

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

WALL SCHEDULE	
	1st Floor Walls
	2nd Floor Walls
	Non-Bearing Walls

Roof Area = 1799.65 sq.ft.
Ridge Line = 68.45 ft.
Hip Line = 0 ft.
Horiz. OH = 137.2 ft.
Raked OH = 253.86 ft.
Decking = 62 sheets


All Walls Shown Are Considered Load Bearing

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	12	NA	16d/3-1/2"	16d/3-1/2"

Truss Placement Plan
SCALE: N.T.S.

PLEASE NOTE:

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#.

<div></div> <div>ROOF & FLOOR TRUSSES & BEAMS</div> <div>Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444</div>	CUSTOMER (ACCOUNT)	New Home Inc	STREET	413 Beacon Hill Road	<div>THIS IS A TRUSS PLACEMENT DIAGRAM ONLY</div> <div>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</div>	LOAD CHART FOR JACK STUDS					
	(BUILDER)		CITY	Lillington, NC		(BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER					
	JOB NAME - LEVEL	Lot 26 Duncan's Creek - Roof	TAX AUTH.	NC- Harnett		END REACTION (UP TO) REQ'D STUDS FOR (2) FLY-HEADER	END REACTION (UP TO) REQ'D STUDS FOR (3) FLY-HEADER	END REACTION (UP TO) REQ'D STUDS FOR (4) FLY-HEADER			
	PLAN NAME	Wilson - D	SALES REP.	House Account		1700 1	2550 1	3400 1			
	PLAN SEAL DATE (EOR)	7/28/2025	DESIGNER (& ASST.)	Johnnie Baggett		3400 2	5100 2	6800 2			
	JOB # (OT REF)	250875 - B	PLAN REV. DATE	8/27/25		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						

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 250875-A
Lot 26 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: I75955959 thru I75955976

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

North Carolina COA: C-0844



August 27, 2025

Gilbert, Eric

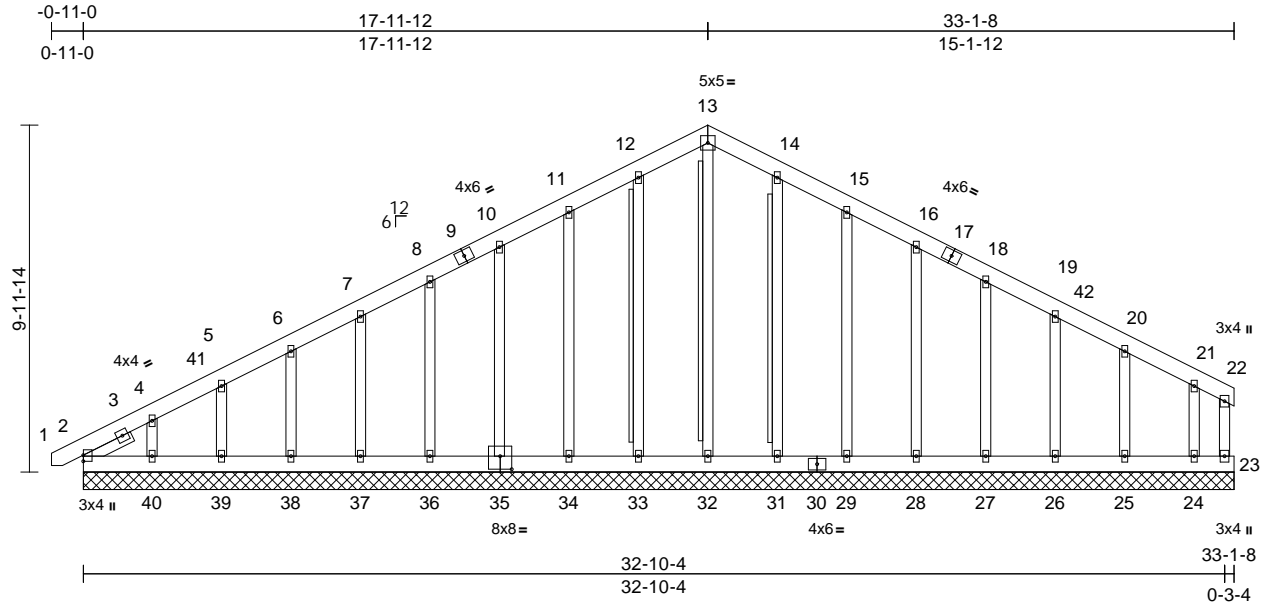
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 26 Duncan's Creek	I75955959
250875-A	A01GE	Common Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:01
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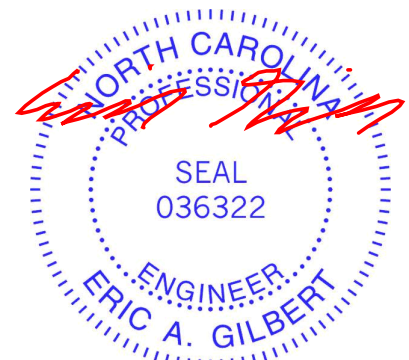
Page: 1



