 SPF 1650F 1.5E, 2-7:2x4 SPF 2100F 1.8E, 3-5:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 5= Mechanical, 7=0-5-8
 Max Horiz 7=126 (LC 11)
 Max Grav 5=2023 (LC 20), 7=1826 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-7=-677/38, 1-2=-673/24, 2-3=-3516/0, 3-4=-320/114, 4-5=-493/51
 BOT CHORD 6-7=-148/3610, 5-6=-116/2714
 WEBS 2-6=-495/89, 2-7=-3613/16, 3-6=0/684, 3-5=-2711/86

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 13-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide metal plate or equivalent at bearing(s) 5 to support reaction shown.

LOAD CASE(S) Standard



December 19, 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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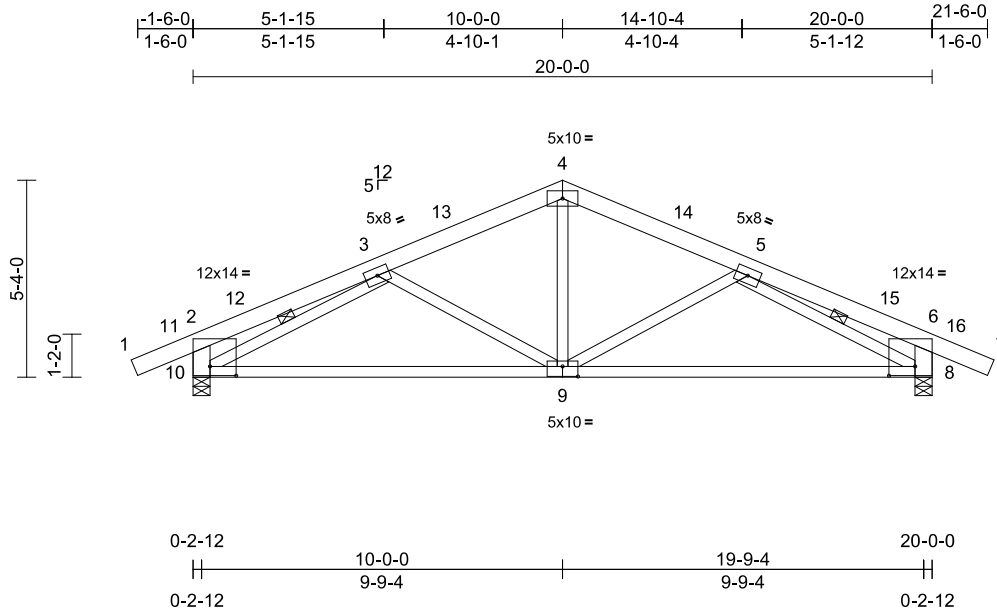
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 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job Q250434	Truss H1	Truss Type	Qty 5	Ply 1	KOCON LLC Job Reference (optional)	R91822882
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:26
ID:iy0vrdsN8EAq4eUb61Oij4zUNao-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.4

Plate Offsets (X, Y): [2:0-8-8,0-3-0], [6:0-8-8,0-3-0], [9:0-5-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	90.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.16	9-10	>999	360	MT20	169/123
(Roof Snow = 90.0)		Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.34	8-9	>700	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.01	9	>999	240		
BCDL	10.0										Weight: 99 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SPF 1650F 1.5E
 - BOT CHORD 2x4 SPF 1650F 1.5E
 - WEBS 2x4 SPF 1650F 1.5E *Except* 9-4:2x4 WW Stud, 10-2-8-6:2x6 SPF 1650F 1.5E
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except end verticals.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 - WEBS 1 Row at midpt 3-10, 5-8
- REACTIONS** (size) 8=0-5-8, 10=0-5-8
Max Horiz 10=32 (LC 19)
Max Grav 8=2990 (LC 22), 10=2990 (LC 21)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/266, 2-3=-915/328, 3-4=-2526/21, 4-5=-2526/21, 5-6=-915/328, 6-7=0/266, 2-10=-1418/66, 6-8=-1418/67
 - BOT CHORD 8-10=0/3037
 - WEBS 4-9=0/748, 3-10=-2873/62, 5-8=-2873/62, 3-9=-1148/101, 5-9=-1148/102

- Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 10, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- LOAD CASE(S)** Standard

- NOTES**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-1 to 1-4-15, Interior (1) 1-4-15 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior (1) 13-0-0 to 21-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.



