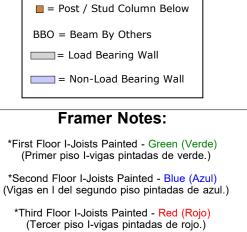


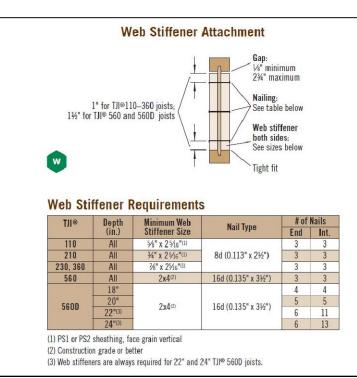
				00.	incotor our	u. y	
			PlotID	Qty	Manuf	Prod	uct
			H1	11	Simpson	IUS2	.06/11.88
			Produc	ts			
PlotID	Length	Product				Plies	Net Qty
FJ1	46' 0"	11 7/8" TJI@	3 210			1	9
FJ2	45' 0"	11 7/8" TJI@	<b>210</b>			1	3
FJ3	25' 6"	11 7/8" TJI@	3 210			1	13
FJ4	16' 6"	11 7/8" TJI@	3 210			1	3
FJ5	13' 0"	11 7/8" TJI@	3 210			1	2
FJ6	12' 6"	11 7/8" TJI@	3 210			1	8
FJ7	11' 6"	11 7/8" TJI@	<b>210</b>			1	6
FJ8	10' 0"	11 7/8" TJI@	3 210			1	1
FJ9	2' 6"	11 7/8" TJI@	<b>210</b>			1	3
BM1	10' 0"	1 3/4" x 11	7/8" 2.0E	Microlla	am® LVL	2	2
BM2	8' 0"	1 3/4" x 11	7/8" 2.0E	Microlla	am® LVL	1	1
BM3	5' 0"	1 3/4" x 11	7/8" 2.0E	Microlla	am® LVL	2	2
RIM1	16' 0"	1 1/8" x 11	7/8" TJ® F	Rim Bo	ard	1	13
RIM2	16' 0"	1 1/8" x 11	7/8" TJ® F	Rim Bo	ard	2	4
Bk1	26' 0"	11 7/8" TJI@	3 210			1	1

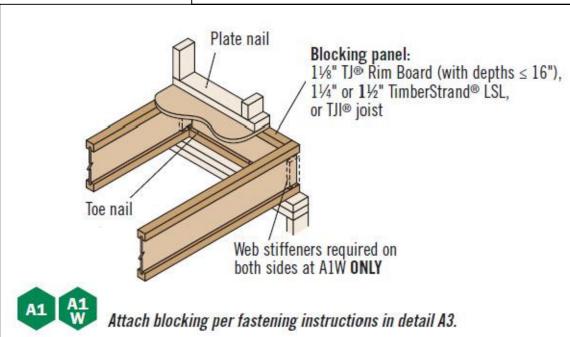


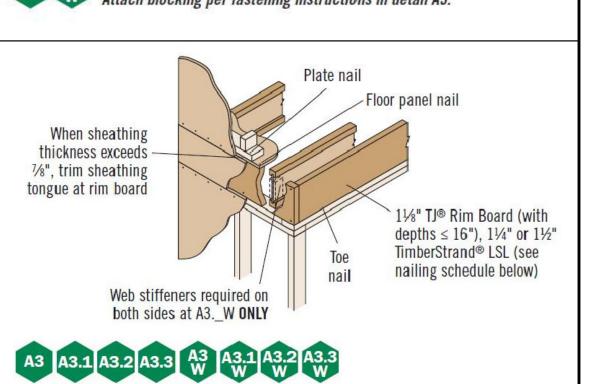
X = Point Load From Above

\*Field Trim Non Red End To Keep Holes Aligned (Cortar el lado sin marca rojo para alinear los hoyos.)

**HVAC Hole Notes:** 







Specifications	A3, Conventional Construction, Code Minimum	A3.1, A3.2, A3.3, A3.4 Designed Solution
Rim Board Thickness	11/8" TJ® Rim Board, or 11/4" or 11/2" TimberStrand® LSL	
Plate Nail: (0.131" x 3")	12" o.c.(1)	See Weyerhaeuser's
loor Panel Nail: d (0.131" x 2½")	6" o.c.	Rim Board Specifier's Guide (Reorder #TJ-8000)
Toe Nail: (0.131" x 3")	6" o.c.	(1001d51 11 <u>17 0000</u> )
Wall Sheathing	Per code	

(1) Per code, increase nailing to 4" on center for braced walls.

NC Creek Lillington, uncans Road -56 D ot o

Inc

Home

New

3941 USHwy 421 North

Wilmington, NC 28401 (910) 386-4300

DRAWN BY:

JJC

DATE:

09-15-2026

SCALE:

1/4" = 1'-0"

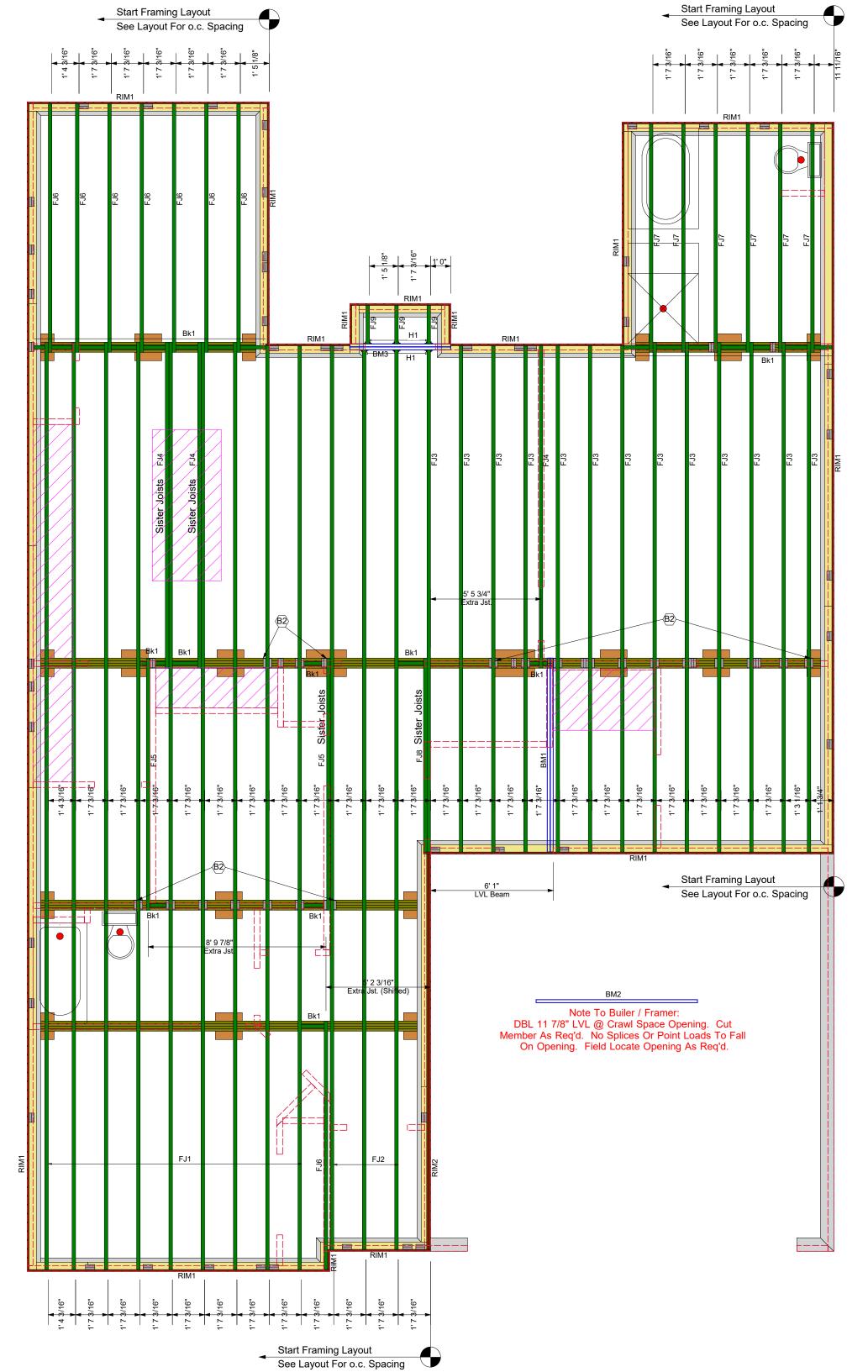
SALESPERSON:

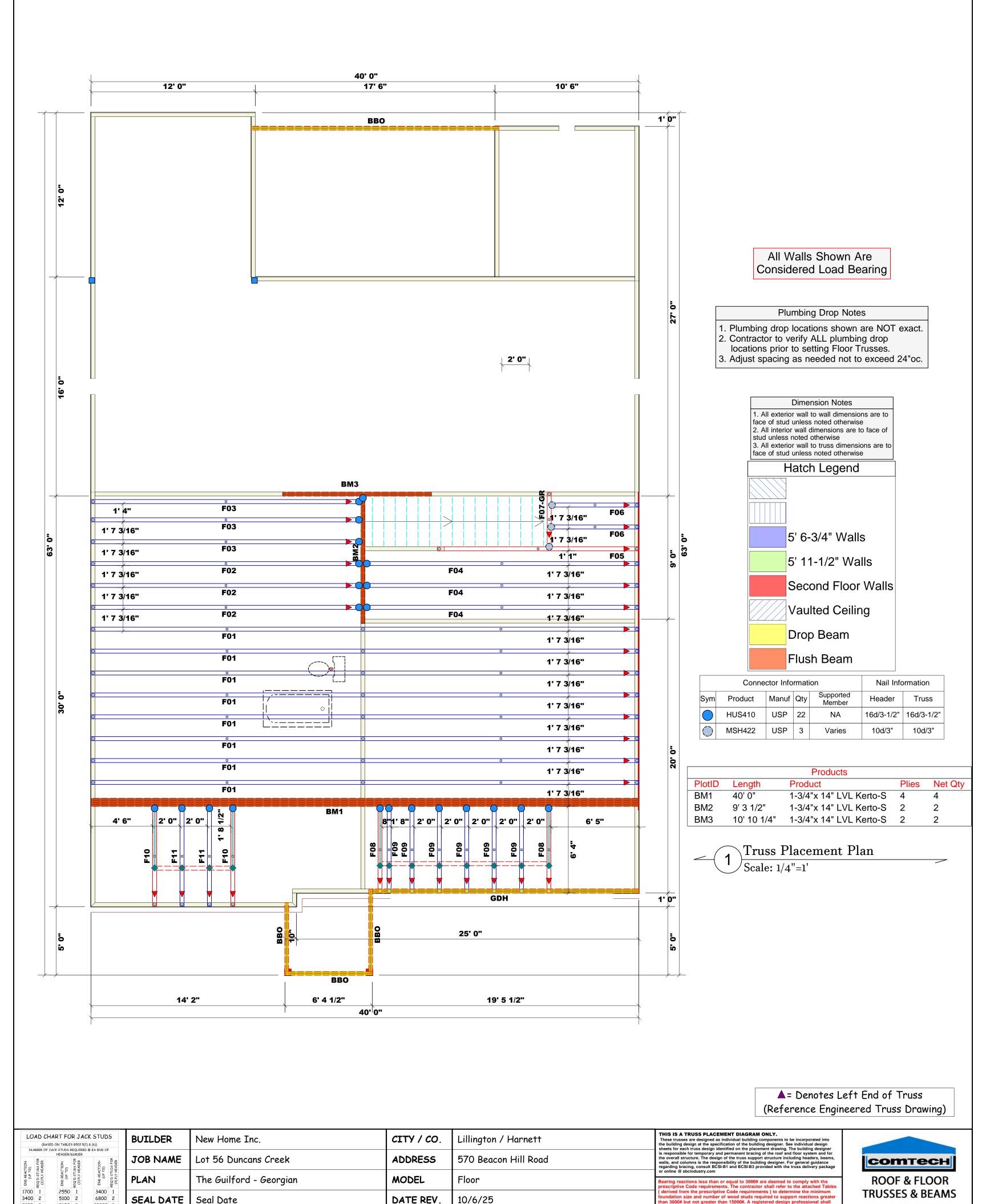
Kevin Martin

**LEVEL NAME:** 

**1st Floor Framing** Layout

PAGE: 1





Johnnie Baggett

House Account

**DRAWN BY** 

SALES REP.

