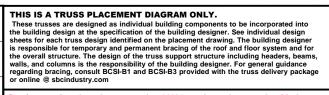


▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)

LOAD CHART FOR JACK STUDS											
	(B	ASED O	N TABLES	S R502	.5(1) & (I	o))					
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 TRU These trusses ar the building designates and the statements for each to
JOB NAME	Lot 60 Duncans Creek	ADDRESS	492 Beacon Hill Road	is responsible for the overall struct walls, and column regarding bracing
PLAN	The Guilford - French Country	MODEL	Roof	Bearing reaction prescriptive Cod
SEAL DATE Seal Date		DATE REV.	10/7/25	( derived from t foundation size than 3000# but be retained to d
QUOTE # Quote #		DRAWN BY	Johnnie Baggett	specified in the retained to desi
JOB # 251589 - A		SALES REP.	House Account	Signature

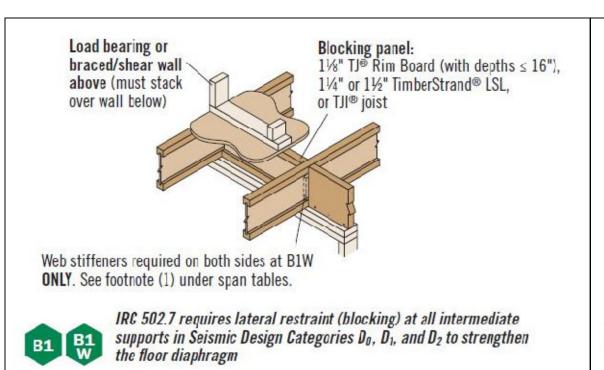


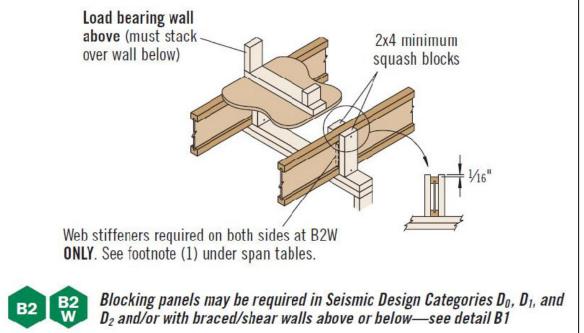
ctions less than or equal to 3000# are deemed to comply with the Code requirements. The contractor shall refer to the attached Tables om the prescriptive Code requirements ) to determine the minimum size and number of wood studs required to support reactions greater but not greater than 15000#. A registered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

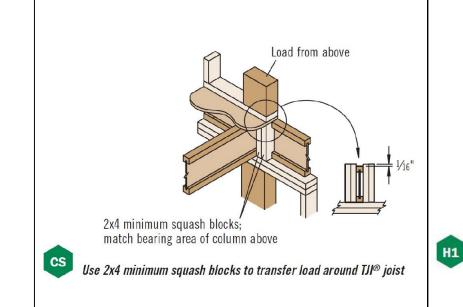
Sales Area

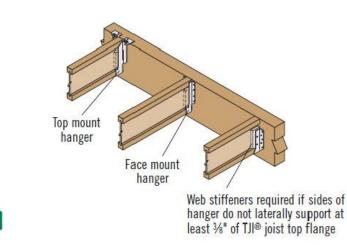
Reilly Road Industrial Park Fayetteville, N.C. 28309 Sales Area Phone: (910) 864-8787 Fax: (910) 864-4444

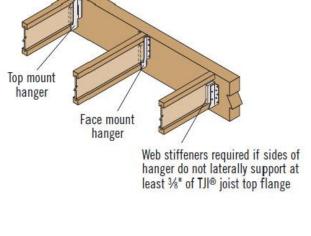
COMTECH
ROOF & FLOOR
TRUSSES & BEAMS

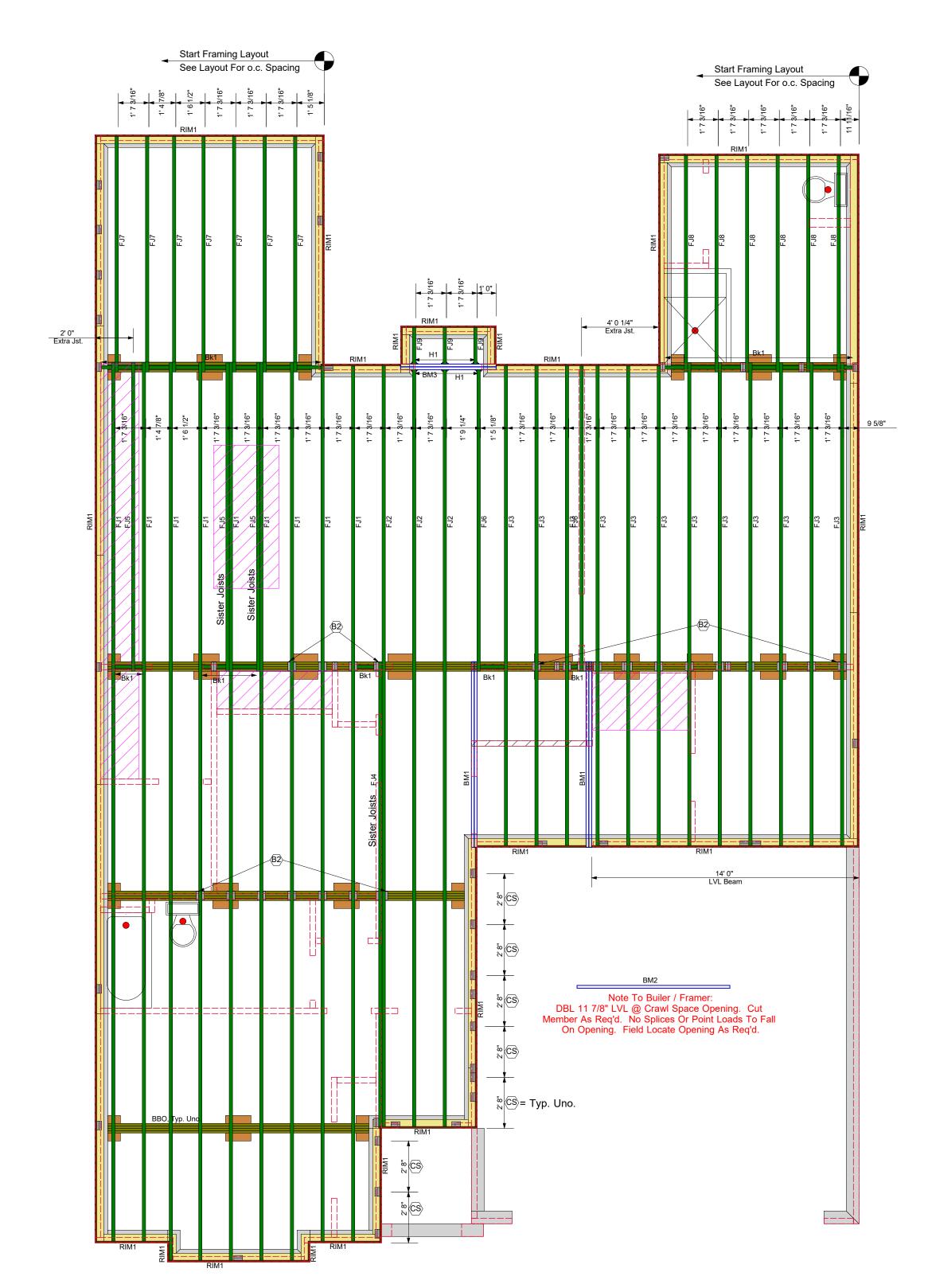












The Guilford French Country - GR

### Crawl Space Vent Hangers As Needed Included Connector Summary

				• • • • • • • • • • • • • • • • • • • •			
			PlotID	Qty	Manuf	Prod	uct
			H1	11	Simpson	IUS2	.06/11.88
			Produc	te			
PlotID	Length	Product	Troduc			Plies	Net Qty
FJ1	48' 0"	11 7/8" TJI@	<u>210</u>			1	9
FJ2	40' 0"	11 7/8" TJI@	210			1	3
FJ3	25' 6"	11 7/8" TJI@	210			1	12
FJ4	24' 6"	11 7/8" TJI@	210			1	1
FJ5	16' 6"	11 7/8" TJI@	210			1	3
FJ6	16' 0"	11 7/8" TJI@	210			1	2
FJ7	12' 6"	11 7/8" TJI@	210			1	7
FJ8	11' 6"	11 7/8" TJI@	210			1	6
FJ9	2' 6"	11 7/8" TJI@	210			1	3
BM1	10' 0"	1 3/4" x 11	7/8" 2.0E	Microlla	am® LVL	2	4
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® I	Rim Bo	ard	1	14
Bk1	22' 0"	11 7/8" TJI@	<b>210</b>			1	1

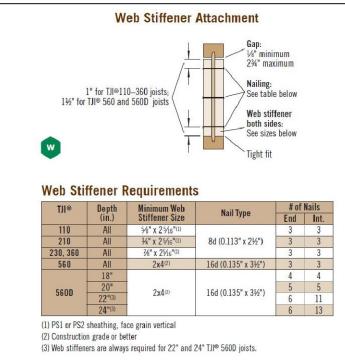
Point Load From Above ■ = Post / Stud Column Below BBO = Beam By Others = Load Bearing Wall = Non-Load Bearing Wall

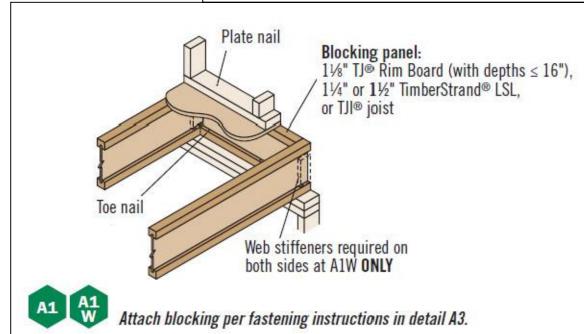
### Framer Notes: \*First Floor I-Joists Painted - Green (Verde) (Primer piso I-vigas pintadas de verde.) \*Second Floor I-Joists Painted - Blue (Azul) (Vigas en I del segundo piso pintadas de azul.)

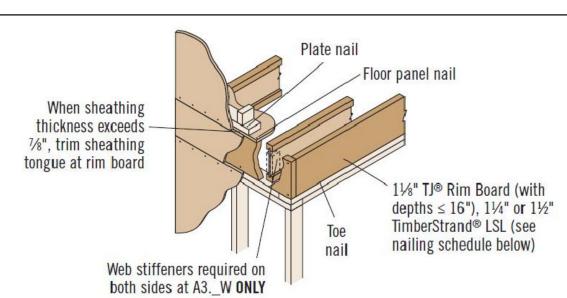
\*Third Floor I-Joists Painted - Red (Rojo) (Tercer piso I-vigas pintadas de rojo.) **HVAC Hole Notes:** \*Field Trim Non Red End To Keep Holes Aligned (Cortar el lado sin marca rojo para alinear los hoyos.)

Note To Builder / Framer: I-Joist Drops From Joists "FJ1" To Be Used As Blocking "Bk1" @ Locations Shown On I-Joist Framing Layout. Typ. Uno.

