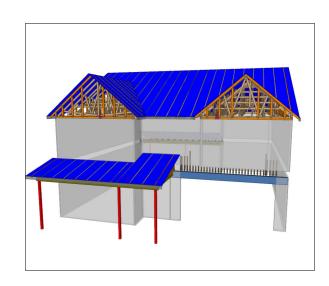


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

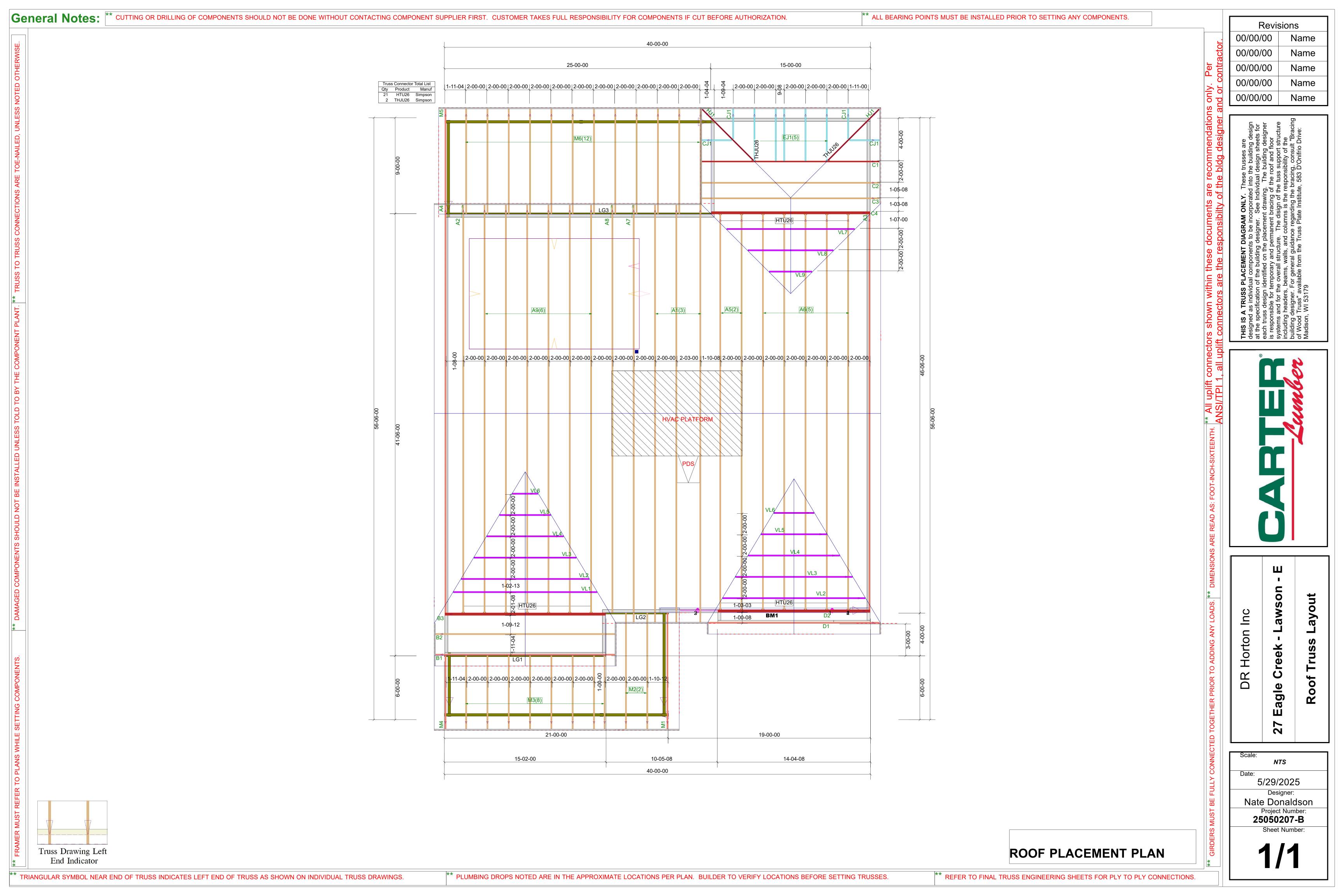
### Builder: DR Horton Inc 27 Eagle Creek -Model: Lawson - E



THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By:	Date:
--------------	-------





Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25050207-B

27 Eagle Creek-Lawson E

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I73831351 thru I73831386

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

North Carolina COA: C-0844



May 30,2025

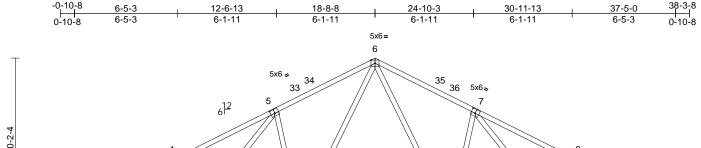
Gilbert, Eric

**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.



Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:27 ID:dtULuPuUMCrLTXvpVp5HPgzNtOu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



3x5 💋 3x5 32 37 3 9 14 23 38 39 22 20 18 13 40 41 12 4x5= 4x5= 8x10f6-2-8 23º46-0F 6x8 i 6x8 ii 14-6-15 23-5-10 14-6-1 13-11-6 0-0-61-7-9 22-10-15 21-2-8 22-10-1 7-5-2 13-11-0 18-8-8 29-11-14 37-5-0 7-5-2 6-5-14 2-6-0 2-6-0 1-7-9 6-5-14 7-5-2 0-0-14 0-6-11 Scale = 1:71.7 0 - 0 - 14

Plate Offsets (X, Y): [5:0-3-0,0-3-0], [7:0-3-0,0-3-0], [13:0-5-0,0-4-8], [22:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.24	17	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.48	17	>937	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 260 lb	FT = 20%

### LUMBER

BRACING

**FORCES** 

TOP CHORD

TOP CHORD 2x4 SP No.2

2x6 SP 2400F 2.0E \*Except\* 21-15:2x4 SP **BOT CHORD** 

2400F 2.0E

**WEBS** 2x4 SP No.3 \*Except\* 22-6,13-6:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3

-- 2-6-0

**BOT CHORD** 

Structural wood sheathing directly applied. Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS 2=0-3-8, 10=0-3-8 (size)

Max Horiz 2=100 (LC 14)

Max Grav 2=1997 (LC 3), 10=1997 (LC 3) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28. 2-4=-3641/0. 4-6=-3590/17.

6-8=-3590/17, 8-10=-3641/0, 10-11=0/28 **BOT CHORD** 2-23=0/3182, 20-23=0/2948, 18-20=0/2133,

14-18=0/2133, 12-14=0/2948, 10-12=0/3183,

19-21=-12/81, 17-19=-12/81, 16-17=-12/81,

15-16=-12/81

**WEBS** 4-23=-257/130, 5-23=-132/281,

5-22=-530/221, 21-22=0/1398, 6-21=0/1425, 6-15=0/1425, 13-15=0/1398, 7-13=-530/221,

7-12=-132/281, 8-12=-257/130,

17-18=-120/0, 19-20=-76/1, 14-16=-76/1

### NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-13, Interior (1) 2-10-13 to 18-8-8. Exterior(2R) 18-8-8 to 22-5-6. Interior (1) 22-5-6 to 38-3-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 18-8-8 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated
- \* 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.
- All bearings are assumed to be SP 2400F 2.0E .

LOAD CASE(S) Standard

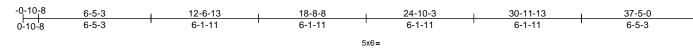




Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A2	Common	1	1	Job Reference (optional)	

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:28 ID:y7z5FdprXYkARFqqtKjy0BzNt6w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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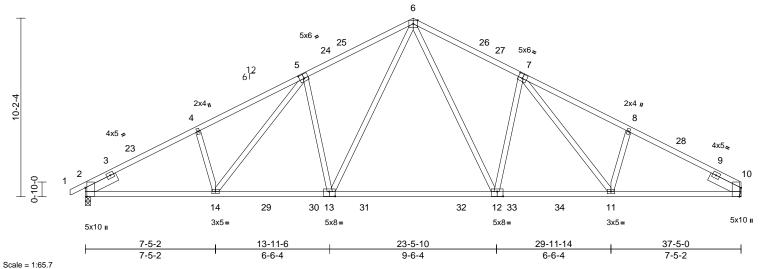


Plate Offsets (X, Y): [2:0-6-1,Edge], [5:0-3-0,0-3-0], [7:0-3-0,0-3-0], [10:0-6-1,Edge], [12:0-4-0,0-3-4], [13:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	-0.32	12-13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.55	12-13	>813	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 216 lb	FT = 20%

### LUMBER

2x4 SP No.1 TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 

**WEBS** 2x4 SP No.3 \*Except\* 13-6,12-6:2x4 SP No.2 SLIDER Left 2x6 SP 2400F 2.0E -- 2-0-0, Right 2x6

SP 2400F 2.0E -- 2-0-0

BRACING

**FORCES** 

TOP CHORD Structural wood sheathing directly applied or

2-0-2 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 2=0-3-8, 10= Mechanical

Max Horiz 2=101 (LC 12)

Max Grav 2=1715 (LC 3), 10=1672 (LC 3) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-4=-3082/243, 4-6=-2998/323,

6-8=-3002/325, 8-10=-3085/250

**BOT CHORD** 2-14=-146/2654, 11-14=-88/2367,

10-11=-151/2658

**WEBS** 4-14=-228/122, 5-13=-602/188,

5-14=-57/392, 8-11=-230/127, 6-13=-90/1102, 7-12=-603/188, 6-12=-91/1103, 7-11=-64/397

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-13, Interior (1) 2-10-13 to 18-8-8, Exterior(2R) 18-8-8 to 22-5-6, Interior (1) 22-5-6 to 37-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E .
- Refer to girder(s) for truss to truss connections.