5100 3

6800 4

8500 5

10200 6

11900 7

13600 8

15300 9

7650 3

10200 4

12750 5

15300 6

10200 3

13600 4

17000 5

QUOTE #

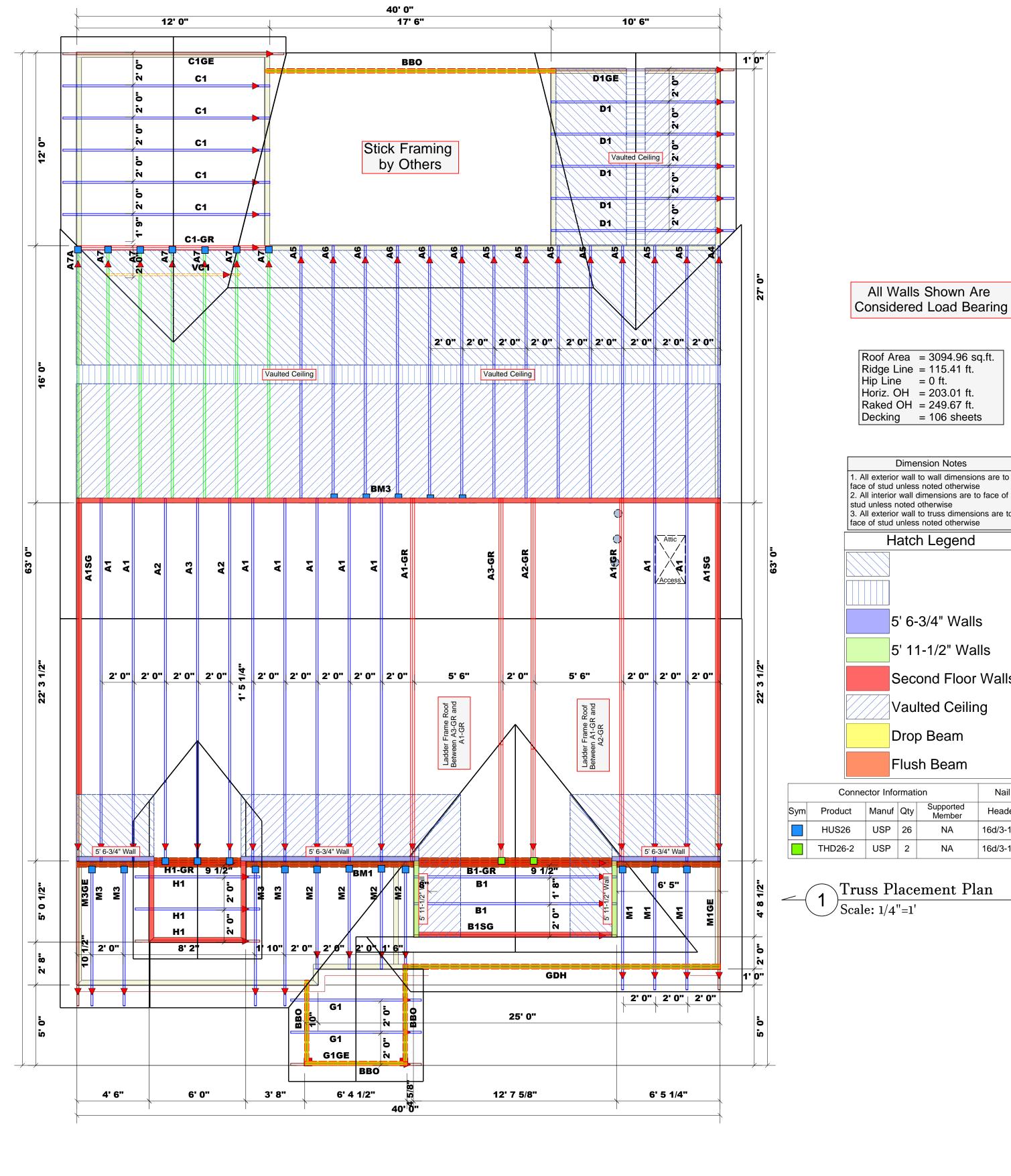
251317 - B

JOB#

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Sales Area

Sales Area



All Walls Shown Are Considered Load Bearing

Roof Area = 3094.96 sq.ft. Ridge Line = 115.41 ft. Hip Line = 0 ft. Horiz. OH = 203.01 ft. Raked OH = 249.67 ft. Decking = 106 sheets

2. All interior wall dimensions are to face of stud unless noted otherwise 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise Hatch Legend 5' 6-3/4" Walls 5' 11-1/2" Walls Second Floor Walls Vaulted Ceiling Drop Beam Flush Beam

	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	26	NA	16d/3-1/2"	16d/3-1/2"
	THD26-2	USP	2	NA	16d/3-1/2"	10d/3"

Truss Placement Plan

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)

LOAD CHART FOR JACK STUDS									
(BASED ON TABLES R502.5(1) & (b))									
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER									
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER		
1700	1		2550	1		3400	1		
3400	2		5100	2		6800	2		
5100	3		7650	3		10200	3		
6800	4		10200	4		13600	4		
8500	5		12750	5		17000	5		
10200	6		15300	6					
11900	7								
13600	8								
15300	9								

_				
BUILDER	New Home Inc.	CITY / CO.	Lillington / Harnett	THIS IS A These trus the building
JOB NAME	Lot 56 Duncans Creek	ADDRESS	570 Beacon Hill Road	is responsi the overall walls, and regarding b
PLAN	The Guilford - Georgian	MODEL	Roof	Bearing re
SEAL DATE	Seal Date	DATE REV.	10/6/25	( derived to foundation than 3000 be retaine
QUOTE#		DRAWN BY	Johnnie Baggett	specified retained to
JOB#	251317 - A	SALES REP.	House Account	Signat

IS A TRUSS PLACEMENT DIAGRAM ONLY.

g reactions less than or equal to 3000# are deemed to comply with the pitive Code requirements. The contractor shall refer to the attached Tables ed from the prescriptive Code requirements) to determine the minimum titon size and number of wood studs required to support reactions greater 000# but not greater than 15000#. A registered design professional shall ined to design the support system for any reaction that exceeds those ed in the attached Tables. A registered design professional shall be d to design the support system for all reactions that exceed 15000#.

Sales Area

Sales Area



Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 251317-B

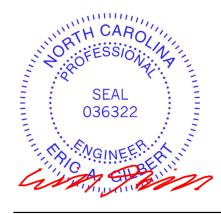
Lot 56 Duncan's Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I76872502 thru I76872512

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

North Carolina COA: C-0844



October 7,2025

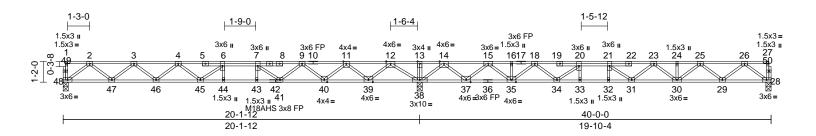
Gilbert, Eric

**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.

Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-B	F01	Floor	8	1	Job Reference (optional)	176872502

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:01 ID:ediuqYrH77ZWewQngPSVVIyW51s-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



### Scale = 1:65.1

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.27	44	>904	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.34	44-45	>709	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.05	28	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 211 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

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

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

**REACTIONS** (size) 28=0-3-8, 38=0-3-8, 48=0-3-8 28=736 (LC 4), 38=2148 (LC 1), Max Grav

48=747 (LC 3)

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

Tension

TOP CHORD 1-48=-31/0, 27-28=-28/0, 1-2=-2/0,

2-3=-1578/0, 3-4=-2558/0, 4-6=-3039/0, 6-7=-3123/29, 7-9=-2584/332, 9-11=-1497/843, 11-12=0/1498,

12-13=0/3764, 13-14=0/3763, 14-15=0/1685, 15-16=-1428/931, 16-18=-1428/931, 18-20=-2494/410, 20-21=-3031/110,

21-23=-2968/0, 23-24=-2547/0, 24-25=-2547/0, 25-26=-1548/0, 26-27=-2/0

**BOT CHORD** 47-48=0/934, 46-47=0/2193, 45-46=0/2906,

44-45=-29/3123, 43-44=-29/3123, 41-43=-29/3123, 40-41=-585/2103, 39-40=-1130/863, 38-39=-2200/0,

37-38=-2437/0. 35-37=-1257/699. 34-35=-666/2011, 33-34=-110/3031, 32-33=-110/3031, 31-32=-110/3031,

30-31=0/2851, 29-30=0/2144, 28-29=0/923

**WEBS** 

13-38=-118/0, 2-48=-1169/0, 2-47=0/838, 3-47=-802/0, 14-38=-1661/0, 26-28=-1156/0, 14-37=0/1314, 26-29=0/813, 15-37=-1293/0, 25-29=-776/0, 15-35=0/1052, 25-30=-11/514, 18-35=-857/0, 23-30=-389/27, 18-34=0/771, 23-31=-221/149, 20-34=-911/0, 21-31=-106/382, 20-33=0/156, 21-32=-139/3, 16-35=-95/0, 24-30=-63/7, 11-39=-1287/0, 12-38=-1854/0, 12-39=0/1309, 11-40=0/933, 3-46=0/475, 4-46=-452/13, 9-41=0/779, 4-45=-188/171, 7-41=-932/0, 6-45=-138/357, 6-44=-138/5, 7-43=0/158, 9-40=-892/0

### NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

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

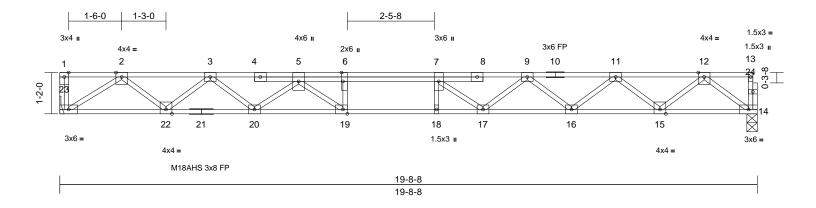
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 56 Duncan's Creek	
251317-B	F02	Floor	3	1	Job Reference (optional)	6872503

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:02 ID:UIwiTAaggt9JNoGPTa1kCAyW5\_J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.6

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
	. ,	-						( /			_	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.25	18-19	>938	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.34	18-19	>681	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 106 lb	FT = 20%F, 11%E

7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SP 2400F 2.0E(flat)

**BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

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 14=0-3-8, 23= Mechanical (size)

Max Grav 14=851 (LC 1), 23=856 (LC 1)

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

Tension

TOP CHORD 1-23=-44/0, 13-14=-32/0, 1-2=0/0,

2-3=-1980/0, 3-5=-3201/0, 5-6=-4140/0, 6-7=-4140/0, 7-9=-3830/0, 9-11=-3062/0,

11-12=-1838/0, 12-13=-2/0

**BOT CHORD** 22-23=0/1248, 20-22=0/2683, 19-20=0/3725,

18-19=0/4140, 17-18=0/4140, 16-17=0/3521,

15-16=0/2582. 14-15=0/1068

WEBS 12-14=-1338/0. 2-23=-1483/0. 12-15=0/1003.