ALL STATES OF THE STATES OF TH









Specifications	A3, Conventional Construction, Code Minimum	A3.1, A3.2, A3.3, A 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		
Floor Panel Nail: 8d (0.131" x 2½")	6" o.c.	Rim Board Specifier's Guide (Reorder #TJ-8000)		
Toe Nail: (0.131" x 3")	6" o.c.	1100.001		
Wall Sheathing	Per code			

3941 USHwy 421 North Wilmington, NC 28401 (910) 386-4300 DRAWN BY: JJC DATE: 10-02-2025

> 1/4" = 1'-0" SALESPERSON: Kevin Martin

SCALE:

NC Creek Lillington,

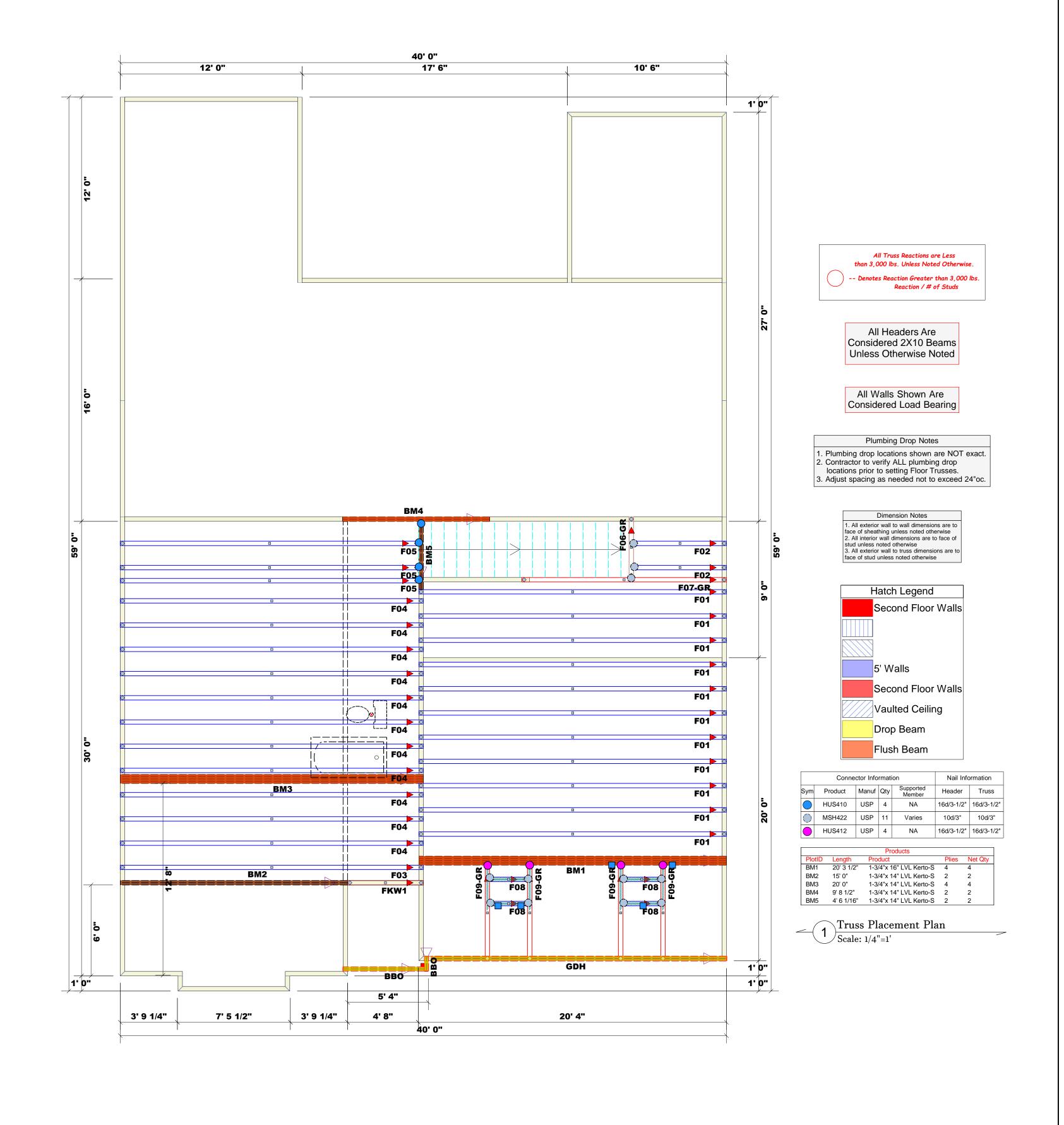
uncans Road -60 D Lot 6

Home

New

**LEVEL NAME: 1st Floor Framing** Layout

PAGE: 1



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

	(B	ASED O	N TABLES	5 R502	.5(1) & (I	o))			
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER									
END REACTION (UP TO)	REQ'D STUBS 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	0								

LOAD CHART FOR JACK STUDS

BUILDER	New Home Inc.	CITY / CO.	Lillington / Harnett	THIS IS A T These trusses the building de
JOB NAME	Lot 60 Duncans Creek	ADDRESS	492 Beacon Hill Road	is responsible the overall struwalls, and colu regarding brace
PLAN	The Guilford - French Country	MODEL	Floor	Bearing reactions of the second of the secon
SEAL DATE	Seal Date	DATE REV.	10/7/25	( derived from foundation si than 3000# b be retained to
QUOTE#	Quote #	DRAWN BY	Johnnie Baggett	specified in t retained to de
JOB#	251589 - B	SALES REP.	House Account	Signature

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code requirements ) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained 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: 251589-A

Lot 60 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: I76921747 thru I76921777

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

North Carolina COA: C-0844



October 9,2025

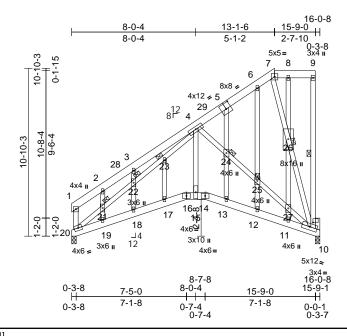
Gilbert, Eric

**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 60 Duncan's Creek	
251589-A	A01GE	Half Hip	1	1	Job Reference (optional)	176921747

Run: 25.30 E Sep 7 2025 Print: 25.3.0 E Sep 7 2025 MiTek Industries, Inc. Thu Oct 09 13:49:38 ID:QBcnMDMebkn\_xZcaAU\_M?pyVpVD-\_qJjMY\_eNB7C1rzz?8ri1U7\_mZ2Irr97a\_Y5GGyVI3y

Page: 1



Scale = 1:74.4

Plate Offsets (X, Y): [5:0-4-0,0-4-8], [10:0-2-10,0-3-4]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.04	1 <del>7</del> -18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.08	17-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	17-18	>999	240	Weight: 195 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied,

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

(6-0-0 max.): 7-9.

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 1 Brace at Jt(s): 9, **JOINTS** 

21, 22, 23, 24, 25,

26

REACTIONS (lb/size) 10=610/0-3-8, 20=619/0-3-8

Max Horiz 20=396 (LC 12)

Max Uplift 10=-280 (LC 12), 20=-18 (LC 12)

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

(lb) or less except when shown.

TOP CHORD 1-2=-337/150, 2-28=-328/190, 3-28=-284/194, 3-4=-286/283, 1-20=-310/149

BOT CHORD 19-20=-398/672, 18-19=-411/702,

17-18=-434/720, 16-17=-424/750, 15-16=-395/676, 14-15=-399/685

13-14=-425/738, 12-13=-425/727 11-12=-420/723, 10-11=-425/729

4-15=-254/654, 4-24=-821/490,

24-25=-835/500, 25-27=-836/501, 10-27=-831/496, 7-26=-316/149,

20-21=-570/0, 21-22=-550/0, 22-23=-542/0,

### **NOTES**

**WEBS** 

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) interior zone and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 13-1-6, Exterior(2E) 13-1-6 to 15-7-4 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.
- Provide adequate drainage to prevent water ponding.
- 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.
- 10) Bearing at joint(s) 10, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 10 and 18 lb uplift at joint 20.
- 12) 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.
- 13) 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/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 60 Duncan's Creek	
251589-A	A02	Half Hip	1	1	Job Reference (optional)	176921748

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:37 ID:S9NwyJa3L\_CnhbuwZIDZsQyVpzw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

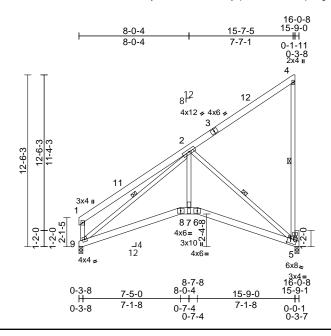


Plate Offsets (X, Y): [5:0-2-12,0-4-0]

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	0.30	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	0.46	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	6	>999	240	Weight: 140 lb	FT = 20%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 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. WEBS 1 Row at midpt 2-5, 4-5, 2-9

REACTIONS (size) 5=0-3-8, 9=0-3-8 Max Horiz 9=479 (LC 12)

Max Uplift 5=-385 (LC 12)

Max Grav 5=688 (LC 19), 9=619 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-285/192, 2-4=-188/90, 1-9=-314/199 **BOT CHORD** 8-9=-496/797, 7-8=-463/743, 6-7=-466/752,

5-6=-498/811

**WEBS** 2-5=-1001/619, 4-5=-204/162, 2-9=-699/0,

2-7=-190/667

### NOTES

- 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) exterior zone and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 15-7-4 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.

- 6) Bearing at joint(s) 5, 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 385 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



October 9,2025

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

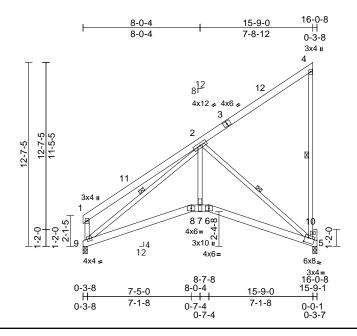
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A03	Monopitch	8	1	Job Reference (optional)	176921749

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:37 ID:wLxl9fbh6lKeJkT670loOeyVpzv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:79

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

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	0.31	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	0.45	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	6	>999	240	Weight: 140 lb	FT = 20%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 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. WEBS 1 Row at midpt 4-5, 2-5, 2-9

REACTIONS (size) 5=0-3-8, 9=0-3-8

Max Horiz 9=479 (LC 12) Max Uplift 5=-385 (LC 12)

Max Grav 5=688 (LC 19), 9=619 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-287/193, 2-4=-190/88, 4-5=-208/166,

1-9=-316/200

**BOT CHORD** 8-9=-494/793, 7-8=-461/739, 6-7=-464/748,

5-6=-496/804

**WEBS** 2-5=-985/613, 2-7=-188/655, 2-9=-693/0

### NOTES

- 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) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 15-7-4 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.