LOAD CASE(S) Standard



May 30,2025

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

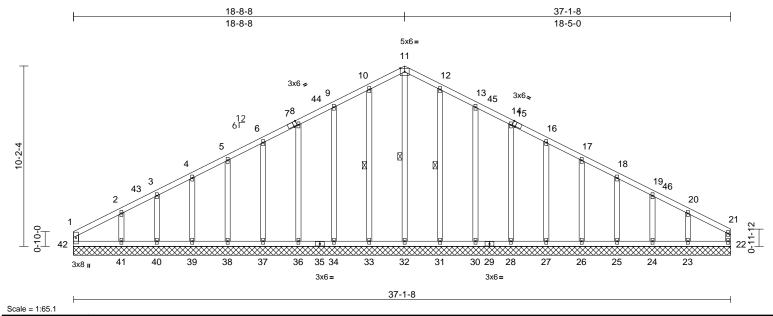
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A3	Common Supported Gable	1	1	Job Reference (optional)	173831353

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:29 ID:GMajiiLtsFcIYdS2Fo\_V7IzNt4y-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plata Offcate I	(Y V).	[7:0-2-3 Edge]	[15:0-2-3.Edge]
riale Ulisels i	A. II.	17.0-2-3.Euuel.	113.0-Z-3.Euuel

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	22	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 255 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3

OTHERS 2x4 SP No.3 **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.

WEBS 1 Row at midpt

**REACTIONS** (size) 22=37-1-8, 23=37-1-8, 24=37-1-8, 25=37-1-8, 26=37-1-8, 27=37-1-8, 28=37-1-8, 30=37-1-8, 31=37-1-8,

32=37-1-8, 33=37-1-8, 34=37-1-8, 36=37-1-8, 37=37-1-8, 38=37-1-8, 40=37-1-8, 41=37-1-8, 42=37-1-8

11-32, 10-33, 12-31

Max Horiz 42=114 (LC 14) Max Uplift 23=-52 (LC 16), 24=-5 (LC 16),

25=-18 (LC 16), 26=-15 (LC 16), 27=-16 (LC 16), 28=-15 (LC 16), 30=-19 (LC 16), 31=-9 (LC 16), 33=-10 (LC 15), 34=-19 (LC 15),

36=-15 (LC 15), 37=-16 (LC 15), 38=-15 (LC 15), 39=-19 (LC 15), 40=-3 (LC 15), 41=-55 (LC 15), 42=-19 (LC 11)

Max Grav 22=99 (I

22=99 (LC 32), 23=189 (LC 39), 24=153 (LC 2), 25=162 (LC 39), 26=160 (LC 2), 27=160 (LC 39), 28=160 (LC 2), 30=180 (LC 22), 31=205 (LC 22), 32=160 (LC 35), 33=205 (LC 21), 34=180 (LC 21), 36=160 (LC 2), 37=160 (LC 38), 38=159 (LC 2), 39=164 (LC 38),

40=145 (LC 2), 41=210 (LC 38),

42=121 (LC 33)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-42=-90/25, 1-2=-102/68, 2-3=-89/65, 3-4=-80/86, 4-5=-76/132, 5-6=-87/177, 6-8=-99/222, 8-9=-111/267, 9-10=-128/315, 10-11=-143/354, 11-12=-143/354, 12-13=-128/315, 13-14=-111/267,

14-16=-99/222, 16-17=-87/177, 17-18=-76/132, 18-179=-63/86, 19-20=-63/44,

20-21=-79/32, 21-22=-72/11 41-42=-33/69, 40-41=-33/69, 39-40=-33/69,

38-39=-33/69, 37-38=-33/69, 36-37=-33/69, 34-36=-33/69, 33-34=-33/69, 32-33=-33/69, 31-32=-33/69, 30-31=-33/69, 28-30=-33/69, 27-28=-33/69, 26-27=-33/69, 25-26=-33/69, 24-25=-33/69, 23-24=-33/69, 22-23=-33/69

11-32=-242/64, 10-33=-165/64, 9-34=-140/84, 8-36=-126/76, 6-37=-127/78, 5-38=-126/77, 4-39=-129/80, 3-40=-115/68, 2-41=-168/168, 12-31=-165/64,

13-30=-140/84, 14-28=-126/76, 16-27=-127/78, 17-26=-126/77, 18-25=-128/79, 19-24=-120/77, 20-23=-152/162

TEQ .

### NOTES 1) Unb

**WEBS** 

**BOT CHORD** 

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-1-12 to 3-10-10, Exterior(2N) 3-10-10 to 18-8-8, Corner (3R) 18-8-8 to 22-8-8, Exterior (2N) 22-8-8 to 36-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 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) All bearings are assumed to be SP No.2.



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 we be 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/TPI 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A3	Common Supported Gable	1	1	Job Reference (optional)	173831353

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:29 ID:GMajiiLtsFcIYdS2Fo\_V7lzNt4y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 42, 10 lb uplift at joint 33, 19 lb uplift at joint 34, 15 lb 42, 10 is uplint at joint 36, 16 lb uplift at joint 37, 15 lb uplift at joint 38, 16 lb uplift at joint 37, 15 lb uplift at joint 38, 19 lb uplift at joint 39, 3 lb uplift at joint 40, 55 lb uplift at joint 41, 9 lb uplift at joint 31, 19 lb uplift at joint 30, 15 Ib uplift at joint 28, 16 lb uplift at joint 27, 15 lb uplift at joint 26, 18 lb uplift at joint 25, 5 lb uplift at joint 24 and 52 lb uplift at joint 23.

LOAD CASE(S) Standard





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A4	Common Supported Gable	1	1	Job Reference (optional)	173831354

Run: 8 73 S. Feb 19 2025 Print: 8 730 S. Feb 19 2025 MiTek Industries. Inc. Thu May 29 11:27:29 ID:GMajiiLtsFcIYdS2Fo\_V7lzNt4y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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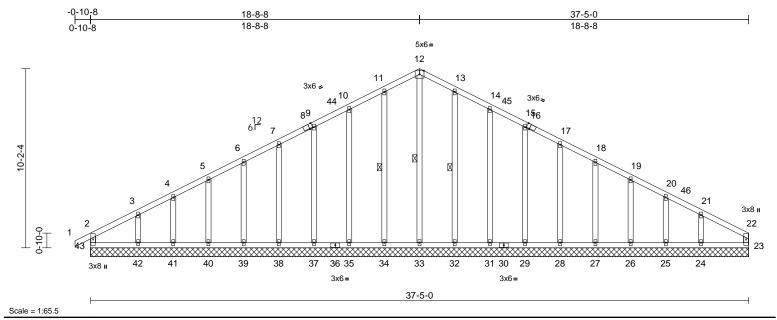


Plate Offsets (X, Y): [8:0-2-3,Edge], [16:0-2-3,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	23	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 257 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEDG	2v4 SD No 2

**OTHERS** 2x4 SP No.3 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.

WEBS 1 Row at midpt

REACTIONS (size) 23=37-5-0, 24=37-5-0, 25=37-5-0, 26=37-5-0. 27=37-5-0. 28=37-5-0.

29=37-5-0, 31=37-5-0, 32=37-5-0, 33=37-5-0, 34=37-5-0, 35=37-5-0, 37=37-5-0, 38=37-5-0, 39=37-5-0

12-33, 11-34, 13-32

40=37-5-0, 41=37-5-0, 42=37-5-0, 43=37-5-0

Max Horiz 43=117 (LC 14) Max Uplift 24=-48 (LC 16), 25=-5 (LC 16),

26=-18 (LC 16), 27=-15 (LC 16), 28=-16 (LC 16), 29=-15 (LC 16), 31=-19 (LC 16), 32=-9 (LC 16), 34=-11 (LC 15), 35=-19 (LC 15),

37=-15 (LC 15), 38=-16 (LC 15), 39=-15 (LC 15), 40=-19 (LC 15), 41=-3 (LC 15), 42=-56 (LC 15),

Max Grav

43=-25 (LC 11) 23=102 (LC 33), 24=210 (LC 40), 25=145 (LC 2), 26=164 (LC 40), 27=159 (LC 2), 28=160 (LC 40), 29=160 (LC 2), 31=180 (LC 23), 32=205 (LC 23), 33=160 (LC 36), 34=205 (LC 22), 35=180 (LC 22), 37=160 (LC 2), 38=160 (LC 39), 39=160 (LC 2), 40=162 (LC 39), 41=151 (LC 2), 42=191 (LC 33), 43=172 (LC 2)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-43=-149/84, 1-2=0/33, 2-3=-105/67, 3-4=-86/62, 4-5=-80/77, 5-6=-73/122 6-7=-84/167, 7-9=-96/212, 9-10=-108/257,

10-11=-126/305, 11-12=-143/345, 12-13=-143/345, 13-14=-126/305, 14-15=-108/257, 15-17=-96/212,

17-18=-84/167, 18-19=-72/122, 19-20=-59/76, 20-21=-64/36, 21-22=-81/36,

22-23=-77/16 BOT CHORD 42-43=-30/79, 41-42=-30/79, 40-41=-30/79,

39-40=-30/79, 38-39=-30/79, 37-38=-30/79, 35-37=-30/79, 34-35=-30/79, 33-34=-30/79, 32-33=-30/79, 31-32=-30/79, 29-31=-30/79, 28-29=-30/79, 27-28=-30/79, 26-27=-30/79, 25-26=-30/79, 24-25=-30/79, 23-24=-30/79

**WEBS** 12-33=-234/64, 11-34=-165/64, 10-35=-140/84, 9-37=-126/76, 7-38=-127/78,

6-39=-126/77, 5-40=-129/81, 4-41=-120/67, 3-42=-157/141, 13-32=-165/64, 14-31=-140/84, 15-29=-126/76, 17-28=-127/78, 18-27=-126/77, 19-26=-129/80, 20-25=-115/68,

21-24=-167/170

NOTES

Unbalanced roof live loads have been considered for 1) this design

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-10-1 to 2-8-8, Exterior(2N) 2-8-8 to 18-8-8, Corner(3R) 18-8-8 to 22-8-8, Exterior(2N) 22-8-8 to 37-3-4 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- \* 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. I I I I I



Continued on page 2

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/TP11 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A4	Common Supported Gable	1	1	Job Reference (optional)	173831354

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:29 ID:GMajiiLtsFcIYdS2Fo\_V7lzNt4y-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