2-22=0/952, 11-15=-967/0, 3-22=-915/0, 11-16=0/625, 3-20=0/671, 9-16=-597/0, 5-20=-669/0, 9-17=0/518, 5-19=0/821,

7-17=-581/0, 6-19=-431/0, 7-18=-43/64

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x4 (=) MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



October 7,2025

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

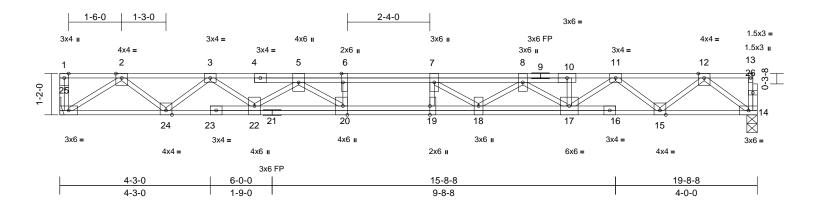
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 56 Duncan's Creek	
251317-B	F03	Floor	3	1	Job Reference (optional)	76872504

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:02  $ID: KL\_yiv54EHvZs0KQILn2mXyW4yM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:32.6

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.25	19-20	>945	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.34	19-20	>688	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 126 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

LUMBER

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 14=0-3-8, 25= Mechanical (size) Max Grav 14=851 (LC 1), 25=856 (LC 1)

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

Tension

TOP CHORD 1-25=-43/0, 13-14=-29/0, 1-2=0/0,

2-3=-1968/0, 3-5=-3335/0, 5-6=-4430/0, 6-7=-4430/0, 7-8=-4278/0, 8-10=-3250/0, 10-11=-3245/0, 11-12=-1822/0, 12-13=-2/0

**BOT CHORD** 24-25=0/1243, 22-24=0/2719, 20-22=0/3956,

19-20=0/4430, 18-19=0/4430, 17-18=0/4015,

15-17=0/2606. 14-15=0/1067

WEBS 12-14=-1336/0, 2-25=-1477/0, 12-15=0/984.

2-24=0/943, 11-15=-1020/0, 3-24=-977/0, 11-17=0/798. 3-22=0/779. 8-17=-939/0. 5-22=-773/0, 8-18=0/463, 5-20=0/821, 7-18=-512/146, 6-20=-315/0, 7-19=-171/98,

10-17=0/94

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



October 7,2025

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

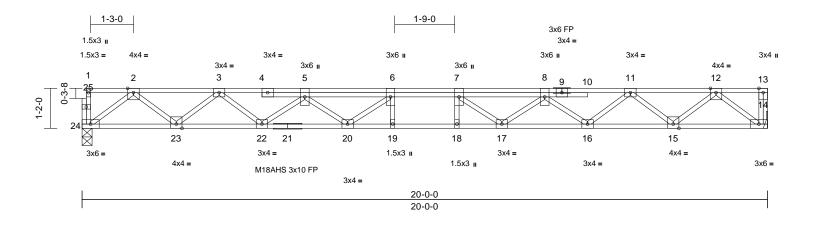
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 56 Duncan's Creek	
251317-B	F04	Floor	3	1	Job Reference (optional)	05

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:02 ID:qbRkRRCfxx9FaLudI5N48WyW4uM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.6

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.26	18-19	>927	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.35	18-19	>673	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 113 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

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) 14= Mechanical, 24=0-3-8

Max Grav 14=868 (LC 1), 24=863 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-26/0, 13-14=-29/0, 1-2=-2/0,

2-3=-1862/0, 3-5=-3185/0, 5-6=-4057/0, 6-7=-4327/0, 7-8=-4066/0, 8-11=-3189/0,

11-12=-1862/0, 12-13=0/0

BOT CHORD 23-24=0/1093, 22-23=0/2604, 20-22=0/3772,

19-20=0/4327, 18-19=0/4327, 17-18=0/4327, 16-17=0/3791, 15-16=0/2603, 14-15=0/1094

**WEBS** 12-14=-1373/0, 2-24=-1369/0, 12-15=0/999,

2-23=0/1001, 11-15=-964/0, 3-23=-966/0, 11-16=0/764, 3-22=0/750, 8-16=-765/0, 5-22=-751/0, 8-17=0/497, 5-20=0/504, 7-17=-533/17, 6-20=-538/7, 6-19=-55/70,

7-18=-53/72

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



October 7,2025

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

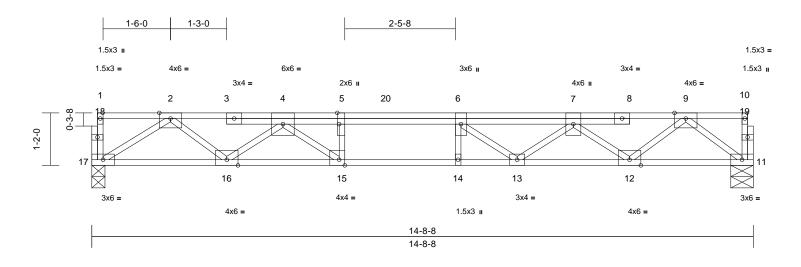
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 56 Duncan's Creek	
251317-B	F05	Floor Girder	1	1	I768 Job Reference (optional)	372506

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:02 

Page: 1



Scale = 1:25.6

Plate Offsets	(X, Y):	[5:0-3-0,Edge],	[15:0-1-8,Edge]
---------------	---------	-----------------	-----------------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.15	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.21	14-15	>813	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 85 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### 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 11=0-6-0, 17=0-3-8 (size)

Max Grav 11=913 (LC 1), 17=944 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-63/0, 10-11=-53/0, 1-2=-4/0, 2-4=-2175/0, 4-5=-3733/0, 5-6=-3733/0,

6-7=-3269/0, 7-9=-1952/0, 9-10=-3/0

**BOT CHORD** 16-17=0/1358, 15-16=0/3003, 14-15=0/3733,

13-14=0/3733, 12-13=0/2791, 11-12=0/1122

9-11=-1404/0, 2-17=-1609/0, 9-12=0/1074, 2-16=0/1059. 7-12=-1071/0. 4-16=-1056/0.

7-13=0/804, 4-15=0/1239, 6-13=-836/0,

5-15=-688/0, 6-14=-26/56

### NOTES

**WEBS** 

- 1) Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 358 lb down at 6-6-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 11-17=-10, 1-10=-100

Concentrated Loads (lb)

Vert: 20=-278 (B)



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	Lot 56 Duncan's Creek	
251317-B	F06	Floor	2	1	Job Reference (optional)	176872507

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:02 

Page: 1

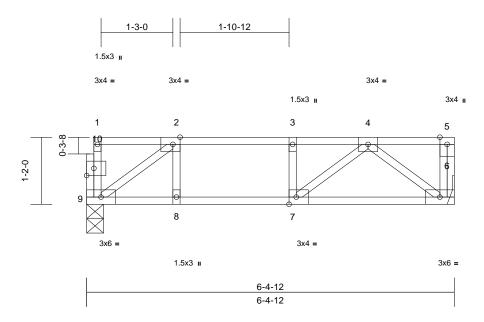


Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,0-1-8]

-		1			-		-		-			
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 34 lb	FT = 20%F, 11%I

### LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 

### 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)

Max Grav 6=270 (LC 1), 9=265 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-30/30, 5-6=-41/0, 1-2=-2/2, 2-3=-364/0,

6= Mechanical, 9=0-3-8

3-4=-364/0, 4-5=0/0

BOT CHORD 8-9=0/364, 7-8=0/364, 6-7=0/280

WEBS 4-6=-351/0, 2-9=-448/0, 4-7=0/156, 2-8=0/66,

3-7=-83/0

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



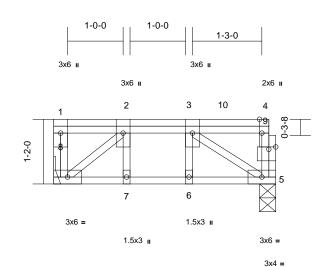
October 7,2025



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-B	F07-GR	Floor Girder	1	1	Job Reference (optional)	176872508

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:02 

Page: 1



4-0-0 4-0-0

Scale = 1:20.8

Plate Offsets (X, Y): [4:0-3-0,Edge], [9:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 29 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### 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 5=0-3-8, 8= Mechanical (size) Max Grav 5=464 (LC 4), 8=378 (LC 1)

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

Tension

TOP CHORD 1-8=-88/0, 4-5=-171/0, 1-2=0/0, 2-3=-425/0,

3-4=-11/0

BOT CHORD 7-8=0/425, 6-7=0/425, 5-6=0/425

WEBS 3-5=-501/0, 3-6=-1/30, 2-8=-550/0, 2-7=-9/25

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 254 lb down at 1-5-7, and 255 lb down at 3-0-10 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb)

Vert: 2=-190 (B), 10=-192 (B)





Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-B	F08	Floor Girder	2	1	Job Reference (optional)	76872509

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:02 

Page: 1

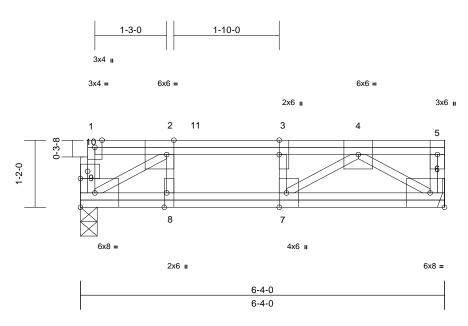


Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-3-0,Edge], [7:0-3-0,Edge], [8:0-3-0,Edge], [10:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.08	6-7	>961	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.10	6-7	>698	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%F, 11%E

LUMBER Vert: 11=-150

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 

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= Mechanical, 9=0-3-8 Max Grav 6=2210 (LC 1), 9=1421 (LC 1)

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

Tension

TOP CHORD 1-9=0/340, 5-6=-416/0, 1-2=-19/0, 2-3=-2859/0, 3-4=-2859/0, 4-5=0/0 BOT CHORD 8-9=0/2853, 7-8=0/2859, 6-7=0/2507

WEBS 4-6=-3013/0, 2-9=-3299/0, 4-7=0/872,

2-8=0/282 3-7=-664/0

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 6-9=-10, 1-11=-100, 5-11=-770 (F=-670) Concentrated Loads (lb)



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	Lot 56 Duncan's Creek	
251317-B	F09	Floor	6	1	Job Reference (optional)	176872510

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:03 ID:etBRO?yoRONWRcFni9MsUCyW4j2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

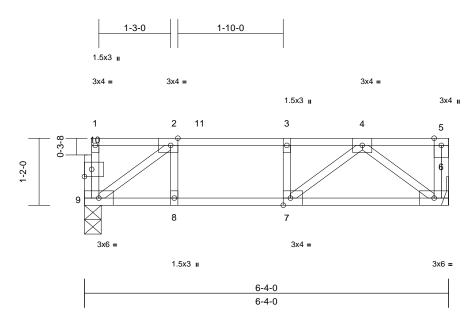


Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### 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= Mechanical, 9=0-3-8 Max Grav 6=427 (LC 1), 9=536 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-22/54, 5-6=-59/0, 1-2=-1/3, 2-3=-739/0,