- 5) Bearing at joint(s) 5, 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 385 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



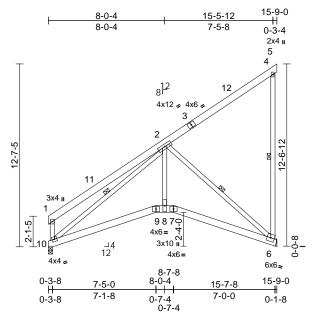
October 9,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A04	Monopitch	5	1	Job Reference (optional)	176921750

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:37 ID:wLxl9fbh6lKeJkT670loOeyVpzv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:79.4

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	0.30	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.07	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	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: 138 lb	FT = 20%

### 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,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied. **WEBS** 2-6, 2-10, 4-6 1 Row at midpt

REACTIONS 6= Mechanical, 10=0-3-8 Max Horiz 10=482 (LC 12)

Max Uplift 6=-401 (LC 12)

Max Grav 6=695 (LC 19), 10=608 (LC 1)

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

Tension

TOP CHORD 1-2=-285/192, 2-4=-191/93, 4-5=-3/0, 1-10=-315/200

BOT CHORD

9-10=-483/772, 8-9=-451/719, 7-8=-453/727, 6-7=-485/784

2-6=-981/611, 2-10=-671/0, 4-6=-210/173,

2-8=-184/649

### 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) exterior zone and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 15-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) 10 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 401 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



October 9,2025

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

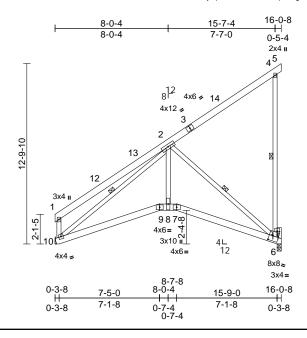
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A05	Jack-Closed	4	1	Job Reference (optional)	176921751

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:37 ID:wLxl9fbh6lKeJkT670loOeyVpzv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.7

Plate Offsets (X, Y): [6:0-3-4,0-4-4], [11:0-2-0,0-0-10]

Loading	(psf)	Spacing	2-0-0	csı		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	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.08	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	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: 141 lb	FT = 20%

### LUMBER

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 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. WFRS 1 Row at midpt 4-6, 2-10, 2-6 REACTIONS (size) 6=0-3-8, 10= Mechanical

Max Horiz 10=395 (LC 12) Max Uplift 6=-252 (LC 12)

Max Grav 6=715 (LC 19), 10=619 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-314/206, 1-2=-285/197, 2-4=-168/93,

4-5=-15/0

**BOT CHORD** 9-10=-356/797, 8-9=-327/743, 7-8=-328/752,

6-7=-354/811

**WEBS** 4-6=-232/173, 2-8=-103/666, 2-10=-699/0,

2-6=-1000/435

### 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) exterior zone and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 16-0-8 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.
- Bearing at joint(s) 6 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 252 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



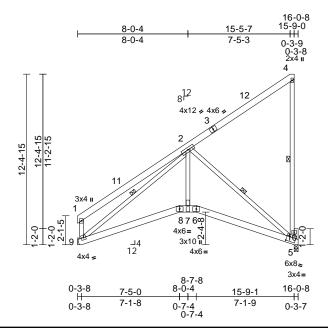
October 9,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A06	Half Hip	1	1	Job Reference (optional)	176921752

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:37 ID:OXUhM?bJtcSVwu2lhjG1xryVpzu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:83.8

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

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	0.30	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	0.46	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	6	>999	240	Weight: 140 lb	FT = 20%

### LUMBER

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

4-5, 2-5, 2-9 WEBS 1 Row at midpt REACTIONS

(size) 5=0-3-8, 9= Mechanical Max Horiz 9=479 (LC 12) Max Uplift 5=-385 (LC 12)

Max Grav 5=688 (LC 19), 9=619 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-314/199, 1-2=-285/192, 2-4=-188/90 **BOT CHORD** 8-9=-496/797, 7-8=-463/743, 6-7=-466/752,

5-6=-498/811

**WEBS** 4-5=-204/162, 2-7=-190/667, 2-5=-1001/619,

2-9=-699/0

### 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) exterior zone and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 15-7-4 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.

- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 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 385 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



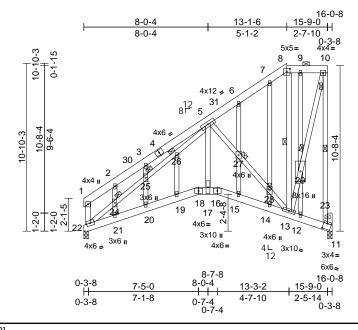
October 9,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A07GE	Half Hip Structural Gable	1	1	Job Reference (optional)	176921753

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:37 ID:w\_NkYaQd4RDpmohcDk\_iObzuUsG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.04	19-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.08	19-20	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.06	19-20	>999	240	Weight: 205 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(6-0-0 max.): 8-10.

BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 10-11, 8-13 **JOINTS** 

1 Brace at Jt(s): 10, 24, 25, 26, 27, 28,

REACTIONS (size) 11=0-3-8, 22=0-3-8

Max Horiz 22=396 (LC 12)

Max Uplift 11=-280 (LC 12), 22=-18 (LC 12) Max Grav 11=610 (LC 1), 22=619 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-335/149, 2-3=-327/193, 3-5=-284/281,

TOP CHORD 5-6=-257/0, 6-7=-191/19, 7-8=-155/59,

10-11=-591/294, 1-22=-309/147, 8-9=-143/74, 9-10=-142/73

BOT CHORD 21-22=-400/674, 20-21=-414/704,

19-20=-437/722, 18-19=-426/753,

17-18=-397/678, 16-17=-401/687,

15-16=-427/740, 14-15=-428/733, 13-14=-425/724, 12-13=-9/25, 11-12=-7/12

WFBS 8-13=-24/26, 13-29=-279/542,

10-29=-298/579, 5-17=-258/657,

5-27=-804/483, 27-28=-825/497, 13-28=-870/523, 22-24=-573/0.

24-25=-552/0 25-26=-545/0 5-26=-598/0

2-24=-81/58, 21-24=-55/67, 3-25=-34/109,

20-25=-19/94. 19-26=-79/0. 6-27=-21/46. 15-27=0/48, 7-28=-49/58, 14-28=0/47,

9-29=-73/44, 12-29=-36/32

### 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) exterior zone and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 13-1-6, Exterior(2E) 13-1-6 to 15-7-4 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.
- Provide adequate drainage to prevent water ponding.
- 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.
- 10) Bearing at joint(s) 11, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 11 and 18 lb uplift at joint 22.
- 12) 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.
- 13) 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.

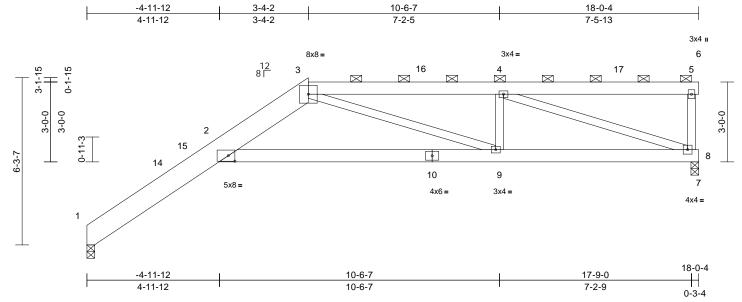
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/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 60 Duncan's Creek	
251589-A	A08	Half Hip	1	2	Job Reference (optional)	176921754

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:2ahoJHYB23qDq7ALuAgsEoyVpzz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.3

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	0.58	Vert(LL)	-0.13	9-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.27	9-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.18	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.15	9-13	>999	240	Weight: 290 lb	FT = 20%

LUMBER

TOP CHORD 2x10 SP No.1 \*Except\* 3-6:2x6 SP No.1

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

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

(6-0-0 max.): 3-6.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-3-8, 8=0-3-8 Max Horiz 1=259 (LC 12)

Max Uplift 1=-115 (LC 12), 8=-247 (LC 9)

Max Grav 1=933 (LC 1), 8=920 (LC 1)

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

Tension

1-2=-495/27, 2-3=-1964/464, 3-4=-1889/478,

TOP CHORD 4-5=-88/27, 5-6=0/0, 5-8=-213/118

BOT CHORD 2-9=-484/1928. 8-9=-478/1889. 7-8=0/0 WFBS 3-9=-222/201, 4-9=0/362, 4-8=-1910/479

### NOTES

- 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-3-14, Exterior(2R) 8-3-14 to 12-6-13, Interior (1) 12-6-13 to 23-0-0 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.
- 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 1 and 247 lb uplift at joint 8.
- 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.
- 11) 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.

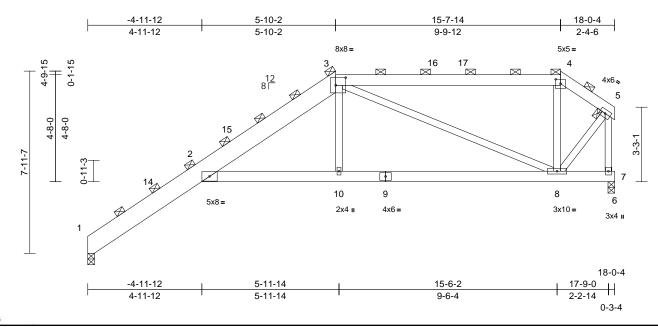
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Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A09	Hip	1	2	Job Reference (optional)	176921755

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:2ahoJHYB23qDq7ALuAgsEoyVpzz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

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

Loading	(psf)	Spacing	2-5-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.18	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.36	10-13	>747	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.24	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.24	10-13	>999	240	Weight: 319 lb	FT = 20%

LUMBER

2x6 SP No.1 \*Except\* 1-3:2x10 SP No.1 TOP CHORD

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

**BRACING** 

BOT CHORD

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

verticals

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

bracing.

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

Max Horiz 1=366 (LC 12)

Max Uplift 1=-160 (LC 12), 7=-159 (LC 9)

Max Grav 1=1128 (LC 1), 7=1105 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-598/38, 2-3=-1765/338, 3-4=-605/163,

4-5=-677/139, 5-7=-1110/197

BOT CHORD 2-10=-560/1905, 8-10=-378/1670, 7-8=-2/4,

6-7=0/0

3-10=0/547, 3-8=-1173/354, 4-8=-215/263,

5-8=-202/998

### WEBS 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 10-9-14, Exterior(2R) 10-9-14 to 15-0-13, Interior (1) 15-0-13 to 20-7-10, Exterior(2E) 20-7-10 to 22-8-12 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.
- 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 160 lb uplift at joint 1 and 159 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



October 9,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A10	Hip	1	2	Job Reference (optional)	176921756

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:2ahoJHYB23qDq7ALuAgsEoyVpzz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

18-0-4 -4-11-12 9-4-10 12-1-6 4-11-12 9-4-10 2-8-12 5-10-14 5x5= 8x8= 1<u>2</u> 4x6 18 16 7-0-5 8x8 🛩 2-1-17 3-3-1 b 8  $\mathbb{R}$ 9 19 11 10 5x8= 7 6x8 = 2x6 ı 4x6= 3x6 II

Scale = 1:59.1

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

Loading	(psf)	Spacing	2-5-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.32	10-14	>846	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.59	10-14	>458	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.34	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.37	10-14	>725	240	Weight: 358 lb	FT = 20%

9-6-6

9-6-6

### LUMBER

BOT CHORD

2x10 SP No.1 \*Except\* 4-5,5-6:2x6 SP No.1 TOP CHORD

**BOT CHORD** 2x8 SP No.1 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).

7-0-5

4-11-12

4-11-12

10-3-13

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 8-9.