12) All bearings are assumed to be SP No.2.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 43, 11 lb uplift at joint 34, 19 lb uplift at joint 35, 15 lb uplift at joint 37, 16 lb uplift at joint 38, 15 lb uplift at joint 39, 19 lb uplift at joint 40, 3 lb uplift at joint 41, 56 lb uplift at joint 42, 9 lb uplift at joint 32, 19 lb uplift at joint 31, 15 lb uplift at joint 29, 16 lb uplift at joint 28, 15 lb uplift at joint 27, 18 lb uplift at joint 26, 5 lb uplift at joint 25 and 48 lb uplift at joint 24.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A5	Common	2	1	Job Reference (optional)	173831355

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:29 ID:QTtm5K4SQ0\_1WxWMPYJyZ8zNtKn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

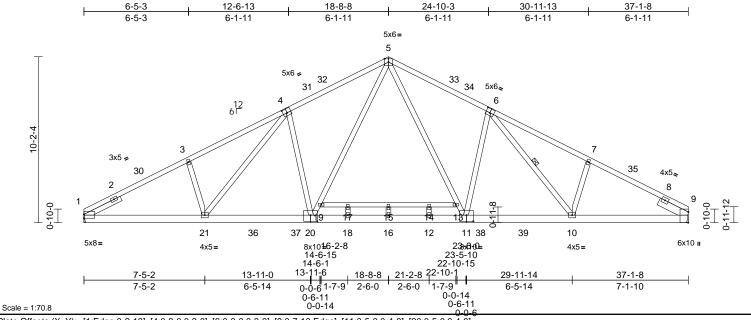


Plate Offsets (X, Y): [1:Edge,0-2-13], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [9:0-7-13,Edge], [11:0-5-0,0-4-8], [20:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.24	15	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.49	15	>918	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.08	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 257 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No 2

2x6 SP 2400F 2.0E \*Except\* 19-13:2x4 SP **BOT CHORD** 

No.2

**WEBS** 2x4 SP No.3 \*Except\* 20-5,11-5:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x6 SP No.2

-- 2-0-0

BRACING TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc

bracing.

**WEBS** 1 Row at midpt 6-10

REACTIONS 1= Mechanical, 9= Mechanical (size)

Max Horiz 1=97 (LC 12)

Max Grav 1=1940 (LC 3), 9=1945 (LC 3) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-3=-3613/0, 3-5=-3562/27, 5-7=-3418/29,

7-9=-3479/0

**BOT CHORD** 1-21=-11/3158, 18-21=0/2920, 16-18=0/2098, 12-16=0/2098, 10-12=0/2889, 9-10=0/3024,

17-19=-8/87, 15-17=-8/87, 14-15=-8/87,

13-14=-8/87

**WEBS** 3-21=-259/133, 4-20=-532/222,

4-21=-142/286, 7-10=-238/130, 19-20=0/1413, 5-19=0/1425, 6-11=-472/224,

5-13=0/1387, 11-13=0/1378, 15-16=-131/0,

17-18=-87/0, 6-10=-144/177, 12-14=-91/0

### **NOTES**

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-8-9, Interior (1) 3-8-9 to 18-8-8, Exterior(2R) 18-8-8 to 22-5-1. Interior (1) 22-5-1 to 37-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 200.0lb AC unit load placed on the bottom chord, 18-8-8 from left end, supported at two points, 5-0-0 apart. All plates are 2x4 MT20 unless otherwise indicated
- \* 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.
- 8) Refer to girder(s) for truss to truss connections.

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.

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Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A6	Common	5	1	Job Reference (optional)	173831356

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:29 

Page: 1

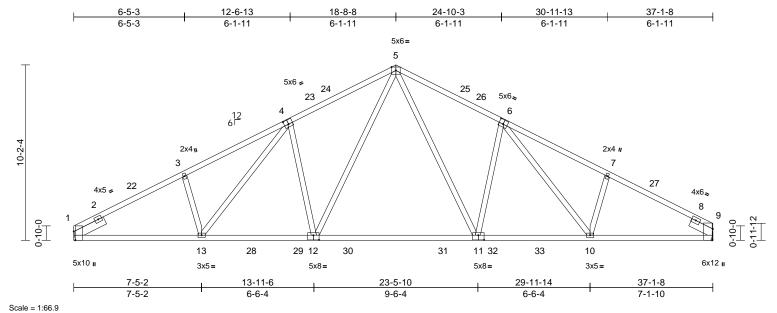


Plate Offsets (X, Y): [1:0-6-1,Edge], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [9:0-7-13,Edge], [11:0-4-0,0-3-4], [12:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.31	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.54	11-12	>825	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.14	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 212 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP 2400F 2.0E

**WEBS** 2x4 SP No.3 \*Except\* 12-5,11-5:2x4 SP No.2 SLIDER Left 2x6 SP 2400F 2.0E -- 2-0-0, Right 2x6

SP 2400F 2.0E -- 1-6-0

BRACING

**FORCES** 

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or

2-8-1 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 1= Mechanical, 9= Mechanical

> 1=97 (LC 12) Max Horiz

Max Grav 1=1659 (LC 3), 9=1661 (LC 3)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-3=-3061/248, 3-5=-2975/323, 5-7=-2846/322, 7-9=-2948/240

1-13=-149/2635, 10-13=-91/2343,

9-10=-143/2508

**WEBS** 3-13=-226/127, 4-12=-608/188,

4-13=-64/402, 7-10=-182/123,

5-12=-90/1102, 6-11=-560/185, 5-11=-88/1070, 6-10=-55/264

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-8-9, Interior (1) 3-8-9 to 18-8-8, Exterior(2R) 18-8-8 to 22-5-1, Interior (1) 22-5-1 to 37-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- \* 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.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A7	Roof Special	1	1	Job Reference (optional)	173831357

Run: 8,73 S Nov 16 2023 Print: 8,730 S Nov 16 2023 MiTek Industries, Inc. Fri May 30 08:03:26 ID:TE2RIfD2LbXk?FV2pJRcllzNtE8-XLym1TLyWPf5xTRfhDM6Fb6Wcxrh?d\_5oXk\_n3zBXiX

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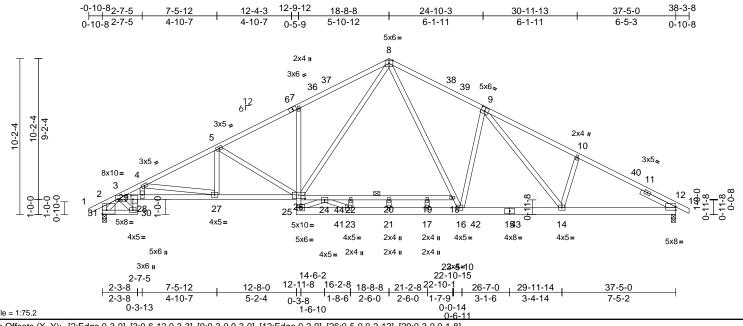


Plate Offsets (X, Y): [2:Edge,0-3-0], [3:0-6-12,0-3-3], [9:0-3-0,0-3-0], [12:Edge,0-2-9], [26:0-5-0,0-2-12], [29:0-3-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.23	20-22	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.47	20-22	>942	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.22	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 263 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E \*Except\* 30-29,26-18:2x4 **BOT CHORD** SP No.2, 7-25:2x4 SP No.3, 25-15,15-12:2x6

SP 2400F 2.0E

**WEBS** 2x4 SP No.3 \*Except\* 26-8,16-8:2x4 SP No.2

**SLIDER** Right 2x4 SP No.3 -- 2-6-0 BRACING

TOP CHORD

FORCES

Structural wood sheathing directly applied or 3-0-11 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 22-24,20-22,19-20,18-19. 12=1499/0-3-8, 31=1516/0-3-8

REACTIONS (lb/size)

Max Horiz 31=-112 (LC 13)

Max Grav 12=2007 (LC 3), 31=2035 (LC 3)

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-496/14, 3-4=-6451/0, 4-5=-4683/0 5-6=-3833/0, 6-7=-3715/0, 7-36=-3871/0,

36-37=-3821/0, 8-37=-3802/0, 8-38=-3248/0, 38-39=-3268/0, 9-39=-3325/0, 9-10=-3622/7,

10-40=-3655/0, 11-40=-3675/0,

11-12=-1684/0, 2-31=-624/65 **BOT CHORD** 30-31=0/1768, 29-30=0/1799, 3-29=0/5536,

28-29=0/5774, 27-28=0/5774, 26-27=0/4147, 25-26=0/609, 7-26=-355/164, 25-41=0/1134, 23-41=0/1134, 21-23=0/2273, 17-21=0/2273, 16-17=0/2273, 16-42=0/2951, 15-42=0/2951,

15-43=0/2951, 14-43=0/2951, 12-14=0/3210, 24-26=0/2145

**WEBS** 5-26=-967/69, 8-26=0/1935, 8-18=0/1322,

16-18=0/1269, 9-16=-550/228,

9-14=-147/321, 10-14=-252/131, 5-27=0/540, 4-27=-1655/32, 3-30=-2270/0, 3-31=-2190/0. 24-25=-1155/0, 23-24=0/1282, 4-28=0/875

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-7-5, Interior (1) 2-7-5 to 18-8-8, Exterior(2R) 18-8-8 to 22-5-6, Interior (1) 22-5-6 to 38-3-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 18-8-8 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- \* 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.