3-4=-739/0, 4-5=0/0

BOT CHORD 8-9=0/739, 7-8=0/739, 6-7=0/464 WEBS 4-6=-582/0, 2-9=-912/0, 4-7=0/412,

2-8=-1/52, 3-7=-218/0

### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 6-9=-10, 1-5=-100 Concentrated Loads (lb)

Vert: 11=-300





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	Lot 56 Duncan's Creek	
251317-B	F10	Floor Girder	2	1	Job Reference (optional)	176872511

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:03 ID:INUM6S6yNN0gVckGzO5vWxyW4ir-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

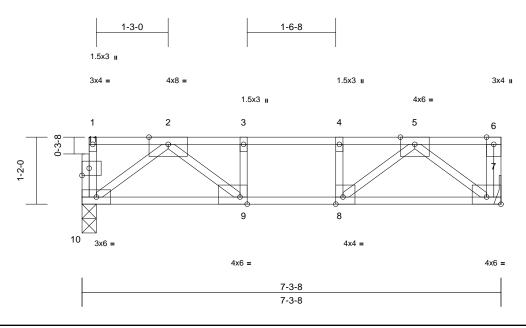


Plate Offsets (X, Y): [7:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.09	7-8	>974	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.11	7-8	>738	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 11%E

LUMBER

2x4 SP 2400F 2.0E(flat) TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

2x4 SP No.3(flat) OTHERS

**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) 7= Mechanical, 10=0-3-0 Max Grav 7=1753 (LC 1), 10=1059 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-10=-86/0, 6-7=-290/0, 1-2=-5/0, 2-3=-2578/0, 3-4=-2578/0, 4-5=-2578/0,

5-6=0/0 **BOT CHORD** 9-10=0/1295, 8-9=0/2578, 7-8=0/1888 5-7=-2368/0, 2-10=-1618/0, 5-8=0/1085. WFBS

2-9=0/1639, 3-9=-921/0, 4-8=-639/0

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down at 2-9-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 7-10=-10, 1-3=-100, 3-6=-535 (F=-435)

Concentrated Loads (lb)

Vert: 3=-150 (F)

October 7,2025

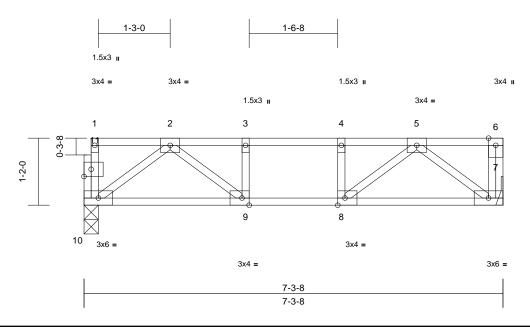




Job		Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
25131	17-B	F11	Floor	2	1	Job Reference (optional)	176872512

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:03 ID:LLr4d2UP4vwHjNcEHO8AHTyW4iM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.05	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.07	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 11%E

### LUMBER

TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

### 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) 7= Mechanical, 10=0-3-0 Max Grav 7=502 (LC 1), 10=567 (LC 1)

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

Tension

TOP CHORD 1-10=-43/0, 6-7=-67/0, 1-2=-3/0, 2-3=-1021/0,

3-4=-1021/0, 4-5=-1021/0, 5-6=0/0

**BOT CHORD** 9-10=0/659, 8-9=0/1021, 7-8=0/573 WFBS 5-7=-719/0 2-10=-824/0 5-8=0/612 2-9=0/462, 3-9=-319/0, 4-8=-282/0

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down at 2-9-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 7-10=-10, 1-6=-100 Concentrated Loads (lb) Vert: 3=-300 (F)



October 7,2025

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)



### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE

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

## LATERAL BRACING LOCATION



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

### **BEARING**



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

### Industry Standards:

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

DSB-22: ANSI/TPI1:

## 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

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

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

© 2023 MiTek® All Rights Reserved

## MiTek



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

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 251317-A

Lot 56 Duncan's Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I76872472 thru I76872501

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

North Carolina COA: C-0844



October 7,2025

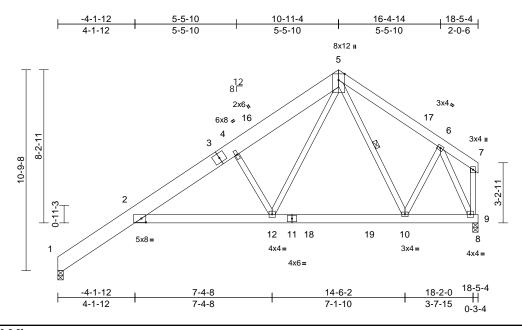
Pace, Adam

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A1	Roof Special	9	1	Job Reference (optional)	76872472

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries. Inc. Mon Oct 06 16:38:56 ID:keindx?AdJTmef7bxi22zyyWBA8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.9

Plate Offsets (X, Y): [2:0-2-15,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.18	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.35	12-15	>769	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.22	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.16	12-15	>999	240	Weight: 182 lb	FT = 25%

### LUMBER

2x10 SP No.1 \*Except\* 5-7:2x6 SP No.1, TOP CHORD

1-3:2x10 SP 2400F 2.0E

**BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals

Rigid ceiling directly applied. **BOT CHORD** WFBS 1 Row at midpt 5-10

REACTIONS (size) 1=0-3-8, 9=0-3-8

Max Horiz 1=237 (LC 9)

Max Uplift 1=-23 (LC 12), 9=-58 (LC 12)

Max Grav 1=1010 (LC 19), 9=1067 (LC 19)

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

Tension

TOP CHORD 1-2=-600/34, 2-4=-2101/333, 4-5=-1659/391, 5-6=-819/237, 6-7=-31/45, 7-9=-33/1

BOT CHORD 2-12=-411/1820, 10-12=-96/724,

9-10=-89/444, 8-9=0/0

WFBS 4-12=-978/348, 5-12=-260/1386

5-10=-193/77, 6-10=0/470, 6-9=-1082/220

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-9-14, Interior (1) 4-9-14 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior (1) 19-5-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 30.0psf 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.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 9 and 23 lb uplift at joint 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

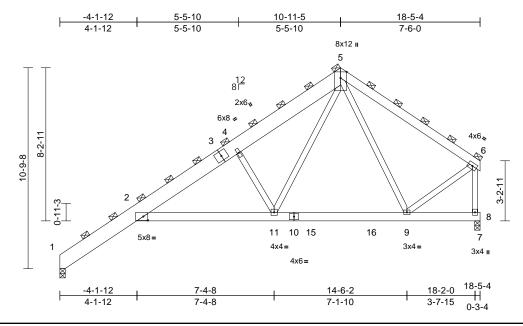




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A1-GR	Roof Special Girder	2	2	Job Reference (optional)	176872473

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:57 ID:5jkgdS67?tREYQfmj8H43YyWBGT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.9

Plate Offsets (X, Y): [2:0-2-15,0-2-8]

		•										
Loading	(psf)	Spacing	4-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.18	11-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.36	11-14	>742	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.22	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.16	11-14	>999	240	Weight: 354 lb	FT = 25%

LUMBER

2x10 SP No.1 \*Except\* 5-6:2x6 SP No.1, TOP CHORD

1-3:2x10 SP 2400F 2.0E

**BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WFBS

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals

(Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 1=475 (LC 5)

Max Uplift 1=-47 (LC 8), 8=-115 (LC 8)

Max Grav 1=2020 (LC 15), 8=2133 (LC 15)

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

Tension

1-2=-1200/69, 2-4=-3419/313, TOP CHORD

4-5=-3313/437, 5-6=-1652/192,

6-8=-2054/140

**BOT CHORD** 2-11=-508/3561, 9-11=-99/1457, 8-9=-36/75,

7-8=0/0

**WEBS** 6-9=-8/1532, 4-11=-1941/521,

5-11=-336/2758, 5-9=-550/177

### NOTES

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

Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 8 and 47 lb uplift at joint 1.
- 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

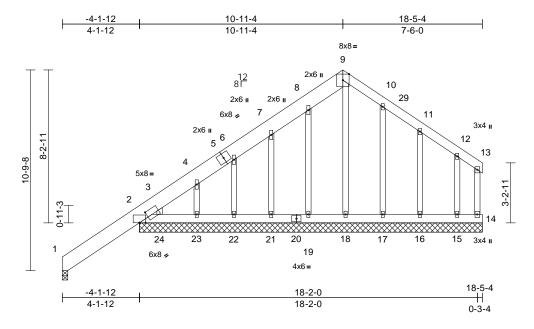




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A1SG	Roof Special Supported Gable	2	1	Job Reference (optional)	176872474

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries. Inc. Mon Oct 06 16:38:57 ID:Pmujmd90eIQXYijW6U2yXByWAv9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	25	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	25	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	25	>999	240	Weight: 195 lb	FT = 25%

TOP CHORD 2x10 SP No.1 \*Except\* 9-13:2x6 SP No.1

**BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS **OTHERS** 2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied.

**REACTIONS** (size)

1=0-3-8, 2=18-5-4, 14=18-5-4, 15=18-5-4, 16=18-5-4, 17=18-5-4, 18=18-5-4, 19=18-5-4, 21=18-5-4, 22=18-5-4, 23=18-5-4, 24=18-5-4

Max Horiz 1=235 (LC 9)

Max Uplift 1=-21 (LC 8), 15=-46 (LC 13), 16=-55 (LC 13), 17=-17 (LC 13), 19=-19 (LC 12), 21=-53 (LC 12),

22=-52 (LC 12), 23=-16 (LC 12),

24=-104 (LC 12)

Max Grav 1=212 (LC 20), 14=30 (LC 26), 15=148 (LC 20), 16=180 (LC 20), 17=169 (LC 20), 18=172 (LC 22), 19=178 (LC 19), 21=170 (LC 19), 22=184 (LC 19), 23=53 (LC 3),

24=495 (LC 19)

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

TOP CHORD

1-2=-288/243, 2-3=-191/219, 3-4=-178/127, 4-6=-142/141, 6-7=-129/137, 7-8=-113/207, 8-9=-118/252, 9-10=-123/261, 10-11=-94/202,

11-12=-48/98. 12-13=-14/24. 13-14=-23/17

BOT CHORD

2-24=-14/30, 23-24=-4/11, 22-23=-3/9, 21-22=-2/7, 19-21=-3/7, 18-19=-3/8,

17-18=-3/5, 16-17=-3/5, 15-16=-3/5, 14-15=-3/5

WEBS

9-18=-139/19, 8-19=-137/62, 7-21=-134/141, 6-22=-130/132, 4-23=-47/81, 3-24=-256/184, 10-17=-129/80, 11-16=-139/166,

12-15=-110/130

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-1-12 to 4-9-14, Exterior(2N) 4-9-14 to 15-1-0, Corner(3R) 15-1-0 to 19-2-12, Exterior(2N) 19-2-12 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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. All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 19, 53 lb uplift at joint 21, 52 lb uplift at joint 22, 16 lb uplift at joint 23, 104 lb uplift at joint 24, 17 lb uplift at joint 17, 55 lb uplift at joint 16, 46 lb uplift at joint 15 and 21 lb uplift at joint 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

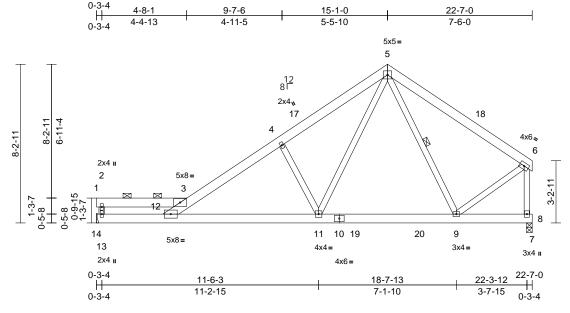
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A2	Roof Special	2	1	Job Reference (optional)	176872475

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries. Inc. Mon Oct 06 16:38:57  $ID: MTZBMA4ZGswyaSNNA\_b480yWB4t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:59.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.39	11-15	>676	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.72	11-15	>365	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.24	11-15	>999	240	Weight: 159 lb	FT = 25%

### LUMBER

2x6 SP No.1 TOP CHORD

**BOT CHORD** 2x6 SP 2400F 2.0E \*Except\* 10-7:2x6 SP No.1

**WEBS** 2x4 SP No.2

### **BRACING**

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (8-4-5 max.): 1-3, 3-12.