December 19, 2025

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Job Q250434	Truss H1G	Truss Type	Qty 1	Ply 1	KOCON LLC Job Reference (optional)	R91822883
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:26
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Page: 2

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 36, 38 lb uplift at joint 20, 8 lb uplift at joint 30, 6 lb uplift at joint 31, 5 lb uplift at joint 32, 6 lb uplift at joint 33, 121 lb uplift at joint 34, 438 lb uplift at joint 35, 8 lb uplift at joint 26, 7 lb uplift at joint 25, 5 lb uplift at joint 24, 6 lb uplift at joint 23, 121 lb uplift at joint 22 and 438 lb uplift at joint 21.

LOAD CASE(S) Standard

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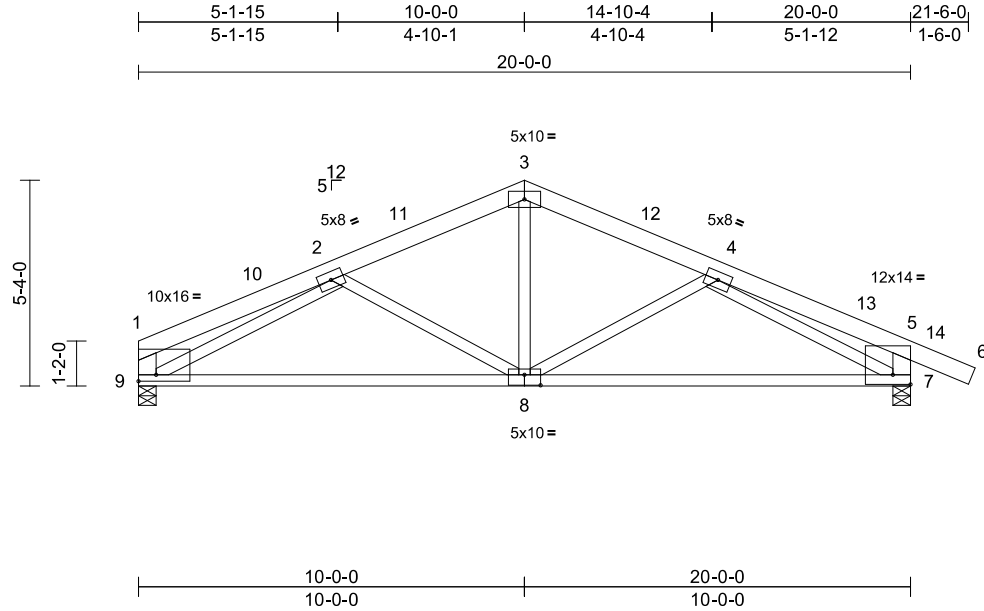
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916.755.3571 / MiTek-US.com

Job Q250434	Truss H2	Truss Type	Qty 2	Ply 1	KOCON LLC Job Reference (optional)	R91822884
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:27
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Page: 1



Scale = 1:59.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 90.0)	90.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.16	7-8	>999	360	MT20	169/123
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.33	7-8	>701	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.01	8	>999	240		
											Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 2100F 1.8E *Except* 3-6:2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x6 SPF 2100F 1.8E *Except* 8-3:2x4 WW Stud, 9-2,7-4:2x4 SPF 2100F 1.8E, 2-8,4-8:2x4 SPF 1650F 1.5E

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-5-8, 9=0-5-8
Max Horiz 9=40 (LC 15)
Max Grav 7=2996 (LC 22), 9=2549 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-902/0, 2-3=-2565/26, 3-4=-2563/21, 4-5=-873/351, 5-6=0/266, 1-9=-920/18, 5-7=-1395/66
BOT CHORD 7-9=-2/3150
WEBS 3-8=0/788, 2-9=-2984/64, 4-7=-2930/64, 2-8=-1240/104, 4-8=-1146/107

- TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

LOAD CASE(S) Standard

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior (1) 13-0-0 to 21-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33