LOAD CASE(S) Standard



NOTES

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

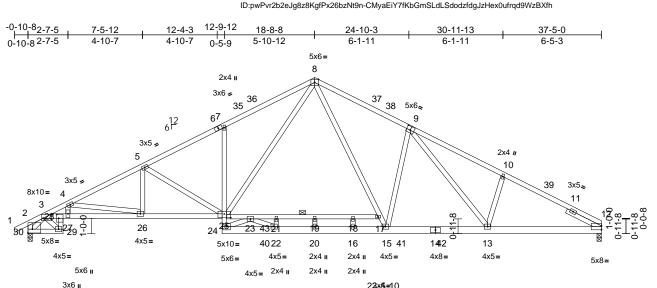
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TP11 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A8	Roof Special	1	1	Job Reference (optional)	73831358

Run: 8,73 S Nov 16 2023 Print: 8,730 S Nov 16 2023 MiTek Industries, Inc. Fri May 30 08:06:27 ID:pwPvr2b2eJg8z8KgfPx26bzNt9n-CMyaEiY7fKbGmSLdLSdodzfdgJzHex0ufrqd9WzBXfh

Page: 1



16-2-8 18-8-8 21-2-8 22-10-1

2-6-0

2-6-0

22-10-15

0-0-14

1-7-9

26-7-0

3-1-6

29-11-14

3-4-14

37-5-0

7-5-2

Plate Offsets (X, Y): [2:Edge,0-3-0], [3:0-6-12,0-3-3], [9:0-3-0,0-3-0], [12:Edge,0-3-1], [25:0-5-0,0-2-12], [28:0-3-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.23	19-21	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.47	19-21	>942	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.22	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 262 lb	FT = 20%

### LUMBER

Scale = 1:75.2

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E \*Except\* 29-28,25-17:2x4 **BOT CHORD** 

SP No.2, 7-24:2x4 SP No.3, 14-12,14-24:2x6

2-7-5

0-3-13

7-5-12

4-10-7

2-3-8

2-3-8

SP 2400F 2.0E

**WEBS** 2x4 SP No.3 \*Except\* 25-8,15-8:2x4 SP No.2

**SLIDER** Right 2x4 SP No.3 -- 2-6-0 BRACING

TOP CHORD

FORCES

Structural wood sheathing directly applied or 3-0-11 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 21-23,19-21,18-19,17-18.

REACTIONS (lb/size) 12=1458/0-3-8, 30=1517/0-3-8

Max Horiz 30=110 (LC 12)

Max Grav 12=1965 (LC 3), 30=2035 (LC 3)

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-497/15, 3-4=-6456/0, 4-5=-4685/0,

5-6=-3835/0. 6-7=-3717/0. 7-35=-3872/0.

35-36=-3823/0, 8-36=-3804/0, 8-37=-3250/0,

37-38=-3270/0, 9-38=-3327/0,

9-10=-3627/16, 10-39=-3619/0,

11-39=-3680/0, 11-12=-1707/0, 2-30=-624/66 **BOT CHORD** 29-30=0/1771, 28-29=0/1802, 3-28=0/5543,

27-28=0/5781, 26-27=0/5781, 25-26=0/4147, 24-25=0/609, 7-25=-355/164, 24-40=0/1133,

22-40=0/1133, 20-22=0/2272, 16-20=0/2272, 15-16=0/2272, 15-41=0/2951, 14-41=0/2951,

14-42=0/2951, 13-42=0/2951, 12-13=0/3212, 23-25=0/2144

**WEBS** 5-26=0/541, 9-15=-551/228, 10-13=-253/134,

5-25=-968/71, 4-26=-1658/49, 3-29=-2274/0, 3-30=-2190/0, 23-24=-1154/0, 22-23=0/1281.

8-25=0/1935, 8-17=0/1323, 15-17=0/1270, 9-13=-155/325, 4-27=0/876

1) Unbalanced roof live loads have been considered for this design.

14-6-2

1-6-10

1-8-6

12-11-8

0-3-8

12-8-0

5-2-4

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-7-5, Interior (1) 2-7-5 to 18-8-8, Exterior(2R) 18-8-8 to 22-5-6, Interior (1) 22-5-6 to 37-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 18-8-8 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- \* 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.

LOAD CASE(S) Standard



NOTES

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	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	A9	Roof Special	6	1	I738 Job Reference (optional)	331359

Run: 8.73 S Nov 16 2023 Print: 8.730 S Nov 16 2023 MiTek Industries, Inc. Fri May 30 08:07:46

Page: 1 ID:0zGTjCn4R0rD400bFN3ZV8zNt?D-sInp02WIpvgwMkT?1F2YsrzGXZIMN9Dg2HCrzuzBXeR 12-9-12 18-8-8 24-10-3 30-11-13 37-5-0

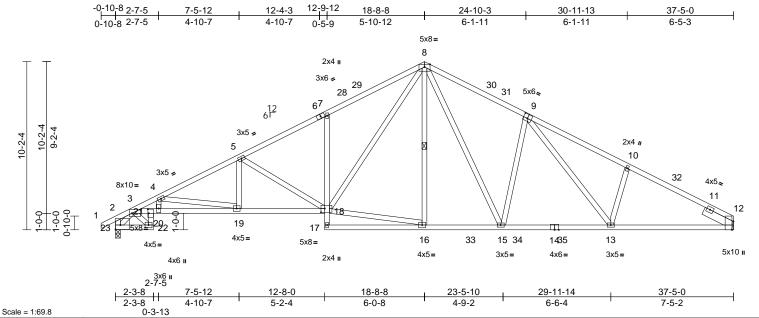


Plate Offsets (X, Y): [2:Edge,0-3-4], [3:0-6-4,0-2-11], [9:0-3-0,0-3-0], [12:0-6-1,Edge], [18:0-2-12,0-2-12], [21:0-3-0,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.20	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.37	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.23	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 243 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2 0F

2x4 SP 2400F 2.0E \*Except\* 22-21:2x4 SP **BOT CHORD** 

No.2, 7-17:2x4 SP No.3

**WEBS** 2x4 SP No.3 \*Except\* 18-8,15-8:2x4 SP No.2 **SLIDER** 

Right 2x6 SP 2400F 2.0E -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**WEBS** 1 Row at midpt

REACTIONS (lb/size) 12=1261/ Mechanical. 23=1310/0-3-8

Max Horiz 23=110 (LC 12)

Max Grav 12=1634 (LC 3), 23=1680 (LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-3=-418/52, 3-4=-5353/347, 4-5=-3798/268,

5-6=-2992/269, 6-7=-2874/271, 7-28=-3020/345, 28-29=-2971/354,

8-29=-2951/374, 8-30=-2482/330, 30-31=-2503/310, 9-31=-2560/300, 9-10=-2940/304, 10-32=-2976/247,

11-32=-3026/231, 11-12=-632/0,

2-23=-537/106

BOT CHORD 22-23=-101/1470, 21-22=-91/1501, 3-21=-295/4597, 20-21=-305/4795,

19-20=-305/4795, 18-19=-166/3350 7-18=-356/165, 16-33=0/1716, 15-33=0/1716,

15-34=-81/2278, 14-34=-81/2278, 14-35=-81/2278, 13-35=-81/2278,

12-13=-146/2601

**WEBS** 5-19=0/501, 5-18=-914/85, 4-19=-1466/141,

3-22=-1886/132, 3-23=-1818/112, 8-18=-176/1519, 16-18=-3/1592,

8-15=-124/972, 9-15=-631/182,

9-13=-51/456, 4-20=0/740

### **NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-7-5, Interior (1) 2-7-5 to 18-8-8, Exterior(2R) 18-8-8 to 22-5-6, Interior (1) 22-5-6 to 37-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.

LOAD CASE(S) Standard



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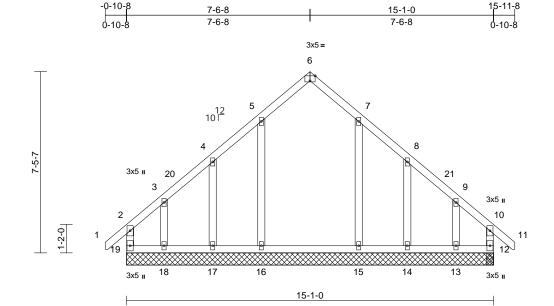
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	B1	Common Structural Gable	1	1	Job Reference (optional)	I73831360

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:30 ID:EecNkO4bMOFDvs4XnKFX?sy7GRi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.4

Plate Offsets	(X,	Y):	[6:0-2-8,Edge	
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.01	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 90 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

### BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

**BOT CHORD** 

**REACTIONS** (size)

12=15-1-0, 13=15-1-0, 14=15-1-0, 15=15-1-0, 16=15-1-0, 17=15-1-0.

18=15-1-0, 19=15-1-0

Max Horiz 19=-157 (LC 11)

Max Uplift 12=-24 (LC 12), 13=-127 (LC 14), 14=-49 (LC 14), 17=-48 (LC 13),

18=-129 (LC 13), 19=-30 (LC 11) Max Grav 12=221 (LC 29), 13=191 (LC 30),

14=159 (LC 30), 15=316 (LC 30), 16=319 (LC 29), 17=157 (LC 29), 18=194 (LC 29), 19=226 (LC 30)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/47, 2-3=-204/83, 3-4=-110/47,

4-5=-105/55, 5-6=-131/102, 6-7=-131/102, 7-8=-101/54, 8-9=-107/42, 9-10=-205/82,

10-11=0/47, 2-19=-174/39, 10-12=-171/34

18-19=-72/215, 17-18=-72/215,

16-17=-72/215, 15-16=-72/215, 14-15=-72/215, 13-14=-72/215,

12-13=-72/215

**WEBS** 5-16=-159/49, 4-17=-160/157,

3-18=-139/185, 7-15=-159/49, 8-14=-160/157, 9-13=-139/185

NOTES

**BOT CHORD** 

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-9-14 to 2-2-2, Exterior(2N) 2-2-2 to 7-6-8, Corner (3R) 7-6-8 to 10-6-8. Exterior(2N) 10-6-8 to 15-10-14 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=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 19, 24 lb uplift at joint 12, 48 lb uplift at joint 17, 129 lb uplift at joint 18, 49 lb uplift at joint 14 and 127 lb uplift at ioint 13.