**BOT CHORD** Rigid ceiling directly applied.

**WEBS** 1 Row at midpt 5-9

REACTIONS 8=0-3-8, 13= Mechanical (size)

Max Horiz 13=163 (LC 9)

Max Uplift 8=-39 (LC 12), 13=-61 (LC 12)

Max Grav 8=1037 (LC 19), 13=985 (LC 2)

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

Tension

TOP CHORD 1-2=0/0, 2-3=0/0, 3-12=-1552/269,

3-4=-1624/282, 4-5=-1576/348,

5-6=-786/171, 6-8=-972/173 **BOT CHORD** 

13-14=0/0. 12-13=-163/146. 11-12=-283/1568, 9-11=-86/707, 8-9=-32/54,

7-8=0/0

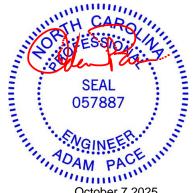
**WEBS** 2-13=-322/80, 6-9=-16/706, 5-9=-314/111, 5-11=-196/1321, 4-11=-683/256

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior (1) 4-4-13 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior (1) 19-5-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 8 and 61 lb uplift at joint 13.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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)

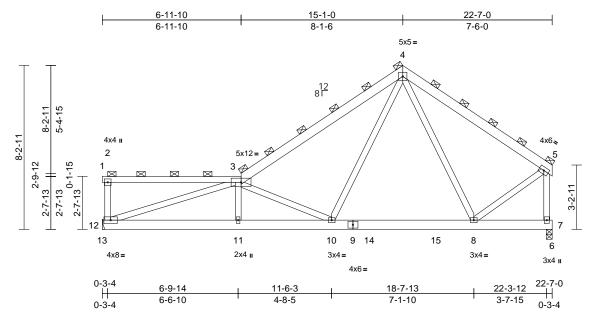


Ply Job Truss Truss Type Qty Lot 56 Duncan's Creek 176872476 251317-A A2-GR Roof Special Girder 2 Job Reference (optional)

Comtech. Inc. Favetteville, NC - 28314

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:57 ID:mYJmX7wH7ToA?EzYsayj?hyWBCq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.8

Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.07	11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.13	11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.05	10-11	>999	240	Weight: 330 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 \*Except\* 1-3:2x4 SP No.1

2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals

(Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

**REACTIONS** (size) 7=0-3-8, 12= Mechanical

Max Horiz 12=260 (LC 5)

Max Uplift 7=-71 (LC 8), 12=-129 (LC 8)

Max Grav 7=2051 (LC 16), 12=1969 (LC 2)

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

Tension

TOP CHORD 2-12=-426/157, 1-2=0/0, 2-3=-247/49,

3-4=-2712/171, 4-5=-1596/155, 5-7=-1987/94

**BOT CHORD** 12-13=0/0, 11-12=-375/4170,

10-11=-385/4154, 8-10=-70/1386, 7-8=-37/73. 6-7=0/0

WFBS 3-12=-4061/187, 5-8=0/1506, 3-11=0/388,

3-10=-2265/342, 4-10=-24/1792,

4-8=-507/164

### NOTES

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

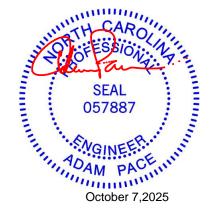
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 12 and 71 lb uplift at joint 7.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

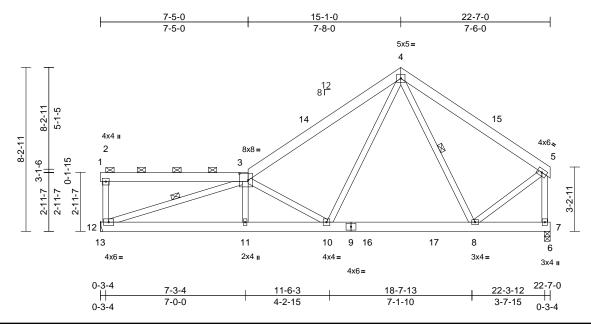
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A3	Roof Special	1	1	Job Reference (optional)	176872477

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:1TW6Y2CajpXYgVK4Ntx7JiyWAjU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.8

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC.	0.40	Vert(LL)	-0.07	8-10	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	- ( /	-0.12	11-12	>999	240	1	211/100
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	` '	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	10-11	>999	240	Weight: 171 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(6-0-0 max.): 1-3. Rigid ceiling directly applied.

WFRS 1 Row at midpt 3-12, 4-8 REACTIONS (size) 7=0-3-8, 12= Mechanical

Max Horiz 12=125 (LC 9)

Max Uplift 7=-35 (LC 12), 12=-65 (LC 12)

Max Grav 7=1026 (LC 20), 12=985 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-12=-219/81, 1-2=0/0, 2-3=-115/16, 3-4=-1382/272, 4-5=-791/168, 5-7=-999/169

BOT CHORD

12-13=0/0, 11-12=-344/1956,

10-11=-349/1949, 8-10=-88/691, 7-8=-29/43, 6-7=0/0

3-12=-1917/320, 3-10=-1020/263,

5-8=-22/753, 4-10=-90/936, 4-8=-257/111,

3-11=0/195

### NOTES

**WEBS** 

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior (1) 4-4-13 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior (1) 19-5-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 12 and 35 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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



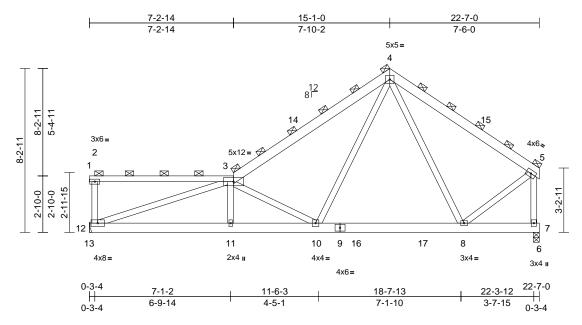


Ply Job Truss Truss Type Qty Lot 56 Duncan's Creek 176872478 251317-A A3-GR Roof Special Girder 2 Job Reference (optional)

Comtech. Inc. Favetteville, NC - 28314

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:ww7v82qFCg7ZyzNS61nAfmyWAcD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:57.8

Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.07	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.13	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.04	10-11	>999	240	Weight: 331 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 \*Except\* 1-3:2x4 SP No.1

2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals

(Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

**REACTIONS** (size) 7=0-3-8, 12= Mechanical

Max Horiz 12=251 (LC 9)

Max Uplift 7=-69 (LC 12), 12=-131 (LC 12)

Max Grav 7=2051 (LC 20), 12=1969 (LC 2)

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

Tension TOP CHORD

2-12=-443/176, 1-2=0/0, 2-3=-237/61,

3-4=-2746/517, 4-5=-1580/332,

5-7=-2003/342

12-13=0/0, 11-12=-663/3960, 10-11=-673/3945, 8-10=-169/1375,

7-8=-49/73. 6-7=0/0

WEBS 3-12=-3886/588, 3-11=0/394, 3-10=-2088/509 5-8=-45/1504

4-8=-511/220, 4-10=-152/1844

### NOTES

BOT CHORD

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 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows

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

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior (1) 4-4-13 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior (1) 19-5-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 12 and 69 lb uplift at joint 7.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

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.

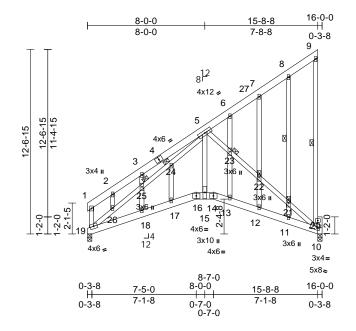
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 56 Duncan's Creek	
251317-A	A4	Monopitch	1	1	Job Reference (optional)	6872479

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:82ZrBoH?fvGmYi4a7?1w5jyW5WH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:78.6

Plate Offsets (X, Y): [10:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.04	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.08	12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	12	>999	240	Weight: 183 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WFBS 2x4 SP No.2 **OTHERS** 

**BRACING** 

**JOINTS** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals

**BOT CHORD** Rigid ceiling directly applied. 1 Row at midpt WFBS 9-10.8-21

> 1 Brace at Jt(s): 21, 22, 23, 24, 25

REACTIONS (size) 10=0-3-8, 19=0-3-8

Max Horiz 19=332 (LC 12)

Max Uplift 10=-208 (LC 12)

Max Grav 10=662 (LC 19), 19=623 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-19=-279/119, 1-2=-291/105, 2-3=-273/116,

3-5=-251/214, 5-6=-169/51, 6-7=-150/83,

7-8=-97/69, 8-9=-47/68 **BOT CHORD** 18-19=-377/752, 17-18=-401/775,

16-17=-389/811, 15-16=-362/728, 14-15=-365/738, 13-14=-395/813, 12-13=-401/812, 11-12=-389/782,

10-11=-375/756

**WEBS** 

5-15=-254/767, 5-23=-966/478, 22-23=-969/480, 21-22=-981/485, 10-21=-983/485, 9-10=-137/67, 19-26=-681/0, 25-26=-646/0, 24-25=-641/0, 5-24=-701/0, 8-21=-55/67, 11-21=-51/67, 7-22=-74/71, 12-22=-55/63, 6-23=0/43, 13-23=0/46, 17-24=-89/0, 3-25=-45/123, 18-25=-36/117, 2-26=-52/0

### **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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 4-8-1, Interior (1) 4-8-1 to 15-6-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 (||) MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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.