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

Max Horiz 1=423 (LC 12)

Max Uplift 1=-175 (LC 12), 8=-210 (LC 12)

Max Grav 1=1273 (LC 19), 8=1300 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-738/63, 2-4=-1521/214, 4-5=-1155/344, TOP CHORD

5-6=-1434/349, 6-8=-1432/326

BOT CHORD 2-10=-691/2400, 9-10=-226/1198,

8-9=-18/16, 7-8=0/0

WEBS 4-10=-115/242, 5-9=-88/457, 6-9=-254/1343

### NOTES

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: 2x8 - 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

Unbalanced roof live loads have been considered for

provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 14-4-6, Exterior(2E) 14-4-6 to 17-1-2, Exterior(2R) 17-1-2 to 21-4-1, Interior (1) 21-4-1 to 22-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 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 210 lb uplift at joint 8 and 175 lb uplift at joint 1.
- 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



18-0-4

0-3-4

17-9-0

5-9-6

2-5-4

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

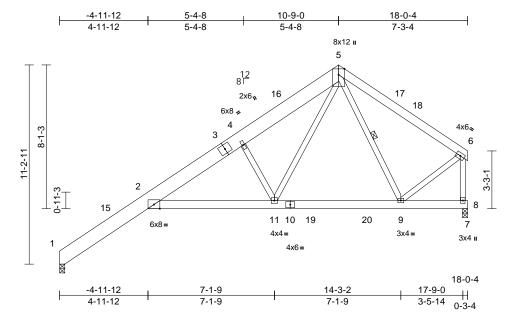
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 60 Duncan's Creek	
251589-A	A11	Roof Special	4	1	Job Reference (optional)	176921757

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:WmFAXdYppNy4SHIXStB5n?yVpzy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:64.9

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	0.54	Vert(LL)	-0.25	11-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.48	11-14	>562	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.31	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.32	11-14	>841	240	Weight: 178 lb	FT = 20%

### LUMBER

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

1-3:2x10 SP 2400F 2.0E

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

Rigid ceiling directly applied. **BOT CHORD** WEBS 1 Row at midpt 5-9 REACTIONS 1=0-3-8, 8=0-3-8 (size) Max Horiz 1=371 (LC 12)

Max Uplift 1=-147 (LC 12), 8=-202 (LC 12) Max Grav 1=1025 (LC 19), 8=1091 (LC 19)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-623/70, 2-4=-2326/528, 4-5=-1803/512,

5-6=-830/203, 6-8=-1053/208

**BOT CHORD** 2-11=-685/2100 9-11=-162/762 8-9=-31/42

7-8=0/0

WEBS 4-11=-1117/512. 5-11=-447/1562. 5-9=-308/166, 6-9=-100/799

### 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 15-8-12, Exterior(2R) 15-8-12 to 18-8-12, Interior (1) 18-8-12 to 22-8-12 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.

- 5) 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 202 lb uplift at joint 8 and 147 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



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

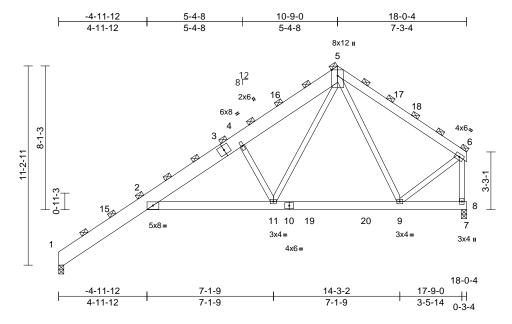
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-A	A12	Roof Special	2	2	Job Reference (optional)	176921758

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:WmFAXdYppNy4SHIXStB5n?yVpzy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-5-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.19	11-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.37	11-14	>740	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.24	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.25	11-14	>999	240	Weight: 355 lb	FT = 20%

### LUMBER

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

**BOT CHORD** 2x6 SP No.1 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) 1=0-3-8, 8=0-3-8

Max Horiz 1=448 (LC 12)

Max Uplift 1=-178 (LC 12), 8=-244 (LC 12)

Max Grav 1=1238 (LC 19), 8=1319 (LC 19)

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

TOP CHORD 1-2=-752/85, 2-4=-2344/519, 4-5=-2225/636,

5-6=-998/244, 6-8=-1272/252

**BOT CHORD** 2-11=-794/2439, 9-11=-192/918, 8-9=-32/43,

7-8=0/0

WEBS 4-11=-1378/632. 5-11=-563/1949.

5-9=-376/201, 6-9=-120/964

### 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) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 15-8-12, Exterior(2R) 15-8-12 to 18-8-12, Interior (1) 18-8-12 to 22-8-12 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 244 lb uplift at joint 8 and 178 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



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

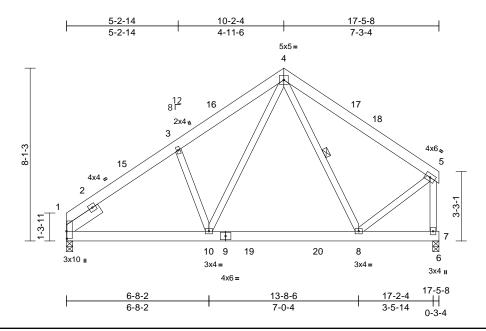
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Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A13	Common	6	1	Job Reference (optional)	76921759

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:\_ypYkzZRah4x3RJk0biKJDyVpzx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54

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

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	0.23	Vert(LL)	-0.04	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.06	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	10	>999	240	Weight: 135 lb	FT = 20%

### LUMBER

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

Left 2x6 SP No.2 -- 1-11-0 SLIDER

### BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals

BOT CHORD Rigid ceiling directly applied. WFRS 1 Row at midpt 4-8

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

Max Horiz 1=196 (LC 9)

Max Uplift 1=-128 (LC 12), 7=-120 (LC 12) Max Grav 1=811 (LC 19), 7=816 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-918/174, 3-4=-863/261, 4-5=-618/143, TOP CHORD

5-7=-791/141

**BOT CHORD** 1-10=-240/813, 8-10=-84/504, 7-8=-33/41,

6-7=0/0

**WEBS** 5-8=-32/578, 3-10=-231/248, 4-10=-170/549,

4-8=-143/107

### 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-2-4, Exterior(2R) 10-2-4 to 13-2-4, Interior (1) 13-2-4 to 17-2-4 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 1 and 120 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



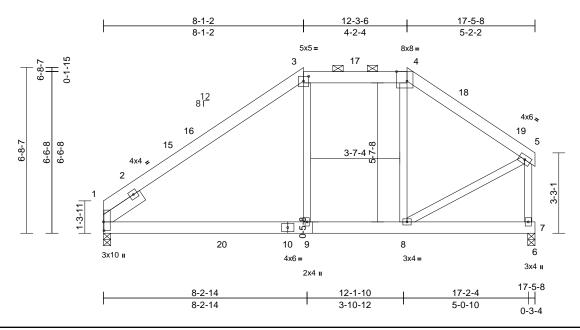
October 9,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A14	Hip	1	1	Job Reference (optional)	176921760

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:\_ypYkzZRah4x3RJk0biKJDyVpzx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.11	9-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.17	9-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.03	1	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.10	9-13	>999	240	Weight: 122 lb	FT = 20%

### LUMBER

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

Left 2x6 SP No.2 -- 1-11-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied,

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

(6-0-0 max.): 3-4.

BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 1=0-3-8, 7=0-3-8

Max Horiz 1=164 (LC 12)

Max Uplift 1=-140 (LC 12), 7=-121 (LC 13)

Max Grav 1=849 (LC 19), 7=848 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

1-3=-839/157, 3-4=-623/212, 4-5=-764/191, TOP CHORD

5-7=-832/199 BOT CHORD

1-9=-221/623, 8-9=-112/627, 7-8=-15/20,

6-7=0/0

WFBS 5-8=-142/738, 3-9=-9/303, 4-8=-80/123

### 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-1-2, Exterior(2E) 8-1-2 to 12-3-6, Exterior(2R) 12-3-6 to 16-6-5, Interior (1) 16-6-5 to 17-2-4 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 1 and 121 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



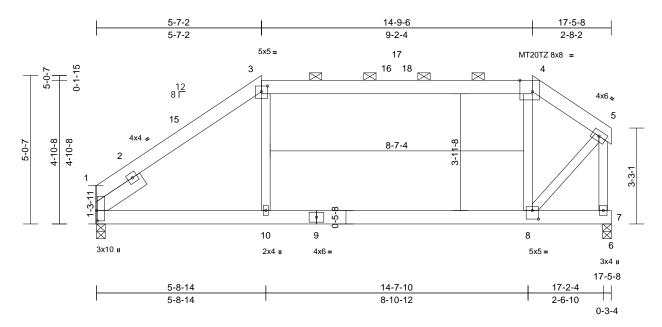
October 9,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	A15	Hip	1	1	Job Reference (optional)	176921761

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 ID:\_ypYkzZRah4x3RJk0biKJDyVpzx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.14	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.22	8-10	>924	240	MT20TZ	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	-0.03	1	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.13	10-13	>999	240	Weight: 112 lb	FT = 20%

### LUMBER

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

Left 2x6 SP No.2 -- 1-11-0 SLIDER

### BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

BOT CHORD Rigid ceiling directly applied.

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

Max Horiz 1=130 (LC 12)

Max Uplift 1=-150 (LC 12), 7=-131 (LC 13)

Max Grav 1=839 (LC 2), 7=898 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD  $1-3=-948/132,\ 3-4=-733/171,\ 4-5=-783/136,$ 

5-7=-1174/179 BOT CHORD 1-10=-156/726, 8-10=-129/733, 7-8=-27/8,

6-7=0/0

WFBS 5-8=-218/1159. 3-10=-13/365. 4-8=-271/189

### 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) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-7-2, Exterior(2R) 5-7-2 to 9-10-1, Interior (1) 9-10-1 to 14-9-6, Exterior(2E) 14-9-6 to 17-2-4 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 1 and 131 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



October 9,2025

Qty Ply Job Truss Truss Type Lot 60 Duncan's Creek 176921762 251589-A A16 Half Hip 2 Job Reference (optional) Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:38 Comtech, Inc, Fayetteville, NC - 28314, Page: 1 ID:S9NwyJa3L\_CnhbuwZIDZsQyVpzw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f THIS TRUSS IS DESIGNED TO SUPPORT ONLY  $2^{\text{-}0^{\text{+}}}$  OF UNIFORM LOAD AS SHOWN. 17-5-8 2-11-4 9-11-7 17-0-13 2-11-4 7-0-3 7-1-6 0-4-11 6x6 = 2x4 ı 3x4 = 8 F 3 15 16 5 6 4x4 🌶 3-3-3 -3  $\bigotimes$ 10 9 8 7 3x10 II 2x4 II 4x6 = 3x10 = 2x4 II 17-5-8 2-9-8 9-11-7 17-0-13 7-1-15 2-9-8 7-1-6

Scale = 1:32.1

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

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	0.11	Vert(LL)	-0.02	8-10	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.04	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.02	8-10	>999	240	Weight: 239 lb	FT = 20%

### LUMBER

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

SLIDER Left 2x6 SP No.2 -- 1-11-0

### BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (6-0-0 max.): 3-6.

BOT CHORD Rigid ceiling directly applied.