LOAD CASE(S) Standard



May 30,2025

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

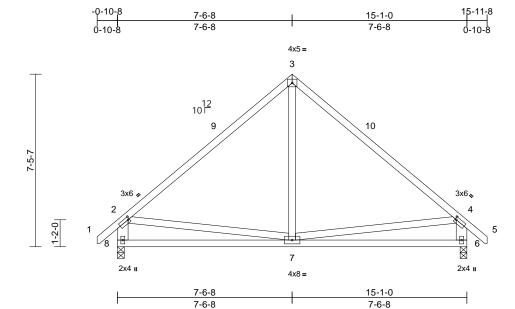
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	B2	Common	1	1	Job Reference (optional)	173831361

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:30 

Page: 1



Scale = 1:49.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.06	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 91 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2

**WEBS** 2x4 SP No.3 \*Except\* 8-2,6-4:2x6 SP No.2

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) 6=0-3-8, 8=0-3-8

Max Horiz 8=-159 (LC 11)

Max Grav 6=648 (LC 2), 8=648 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/51, 2-3=-614/123, 3-4=-614/123, 4-5=0/51, 2-8=-632/155, 4-6=-632/155

**BOT CHORD** 7-8=-218/456, 6-7=-163/404

WFBS 3-7=0/195, 2-7=-135/273, 4-7=-139/275

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-14 to 2-2-2, Interior (1) 2-2-2 to 7-6-8, Exterior(2R) 7-6-8 to 10-6-8, Interior (1) 10-6-8 to 15-10-14 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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) All bearings are assumed to be SP No.2.

LOAD CASE(S) Standard



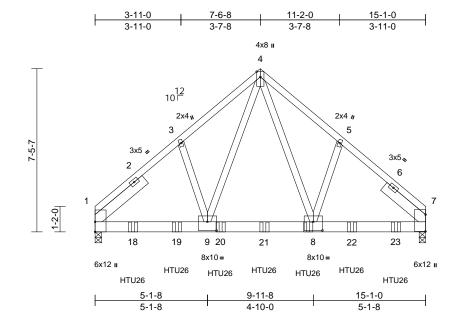
May 30,2025



Job Truss Truss Type Qty Ply 27 Eagle Creek-Lawson E 173831362 25050207-B В3 Common Girder 2 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:31 ID:tyLvFUD7Y4mWLi?qUrTMUOy7GRW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:52.6

Plate Offsets (X, Y): [8:0-5-0,0-4-12], [9:0-5-0,0-4-12]	-
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.15	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 221 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP 2400F 2.0E 2x4 SP No.3 WFBS

Left 2x6 SP 2400F 2.0E -- 3-0-0, Right 2x6 SLIDER

SP 2400F 2.0E -- 2-6-0

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-7-13 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8

Max Horiz 1=118 (LC 31)

Max Grav 1=6046 (LC 3), 7=6347 (LC 3) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension

TOP CHORD 1-3=-6213/0, 3-4=-6061/0, 4-5=-6096/0, 5-7=-6242/0

BOT CHORD 1-9=0/4639, 8-9=0/3424, 7-8=0/4630 **WEBS** 

4-8=0/3984, 5-8=0/279, 4-9=0/3907,

3-9=0/326

### NOTES

1) 2-ply truss to be connected together with 10d

(0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-6-0 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- \* 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.
- All bearings are assumed to be SP 2400F 2.0E .
- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 13-8-12 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-48, 4-7=-48, 10-14=-20

### Concentrated Loads (lb)

Vert: 8=-1241 (F), 18=-1246 (F), 19=-1241 (F), 20=-1241 (F), 21=-1241 (F), 22=-1241 (F), 23=-1241



May 30,2025

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Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	C1	Hip Girder	1	1	Job Reference (optional)	

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:31 ID:L8vHSqEllNuNzsa11Y\_b1cy7GRV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

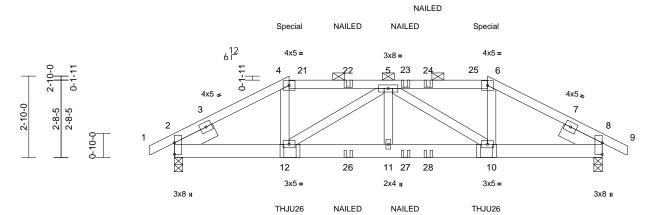
NAILED

11-0-12

3-7-4

Page: 1





Scale = 1:40.2 Plate Offsets (X, Y): [2:0-4-13,0-0-1], [8:0-4-13,0-0-1]

				_								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.04	11	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.07	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 89 lb	FT = 20%

7-5-8

3-7-4

3-10-4

3-10-4

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP 2400F 2.0E **WEBS** 2x4 SP No.3

SLIDER Left 2x6 SP 2400F 2.0E -- 1-6-0, Right 2x6

SP 2400F 2.0E -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-6-11 oc purlins, except

2-0-0 oc purlins (4-11-13 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8

Max Horiz 2=-24 (LC 9)

Max Uplift 2=-39 (LC 11), 8=-41 (LC 12)

Max Grav 2=1058 (LC 36), 8=1068 (LC 36)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-4=-1455/72, 4-5=-1239/78,

5-6=-1260/82, 6-8=-1474/75, 8-9=0/32 **BOT CHORD** 2-12=-41/1255, 11-12=-72/1779,

10-11=-72/1779, 8-10=-26/1274

**WEBS** 4-12=0/304, 5-12=-665/54, 5-11=0/226,

5-10=-651/52, 6-10=0/299

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* 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.
- All bearings are assumed to be SP 2400F 2.0E
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2 and 41 lb uplift at joint 8.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJU26 (SGL & SGL SHORT RC 1-PLY) or equivalent at 4-0-6 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie THJU26 (SGL & SGL SHORT LC 1-PLY) or equivalent at 10-10-10 from the left end to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 226 lb down and 78 lb up at 4-0-0, and 226 lb down and 78 lb up at 10-11-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-4=-48, 4-6=-58, 6-9=-48, 13-17=-20 Concentrated Loads (lb)

14-11-0

3-10-4

Vert: 4=-168 (B), 6=-168 (B), 12=-61 (B), 10=-61 (B), 22=-69 (B), 23=-69 (B), 24=-69 (B), 26=-25 (B), 27=-25 (B), 28=-25 (B)





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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/TP11 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.sbcacomponents.com)

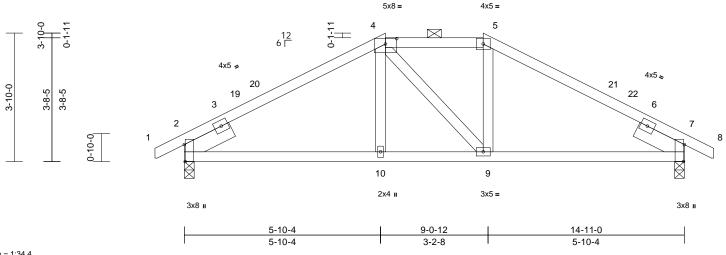


Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E
25050207-B	C2	Hip	1	1	I73831364 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:31 ID:irAlxk5D7hO4W0fjK1mmY4y7GRh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:34.4

Plate Offsets (X, Y): [2:0-6-1,Edge], [4:0-4-0,0-1-15], [7:0-6-1,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.03	10-13	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.05	10-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 73 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD WEBS** 2x4 SP No.3

SLIDER Left 2x6 SP No.2 -- 1-6-14, Right 2x6 SP

No.2 -- 1-6-14

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-9 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8

Max Horiz 2=-34 (LC 13)

Max Grav 2=768 (LC 44), 7=768 (LC 44) FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/32, 2-4=-868/185, 4-5=-717/210,

TOP CHORD 5-7=-869/185, 7-8=0/32

2-10=-144/697, 9-10=-76/693, 7-9=-147/697

**BOT CHORD WEBS** 4-10=0/113, 4-9=-103/104, 5-9=0/143

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 6-0-0, Exterior(2E) 6-0-0 to 8-11-0, Exterior(2R) 8-11-0 to 13-1-15, Interior (1) 13-1-15 to 15-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.33

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- \* 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.
- All bearings are assumed to be SP No.2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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.

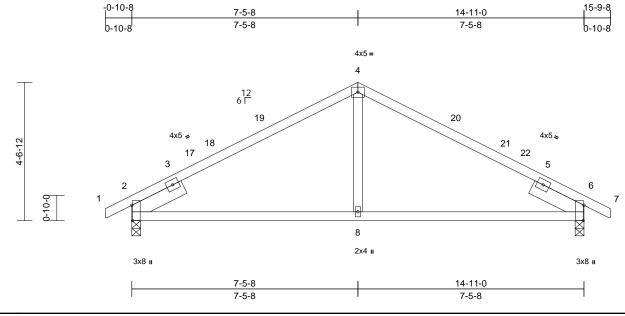
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	C3	Common	1	1	Job Reference (optional)	I73831365

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Page: 1



Scale = 1:38

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.08	8-11	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.12	8-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 65 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **WEBS** 2x4 SP No.3

SLIDER Left 2x6 SP No.2 -- 1-10-14, Right 2x6 SP

No.2 -- 1-10-14

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8. 6=0-3-8

Max Horiz 2=-41 (LC 13)

Max Grav 2=627 (LC 2), 6=627 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-4=-724/207, 4-6=-725/207,

6-7=0/27

**BOT CHORD** 2-8=-201/574, 6-8=-202/574

WEBS 4-8=0/203

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 7-5-8, Exterior(2R) 7-5-8 to 10-5-8, Interior (1) 10-5-8 to 15-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- All bearings are assumed to be SP No.1.