Scale = 1:66.3									
Plate Offsets (X, Y): [35:0-4-0,0-4-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	GRIP
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	23	244/190
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S					Weight: 293 lb FT = 20%

LUMBER									
TOP CHORD	2x6 SP No.1								
BOT CHORD	2x6 SP No.1								
WEBS	2x4 SP No.2								
OTHERS	2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF No.2(flat)								
SLIDER	Left 2x4 SP No.2 -- 1-6-4								
BRACING									
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.								
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.								
WEBS	T-Brace: 2x4 SPF No.2 - 13-32, 12-33, 14-31								
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.								
	Brace must cover 90% of web length.								
REACTIONS	(size)								
	2=33-1-8, 23=33-1-8, 24=33-1-8, 25=33-1-8, 26=33-1-8, 27=33-1-8, 28=33-1-8, 29=33-1-8, 31=33-1-8, 32=33-1-8, 33=33-1-8, 34=33-1-8, 35=33-1-8, 36=33-1-8, 37=33-1-8, 38=33-1-8, 39=33-1-8, 40=33-1-8								
Max Horiz	2=153 (LC 12)								
Max Uplift	2=-59 (LC 8), 24=-59 (LC 13), 25=-35 (LC 13), 26=-34 (LC 13), 27=-33 (LC 13), 28=-34 (LC 13), 29=-43 (LC 13), 31=-4 (LC 13), 33=-15 (LC 12), 34=-40 (LC 12), 35=-34 (LC 12), 36=-33 (LC 12), 37=-33 (LC 12), 38=-34 (LC 12), 39=-28 (LC 12), 40=-82 (LC 12)								
FORCES									
TOP CHORD	1-2=-8/0, 2-4=-175/124, 4-5=-115/108, 5-6=-104/112, 6-7=-93/149, 7-8=-81/207, 8-10=-83/265, 10-11=-103/323, 11-12=-126/387, 12-13=-139/422, 13-14=-139/422, 14-15=-126/387, 15-16=-103/323, 16-18=-83/264, 18-19=-63/208, 19-20=-43/143, 20-21=-29/56, 21-22=-25/14, 22-23=-22/0								
BOT CHORD	2-40=-4/21, 39-40=-4/21, 38-39=-4/21, 37-38=-4/21, 36-37=-4/21, 34-36=-4/21, 33-34=-4/21, 32-33=-4/21, 31-32=-4/21, 29-31=-4/21, 28-29=-4/21, 27-28=-4/21, 26-27=-4/21, 25-26=-4/21, 24-25=-4/21, 23-24=-4/21								
WEBS	13-32=-237/35, 12-33=-124/59, 11-34=-122/122, 10-35=-120/106, 8-36=-120/105, 7-37=-120/105, 6-38=-120/105, 5-39=-121/122, 4-40=-125/203, 14-31=-124/59, 15-29=-122/122, 16-28=-120/106, 18-27=-120/105, 19-26=-120/121, 20-25=-125/170, 21-24=-91/148								
NOTES									
1)	Unbalanced roof live loads have been considered for this design.								