December 19, 2025

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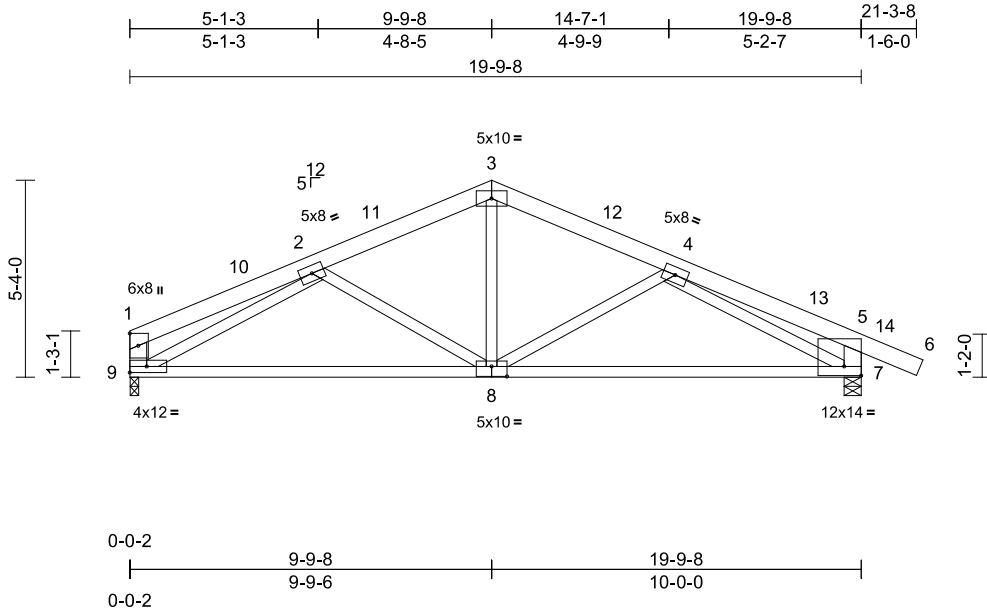
Job Q250434	Truss H3	Truss Type Common	Qty 1	Ply 1	KOCON LLC Job Reference (optional)	R91822885
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:27

Page: 1

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Scale = 1:62.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	90.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.17	7-8	>999	360	MT20	197/144
(Roof Snow = 90.0)		Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.34	7-8	>682	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.01	8	>999	240		
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2400F 2.0E *Except* 8-7:2x4 SPF 1650F 1.5E
WEBS 2x6 SPF 1650F 1.5E *Except* 8-3:2x4 WW Stud, 9-2,7-4:2x4 SPF 2100F 1.8E, 2-8,4-8:2x4 SPF 1650F 1.5E

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-5-8, 9=0-2-12
Max Horiz 9=40 (LC 19)
Max Grav 7=2981 (LC 22), 9=2510 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-767/7, 2-3=-2509/28, 3-4=-2509/23, 4-5=-868/334, 5-6=0/266, 1-9=-843/20, 5-7=-1396/67
BOT CHORD 7-9=-1/3024
WEBS 3-8=0/784, 2-9=-2984/60, 4-7=-2903/65, 2-8=-1163/101, 4-8=-1163/104

- Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- LOAD CASE(S)** Standard

- NOTES**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 9-9-8, Exterior(2R) 9-9-8 to 12-9-8, Interior (1) 12-9-8 to 21-4-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.



December 19, 2025

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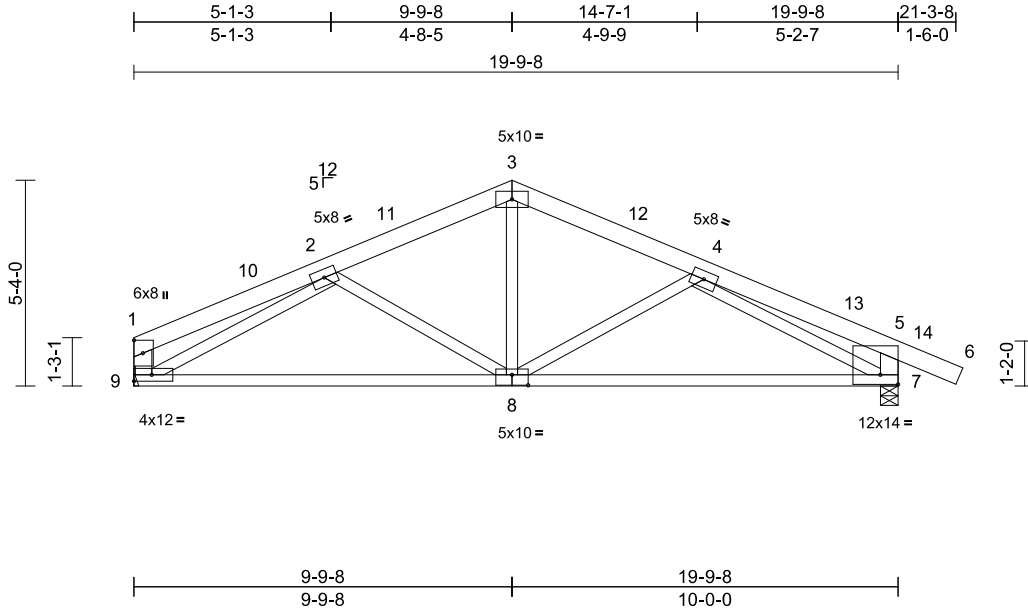
Job Q250434	Truss H4	Truss Type Common	Qty 4	Ply 1	KOCON LLC Job Reference (optional)	R91822886
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:27