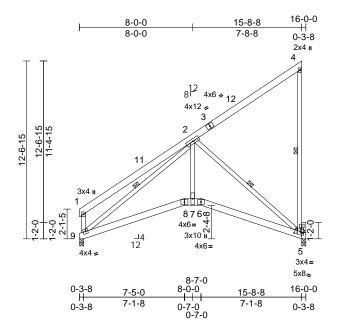
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 56 Duncan's Creek	
251317-A	A5	Monopitch	8	1	Job Reference (optional)	176872480

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:82ZrBoH?fvGmYi4a7?1w5jyW5WH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.08	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	6	>999	240	Weight: 140 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 2x4 SP No.2 **OTHERS** 

### BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt 2-5, 4-5, 2-9 REACTIONS (size) 5=0-3-8, 9=0-3-8

Max Horiz 9=332 (LC 12) Max Uplift 5=-208 (LC 12)

Max Grav 5=662 (LC 19), 9=623 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-277/163, 2-4=-164/84, 1-9=-304/161 **BOT CHORD** 8-9=-400/787, 7-8=-371/729, 6-7=-373/737,

5-6=-401/795

WFBS 2-7=-129/671, 2-5=-972/490, 4-5=-194/133,

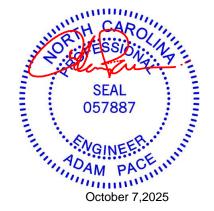
2-9=-711/0

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 4-8-1, Interior (1) 4-8-1 to 15-6-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

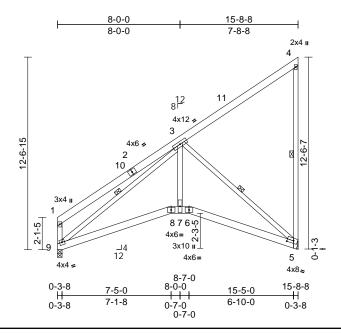
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A6	Monopitch	5	1	Job Reference (optional)	176872481

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:zuHOCUwxgP5W4THK\_avRWCyW5P\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:75.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.07	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.02	6	>999	240	Weight: 138 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS 2x4 SP No.1 OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 3-5, 3-9, 4-5 REACTIONS (size) 5= Mechanical, 9=0-3-8

Max Horiz 9=335 (LC 12) Max Uplift 5=-216 (LC 12)

Max Grav 5=674 (LC 19), 9=617 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-293/168, 3-4=-164/86, 1-9=-318/167,

4-5=-200/137

8-9=-394/764, 7-8=-362/712, 6-7=-364/721,

5-6=-391/776

**WEBS** 3-7=-126/655, 3-5=-960/486, 3-9=-674/0

### NOTES

**BOT CHORD** 

- 1) 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior (1) 4-6-9 to 15-6-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint
- This truss design requires that a minimum of 7/16" 8) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

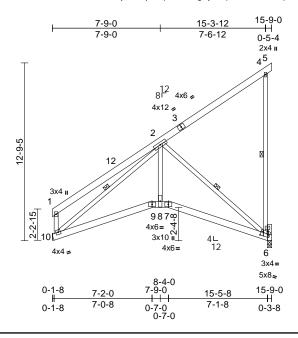




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A7	Jack-Closed	6	1	Job Reference (optional)	176872482

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:\_5yfQzfWjKlOqzc?2mLSgGyW9q5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:82.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.09	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	7	>999	240	Weight: 139 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No 2 WFBS OTHERS 2x4 SP No.2

### **BRACING**

TOP CHORD Structural wood sheathing directly applied, except end verticals

**BOT CHORD** Rigid ceiling directly applied. WFBS 1 Row at midpt 4-6, 2-6, 2-10 REACTIONS 6=0-3-8, 10= Mechanical (size)

> Max Horiz 10=334 (LC 12) Max Uplift 6=-218 (LC 12)

Max Grav 6=678 (LC 19), 10=613 (LC 1)

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

Tension

TOP CHORD 1-10=-282/151, 1-2=-250/151, 2-4=-171/85,

4-5=-15/0

**BOT CHORD** 9-10=-391/765, 8-9=-361/708, 7-8=-363/717,

6-7=-390/773

4-6=-222/182, 2-8=-124/657, 2-6=-943/475,

2-10=-713/0

### **WEBS** 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-6-4 to 4-11-1, Interior (1) 4-11-1 to 16-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

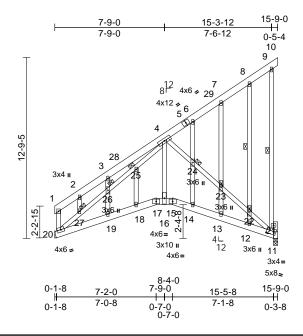




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	A7A	Jack-Closed	1	1	Job Reference (optional)	176872483

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:\_5yfQzfWjKlOqzc?2mLSgGyW9q5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.4

Plate Of	rtsets (X,	Y):	[11:0	-6-0,0	-2-8
----------	------------	-----	-------	--------	------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.04	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.08	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	13-14	>999	240	Weight: 184 lb	FT = 25%

LUMBER TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

2x4 SP No.2 WEBS 2x4 SP No 2 OTHERS

**BRACING** 

**JOINTS** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied. WFRS 1 Row at midpt 9-11, 8-22

> 1 Brace at Jt(s): 22, 23, 24, 25, 26, 27

REACTIONS (size) 11=0-3-8, 20= Mechanical

Max Horiz 20=334 (LC 12) Max Uplift 11=-218 (LC 12)

Max Grav 11=678 (LC 19), 20=613 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-20=-259/112, 1-2=-263/96, 2-3=-245/108, TOP CHORD

3-4=-225/201, 4-6=-192/66, 6-7=-162/88, 7-8=-113/77, 8-9=-62/69, 9-10=-15/0

**BOT CHORD** 19-20=-376/733, 18-19=-399/755,

17-18=-386/793, 16-17=-360/708,

15-16=-363/719, 14-15=-395/795,

13-14=-396/786, 12-13=-386/758,

11-12=-371/731

**WEBS** 9-11=-157/94, 4-16=-256/773, 4-24=-940/475, 23-24=-943/478,

22-23=-955/482, 11-22=-956/482 20-27=-687/0, 26-27=-651/0, 25-26=-648/0, 4-25=-717/0, 8-22=-56/69, 12-22=-55/69,

7-23=-67/68, 13-23=-48/61, 6-24=-5/38, 14-24=-1/41, 18-25=-102/0, 3-26=-37/118,

19-26=-32/114, 2-27=-54/1

### **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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-6-4 to 4-11-1, Interior (1) 4-11-1 to 16-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

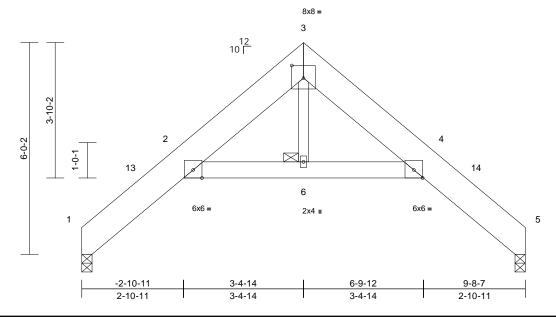
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	B1	Roof Special	2	1	Job Reference (optional)	176872484

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID: 6gSdshC8bOMX0KWAEGJgkbyWAaS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:32.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.04	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.08	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.12	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	6-9	>999	240	Weight: 88 lb	FT = 25%

### LUMBER

TOP CHORD 2x10 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied. **BOT CHORD** JOINTS 1 Brace at Jt(s): 6

REACTIONS 1=0-3-8, 5=0-3-8 (size)

Max Horiz 1=-123 (LC 8)

Max Uplift 1=-5 (LC 12), 5=-10 (LC 13)

Max Grav 1=519 (LC 1), 5=512 (LC 1)

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

Tension

TOP CHORD 1-2=-353/237, 2-3=-628/311, 3-4=-632/326,

4-5=-313/221

**BOT CHORD** 2-6=-186/616, 4-6=-174/581

**WEBS** 3-6=-114/312

### **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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior (1) 4-6-9 to 6-3-9, Exterior(2R) 6-3-9 to 10-8-6, Interior (1) 10-8-6 to 12-5-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 10 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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.

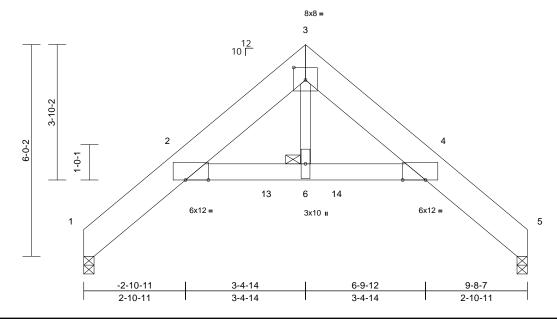
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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/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	Lot 56 Duncan's Creek	
251317-A	B1-GR	Roof Special Girder	1	2	Job Reference (optional)	176872485

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:58 ID:hHBCWDYGJpYBX1Oo4wL0YCyWAbI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.7

Plate Offsets (X, Y): [2:0-7-13,Edge], [3:0-4-0,0-4-4], [4:0-7-13,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
Loading	(psi)	Spacing	2-0-0	l coi		DELL	in	(100)	i/deli	L/u	PLATES	GRIF
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.11	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.21	6-9	>705	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.30	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.07	6-9	>999	240	Weight: 175 lb	FT = 25%

### LUMBER

TOP CHORD 2x10 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 2x4 SP No.2 WEBS

**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.

JOINTS 1 Brace at Jt(s): 6

1=0-3-8, 5=0-3-8 **REACTIONS** (size)

Max Horiz 1=-123 (LC 25)

Max Uplift 1=-162 (LC 8), 5=-161 (LC 9)

Max Grav 1=2495 (LC 15), 5=2388 (LC 16) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-2=-1644/192, 2-3=-4456/322,

3-4=-4600/360, 4-5=-1516/152 2-6=-246/4187, 4-6=-246/4187

BOT CHORD

**WEBS** 3-6=-265/3896

unless otherwise indicated.

### NOTES

TOP CHORD

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x10 2 rows
  - staggered at 0-9-0 oc. 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),

Unbalanced roof live loads have been considered for

- Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

Wind: ASCE 7-16; Vult=130mph (3-second gust)

- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 1 and 161 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2060 Ib down and 153 lb up at 5-2-4, and 1929 lb down and 155 lb up at 7-2-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-8=-86, 3-8=-60, 3-4=-60, 4-5=-86, 7-10=-20

Concentrated Loads (lb)

Vert: 13=-1745 (B), 14=-1745 (B)



this design.

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

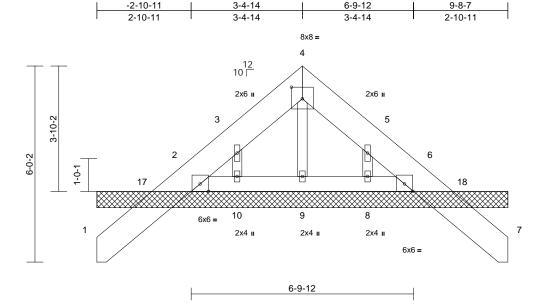
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 56 Duncan's Creek	
251317-A	B1SG	Roof Special Structural Gable	1	1	Job Reference (optional)	176872486

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:IR7IE9wKneafNyqxyewWryyWAao-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 90 lb	FT = 25%

### LUMBER

TOP CHORD 2x10 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 OTHERS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. BOT CHORD

REACTIONS (size)

1=12-7-2, 2=12-7-2, 6=12-7-2, 7=12-7-2, 8=12-7-2, 9=12-7-2, 10=12-7-2

Max Horiz 1=-123 (LC 8)

Max Uplift 1=-66 (LC 8), 2=-40 (LC 9), 7=-27 (LC 13), 8=-46 (LC 13), 10=-42 (LC

12)

1=148 (LC 20), 2=308 (LC 19), Max Grav 6=251 (LC 1), 7=105 (LC 20),

8=118 (LC 20), 9=117 (LC 19), 10=117 (LC 19)

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

1-2=-172/189, 2-3=-90/76, 3-4=-103/154, 4-5=-103/147, 5-6=-66/59, 6-7=-69/106

**BOT CHORD** 2-10=-86/188, 9-10=-94/197, 8-9=-94/197,

6-8=-87/186

WEBS 4-9=-75/1, 3-10=-97/140, 5-8=-95/141

### NOTES

TOP CHORD

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior (1) 4-6-9 to 6-3-9, Exterior(2R) 6-3-9 to 10-8-6, Interior (1) 10-8-6 to 12-5-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 66 lb uplift at joint 1, 27 lb uplift at joint 7, 42 lb uplift at joint 10, 46 lb uplift at joint 8 and 40 lb uplift at joint 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 1, 7.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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.