LOAD CASE(S) Standard



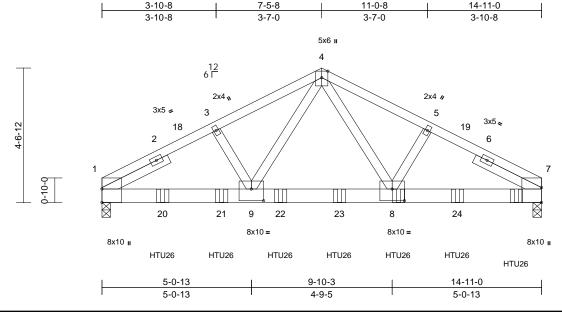
May 30,2025



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	C4	Common Girder	1	2	Job Reference (optional)	173831366

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Page: 1



Scale = 1:39.1

Plate Offsets (X, Y):	[8:0-5-0,0-4-12	], [9:0-5-0,0-4-12]
-----------------------	-----------------	---------------------

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.12	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.22	8-9	>824	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 175 lb	FT = 20%

### LUMBER

2x4 SP No.2 TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-6 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8

> 1=37 (LC 35) Max Horiz

Max Grav 1=5836 (LC 3), 7=7218 (LC 3) (lb) - Maximum Compression/Maximum

Tension

1-3=-8747/0, 3-4=-8717/0, 4-5=-8861/0, TOP CHORD

5-7=-8892/0

BOT CHORD 1-9=0/7687, 8-9=0/5719, 7-8=0/7830WEBS

4-8=0/4458, 5-8=0/298, 4-9=0/4204,

3-9=0/331

### NOTES

**FORCES** 

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 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.
- 3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- \* 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.
- All bearings are assumed to be SP 2400F 2.0E .
- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) to front face of bottom chord.
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 12-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord
- 11) Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-46, 4-7=-46, 10-14=-19

Concentrated Loads (lb)

Vert: 8=-1238 (F), 16=-1424 (F), 20=-1238 (F), 21=-1238 (F), 22=-1238 (F), 23=-1238 (F), 24=-1422



May 30,2025

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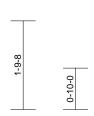


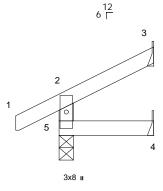
Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	CJ1	Jack-Open	4	1	Job Reference (optional)	173831367

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-0-10-8	1-10-15
0-10-8	1-10-15







Page: 1

Scale = 1:23.3

ı	1-10-15

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 8 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8

Max Horiz 5=32 (LC 12) Max Uplift 3=-18 (LC 15)

Max Grav 3=44 (LC 22), 4=18 (LC 13), 5=165

(LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-145/98, 1-2=0/33, 2-3=-34/22

BOT CHORD 4-5=0/0

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3.

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.

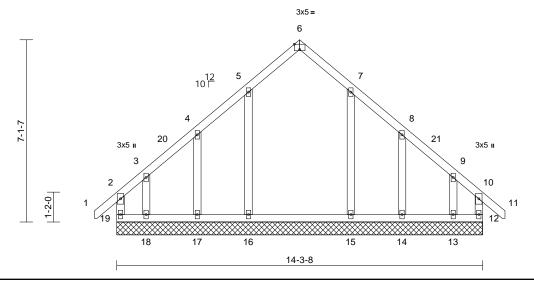
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Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	D1	Common Supported Gable	1	1	Job Reference (optional)	173831368

Run: 8 73 S. Feb 19 2025 Print: 8 730 S. Feb 19 2025 MiTek Industries. Inc. Thu May 29 11:27:32 ID:NAISHgRZINbt4tXtk\_fEwqy6GUR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:45

Plate Offsets (X, Y): [6:0-2-8,Edge]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 84 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

### BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

**BOT CHORD** 

**REACTIONS** (size) 12=14-3-8, 13=14-3-8, 14=14-3-8, 15=14-3-8, 16=14-3-8, 17=14-3-8.

18=14-3-8, 19=14-3-8

Max Horiz 19=-146 (LC 11)

Max Uplift 12=-44 (LC 12), 13=-141 (LC 14), 14=-49 (LC 14), 17=-49 (LC 13),

18=-142 (LC 13), 19=-50 (LC 11) Max Grav 12=220 (LC 29), 13=165 (LC 30),

14=157 (LC 30), 15=305 (LC 30), 16=308 (LC 29), 17=155 (LC 29), 18=168 (LC 29), 19=225 (LC 30)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-19=-172/54, 1-2=0/45, 2-3=-216/87, 3-4=-114/46, 4-5=-103/39, 5-6=-126/94,

6-7=-126/94, 7-8=-99/39, 8-9=-111/42, 9-10=-217/85, 10-11=0/45, 10-12=-169/53

**BOT CHORD** 18-19=-67/207, 17-18=-67/207,

16-17=-67/207, 15-16=-67/207

14-15=-67/207, 13-14=-67/207, 12-13=-67/207

**WEBS** 5-16=-158/61, 4-17=-157/159, 3-18=-125/184, 7-15=-157/61,

8-14=-156/158, 9-13=-124/185

### NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-9-14 to 2-2-2, Exterior(2N) 2-2-2 to 7-1-12, Corner(3R) 7-1-12 to 10-1-12. Exterior(2N) 10-1-12 to 15-1-6 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=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 2-0-0 oc.
- 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, with BCDL = 10.0psf.
- 11) All bearings are assumed to be SP No.2.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 19, 44 lb uplift at joint 12, 49 lb uplift at joint 17, 142 lb uplift at joint 18, 49 lb uplift at joint 14 and 141 lb uplift at ioint 13.

LOAD CASE(S) Standard



May 30,2025

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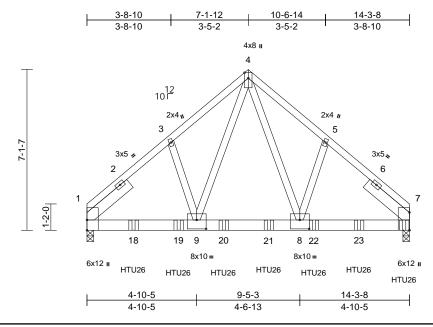
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Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	D2	Common Girder	1	2	Job Reference (optional)	173831369

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:32 ID:0U1?ona4T36AXjSARWs2QMy6GUF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:51.1

Plate Offsets (X, Y): [8:0-5-0,0-4-12], [9:0-5-0,0-4-12]

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.15	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 209 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP 2400F 2.0E 2x4 SP No.3 WEBS

Left 2x6 SP 2400F 2.0E -- 2-6-0, Right 2x6 SLIDER

SP 2400F 2.0E -- 2-6-0

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-8-6 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8

1=-112 (LC 30) Max Horiz Max Grav 1=5524 (LC 3), 7=7538 (LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-5883/0, 3-4=-5717/0, 4-5=-5783/0,

5-7=-5948/0

**BOT CHORD** 1-9=0/4373, 8-9=0/3261, 7-8=0/4380 WEBS

4-8=0/3796, 5-8=0/338, 4-9=0/3638,

3-9=0/342

### NOTES

**FORCES** 

2-ply truss to be connected together with 10d 1) (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 3 rows

staggered at 0-8-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- \* 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.
- All bearings are assumed to be SP 2400F 2.0E .
- Use Simpson Strong-Tie HTU26 (10-16d Girder 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 12-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-48, 4-7=-48, 10-14=-20

Concentrated Loads (lb)

Vert: 14=-1432 (B), 18=-1237 (B), 19=-1237 (B), 20=-1237 (B), 21=-1237 (B), 22=-1237 (B), 23=-1424



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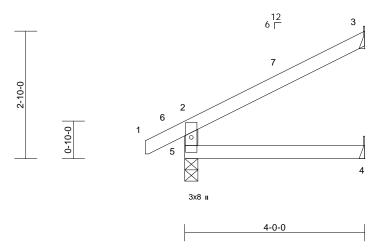


Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	EJ1	Jack-Open	5	1	Job Reference (optional)	173831370

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Page: 1





Scale = 1:25.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0	1									Weight: 15 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=55 (LC 15) Max Uplift 3=-35 (LC 15)

Max Grav 3=127 (LC 22), 4=45 (LC 22),

5=266 (LC 22)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-236/137, 1-2=0/33, 2-3=-75/50

BOT CHORD 4-5=0/0

### NOTES

**FORCES** 

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 3-11-4 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3.

LOAD CASE(S) Standard



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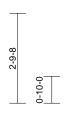
Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	HJ1	Diagonal Hip Girder	2	1	Job Reference (optional)	31371

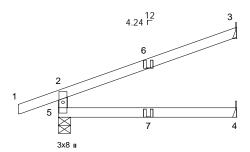
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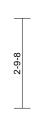
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NAILED NAILED







NAILED

NAILED

5-6-6

Scale = 1:35.7

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.07	4-5	>891	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0	l				l					Weight: 20 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-4-9

Max Horiz 5=58 (LC 7)

Max Uplift 3=-37 (LC 11), 5=-28 (LC 7) 3=166 (LC 18), 4=63 (LC 18), Max Grav

5=308 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-268/68, 1-2=0/33, 2-3=-68/43

BOT CHORD 4-5=0/0

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.

- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5 and 37 lb uplift at joint 3.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-46, 2-3=-46, 4-5=-19

Concentrated Loads (lb)

Vert: 7=0 (F=0, B=0)



May 30,2025

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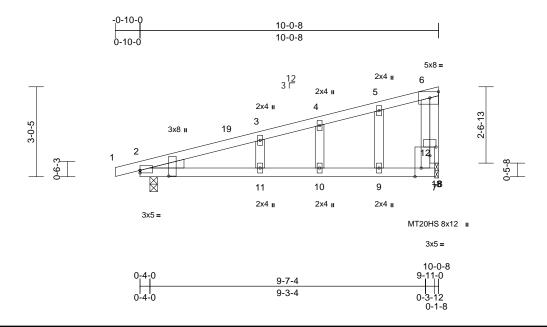


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	M1	Monopitch Structural Gable	1	1	Job Reference (optional)	173831372

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:32 ID:qLSfgAFN3h0Ea?8DbGVqZpy7GRU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.8

Plate Offsets (X, Y): [2:Edge,0-1-0], [2:0-2-5,0-11-9], [8:0-3-8,Edge], [12:0-2-8,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.20	10-11	>589	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.31	10-11	>385	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 47 lb	FT = 20%

### LUMBER

2x4 SP 2400F 2.0E TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD **WEBS** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-3-0, 18=0-1-8

Max Horiz 2=64 (LC 11)

Max Uplift 2=-21 (LC 11), 18=-12 (LC 15)

Max Grav 2=465 (LC 2), 18=388 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-351/120, 3-4=-329/115,

4-5=-311/139, 5-6=-289/164, 8-12=-122/236,

6-12=-122/236

**BOT CHORD** 2-11=-224/325, 10-11=-203/325,

9-10=-203/325, 8-9=-203/325, 7-8=0/0 **WEBS** 5-9=-60/82, 4-10=-48/73, 3-11=-55/89,

6-18=-401/237

### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-9-13 to 2-2-3, Exterior(2N) 2-2-3 to 9-7-4 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=1.33
- 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.

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- \* 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 18 SP No.3
- 10) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2 and 12 lb uplift at joint 18.

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.