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 17-11-12, Corner(3R) 17-11-12 to 22-4-9, Exterior(2N) 22-4-9 to 32-10-4 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



August 27, 2025

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	A01GE	Common Supported Gable	1	1	I75955959
Job Reference (optional)					

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2, 15 lb uplift at joint 33, 40 lb uplift at joint 34, 34 lb uplift at joint 35, 33 lb uplift at joint 36, 33 lb uplift at joint 37, 34 lb uplift at joint 38, 28 lb uplift at joint 39, 82 lb uplift at joint 40, 4 lb uplift at joint 31, 43 lb uplift at joint 29, 34 lb uplift at joint 28, 33 lb uplift at joint 27, 34 lb uplift at joint 26, 35 lb uplift at joint 25 and 59 lb uplift at joint 24.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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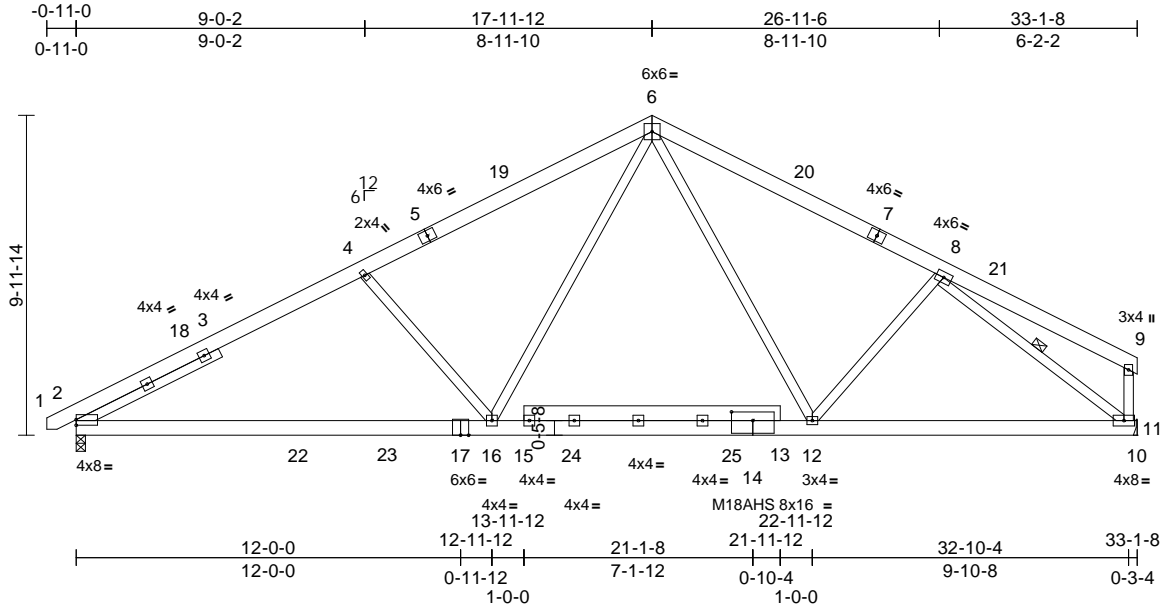
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek	I75955960
250875-A	A02	Common	10	1	Job Reference (optional)	

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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	0.38	Vert(LL)	-0.25	2-16	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.42	2-16	>942	240	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.05	11	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.04	12-16	>999	240	Weight: 255 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

SLIDER Left 2x4 SP No.2 -- 4-11-11

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.

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

WEBS 1 Row at midpt 8-11

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

Max Horiz 2=153 (LC 12)

Max Uplift 2=-3 (LC 12)

Max Grav 2=1655 (LC 2), 11=1618 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-8/0, 2-4=-2588/293, 4-6=-2313/272, 6-8=-1994/257, 8-9=-158/64, 9-11=-160/84

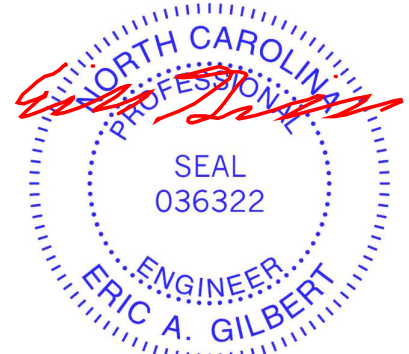
BOT CHORD 2-16=-229/2246, 12-16=-60/1486, 11-12=-151/1612, 10-11=0/0

WEBS 8-11=-1997/208, 6-16=0/1118, 6-12=0/533, 8-12=-101/262, 4-16=-475/323

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 17-11-12, Exterior(2R) 17-11-12 to 22-4-9, Interior (1) 22-4-9 to 32-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 17-11-12 from left end, supported at two points, 5-0-0 apart.
 - All plates are MT20 plates unless otherwise indicated.