Page: 1

ID: CwN??gAizKWSHF9OH7inzUNCW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:59.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	90.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.17	7-8	>999	360	MT20	197/144
(Roof Snow = 90.0)		Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.34	7-8	>679	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.08	7	n/a	n/a		
BCLL	0.0*	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.01	8	>999	240		
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x6 SPF 1650F 1.5E *Except* 8-3:2x4 WW Stud, 9-2,7-4:2x4 SPF 2100F 1.8E, 4-8,2-8:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 7=0-5-8, 9= Mechanical
 Max Horiz 9=-40 (LC 15)
 Max Grav 7=2981 (LC 22), 9=2510 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-769/6, 2-3=-2509/28, 3-4=-2509/23, 4-5=-868/334, 5-6=0/266, 1-9=-849/19, 5-7=-1396/67
 BOT CHORD 7-9=-1/3024
 WEBS 3-8=0/780, 2-9=-2975/61, 4-7=-2904/65, 4-8=-1162/104, 2-8=-1153/101

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 9-9-8, Exterior(2R) 9-9-8 to 12-9-8, Interior (1) 12-9-8 to 21-4-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

LOAD CASE(S) Standard



December 19, 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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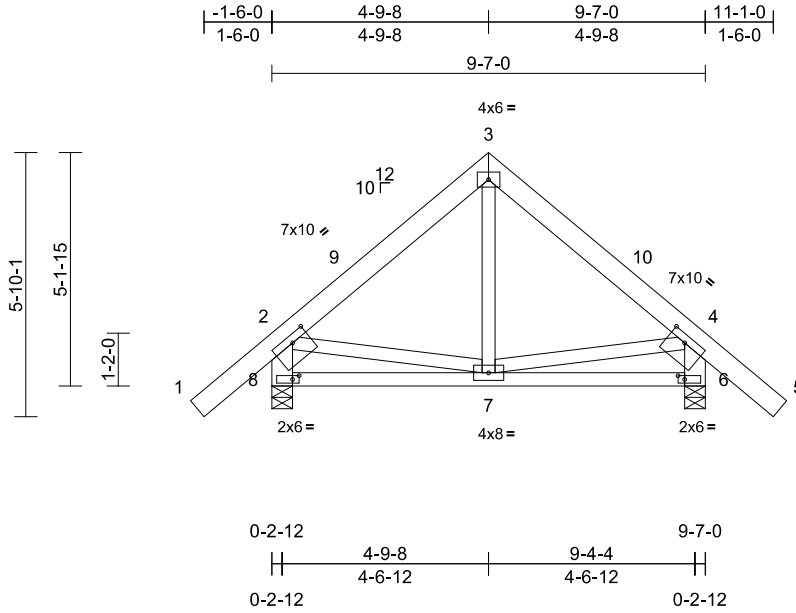
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job Q250434	Truss J1	Truss Type	Qty 2	Ply 1	KOCON LLC Job Reference (optional)	R91822887
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:27
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Page: 1



Scale = 1:50.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (Roof Snow = 90.0)	90.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.01	6-7	>999	360	MT20	169/123
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.02	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-SH	Wind(LL)	0.00	7-8	>999	240		
										Weight: 56 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 WW Stud *Except* 8-2,6-4:2x6 SPF 1650F 1.5E

BRACING

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

REACTIONS

(size) 6=0-5-8, 8=0-5-8
 Max Horiz 8=-102 (LC 10)
 Max Grav 6=1379 (LC 1), 8=1379 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/456, 2-3=-920/59, 3-4=-920/59,
 4-5=0/456, 2-8=-1335/108, 4-6=-1335/108
 BOT CHORD 7-8=-415/179, 6-7=-415/129
 WEBS 3-7=-48/166, 2-7=-10/366, 4-7=-10/366

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-12 to 1-4-4, Interior (1) 1-4-4 to 4-9-8, Exterior(2R) 4-9-8 to 7-9-8, Interior (1) 7-9-8 to 11-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 90.0 psf on overhangs non-concurrent with other live loads.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