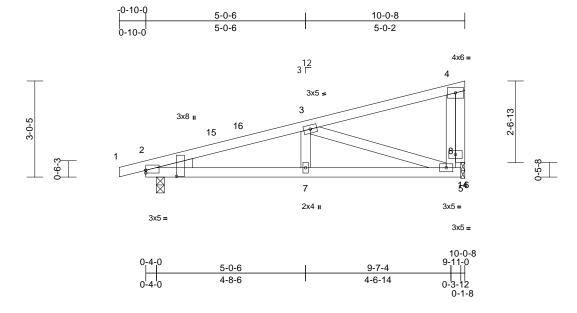
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	M2	Monopitch	2	1	Job Reference (optional)	173831373

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:32 ID:qLSfgAFN3h0Ea?8DbGVqZpy7GRU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.3

Plate Offsets	(X, Y	):	[2:Edge,0-1-0]	],	[2:0-2-5,0-11-9]	l
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.02	7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 49 lb	FT = 20%

### LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

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

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-3-0, 14=0-1-8

Max Horiz 2=64 (LC 11)

Max Uplift 2=-21 (LC 11), 14=-12 (LC 15) Max Grav 2=465 (LC 2), 14=388 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-763/190, 3-4=-140/10,

6-8=-49/269, 4-8=-49/269

**BOT CHORD** 2-7=-269/748, 6-7=-269/748, 5-6=0/0 3-7=0/85, 3-6=-680/245, 4-14=-395/130

### **WEBS** NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II: Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-13 to 2-2-3, Interior (1) 2-2-3 to 9-7-4 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 14 SP No.3
- Bearing at joint(s) 14 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 at joint(s) 14.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2 and 12 lb uplift at joint 14.

LOAD CASE(S) Standard



May 30,2025

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

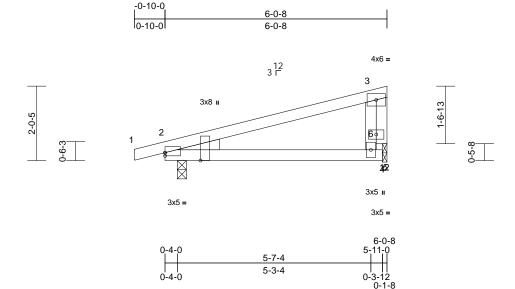
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	M3	Monopitch	8	1	Job Reference (optional)	173831374

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:32 ID:qLSfgAFN3h0Ea?8DbGVqZpy7GRU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.4

Plate Offsets (X, Y): [2:Edge,0-1-0], [2:0-2-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.02	5-11	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.03	5-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 25 lb	FT = 20%

### LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-3-0, 12=0-1-8

Max Horiz 2=38 (LC 11)

Max Uplift 2=-23 (LC 11), 12=-5 (LC 15)

Max Grav 2=341 (LC 22), 12=215 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-219/89, 5-6=0/90,

3-6=-51/116

2-5=-111/213, 4-5=0/0

**WEBS** 3-12=-109/9

### NOTES

**BOT CHORD** 

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II: Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-13 to 2-2-3, Interior (1) 2-2-3 to 5-7-4 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 12 SP No.3
- Bearing at joint(s) 12 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 at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2 and 5 lb uplift at joint 12.

LOAD CASE(S) Standard



May 30,2025

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

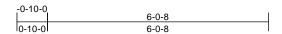
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

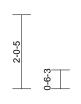
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 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.sbcacomponents.com)

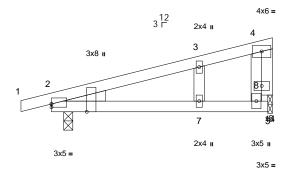


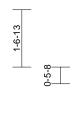
Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	M4	Monopitch Structural Gable	1	1	Job Reference (optional)	173831375

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:32 ID:eDIVMP6UfJeomJp6SSpEdVy7GRf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f









Page: 1

0-4-0		6-0-8 5-11-0
U-4-0	5-7-4	3-11-0
0-4-0	5-3-4	 0-3-12
		0-1-8

Scale = 1:31.5

Plate Offsets (X, Y): [2:Edge,0-1-0], [2:0-2-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.02	7-13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.03	7-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 27 lb	FT = 20%

### LUMBER

2x4 SP No 2 TOP CHORD **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

### BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-3-0, 14=0-1-8

Max Horiz 2=38 (LC 11)

Max Uplift 2=-23 (LC 11), 14=-5 (LC 15) Max Grav 2=341 (LC 22), 14=215 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/15, 2-3=-217/89, 3-4=-193/83,

6-8=-41/119, 4-8=0/21

**BOT CHORD** 2-7=-109/212, 6-7=-109/212, 5-6=0/0

**WEBS** 3-7=-46/72, 4-14=-150/72

### NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-13 to 2-2-3, Interior (1) 2-2-3 to 5-7-4 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=1.33
- 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.

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable studs spaced at 2-0-0 oc.
- \* 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.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 14 SP No.3
- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2 and 5 lb uplift at joint 14.

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

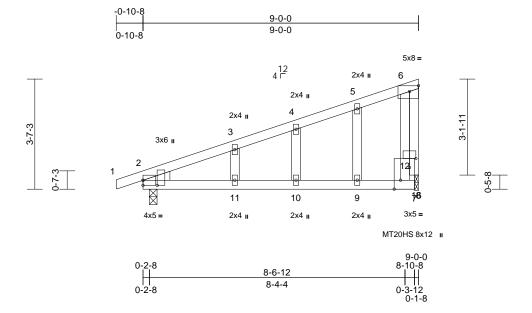
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Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	M5	Monopitch Structural Gable	1	1	Job Reference (optional)	173831376

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:32 ID:Py6vvh1iqwMG7opEUxWx5By7Fgi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.6

Plate Offsets (X, Y): [2:0-2-0,0-5-9], [6:Edge,0-2-3], [8:0-3-8,Edge], [12:0-2-8,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.16	10-11	>692	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.21	10-11	>510	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 46 lb	FT = 20%

### LUMBER

2x4 SP 2400F 2.0E TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD WEBS** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-3-0, 16=0-1-8

Max Horiz 2=79 (LC 11)

Max Uplift 2=-16 (LC 11), 16=-16 (LC 15)

Max Grav 2=411 (LC 2), 16=367 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-298/90, 3-4=-278/68,

4-5=-257/105, 5-6=-215/130, 8-12=-112/194,

6-12=-103/170

**BOT CHORD** 2-11=-244/265, 10-11=-190/265,

9-10=-190/265, 8-9=-190/265, 7-8=0/0 5-9=-21/61, 4-10=-62/90, 3-11=-50/88, **WEBS** 

6-16=-355/247

### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-10-3 to 2-1-13, Exterior(2N) 2-1-13 to 8-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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.

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- \* 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 16 SP No.3
- 10) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2 and 16 lb uplift at joint 16.

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.

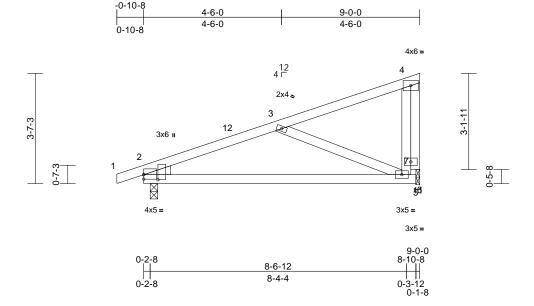
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Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	M6	Monopitch	12	1	Job Reference (optional)	173831377

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID: Mcl5uBGdMmlZvjmu5QMONBy7FgP-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full for the property of the pro

Page: 1



Scale = 1:37.6

Plate Offsets (X, Y): [2:Edge,0-1-12], [2:0-2-0,0-5-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	0.01	6-10	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.14	6-10	>755	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 45 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 Left: 2x4 SP No.3 WEDGE

BRACING

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

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-3-0, 11=0-1-8

Max Horiz 2=79 (LC 11) Max Uplift 2=-16 (LC 11), 11=-16 (LC 15)

Max Grav 2=411 (LC 2), 11=368 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-544/190, 3-4=-123/7,

6-7=-58/258, 4-7=-58/258 2-6=-290/532, 5-6=0/0

**BOT CHORD WEBS** 3-6=-499/263, 4-11=-373/159

### NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-3 to 2-1-13, Interior (1) 2-1-13 to 8-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 11 SP No.3
- Bearing at joint(s) 11 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 at joint(s) 11.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2 and 16 lb uplift at joint 11.

LOAD CASE(S) Standard



May 30,2025

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

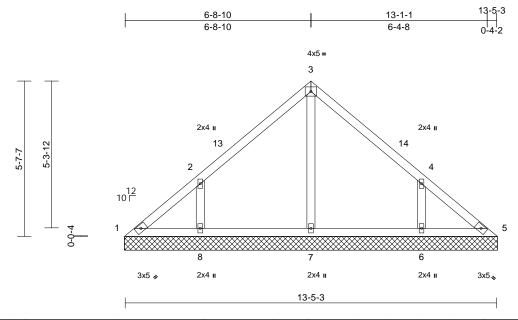
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E
25050207-B	VL1	Valley	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:6Pstal76QcmfOTOI09KT9iy7GRe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	e =	1:	41	.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 57 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

### **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=13-5-13, 5=13-5-13, 6=13-5-13, 7=13-5-13, 8=13-5-13

Max Horiz 1=-102 (LC 11)

1=-16 (LC 9), 6=-72 (LC 14), 8=-74 Max Uplift

(LC 13)

1=104 (LC 29), 5=86 (LC 2), 6=334 Max Grav

(LC 29), 7=270 (LC 2), 8=336 (LC

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-130/98, 2-3=-134/117, 3-4=-134/112, 4-5=-106/70

**BOT CHORD** 1-8=-38/99, 7-8=-38/71, 6-7=-38/71,

5-6=-38/81 WEBS

3-7=-189/0, 2-8=-306/195, 4-6=-306/195

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 2-8-14, Interior (1) 2-8-14 to 6-8-14, Exterior(2R) 6-8-14 to 9-8-14, Interior (1) 9-8-14 to 13-5-13 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=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 74 lb uplift at joint 8 and 72 lb uplift at joint 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