August 27, 2025

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Edenton, NC 27932

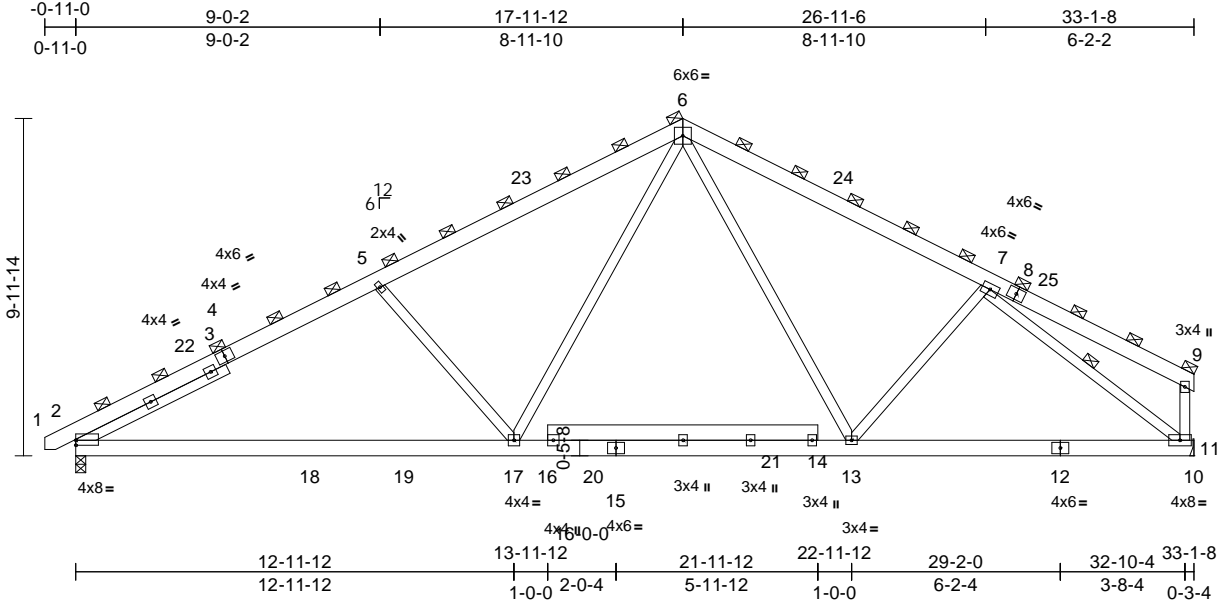
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek	175955961
250875-A	A03	Common	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:68.3

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

Loading	(psf)	Spacing	2-1-8	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.26	2-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.45	2-17	>871	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.04	13-17	>999	240	Weight: 255 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -- 4-11-11

BRACING

TOP CHORD 2-0-0 oc purlins (4-7-10 max.), except end verticals
 (Switched from sheeted: Spacing > 2-0-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 7-11

REACTIONS (size) 2=0-3-8, 11= Mechanical
 Max Horiz 2=163 (LC 12)
 Max Uplift 2=-99 (LC 12), 11=-69 (LC 13)
 Max Grav 2=1667 (LC 2), 11=1608 (LC 2)

FORCES

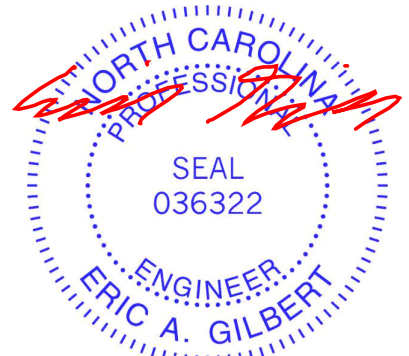
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 9-11=-170/90, 1-2=-8/0, 2-5=-2556/511,
 5-6=-2264/492, 6-7=-1934/464, 7-9=-171/67
 BOT CHORD 2-17=-417/2221, 13-17=-162/1447,
 11-13=-299/1578, 10-11=0/0
 WEBS 7-11=-1940/407, 6-17=-107/1086,
 6-13=-48/481, 7-13=-157/231, 5-17=-519/329

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 17-11-12, Exterior(2R) 17-11-12 to 22-4-9, Interior (1) 22-4-9 to 32-10-4 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 2 and 69 lb uplift at joint 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