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

Max Horiz 1=87 (LC 12)

Max Uplift 1=-135 (LC 9), 7=-214 (LC 9)

Max Grav 1=682 (LC 1), 7=706 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-3=-832/196, 3-4=-1202/342, TOP CHORD

4-5=-1201/341, 5-6=0/0 BOT CHORD 1-10=-181/656, 8-10=-185/654, 7-8=0/0

**WEBS** 5-7=-644/245, 4-8=-500/292, 3-8=-209/615,

5-8=-363/1281, 3-10=0/160

### NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
  - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
  - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- 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) exterior zone and C-C Exterior(2E) 0-0-0 to 2-11-4, Exterior(2R) 2-11-4 to 7-2-3, Interior (1) 7-2-3 to 17-5-8 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 1 and 214 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.
- 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



0-4-11

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 60 Duncan's Creek	
251589-A	B01GE	Attic Structural Gable	1	1	Job Reference (optional)	176921763

Run: 25.30 E Sep 7 2025 Print: 25.3.0 E Sep 7 2025 MiTek Industries, Inc. Thu Oct 09 13:51:27 ID:w\_NkYaQd4RDpmohcDk\_iObzuUsG-m\_yJS9JeU\_\_bEIN6SFqVVhgpXvXZdadJt6Bv8uyVI2E

Page: 1

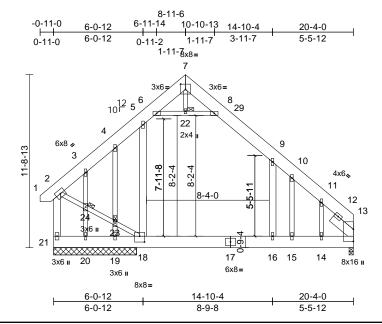


Plate Offsets (X, Y): [7:0-4-0,0-4-4], [18:0-4-0,0-4-12]

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	0.29	Vert(LL)	-0.05	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.09	16-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	16	>999	240	Weight: 277 lb	FT = 20%

### LUMBER

WEBS

TOP CHORD 2x10 SP No.1 2x10 SP No.1 **BOT CHORD** 

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

7-22,18-2:2x4 SP No.2

**OTHERS** 2x4 SP No.2

**SLIDER** Right 2x8 SP No.1 -- 1-11-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied. **JOINTS** 1 Brace at Jt(s): 22,

23, 24

REACTIONS All bearings 5-7-8. except 13=0-3-8

(lb) - Max Horiz 21=-370 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 13, 18, 20 except 19=-942 (LC 18),

21=-242 (LC 13)

Max Grav All reactions 250 (lb) or less at joint

(s) 19 except 13=1252 (LC 21), 18=942 (LC 20), 20=348 (LC 20),

21=1440 (LC 21)

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

(lb) or less except when shown.

TOP CHORD 2-3=-1233/256, 3-4=-1252/315, 4-5=-1115/347, 5-6=-811/239, 8-29=-765/233,

9-29=-908/224, 9-10=-1265/104, 10-11=-1156/46. 11-12=-1236/0.

2-21=-1414/252

**BOT CHORD** 20-21=-265/312, 19-20=-265/312,

18-19=-265/312, 17-18=0/743, 16-17=0/743, 15-16=0/742, 14-15=0/748, 13-14=0/746

**WEBS** 5-18=-260/364, 9-16=0/612, 6-22=-942/350, 8-22=-942/350, 2-24=-130/1097,

23-24=-126/1051, 18-23=-135/1116,

10-15=-274/75

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) exterior zone and C-C Exterior(2E) -0-6-10 to 2-5-6, Interior (1) 2-5-6 to 8-11-6, Exterior(2R) 8-11-6 to 11-11-6, Interior (1) 11-11-6 to 20-4-0 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 2x6 (||) 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.

Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-22, 8-22; Wall dead load (5.0psf) on member(s).5-18, 9-16

Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 13, 18, 20 except (it=lb) 21=242, 19=941

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.

12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



October 9,2025

NOTES

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

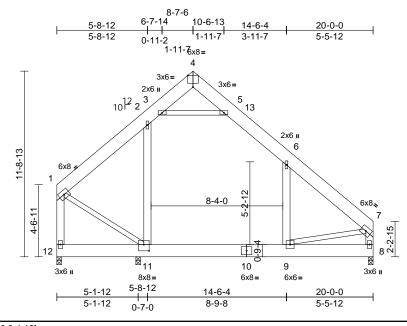
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-A	B02	Attic	2	1	Job Reference (optional)	176921764

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:39 ID:w\_NkYaQd4RDpmohcDk\_iObzuUsG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.8

Plate Offsets (X, Y): [4:0-4-0,Edge], [11:0-4-0,0-4-12]

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	0.28	Vert(LL)	-0.05	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.10	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	9-11	>999	240	Weight: 248 lb	FT = 20%

### LUMBER

TOP CHORD 2x10 SP No.1 **BOT CHORD** 2x10 SP No.1

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

11-1,9-7:2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 8=0-3-8, 11=0-3-8, 12=0-3-8

Max Horiz 12=-383 (LC 8)

Max Uplift 8=-52 (LC 13), 11=-393 (LC 11), 12=-218 (LC 13)

Max Grav

8=1282 (LC 21), 11=476 (LC 8),

12=1418 (LC 21)

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

Tension

TOP CHORD 1-2=-1273/259, 2-3=-811/214, 3-4=-42/165,

4-5=-29/154, 5-6=-931/188, 6-7=-1239/0,

1-12=-1525/241, 7-8=-1159/39 11-12=-314/344, 9-11=0/755, 8-9=-71/264

**BOT CHORD** 2-11=-225/436, 6-9=-35/387, 3-5=-1067/305,

1-11=-131/1168, 7-9=0/555

### 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) exterior zone and C-C Exterior(2E) 0-6-12 to 3-6-12, Interior (1) 3-6-12 to 8-11-6, Exterior(2R) 8-11-6 to 11-11-6, Interior (1) 11-11-6 to 20-1-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).2-11, 6-9
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 12, 393 lb uplift at joint 11 and 52 lb uplift at joint 8.
- 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.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

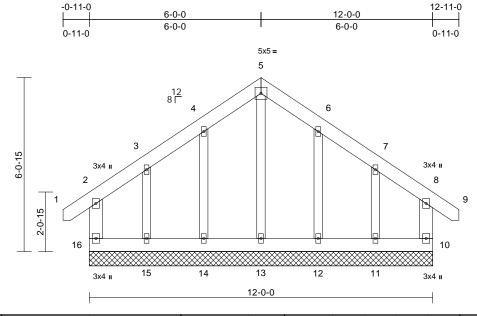


October 9,2025

Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	C01GE	Common Supported Gable	1	1	Job Reference (optional)	176921765

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:39 ID:w\_NkYaQd4RDpmohcDk\_iObzuUsG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	= 1	:40	.3

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	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 101 lb	FT = 20%

### LUMBER

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 2x6 SP No.1 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=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=-211 (LC 10)

Max Uplift 10=-100 (LC 9), 11=-142 (LC 8),

12=-61 (LC 13), 14=-61 (LC 12), 15=-154 (LC 9), 16=-117 (LC 8)

Max Grav 10=191 (LC 19), 11=243 (LC 20),

12=168 (LC 26), 13=159 (LC 22),

14=168 (LC 25), 15=252 (LC 19),

16=204 (LC 20)

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

Tension

TOP CHORD 2-16=-146/200, 1-2=0/34, 2-3=-112/110,

3-4=-80/196, 4-5=-123/278, 5-6=-123/278,

6-7=-82/198, 7-8=-98/96, 8-9=0/34,

8-10=-137/194

**BOT CHORD** 15-16=-108/104. 14-15=-108/104.

13-14=-108/104, 12-13=-108/104, 11-12=-108/104, 10-11=-108/104

WEBS 5-13=-167/12, 4-14=-139/122,

3-15=-160/179, 6-12=-138/122,

7-11=-156/176

### NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-7 to 2-0-0, Exterior(2N) 2-0-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 12-9-7 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
- 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.
- 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 117 lb uplift at joint 16, 100 lb uplift at joint 10, 61 lb uplift at joint 14, 154 lb uplift at joint 15, 61 lb uplift at joint 12 and 142 lb uplift at ioint 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



October 9,2025

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

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

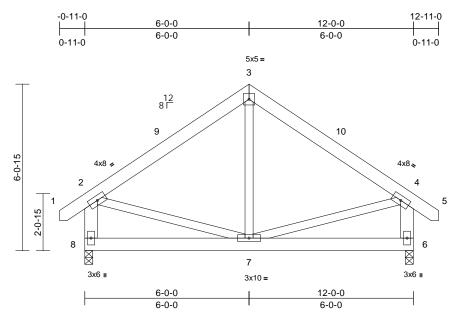
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	C02	Common	5	1	Job Reference (optional)	176921766

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:39 ID:w\_NkYaQd4RDpmohcDk\_iObzuUsG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.1

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	0.10	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	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	7-8	>999	240	Weight: 98 lb	FT = 20%

### 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=0-3-8, 8=0-3-8

Max Horiz 8=-211 (LC 10)

Max Uplift 6=-111 (LC 13), 8=-111 (LC 12)

Max Grav 6=523 (LC 1), 8=523 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/34, 2-3=-417/319, 3-4=-417/319,

4-5=0/34, 2-8=-465/350, 4-6=-465/350

**BOT CHORD** 7-8=-217/237, 6-7=-107/105

**WEBS** 3-7=-117/167, 2-7=-111/192, 4-7=-118/197

### 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) exterior zone and C-C Exterior(2E) -0-9-7 to 2-2-9, Interior (1) 2-2-9 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-9-7 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 111 lb uplift at joint 8 and 111 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



October 9,2025



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

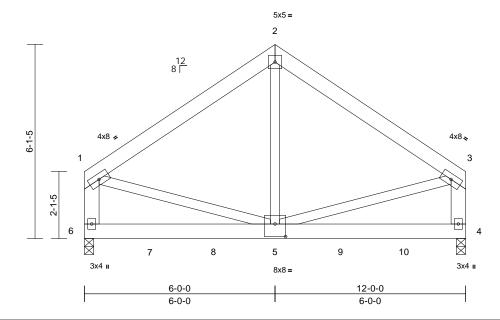
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-A	C03-GR	Common Girder	1	2	Job Reference (optional)	176921767

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:39 ID: IVIZQif Si85o1 fx GUGr Cevy Vpzp-RfC? PsB70 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? fx GUGr Cevy Vpzp-RfC? fx GUGr Cevy Vpzp-RfC?

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	0.15	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 = 20%

### 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=-192 (LC 4)

Max Grav 4=1972 (LC 1), 6=1946 (LC 1)

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

TOP CHORD 1-2=-1695/0, 2-3=-1695/0, 1-6=-1384/0,

3-4=-1383/0

5-6=-126/391, 4-5=0/279

BOT CHORD

2-5=0/1465, 1-5=0/1101, 3-5=0/1099 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) exterior zone; 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) 599 lb down at 2-0-12, 599 lb down at 4-0-12, 599 lb down at 6-0-12, and 599 lb down at 8-0-12, and 599 lb down at 10-0-12 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: 5=-599 (F), 7=-599 (F), 8=-599 (F), 9=-599 (F),

10=-599 (F)



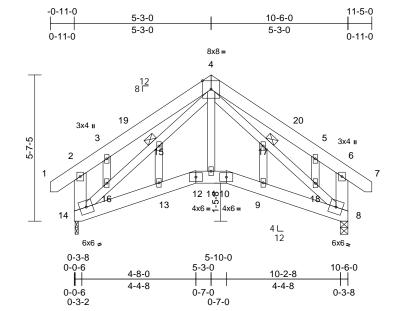
October 9,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	D01GE	Roof Special	1	1	Job Reference (optional)	176921768

Run: 25.30 E Sep 7 2025 Print: 25.3.0 E Sep 7 2025 MiTek Industries, Inc. Thu Oct 09 13:42:25 ID:w\_NkYaQd4RDpmohcDk\_iObzuUsG-hK5fH9kPbrRnz9oZa?3xSz8u\_dyY9Z9FnTP71QyVIAk

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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	0.09	Vert(LL)	-0.01	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	12	>999	240	Weight: 101 lb	FT = 20%

### LUMBER

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

2x4 SP No.2 \*Except\* 14-2,8-6:2x6 SP No.1 WEBS

2x4 SP No.2 OTHERS

BRACING TOP CHORD

Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied.