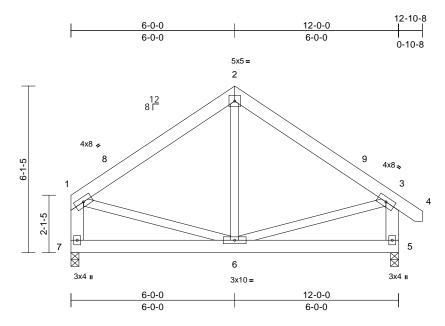
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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	Lot 56 Duncan's Creek	
251317-A	C1	Common	5	1	Job Reference (optional)	176872487

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 

Page: 1



Scale = 1:42.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	6	>999	240	Weight: 96 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 \*Except\* 7-1,5-3:2x6 SP No.1 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 5=0-3-8, 7=0-3-8

Max Horiz 7=-164 (LC 8)

Max Uplift 5=-33 (LC 13), 7=-22 (LC 12) Max Grav 5=522 (LC 1), 7=459 (LC 1)

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

Tension

TOP CHORD 1-2=-416/172, 2-3=-419/177, 3-4=0/32,

1-7=-402/188, 3-5=-465/242 **BOT CHORD** 6-7=-135/205, 5-6=-72/128

**WEBS** 2-6=0/164, 1-6=-30/221, 3-6=-35/228

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior (1) 4-7-9 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior (1) 10-4-13 to 12-8-15 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 7 and 33 lb uplift at joint 5.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

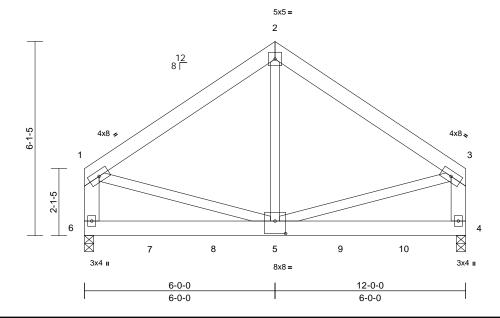
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	C1-GR	Common Girder	1	2	Job Reference (optional)	176872488

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 

Page: 1



Scale = 1:36.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.05	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.00	5-6	>999	240	Weight: 188 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

2x4 SP No.2 \*Except\* 6-1,4-3:2x6 SP No.1 WEBS

**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 4=0-3-8, 6=0-3-8 (size)

Max Horiz 6=-153 (LC 4)

Max Grav 4=2563 (LC 1), 6=2537 (LC 1)

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

Tension

TOP CHORD 1-2=-1683/0, 2-3=-1683/0, 1-6=-1375/0,

3-4=-1374/0

BOT CHORD 5-6=-87/359, 4-5=0/277

2-5=0/1451, 1-5=0/1093, 3-5=0/1091 WEBS

### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x6 2 rows
  - staggered at 0-9-0 oc.
  - Bottom chords connected as follows: 2x6 2 rows
  - staggered at 0-9-0 oc.
  - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 605 lb down at 0-2-12, 593 lb down at 2-0-12, 593 lb down at 4-0-12, 593 lb down at 6-0-12, 593 lb down at 8-0-12, and 593 lb down at 10-0-12, and 605 lb down at 11-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 6=-605 (F), 4=-605 (F), 5=-593 (F), 7=-593 (F),

8=-593 (F), 9=-593 (F), 10=-593 (F)



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

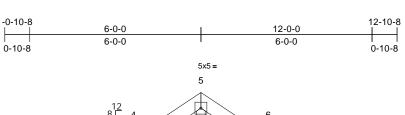
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

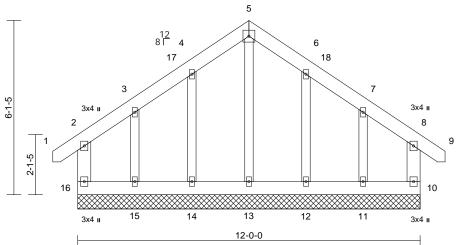


Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	C1GE	Common Supported Gable	1	1	Job Reference (optional)	176872489

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:JITKY0?fygacr\_Flq\_T48WyWAWq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:40.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 101 lb	FT = 25%

### LUMBER

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 2x6 SP No.1 WEBS 2x4 SP No.2 OTHERS

### BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

**BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0, 15=12-0-0,

16=12-0-0

Max Horiz 16=-169 (LC 10) Max Uplift 10=-81 (LC 9), 11=-110 (LC 8),

12=-27 (LC 13), 14=-27 (LC 12),

15=-120 (LC 9), 16=-94 (LC 8)

10=178 (LC 19), 11=224 (LC 20),

12=168 (LC 26), 13=148 (LC 1),

14=168 (LC 25), 15=231 (LC 19), 16=188 (LC 20)

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

Tension

Max Grav

TOP CHORD 2-16=-137/184, 1-2=0/32, 2-3=-95/92,

3-4=-80/200, 4-5=-124/286, 5-6=-123/285,

6-7=-83/205, 7-8=-85/97, 8-9=0/32,

8-10=-130/179

**BOT CHORD** 15-16=-88/94, 14-15=-88/94, 13-14=-88/94,

12-13=-88/94, 11-12=-88/94, 10-11=-88/94

WEBS 5-13=-175/13, 4-14=-134/133,

3-15=-152/186, 6-12=-133/133,

7-11=-149/188

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-15 to 3-7-14, Exterior(2N) 3-7-14 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to 12-8-15 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 (II) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6) 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 16, 81 lb uplift at joint 10, 27 lb uplift at joint 14, 120 lb uplift at joint 15, 27 lb uplift at joint 12 and 110 lb uplift at joint 11.
- 11) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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

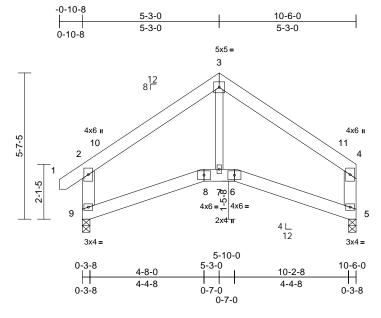
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Lot 56 Duncan's Creek	
251317-A	D1	Roof Special	5	1	Job Reference (optional)	176872490

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:aGozEUV7695p9p3QLuuO3lyWA8y-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.02	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.05	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8	>999	240	Weight: 71 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x6 SP No.1 \*Except\* 7-3:2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 5=0-3-8, 9=0-3-8

Max Horiz 9=152 (LC 11)

Max Uplift 5=-20 (LC 13), 9=-30 (LC 12)

Max Grav 5=399 (LC 1), 9=463 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/32, 2-3=-414/207, 3-4=-409/215,

2-9=-433/237, 4-5=-366/215

**BOT CHORD** 8-9=-145/291, 7-8=-129/278, 6-7=-129/278,

5-6=-137/287 3-7=-4/241

### **WEBS** 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior (1) 3-7-14 to 5-3-0, Exterior(2R) 5-3-0 to 9-7-13, Interior (1) 9-7-13 to 10-3-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 9, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 9 and 20 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

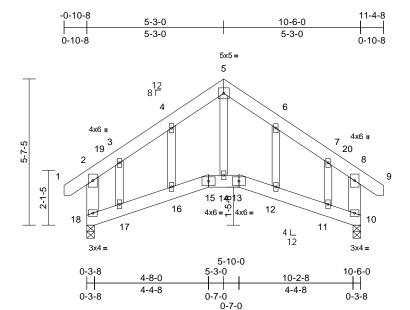
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	D1GE	Roof Special Structural Gable	1	1	Job Reference (optional)	176872491

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:I45kJb31koLV8dQDOUifoyyWA6x-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.02	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	16	>999	240	Weight: 86 lb	FT = 25%

### LUMBER

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1

2x6 SP No.1 \*Except\* 14-5:2x4 SP No.2 WEBS

2x4 SP No.2 OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 10=0-3-8, 18=0-3-8

Max Horiz 18=96 (LC 11)

Max Uplift 10=-27 (LC 13), 18=-27 (LC 12)

Max Grav 10=460 (LC 1), 18=460 (LC 1)

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

Tension TOP CHORD

1-2=0/32, 2-3=-392/119, 3-4=-373/159,

4-5=-338/218, 5-6=-339/218, 6-7=-375/158,

7-8=-396/113, 8-9=0/32, 2-18=-396/182,

8-10=-396/177

17-18=-13/244, 16-17=-25/268,

15-16=-42/285, 14-15=-22/269,

13-14=-22/269, 12-13=-42/275,

11-12=-25/267. 10-11=-10/249

5-14=-89/209, 4-16=-33/82, 3-17=-46/59, 6-12=-34/81, 7-11=-47/59

### WEBS NOTES

BOT CHORD

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior (1) 3-7-14 to 5-3-0, Exterior(2R) 5-3-0 to 9-7-13, Interior (1) 9-7-13 to 11-2-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

- 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.
  - 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 18, 10 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 capable of withstanding 27 lb uplift at joint 18 and 27 lb uplift at joint 10.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

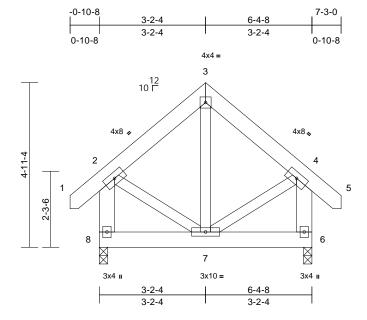




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	G1	Common	2	1	Job Reference (optional)	176872492

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:16HJBK2WR9NkLwyHNGoFNbyW52t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:34.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	7-8	>999	240	Weight: 63 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 \*Except\* 8-2,6-4:2x6 SP No.1 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 6=0-3-0, 8=0-3-0

Max Horiz 8=147 (LC 11)

Max Uplift 6=-55 (LC 9), 8=-55 (LC 8) Max Grav 6=296 (LC 1), 8=296 (LC 1)

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

Tension

TOP CHORD 1-2=0/38, 2-3=-162/209, 3-4=-162/222,

4-5=0/38, 2-8=-271/313, 4-6=-271/327 7-8=-140/120, 6-7=-43/47

**BOT CHORD** 3-7=-108/57, 2-7=-53/105, 4-7=-53/105 **WEBS** 

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 8 and 55 lb uplift at joint 6.

6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

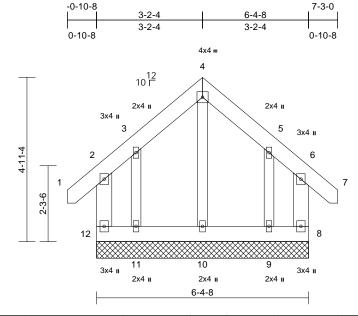




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	G1GE	Common Supported Gable	1	1	Job Reference (optional)	176872493

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:WruYXITTBvnm1I70w6wTI\_yW52K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 61 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2 OTHERS

### BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 8=6-4-8, 9=6-4-8, 10=6-4-8,

11=6-4-8, 12=6-4-8 Max Horiz 12=-147 (LC 10)

Max Uplift 8=-126 (LC 9), 9=-130 (LC 8),

11=-137 (LC 9), 12=-135 (LC 8)

Max Grav 8=180 (LC 19), 9=218 (LC 11), 10=160 (LC 1), 11=226 (LC 10),

12=187 (LC 20)

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

Tension

TOP CHORD 2-12=-127/298, 1-2=0/38, 2-3=-83/180, 3-4=-90/273, 4-5=-90/273, 5-6=-77/139,

6-7=0/38, 6-8=-122/245

**BOT CHORD** 11-12=-81/123, 10-11=-81/123, 9-10=-81/123,

8-9=-81/123

**WEBS** 4-10=-136/0, 3-11=-145/126, 5-9=-142/186

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 12, 126 lb uplift at joint 8, 137 lb uplift at joint 11 and 130 Ib uplift at joint 9.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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.