August 27, 2025

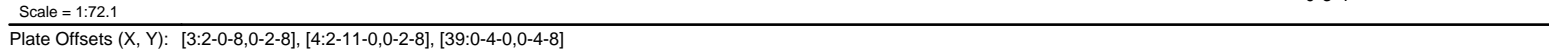
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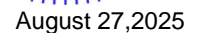
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Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:02 Page: 1
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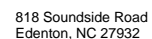
LUMBER		TOP CHORD	24-25=184/27, 1-2=-8/0, 2-3=-252/331, 3-4=-186/324, 4-6=-113/319, 6-7=-59/300,	Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior (1) 3-7-11 to 17-10-6, Exterior(2R) 17-10-6 to 21-11-12, Interior (1) 21-11-12 to 32-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x6 SP No.1		7-8=-29/346, 8-9=-43/427, 9-11=-13/477, 11-12=0/495, 12-13=0/446, 13-14=0/482,	
BOT CHORD	2x6 SP No.1		14-15=-267/322, 15-16=-284/289, 16-17=-255/235, 17-19=-226/173, 19-20=-213/142, 20-21=-196/151,	
WEBS	2x4 SP No.2		21-22=-181/124, 22-23=-47/49, 23-24=-152/22	
OTHERS	2x4 SP No.2			
SLIDER	Left 2x4 SP No.2 -- 4-11-11			
BRACING		BOT CHORD	2-44=-265/150, 43-44=-265/150, 42-43=-265/150, 41-42=-265/150, 40-41=-265/150, 38-40=-265/150, 37-38=-49/142, 36-37=-49/142, 35-36=-49/142, 34-35=-48/142, 32-34=-48/142, 31-32=-48/142, 30-31=-5/78, 29-30=-5/78, 28-29=-5/78, 27-28=-5/78, 26-27=-5/78, 25-26=-5/78	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.			
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.			
JOINTS	1 Brace at Jt(s): 45, 46, 49, 50			
REACTIONS	(size)	WEBS	38-46=-876/113, 45-46=-824/104, 14-45=-884/113, 14-49=-238/453, 49-50=-237/448, 31-50=-257/492, 31-51=0/218, 51-52=0/191, 20-52=0/220, 8-48=-216/73, 47-48=-220/73, 38-47=-241/80, 14-35=-26/131, 13-45=-44/71, 36-45=-101/73, 12-46=-230/116, 37-46=-173/114, 11-47=-94/95, 39-47=-77/86, 9-48=-52/55, 40-48=-49/60, 7-41=-31/87, 6-42=-151/106, 4-43=-132/105, 3-44=-121/107, 15-49=-26/59, 34-49=-20/58, 16-50=-184/99, 32-50=-232/121, 17-51=-185/116, 30-51=-219/108, 19-52=-96/43, 29-52=-57/36, 21-28=-160/49, 22-27=-419/146, 23-26=0/181	
	2=14-3-8, 25=5-0-0, 26=5-0-0, 27=5-0-0, 37=14-3-8, 38=14-3-8, 39=14-3-8, 40=14-3-8, 41=14-3-8, 42=14-3-8, 43=14-3-8, 44=14-3-8			
	Max Horiz			
	2=241 (LC 12)			
	Max Uplift			
	2=-112 (LC 26), 25=-54 (LC 13), 26=-642 (LC 1), 27=-192 (LC 13), 37=-130 (LC 12), 38=-141 (LC 13), 39=-71 (LC 12), 40=-28 (LC 12), 41=-46 (LC 26), 42=-82 (LC 12), 43=-80 (LC 12), 44=-86 (LC 12)			
	Max Grav			
	2=87 (LC 12), 25=437 (LC 1), 26=49 (LC 13), 27=941 (LC 1), 37=540 (LC 1), 38=706 (LC 1), 39=155 (LC 25), 40=86 (LC 25), 41=71 (LC 25), 42=191 (LC 1), 43=170 (LC 1), 44=168 (LC 1)			
FORCES	(lb) - Maximum Compression/Maximum Tension			

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



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 26 Duncan's Creek
250875-A	A04GE	Common	1	1	I75955962
Job Reference (optional)					

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2, 54 lb uplift at joint 25, 141 lb uplift at joint 38, 130 lb uplift at joint 37, 71 lb uplift at joint 39, 28 lb uplift at joint 40, 46 lb uplift at joint 41, 82 lb uplift at joint 42, 80 lb uplift at joint 43, 86 lb uplift at joint 44, 192 lb uplift at joint 27 and 642 lb uplift at joint 26.
- LOAD CASE(S)** Standard