JOINTS 1 Brace at Jt(s): 15,

REACTIONS (lb/size)

8=463/0-3-8, 14=463/0-1-8

Max Horiz 14=-198 (LC 10)

Max Uplift 8=-100 (LC 13), 14=-100 (LC 12)

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

TOP CHORD 2-3=-252/184, 2-14=-315/217, 6-8=-296/215

13-14=-81/382, 12-13=-76/398,

11-12=-70/366, 10-11=-70/366, 9-10=-76/398,

8-9=-79/380

WEBS 4-17=-384/84, 17-18=-360/80, 8-18=-360/73,

4-11=-15/350, 14-16=-297/14, 15-16=-294/0,

4-15=-315/9

### NOTES

**BOT 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) exterior zone and C-C Exterior(2E) -0-9-7 to 2-2-9, Interior (1) 2-2-9 to 5-3-0, Exterior(2R) 5-3-0 to 8-3-0, Interior (1) 8-3-0 to 11-3-7 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 (||) 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) 8, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 8 and 100 lb uplift at joint 14.
- 12) 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



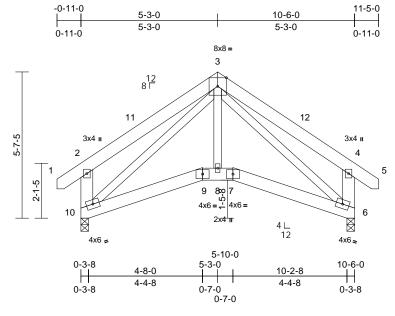
October 9,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	D02	Roof Special	5	1	Job Reference (optional)	176921769

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	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	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	9	>999	240	Weight: 93 lb	FT = 20%

### LUMBER

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

2x4 SP No.2 \*Except\* 10-2,6-4:2x6 SP No.1 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 6=0-3-8, 10=0-3-8

Max Horiz 10=-198 (LC 10)

Max Uplift 6=-100 (LC 13), 10=-100 (LC 12)

Max Grav 6=463 (LC 1), 10=463 (LC 1)

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

Tension

TOP CHORD 1-2=0/34, 2-3=-258/246, 3-4=-242/233,

4-5=0/34, 2-10=-333/264, 4-6=-321/260 **BOT CHORD** 9-10=-77/388, 8-9=-65/363, 7-8=-65/363,

6-7=-77/387

**WEBS** 3-10=-314/0. 3-6=-388/84. 3-8=0/348

### 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) exterior zone and C-C Exterior(2E) -0-9-7 to 2-2-9, Interior (1) 2-2-9 to 5-3-0, Exterior(2R) 5-3-0 to 8-3-0, Interior (1) 8-3-0 to 11-3-7 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.

- 5) Bearing at joint(s) 6, 10 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 100 lb uplift at joint 6 and 100 lb uplift at joint 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

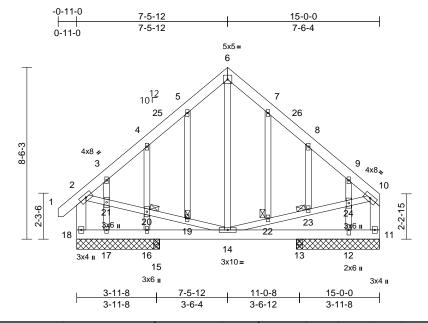


October 9,2025

Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	G01GE	Common Structural Gable	1	1	Job Reference (optional)	176921770

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:39 ID:w\_NkYaQd4RDpmohcDk\_iObzuUsG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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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	0.10	Vert(LL)	0.00	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	14	>999	240	Weight: 158 lb	FT = 20%

### LUMBER

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

2x4 SP No.2 \*Except\* 18-2,11-10:2x6 SP WEBS

> No.1 2x4 SP No.2

**OTHERS** 

**BRACING** TOP CHORD

Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied. 1 Brace at Jt(s): 19, **JOINTS** 

20 22 23

REACTIONS (size)

11=4-1-4, 12=4-1-4, 13=0-3-8, 15=0-3-8, 16=4-1-4, 17=4-1-4,

18=4-1-4

Max Horiz 18=283 (LC 9)

11=-78 (LC 11), 12=-367 (LC 13), Max Uplift

16=-210 (LC 12), 17=-84 (LC 12),

18=-74 (LC 8)

Max Grav 11=225 (LC 13), 12=436 (LC 20),

13=150 (LC 3), 15=209 (LC 3), 16=171 (LC 19), 17=133 (LC 19),

18=340 (LC 20)

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

Tension

TOP CHORD

1-2=0/39, 2-3=-301/82, 3-4=-282/79,

4-5=-276/151, 5-6=-216/176, 6-7=-198/152, 7-8=-245/130, 8-9=-307/94, 9-10=-237/60,

2-18=-308/58, 10-11=-224/89

**BOT CHORD** 17-18=-245/222, 16-17=-245/222, 15-16=-245/222, 14-15=-245/222

13-14=-36/46, 12-13=-36/46, 11-12=-36/46

WEBS 6-14=-42/61, 2-21=-49/222, 20-21=-51/219,

> 19-20=-47/220, 14-19=-53/225, 14-22=-48/193, 22-23=-45/190,

23-24=-43/194, 10-24=-48/188, 5-19=-25/31,

4-20=-224/195, 16-20=-249/213, 3-21=-102/93, 17-21=-94/89, 7-22=-13/19,

8-23=-40/39, 9-24=-355/326, 12-24=-429/396

- 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) exterior zone and C-C Exterior(2E) -0-9-9 to 2-2-7, Interior (1) 2-2-7 to 7-5-12, Exterior(2R) 7-5-12 to 10-5-12, Interior (1) 10-5-12 to 14-9-4 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
- Truss designed for wind loads in the plane of the truss only. For study 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 18, 78 lb uplift at joint 11, 210 lb uplift at joint 16, 84 lb uplift at joint 17 and 367 lb uplift at joint 12.
- 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



NOTES

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

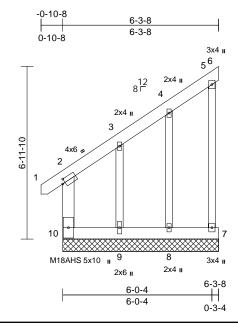
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-A	M01GE	Monopitch Supported Gable	1	1	Job Reference (optional)	176921771

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Thu Oct 09 13:53:13 ID:bT0ZWp8ShLErhgPlySQVhkyVo57-fNMNiPb7WYKYy2UUfWjMo23wBeldSYtwFbsWrlyVI0a

Page: 1



Scale = 1:46.5

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

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	0.33	Vert(LL)	n/a	-	n/a	999	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 61 lb	FT = 20%

### LUMBER

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

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

2x4 SP No.2 OTHERS

**BRACING** 

BOT CHORD

Structural wood sheathing directly applied, TOP CHORD

except end verticals. Rigid ceiling directly applied.

REACTIONS All bearings 6-3-8.

(lb) - Max Horiz 10=180 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s)

6, 7 except 9=-426 (LC 12),

10=-110 (LC 10)

Max Grav All reactions 250 (lb) or less at joint (s) 6, 7, 8 except 9=337 (LC 10),

10=319 (LC 12)

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

(lb) or less except when shown.

TOP CHORD 2-10=-297/160, 2-3=-447/229

WEBS 3-9=-308/515

### 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) exterior zone and C-C Corner(3E) 0-3-1 to 3-3-8, Exterior(2N) 3-3-8 to 7-3-8 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 100 lb uplift at joint (s) 6, 7 except (jt=lb) 10=110, 9=426.
- 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.

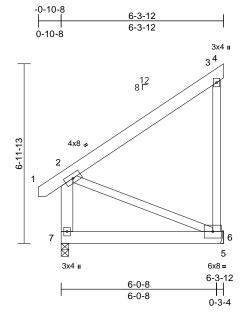
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-A	M02	Monopitch	7	1		921772

Run: 25.30 E Sep 7 2025 Print: 25.3.0 E Sep 7 2025 MiTek Industries, Inc. Thu Oct 09 13:54:23 ID:doRObpQ3dvVFJUC1ualHj5yVo0t-crbrOLR1139cLoqxmC\_ndozvhsgPsBcDLUqDJiyVI?U

Page: 1



Scale = 1:44.8

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	0.19	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	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 58 lb	FT = 20%

### 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** (lb/size) 6=239/ Mechanical, 7=295/0-3-8

> Max Horiz 7=179 (LC 9) Max Uplift 6=-214 (LC 12)

Max Grav 6=301 (LC 19), 7=295 (LC 1) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 3-6=-233/273 **BOT CHORD** 6-7=-380/182 **WEBS** 2-6=-198/411

### 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) exterior zone and C-C Exterior(2E) 0-3-1 to 3-3-1, Interior (1) 3-3-1 to 7-3-12 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 214 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



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

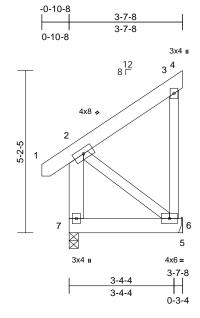
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-A	M03	Monopitch	3	1	Job Reference (optional)	176921773

Run: 25.30 E Sep 7 2025 Print: 25.3.0 E Sep 7 2025 MiTek Industries, Inc. Thu Oct 09 13:55:51 ID:Ez9pKTg\_tMJOVhxGAIDMcWyVo5k-1nv6sRVEJ5E7vKZswhZQCMc?bKIXU0TAaA8tPbyVI\_6

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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 38 lb	FT = 20%

### 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 (lb/size) 6=127/ Mechanical, 7=192/0-3-8

Max Horiz 7=132 (LC 9)

Max Uplift 6=-157 (LC 12)

Max Grav 6=191 (LC 19), 7=192 (LC 1)

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

(lb) or less except when shown.

BOT CHORD 6-7=-268/116 WEBS 2-6=-147/340

### 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) exterior zone and C-C Exterior(2E) 0-3-1 to 3-3-1, Interior (1) 3-3-1 to 4-7-8 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 157 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.