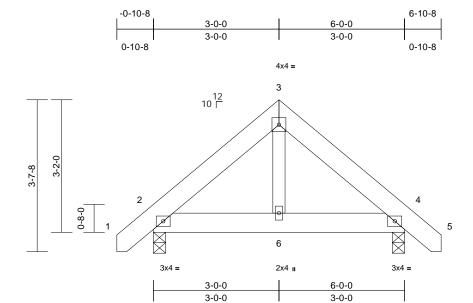
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 56 Duncan's Creek	
251317-A	H1	Common	3	1	Job Reference (optional)	176872494

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:?iDZGsSJfr?Y1ZcCzABb41yWAa7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	6-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	6-9	>999	240	Weight: 42 lb	FT = 25%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 4=0-3-8 Max Horiz 2=-75 (LC 10)

Max Uplift 2=-21 (LC 12), 4=-21 (LC 13)

Max Grav 2=285 (LC 1), 4=285 (LC 1)

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

Tension

TOP CHORD 1-2=0/29, 2-3=-232/149, 3-4=-232/159,

4-5=0/29

BOT CHORD 2-6=-14/154, 4-6=0/154

WFBS 3-6=-45/129

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2 and 21 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





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

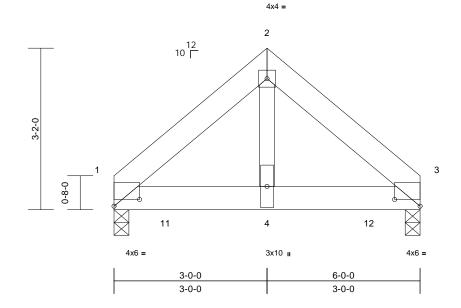
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 56 Duncan's Creek	
251317-A	H1-GR	Common Girder	1	2	Job Reference (optional)	176872495

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:ERGz9xZyXc8Gcxox?ZsiywyWAa\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.6

Plate Offsets (X, Y): [1:0-6-0,0-1-9], [3:0-6-0,0-1-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	4-7	>999	240	Weight: 74 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS

**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 1=0-3-8, 3=0-3-8 (size)

Max Horiz 1=-60 (LC 4)

Max Uplift 1=-122 (LC 8), 3=-122 (LC 9)

Max Grav 1=1657 (LC 2), 3=1657 (LC 2) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-1439/132, 2-3=-1439/132

1-4=-70/1107, 3-4=-70/1107

**BOT CHORD WEBS** 2-4=-110/1585

### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x6 2 rows

staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-8-0 oc.

Web connected as follows: 2x4 - 1 row at 0-4-0 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 1 and 122 lb uplift at joint 3.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 965 lb down and 73 lb up at 1-0-0, and 965 lb down and 77 lb up at 3-0-0, and 965 lb down and 73 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

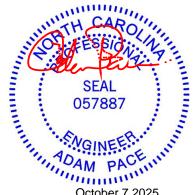
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-3=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 4=-873 (B), 11=-873 (B), 12=-873 (B)

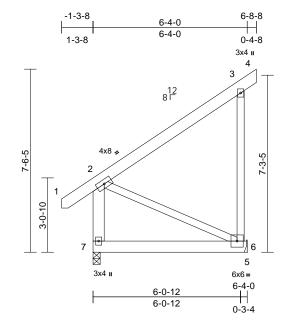




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	M1	Monopitch	3	1		76872496

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:HrIAQZ7H6jNokbdPKhrj0hyW5aM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 61 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 \*Except\* 7-2:2x6 SP No.1 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 6= Mechanical, 7=0-3-8

Max Horiz 7=176 (LC 9)

Max Uplift 6=-147 (LC 12)

Max Grav 6=323 (LC 19), 7=324 (LC 1)

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

Tension

TOP CHORD 1-2=0/46, 2-3=-221/128, 3-4=-21/0,

3-6=-255/320, 2-7=-266/15

**BOT CHORD** 6-7=-420/166, 5-6=0/0

**WEBS** 2-6=-183/463

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-1-15 to 4-2-14, Interior (1) 4-2-14 to 7-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

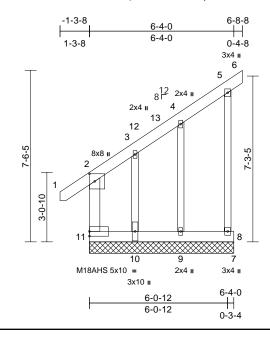




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	M1GE	Monopitch Supported Gable	1	1	Job Reference (optional)	176872497

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:38:59 ID:S3mLldpXYXm7n?Mf?0vOevyW5c2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.5

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

-			-	1	-						l	
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 65 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x6 SP No.1 \*Except\* 5-8:2x4 SP No.2 WEBS

2x4 SP No.2 OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 8=6-4-0, 9=6-4-0, 10=6-4-0,

11=6-4-0

Max Horiz 11=176 (LC 9)

Max Uplift 8=-57 (LC 9), 10=-346 (LC 12),

11=-124 (LC 10)

Max Grav 8=134 (LC 19), 9=177 (LC 1), 10=325 (LC 10), 11=312 (LC 9)

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

Tension

2-11=-478/190, 1-2=0/46, 2-3=-619/228, TOP CHORD

3-4=-243/112, 4-5=-124/56, 5-6=-21/0,

5-8=-119/214

**BOT CHORD** 10-11=-15/6, 9-10=-15/6, 8-9=-15/6, 7-8=0/0

WEBS 3-10=-313/655, 4-9=-143/191

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-1-15 to 4-2-14, Exterior(2N) 4-2-14 to 7-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are MT20 plates 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 11, 57 lb uplift at joint 8 and 346 lb uplift at joint 10.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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

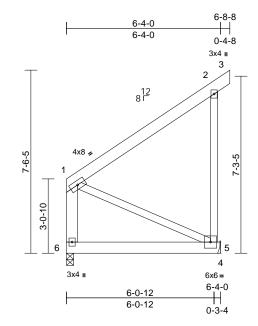
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	Lot 56 Duncan's Creek	
251317-A	M2	Monopitch	4	1	Job Reference (optional)	176872498

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:00 ID:sAVKWHGlqvQtjhhmgH43eiyW5bT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fd

Page: 1



Scale = 1:47.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 58 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 \*Except\* 6-1:2x6 SP No.1 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 6=0-3-8

Max Horiz 6=161 (LC 9)

Max Uplift 5=-140 (LC 12)

Max Grav 5=330 (LC 19), 6=231 (LC 1)

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

Tension

TOP CHORD 1-2=-228/134, 2-3=-21/0, 2-5=-266/341, 1-6=-173/0

**BOT CHORD** 5-6=-362/196, 4-5=0/0

**WEBS** 1-5=-216/399

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 1-2-12 to 5-7-9, Interior (1) 5-7-9 to 7-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

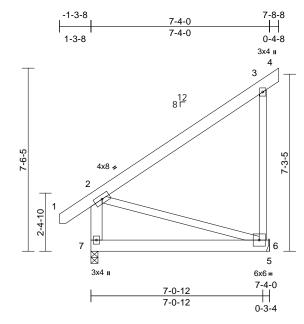




Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	M3	Monopitch	4	1	Job Reference (optional)	2499

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:00 

Page: 1



Scale = 1:47.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.06	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 66 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x4 SP No.2 \*Except\* 7-2:2x6 SP No.1 WEBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 6= Mechanical, 7=0-3-8

Max Horiz 7=177 (LC 9)

Max Uplift 6=-141 (LC 12)

Max Grav 6=354 (LC 19), 7=363 (LC 1)

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

Tension

TOP CHORD 1-2=0/46, 2-3=-238/142, 3-4=-21/0,

3-6=-283/340, 2-7=-295/61

**BOT CHORD** 6-7=-422/173, 5-6=0/0

2-6=-180/440 **WEBS** 

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-15 to 3-2-14, Interior (1) 3-2-14 to 7-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

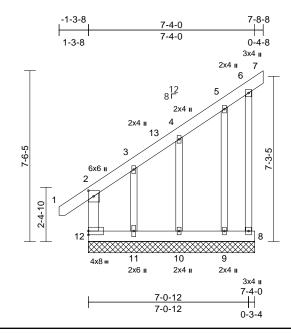
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 56 Duncan's Creek	
251317-A	M3GE	Monopitch Supported Gable	1	1	Job Reference (optional)	176872500

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:00 ID:Pc6WjpU52x9YLCwA5\_OIE?yW5Zu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 74 lb	FT = 25%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

2x6 SP No.1 \*Except\* 6-8:2x4 SP No.2 WEBS

2x4 SP No.2 OTHERS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. 8=7-4-0, 9=7-4-0, 10=7-4-0,

REACTIONS (size)

11=7-4-0, 12=7-4-0 Max Horiz 12=184 (LC 12)

Max Uplift 8=-46 (LC 9), 9=-26 (LC 12),

11=-324 (LC 12), 12=-50 (LC 10) Max Grav

8=81 (LC 19), 9=131 (LC 19), 10=170 (LC 1), 11=229 (LC 19),

12=303 (LC 12)

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

Tension

TOP CHORD 2-12=-394/154, 1-2=0/46, 2-3=-602/260, 3-4=-313/135, 4-5=-190/82, 5-6=-90/37,

6-7=-21/0, 6-8=-85/152

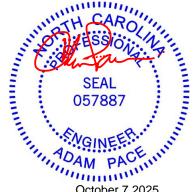
**BOT CHORD** 11-12=-7/3. 10-11=-7/3. 9-10=-7/3. 8-9=-7/3 3-11=-264/532, 4-10=-145/199, 5-9=-106/160 WEBS

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -1-1-15 to 3-2-14, Exterior(2N) 3-2-14 to 7-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.

- Gable requires continuous bottom chord bearing.
- 5) 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 12, 46 lb uplift at joint 8, 324 lb uplift at joint 11 and 26 lb uplift at joint 9.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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.

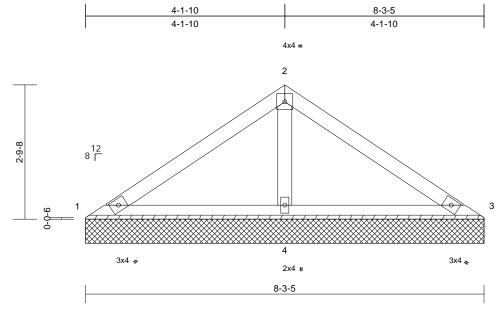
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Lot 56 Duncan's Creek	
251317-A	VC1	Valley	1	1	Job Reference (optional)	176872501

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Mon Oct 06 16:39:00 ID:NBt?h8B3QHTU8lueCeFbFhyWAWb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 29 lb	FT = 25%

### LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2

### BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (size) 1=8-3-5, 3=8-3-5, 4=8-3-5

Max Horiz 1=-63 (LC 10)

Max Uplift 1=-11 (LC 26), 3=-12 (LC 8), 4=-46

(LC 12) Max Grav 1=72 (LC 25), 3=72 (LC 26), 4=580

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-134/253, 2-3=-134/253

BOT CHORD 1-4=-232/202, 3-4=-232/202

WEBS 2-4=-420/275

### 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 12 lb uplift at joint 3 and 46 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the 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

a truss system. Before use, the building designer must verify the applicability of design parameters and property 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/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)



### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE

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

## LATERAL BRACING LOCATION



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

### **BEARING**



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

### Industry Standards:

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

DSB-22: ANSI/TPI1:

## 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

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

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

© 2023 MiTek® All Rights Reserved

## MiTek



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

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.