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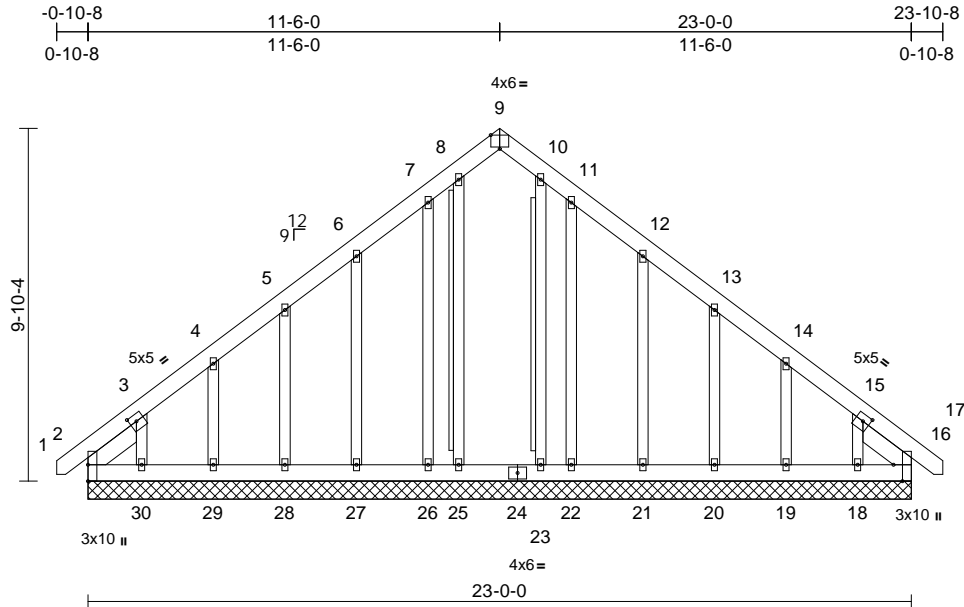
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	B01GE	Common Supported Gable	1	1	Job Reference (optional)
					I75955963

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Scale = 1:64.4

Plate Offsets (X, Y): [3:0-2-5,0-2-4], [9:0-3-0,Edge], [15:0-2-5,0-2-4], [16:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	16	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 225 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2 *Except* 0-0,0-0:2x4 SPF No.2 (flat)
SLIDER Left 2x6 SP No.2 -- 1-9-12, Right 2x6 SP No.2 -- 1-9-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 8-25, 10-23
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size) 2=23-0-0, 16=23-0-0, 18=23-0-0, 19=23-0-0, 20=23-0-0, 21=23-0-0, 22=23-0-0, 23=23-0-0, 25=23-0-0, 26=23-0-0, 27=23-0-0, 28=23-0-0, 29=23-0-0, 30=23-0-0
Max Horiz 2=224 (LC 9)
Max Uplift 2=-92 (LC 10), 16=-44 (LC 11), 18=-130 (LC 13), 19=-57 (LC 13), 20=-53 (LC 13), 21=-66 (LC 13), 22=-42 (LC 13), 26=-42 (LC 12), 27=-64 (LC 12), 28=-53 (LC 12), 29=-58 (LC 12), 30=-139 (LC 12)
Max Grav 2=210 (LC 9), 16=189 (LC 22), 18=209 (LC 20), 19=208 (LC 20), 20=203 (LC 20), 21=215 (LC 20), 22=121 (LC 20), 23=178 (LC 22), 25=191 (LC 19), 26=120 (LC 19), 27=211 (LC 19), 28=203 (LC 19), 29=208 (LC 19), 30=222 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-9/0, 2-3=-344/200, 3-4=-179/136, 4-5=-137/105, 5-6=-124/85, 6-7=-113/121, 7-8=-119/179, 8-9=-107/149, 9-10=-107/149, 10-11=-119/179, 11-12=-93/121, 12-13=-88/35, 13-14=-100/56, 14-15=-171/86, 15-16=-339/169, 16-17=-9/0
BOT CHORD 2-30=-124/254, 29-30=-124/254, 28-29=-124/254, 27-28=-124/254, 26-27=-124/254, 25-26=-124/254, 23-25=-124/254, 22-23=-124/254, 21-22=-124/254, 20-21=-124/254, 19-20=-124/254, 18-19=-124/254, 16-18=-124/254
WEBS 8-25=-81/13, 10-23=-69/4, 7-26=-96/84, 6-27=-136/140, 5-28=-135/116, 4-29=-138/138, 3-30=-158/223, 11-22=-96/84, 12-21=-140/140, 13-20=-134/116, 14-19=-137/138, 15-18=-158/222