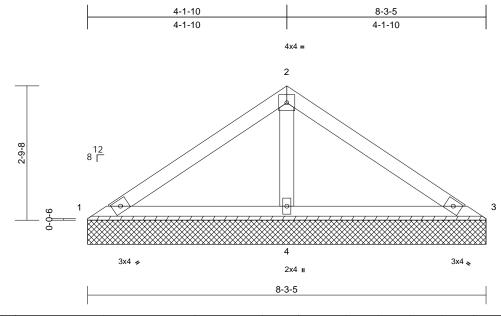
LOAD CASE(S) Standard



Job	Truss Type Qty Ply Lot 60 Duncar					
251589-A	VC1	Valley	1	1	Job Reference (optional)	76921774

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:40 ID:HJkBCMeqxqzxPWM4wZKz5hyVpzq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	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	0.08	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 29 lb	FT = 20%

### LUMBER

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

### **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=78 (LC 9)

Max Uplift 1=-85 (LC 26), 3=-1 (LC 13),

4=-130 (LC 13)

1=82 (LC 25), 3=2 (LC 20), 4=662 Max Grav

(LC 1)

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

Tension

TOP CHORD 1-2=-131/340, 2-3=-229/351 BOT CHORD 1-4=-281/200, 3-4=-299/217

2-4=-515/274 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) exterior zone and C-C Exterior(2E) 0-0-9 to 3-0-9, Interior (1) 3-0-9 to 4-2-3, Exterior(2R) 4-2-3 to 7-4-14, Interior (1) 7-4-14 to 8-3-14 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 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 85 lb uplift at joint 1, 1 lb uplift at joint 3, 130 lb uplift at joint 4 and 1 lb uplift at joint 3.
- 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



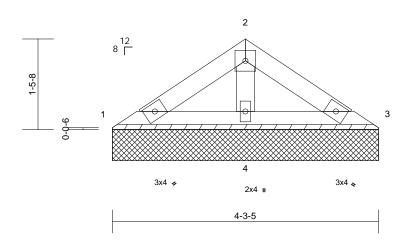
October 9,2025

Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	VC2	Valley	1	1	Job Reference (optional)	

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:40 ID:HJkBCMeqxqzxPWM4wZKz5hyVpzq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 14 lb	FT = 20%

### LUMBER

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

### **BRACING**

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

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

Max Horiz 1=-38 (LC 8)

Max Uplift 1=-11 (LC 12), 3=-18 (LC 13),

4=-46 (LC 12)

Max Grav 1=59 (LC 25), 3=59 (LC 26), 4=241

(LC 1)

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

Tension

TOP CHORD 1-2=-54/75, 2-3=-54/71

BOT CHORD 1-4=-73/79, 3-4=-73/79

2-4=-137/92 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) exterior zone 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.
- Gable requires continuous bottom chord bearing.
- 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.
- \* 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.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 18 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



October 9,2025

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

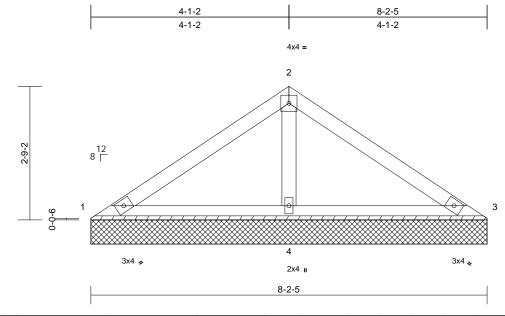
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent 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 60 Dunca		Lot 60 Duncan's Creek			
251589-A	VD1	Valley	1	1	Job Reference (optional)	176921776

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Wed Oct 08 11:26:40 ID:HJkBCMeqxqzxPWM4wZKz5hyVpzq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	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: 28 lb	FT = 20%

### LUMBER

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

### **BRACING**

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

### REACTIONS (size)

Max Horiz 1=-78 (LC 8) Max Uplift 1=-10 (LC 26), 3=-17 (LC 8),

4=-130 (LC 12)

Max Grav

1=72 (LC 25), 3=72 (LC 26), 4=572 (LC 1)

1=8-2-5, 3=8-2-5, 4=8-2-5

**FORCES** Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-132/248, 2-3=-132/248 BOT CHORD 1-4=-228/200, 3-4=-228/200

2-4=-413/272 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) exterior zone and C-C Exterior(2E) 0-0-9 to 3-0-9, Interior (1) 3-0-9 to 4-1-11, Exterior(2R) 4-1-11 to 7-3-14, Interior (1) 7-3-14 to 8-2-14 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 4-0-0 oc. 5)
- 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 10 lb uplift at joint 1, 17 lb uplift at joint 3 and 130 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.

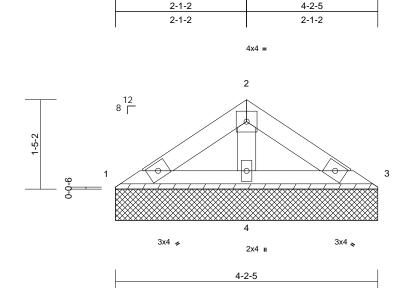
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Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-A	VD2	Valley	1	1	Job Reference (optional)	176921777

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 13 lb	FT = 20%

### LUMBER

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

### **BRACING**

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

REACTIONS (size) 1=4-2-5, 3=4-2-5, 4=4-2-5

Max Horiz 1=-38 (LC 8)

Max Uplift 1=-11 (LC 12), 3=-18 (LC 13),

4=-44 (LC 12)

1=58 (LC 25), 3=58 (LC 26), 4=236 Max Grav

(LC 1)

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

Tension

TOP CHORD 1-2=-53/72, 2-3=-53/68 BOT CHORD 1-4=-70/77, 3-4=-70/77

2-4=-132/88 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) exterior zone 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.
- Gable requires continuous bottom chord bearing.
- 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.
- \* 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.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 18 lb uplift at joint 3 and 44 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



October 9,2025

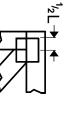
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 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)

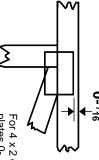


### Symbols

## 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

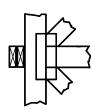
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## 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**



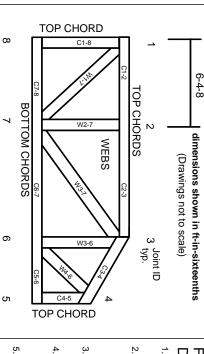
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### 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

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## 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.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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: 251589-B

Lot 60 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: I76895302 thru I76895311

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

North Carolina COA: C-0844



October 8,2025

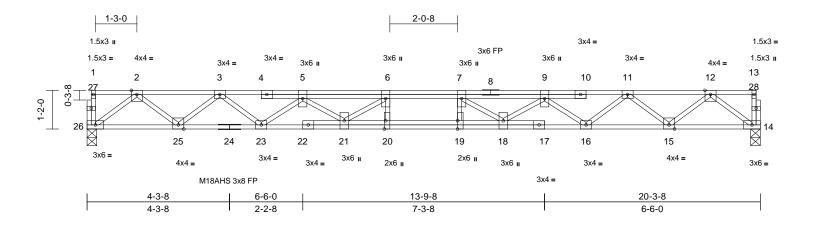
Gilbert, Eric

**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 60 Duncan's Creek	
251589-B	F01	Floor	11	1	Job Reference (optional)	

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 13:49:18  $ID: ZyOvL8 jsoWd\_vfrQGBCj\_CyVqsY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:34.7

Plate Offsets (X,	Y):	[19:0-3-0,Edge], [20:0-3-0,Edge]
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Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.28	19-20	>846	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.39	19-20	>615	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 124 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

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, 26=0-3-8 (size)

Max Grav 14=876 (LC 1), 26=876 (LC 1)

**FORCES** Tension

(lb) - Maximum Compression/Maximum

1-26=-26/0, 13-14=-26/0, 1-2=-2/0, 2-3=-1899/0, 3-5=-3231/0, 5-6=-4326/0,

6-7=-4749/0, 7-9=-4326/0, 9-11=-3231/0,

11-12=-1899/0, 12-13=-2/0

**BOT CHORD** 25-26=0/1113, 23-25=0/2645, 21-23=0/3914,

20-21=0/4749, 19-20=0/4749, 18-19=0/4749, 16-18=0/3914. 15-16=0/2645. 14-15=0/1113

WEBS 12-14=-1394/0, 2-26=-1394/0, 12-15=0/1023,

2-25=0/1023, 11-15=-971/0, 3-25=-971/0, 11-16=0/758, 3-23=0/758, 9-16=-873/0,

5-23=-873/0, 9-18=0/579, 5-21=0/579,

7-18=-714/0, 6-21=-714/0, 6-20=-85/208,

7-19=-85/208

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation
- 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.

LOAD CASE(S) Standard



October 8,2025



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)



١	Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
	251589-B	F02	Floor	2	1	Job Reference (optional)	176895303

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 13:49:19 ID:A?tK7?wyUx5xItwRZUUxU4yVqr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

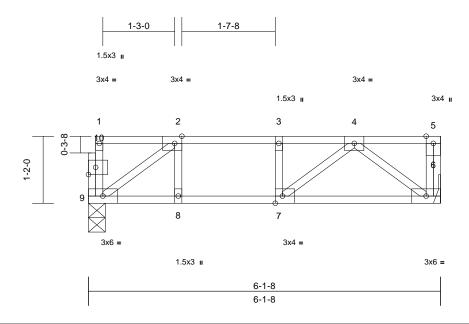


Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.19	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	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=258 (LC 1), 9=253 (LC 1)

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

TOP CHORD 1-9=-35/23, 5-6=-41/0, 1-2=-2/1, 2-3=-335/0,

3-4=-335/0, 4-5=0/0

BOT CHORD 8-9=0/335, 7-8=0/335, 6-7=0/266

WEBS 4-6=-334/0, 2-9=-412/0, 4-7=0/136, 2-8=0/62,

3-7=-70/0

### 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



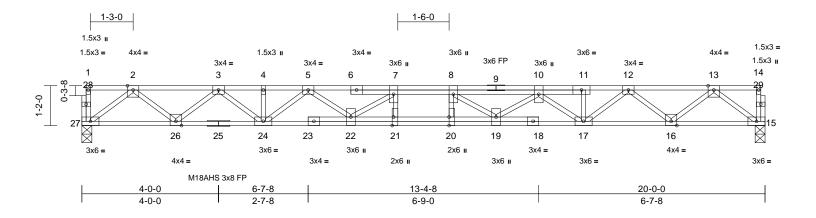
October 8,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-B	F03	Floor	1	1	Job Reference (optional)	

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 13:49:19 

Page: 1



### Scale = 1:33.7

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.37	Vert(LL)	-0.28	20-21	>840	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.39	20-21	>611	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 120 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

TOP CHORD

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

(size) 15=0-3-8, 27=0-3-8

Max Grav 15=863 (LC 1), 27=863 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-27=-28/0, 14-15=-29/0, 1-2=-2/0,

2-3=-1870/0, 3-4=-3168/0, 4-5=-3168/0, 5-7=-4086/0, 7-8=-4594/0, 8-10=-4254/0,

10-11=-3165/0, 11-12=-3160/0, 12-13=-1871/0, 13-14=-2/0

BOT CHORD 26-27=0/1092, 24-26=0/2608, 22-24=0/3663,

21-22=0/4594, 20-21=0/4594, 19-20=0/4594, 17-19=0/3903, 16-17=0/2609, 15-16=0/1092

WEBS 13-15=-1368/0, 2-27=-1368/0, 13-16=0/1013,

> 2-26=0/1012. 12-16=-961/0. 3-26=-961/0. 12-17=0/704, 3-24=0/715, 10-17=-928/0, 5-24=-631/0, 10-19=0/515, 5-22=0/553, 8-19=-606/0, 7-22=-736/0, 7-21=-49/246

8-20=-122/169, 11-17=0/68, 4-24=-92/0

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation
- 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 8,2025

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

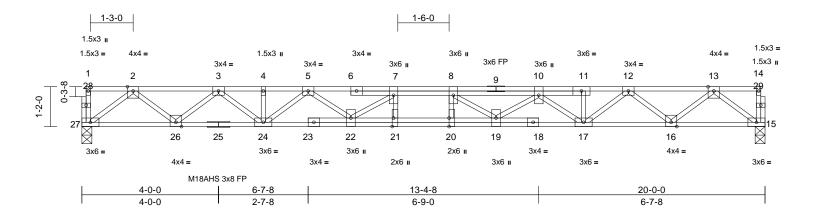
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Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek
251589-B	F04	Floor	11	1	Job Reference (optional)

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Page: 1



### Scale = 1:33.7

Plate Offse	ts (X, Y):	[20:0-3-0,Edge],	[21:0-3-0,Edge]
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Landina	( f)	0	4.7.0	001		DEEL		(1)	1/-1 61	1.7-1	DI ATEO	ODID
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	ın	(loc)	l/defl	L/a	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.28	20-21	>840	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.39	20-21	>611	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 120 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

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) 15=0-3-8, 27=0-3-8

Max Grav 15=863 (LC 1), 27=863 (LC 1)

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

Tension

TOP CHORD 1-27=-28/0, 14-15=-29/0, 1-2=-2/0,

2-3=-1870/0, 3-4=-3168/0, 4-5=-3168/0, 5-7=-4086/0, 7-8=-4594/0, 8-10=-4254/0,

10-11=-3165/0, 11-12=-3160/0,

12-13=-1871/0, 13-14=-2/0

BOT CHORD 26-27=0/1092, 24-26=0/2608, 22-24=0/3663,

21-22=0/4594, 20-21=0/4594, 19-20=0/4594, 17-19=0/3903, 16-17=0/2609, 15-16=0/1092

13-15=-1368/0, 2-27=-1368/0, 13-16=0/1013,

2-26=0/1012. 12-16=-961/0. 3-26=-961/0.