LOAD CASE(S) Standard



December 19, 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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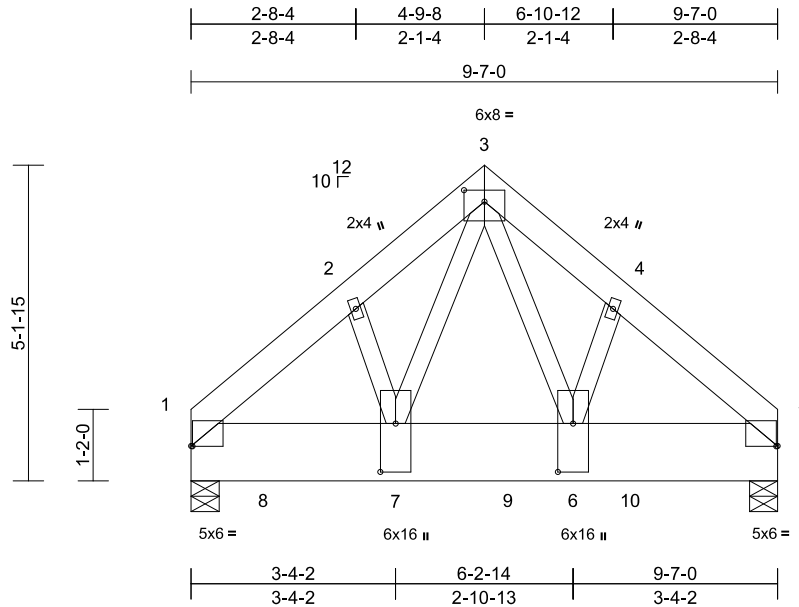
400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job Q250434	Truss JG1	Truss Type Common Girder	Qty 1	Ply 2	KOCON LLC Job Reference (optional)	R91822888
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Alpine Truss, Montrose, CO - 81401,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Dec 19 10:02:28
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Page: 1



Scale = 1:37.7

Plate Offsets (X, Y): [1:0-0-4,0-0-1], [3:0-4-0,0-2-4], [5:0-0-4,0-0-1], [6:0-9-8,0-3-0], [7:0-9-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 90.0)	90.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.03	6-7	>999	360	MT20	185/144
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-SH		Wind(LL)	0.00	6-7	>999	240		
											Weight: 145 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x12 HF SS
WEBS 2x4 WW Stud *Except* 7-3,6-3:2x4 SPF 1650F 1.5E

BRACING

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

REACTIONS (size) 1=0-5-8, 5=0-5-8
Max Horiz 1=67 (LC 5)
Max Grav 1=6610 (LC 1), 5=5358 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-6020/0, 2-3=-5392/0, 3-4=-5291/0, 4-5=-5923/0
BOT CHORD 1-7=0/3966, 6-7=0/3098, 5-6=0/3887
WEBS 2-7=0/626, 3-7=0/3316, 3-6=0/3071, 4-6=0/633

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: 2x12 - 3 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
Ke=0.83; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=90.0 psf (Lum DOL = 1.00 Plate DOL = 1.00); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2491 lb down at 1-2-2, 2490 lb down at 3-2-2, and 2490 lb down at 5-2-2, and 2490 lb down at 7-2-2 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-3=-200, 3-5=-200, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-2490 (B), 8=-2491 (B), 9=-2490 (B), 10=-2490 (B)



December 19, 2025

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

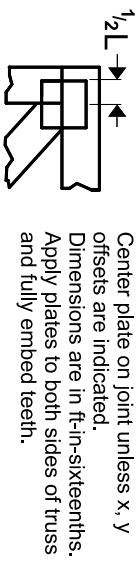
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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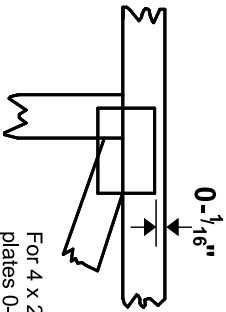
400 Sunrise Ave., Suite 270
Roseville, CA 95661
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Symbols

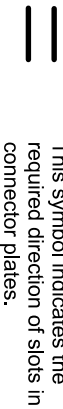
PLATE LOCATION AND ORIENTATION



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.



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



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

PLATE SIZE

4 X 4

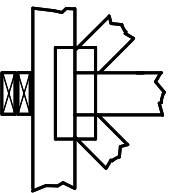
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

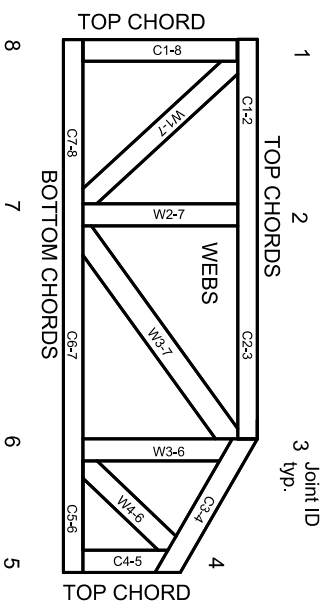


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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