May 30,2025

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

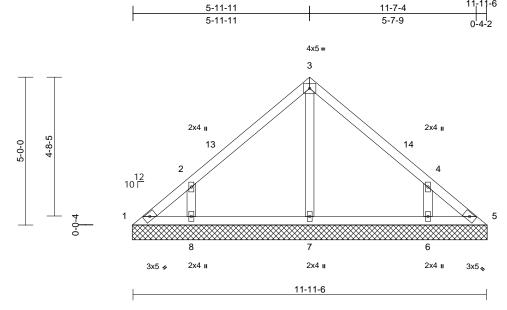
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	VL2	Valley	2	1	I73831 Job Reference (optional)	1379

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:BZCIWr5VTgi4rV2MbfmbEYy6Gcc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:39

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0	l									Weight: 49 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

### **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=12-0-0, 5=12-0-0, 6=12-0-0,

7=12-0-0, 8=12-0-0 Max Horiz 1=-90 (LC 11)

1=-23 (LC 9), 5=-1 (LC 10), 6=-67 Max Uplift

(LC 14), 8=-69 (LC 13)

1=82 (LC 29), 5=65 (LC 28), 6=314 Max Grav (LC 29), 7=241 (LC 2), 8=317 (LC

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-102/83, 2-3=-161/118, 3-4=-161/114,

4-5=-80/53

**BOT CHORD** 1-8=-22/66, 7-8=-22/59, 6-7=-22/59,

5-6=-22/60 WEBS

3-7=-155/0, 2-8=-315/224, 4-6=-315/224

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 1 lb uplift at joint 5, 69 lb uplift at joint 8 and 67 lb uplift at joint 6.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.

LOAD CASE(S) Standard



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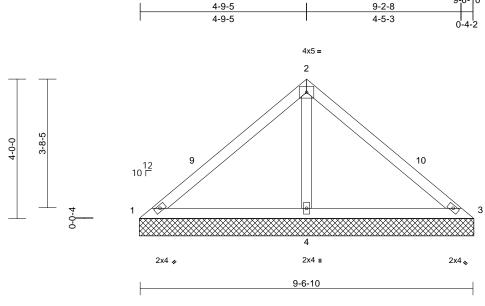
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	VL3	Valley	2	1	Job Reference (optional)	173831380

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:6Pstal76QcmfOTOI09KT9iy7GRe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 36 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

### **BRACING**

Structural wood sheathing directly applied or TOP CHORD

9-6-10 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=9-7-3, 3=9-7-3, 4=9-7-3

Max Horiz 1=72 (LC 10)

Max Uplift 1=-29 (LC 35), 3=-29 (LC 34),

4=-17 (LC 13)

1=67 (LC 34), 3=67 (LC 35), 4=715 Max Grav

(LC 2)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-129/343, 2-3=-124/343 **BOT CHORD** 

1-4=-251/183, 3-4=-251/183

**WEBS** 2-4=-647/278

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-9-10, Exterior(2R) 4-9-10 to 7-9-10, Interior (1) 7-9-10 to 9-7-3 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=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 29 lb uplift at joint 3 and 17 lb uplift at joint 4.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



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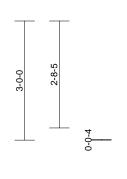


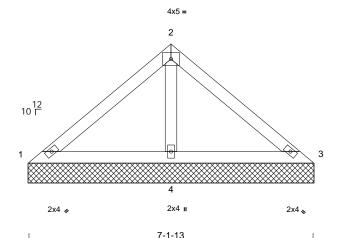
Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	VL4	Valley	2	1	Job Reference (optional)	173831381

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:6Pstal76QcmfOTOI09KT9iy7GRe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

7-1-13 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=7-2-6, 3=7-2-6, 4=7-2-6

Max Horiz 1=-53 (LC 11)

Max Uplift 1=-7 (LC 35), 3=-7 (LC 34), 4=-10 (LC 13)

Max Grav 1=65 (LC 34), 3=65 (LC 35), 4=499

(LC 2)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-103/221, 2-3=-98/221

**BOT CHORD** 1-4=-183/165, 3-4=-183/165

**WEBS** 2-4=-425/213

### NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-7-3, Exterior(2R) 3-7-3 to 6-4-12, Interior (1) 6-4-12 to 7-2-6 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=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 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.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 7 lb uplift at joint 3 and 10 lb uplift at joint 4.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



May 30,2025

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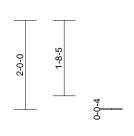


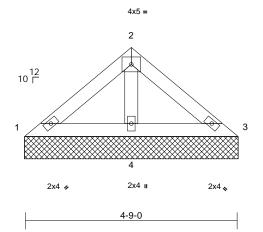
ſ	Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
	25050207-B	VL5	Valley	2	1	Job Reference (optional)	3831382

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:6Pstal76QcmfOTOI09KT9iy7GRe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 17 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

4-9-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=4-9-10, 3=4-9-10, 4=4-9-10

Max Horiz 1=-34 (LC 9)

Max Grav 1=61 (LC 34), 3=61 (LC 35), 4=285

(LC 2)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-54/93, 2-3=-54/93 **BOT CHORD** 1-4=-84/88, 3-4=-84/88

2-4=-208/104 WFRS

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- \* 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.
- All bearings are assumed to be SP No.2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

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.

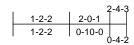
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking 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/TP11 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.sbcacomponents.com)

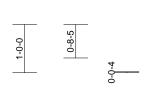


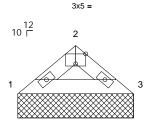
Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	VL6	Valley	2	1	Job Reference (optional)	173831383

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:6Pstal76QcmfOTOI09KT9iy7GRe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 7 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

### BRACING

TOP CHORD Structural wood sheathing directly applied or

2-4-3 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 1=2-4-13, 3=2-4-13 (size)

Max Horiz 1=-15 (LC 11)

Max Grav 1=96 (LC 2), 3=96 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-138/64, 2-3=-138/64

BOT CHORD 1-3=-39/99

### NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 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.
- All bearings are assumed to be SP No.2 .
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

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.

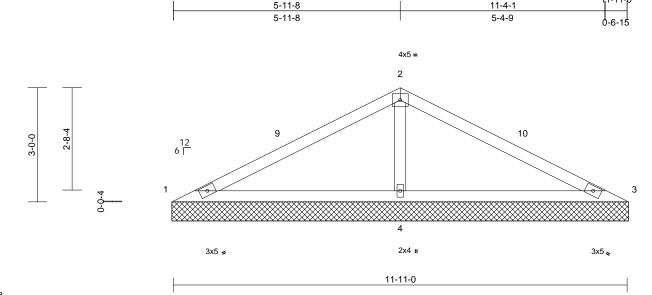
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSB Building Component Safety Information, available from the Structural Building Component Safety Information and Safety Information, available from the Structural Building Component Safety Information and Safety In and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	VL7	Valley	1	1	Job Reference (optional)	31384

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:BZCIWr5VTgi4rV2MbfmbEYy6Gcc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le =	1:30	.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.44	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 39 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=12-0-0, 3=12-0-0, 4=12-0-0

Max Horiz 1=29 (LC 14)

Max Uplift 1=-47 (LC 22), 3=-47 (LC 21)

Max Grav 1=76 (LC 38), 3=76 (LC 39), 4=917

(LC 2)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-178/532, 2-3=-172/532

**BOT CHORD** 1-4=-444/219, 3-4=-444/219

**WEBS** 2-4=-757/323

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1 and 47 lb uplift at joint 3.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



May 30,2025

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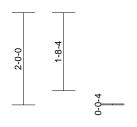


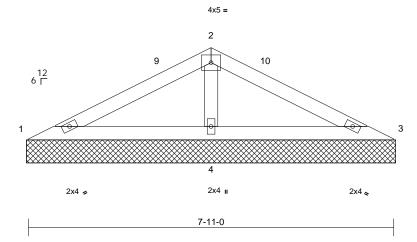
Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	
25050207-B	VL8	Valley	1	1	Job Reference (optional)	5

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:BZCIWr5VTgi4rV2MbfmbEYy6Gcc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:25

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 25 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

7-11-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=8-0-0, 3=8-0-0, 4=8-0-0

Max Horiz 1=-19 (LC 13) Max Uplift 1=-1 (LC 15), 3=-5 (LC 16)

Max Grav 1=91 (LC 21), 3=91 (LC 22), 4=536

(LC 2)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-128/280, 2-3=-120/280

**BOT CHORD** 1-4=-249/174, 3-4=-249/174

**WEBS** 2-4=-409/222

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 6-9-3, Interior (1) 6-9-3 to 8-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- \* 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.
- All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 5 lb uplift at joint 3.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



May 30,2025

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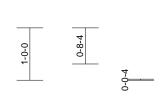


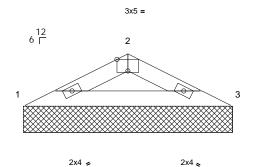
Job	Truss	Truss Type	Qty	Ply	27 Eagle Creek-Lawson E	173831386
25050207-B	VL9	Valley	1	1	Job Reference (optional)	

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Thu May 29 11:27:33 ID:B38Izwlfu\_CRGBBmbByf\_Wy6GUc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







3-11-0

Scale = 1:22

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

### LUMBER

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2

### BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 1=4-0-0, 3=4-0-0 (size)

Max Horiz 1=-9 (LC 13)

Max Grav 1=160 (LC 2), 3=160 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-314/170, 2-3=-314/159

BOT CHORD 1-3=-149/274

### NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- 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; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design. Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 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.
- All bearings are assumed to be SP No.2.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

LOAD CASE(S) Standard



May 30,2025

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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- <sup>1</sup>/16" from outside edge of truss.

₹

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

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

### PLATE SIZE

4 × 4

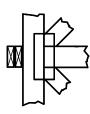
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

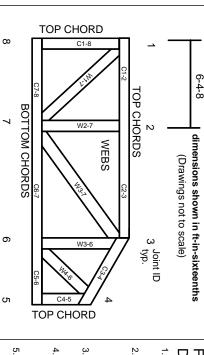
### Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

DSB-22:

## 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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### MITEK



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# ▲ 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/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 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.
- 15. 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/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.