12-17=0/704, 3-24=0/715, 10-17=-928/0,

5-24=-631/0, 10-19=0/515, 5-22=0/553,

8-19=-606/0, 7-22=-736/0, 7-21=-49/246

8-20=-122/169, 11-17=0/68, 4-24=-92/0

### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation
- 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.



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

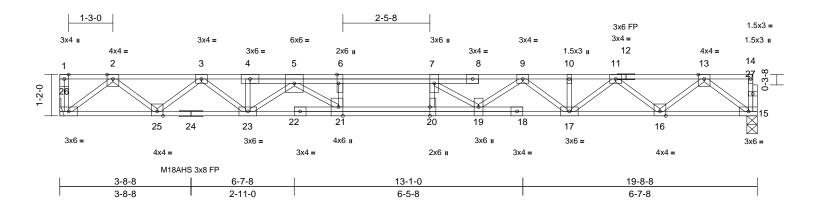
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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 60 Duncan's Creek	
251589-B	F05	Floor	3	1	Job Reference (optional)	176895306

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 13:49:19 ID: R3MZ64JDJGV4V2vSX?1qNKyVqmc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



### Scale = 1:32.6

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	I/defl	1./d	PLATES	GRIP
Loaumy	(psi)	Spacing	1-7-3			DEFE	111	(IUC)	i/ueii	L/u	FLAILS	GKIF
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.28	20	>837	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.38	20	>610	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 117 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, Except:

2-2-0 oc bracing: 21-23. REACTIONS (size) 15=0-3-8, 26= Mechanical

Max Grav 15=851 (LC 1), 26=856 (LC 1)

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

Tension

TOP CHORD 1-26=-32/0, 14-15=-28/0, 1-2=0/0, 2-3=-1840/0, 3-4=-3094/0, 4-5=-3097/0,

5-6=-4376/0, 6-7=-4376/0, 7-9=-3979/0, 9-10=-3102/0, 10-11=-3102/0, 11-13=-1838/0,

13-14=-2/0

BOT CHORD 25-26=0/1077, 23-25=0/2558, 21-23=0/3783,

20-21=0/4376, 19-20=0/4376, 17-19=0/3592,

16-17=0/2561, 15-16=0/1076

WEBS 13-15=-1347/0 2-26=-1352/0 13-16=0/992

> 2-25=0/993, 11-16=-941/0, 3-25=-934/0, 11-17=0/691, 3-23=0/684, 9-17=-626/0, 5-23=-860/0. 9-19=0/541. 5-21=0/932. 7-19=-693/0, 6-21=-379/0, 7-20=-71/186,

10-17=-83/0, 4-23=0/20

### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



October 8,2025



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

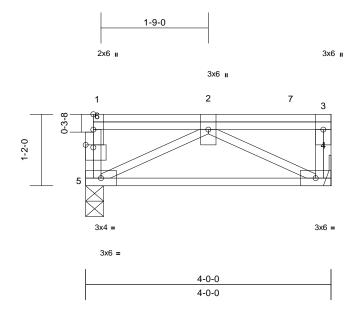
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-B	F06-GR	Floor Girder	1	1	Job Reference (optional)	176895307

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 13:49:19 

Page: 1



Scale = 1:18.8

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

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%F, 11%E

Concentrated Loads (lb)

Vert: 2=-194 (F), 7=-205 (F)

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 4= Mechanical, 5=0-3-8 (size) Max Grav 4=438 (LC 1), 5=286 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-52/0, 3-4=-202/0, 1-2=-3/0, 2-3=0/0

**BOT CHORD** 4-5=0/423

WFBS 2-5=-473/0, 2-4=-477/0

### NOTES

- 1) 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) 194 lb down at 1-8-15, and 205 lb down at 3-4-2 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

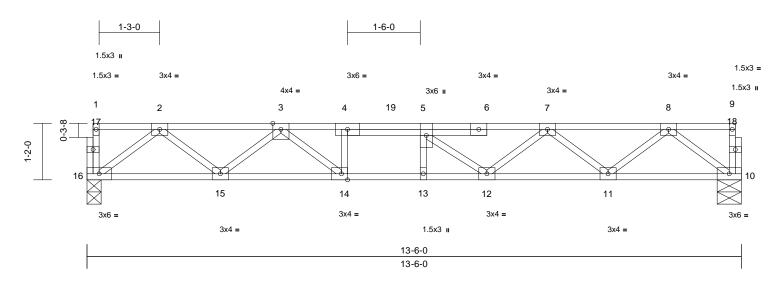
Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-5=-8, 1-3=-80



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-B	F07-GR	Floor Girder	1	1	Job Reference (optional)	5308

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Page: 1



Scale = 1:23.8

Plate Offsets (X, Y): [14:0-1-8,Edge]

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	0.74	Vert(LL)	-0.14	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.19	12-13	>843	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 72 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 10=0-6-0, 16=0-3-8 (size)

Max Grav 10=751 (LC 1), 16=778 (LC 1)

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

Tension

TOP CHORD 1-16=-26/0, 9-10=-33/0, 1-2=-2/0, 2-3=-1637/0, 3-4=-2896/0, 4-5=-2903/0,

5-7=-2586/0, 7-8=-1586/0, 8-9=-2/0

**BOT CHORD** 15-16=0/979, 14-15=0/2295, 13-14=0/2896,

12-13=0/2896, 11-12=0/2217, 10-11=0/937

8-10=-1173/0, 2-16=-1227/0, 8-11=0/845, 2-15=0/856, 7-11=-821/0, 3-15=-857/0,

7-12=0/590, 3-14=0/937, 5-12=-563/0,

4-14=-460/0. 5-13=-140/0

### 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) 425 lb down at 6-3-4 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: 10-16=-8, 1-9=-80 Concentrated Loads (lb)

Vert: 19=-374 (B)



October 8,2025

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

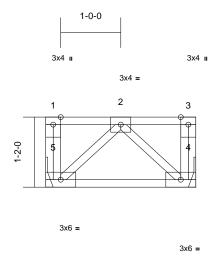
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 60 Duncan's Creek	
251589-B	F08	Floor	4	1	Job Reference (optional)	6895309

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 13:49:20 ID:16j\_lusz4\_jXnysX4ahteCyVoH5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:19.2

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	0.25	Vert(LL)	-0.05	4-5	>507	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.08	4-5	>351	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%F, 11%E

2-6-0 2-6-0

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical Max Grav 4=686 (LC 1), 5=686 (LC 1)

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

Tension

1-5=-173/0, 3-4=-173/0, 1-2=0/0, 2-3=0/0

TOP CHORD BOT CHORD 4-5=0/300

**WEBS** 2-5=-408/0, 2-4=-408/0

### **NOTES**

- 1) 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.
- 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: 4-5=-210 (F=-200), 1-3=-400



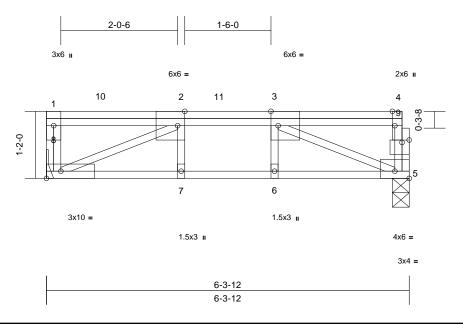
October 8,2025



Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-B	F09-GR	Floor Girder	4	1	Job Reference (optional)	176895310

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Page: 1



Scale = 1:20

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-3-0,Edge], [5:Edge,0-1-8], [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	0.85	Vert(LL)	-0.09	7-8	>783	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.13	7-8	>579	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 41 lb	FT = 20%F, 11%E

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 (size) 5=0-3-8, 8= Mechanical Max Grav 5=963 (LC 1), 8=2398 (LC 3)

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

TOP CHORD 1-8=-1219/0, 4-5=0/208, 1-2=0/0, 2-3=-2502/0, 3-4=0/13

**BOT CHORD** 7-8=0/2502, 6-7=0/2502, 5-6=0/2502 WEBS 2-8=-2735/0, 3-5=-2750/0, 2-7=-200/0,

3-6=0/227

### 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 668 lb down at 0-11-5, and 666 lb down at 2-6-8 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: 5-8=-10, 1-11=-600 (F=-500), 4-11=-100

Concentrated Loads (lb)

Vert: 2=-586 (B), 10=-595 (B)



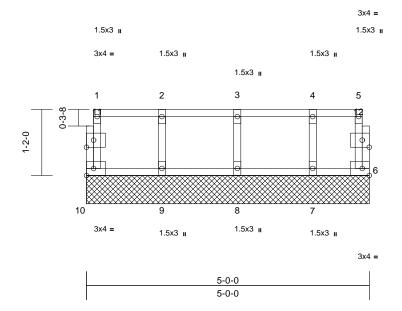




Job	Truss	Truss Type	Qty	Ply	Lot 60 Duncan's Creek	
251589-B	FKW1	Floor	1	1	Job Reference (optional)	5311

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Tue Oct 07 13:49:20 

Page: 1



Scale = 1:20.4

Plate Offsets (X, Y): [11:0-1-8,0-1-8], [12:0-1-8,0-1-8]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 24 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

5-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

6=5-0-0, 7=5-0-0, 8=5-0-0, 9=5-0-0,

10=5-0-0

6=38 (LC 1), 7=121 (LC 1), 8=152

(LC 1), 9=145 (LC 1), 10=54 (LC 1)

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

Tension

TOP CHORD 1-10=-50/0, 5-6=-32/0, 1-2=-8/0, 2-3=-8/0,

3-4=-8/0, 4-5=-8/0

**BOT CHORD** 9-10=0/8, 8-9=0/8, 7-8=0/8, 6-7=0/8 2-9=-131/0, 3-8=-138/0, 4-7=-113/0

WEBS

### NOTES

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.

LOAD CASE(S) Standard

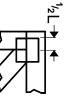


October 8,2025

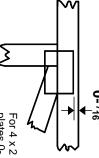


### Symbols

## 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

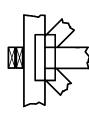
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## 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**



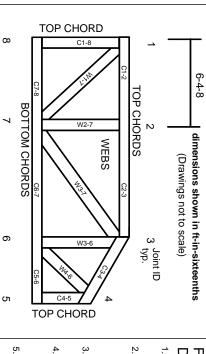
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### 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

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## 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.