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) and C-C Corner(3E) -0-9-0 to 3-6-0, Exterior(2N) 3-6-0 to 11-6-0, Corner(3R) 11-6-0 to 15-10-13, Exterior(2N) 15-10-13 to 23-9-0 zone;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.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2, 44 lb uplift at joint 16, 42 lb uplift at joint 26, 64 lb uplift at joint 27, 53 lb uplift at joint 28, 58 lb uplift at joint 29, 139 lb uplift at joint 30, 42 lb uplift at joint 22, 66 lb uplift at joint 21, 53 lb uplift at joint 20, 57 lb uplift at joint 19 and 130 lb uplift at joint 18.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



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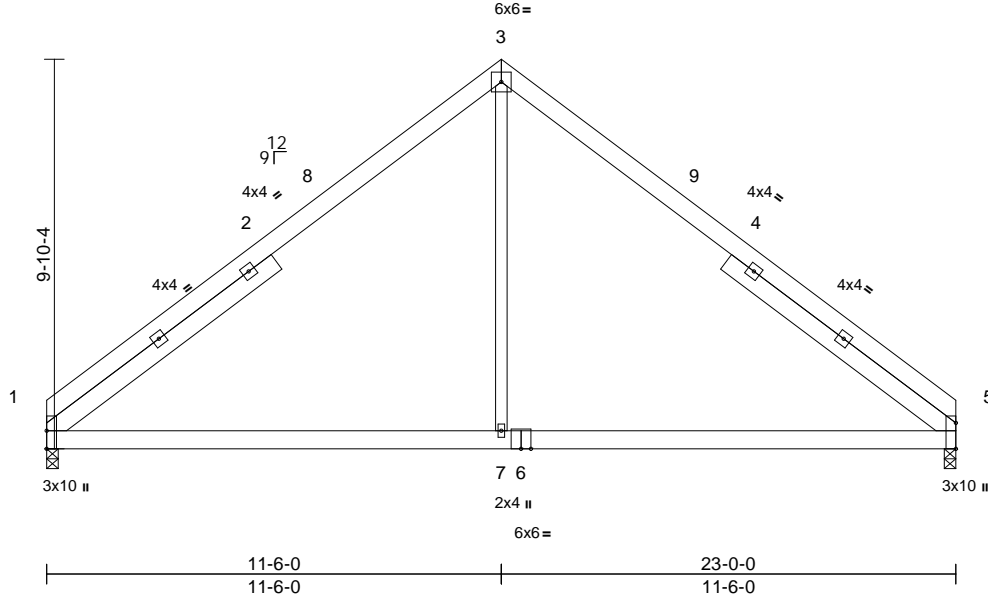
Job 250875-A	Truss B02	Truss Type Common	Qty 1	Ply 1	Lot 26 Duncan's Creek Job Reference (optional)	I75955964
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Scale = 1:58.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.08	5-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.17	5-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	1-7	>999	240	Weight: 169 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 7-2-9, Right 2x6 SP No.2 -- 7-2-9

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1 and 42 lb uplift at joint 5.

LOAD CASE(S) Standard

BRACING

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

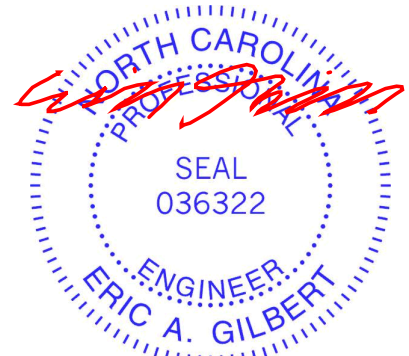
REACTIONS (size) 1=0-3-8, 5=0-3-8
Max Horiz 1=224 (LC 9)
Max Uplift 1=-42 (LC 12), 5=-42 (LC 13)
Max Grav 1=920 (LC 1), 5=920 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-1000/232, 3-5=-1000/232
BOT CHORD 1-7=0/659, 5-7=0/659
WEBS 3-7=0/542

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior (1) 4-4-13 to 11-6-0, Exterior(2R) 11-6-0 to 15-10-13, Interior (1) 15-10-13 to 23-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



August 27, 2025

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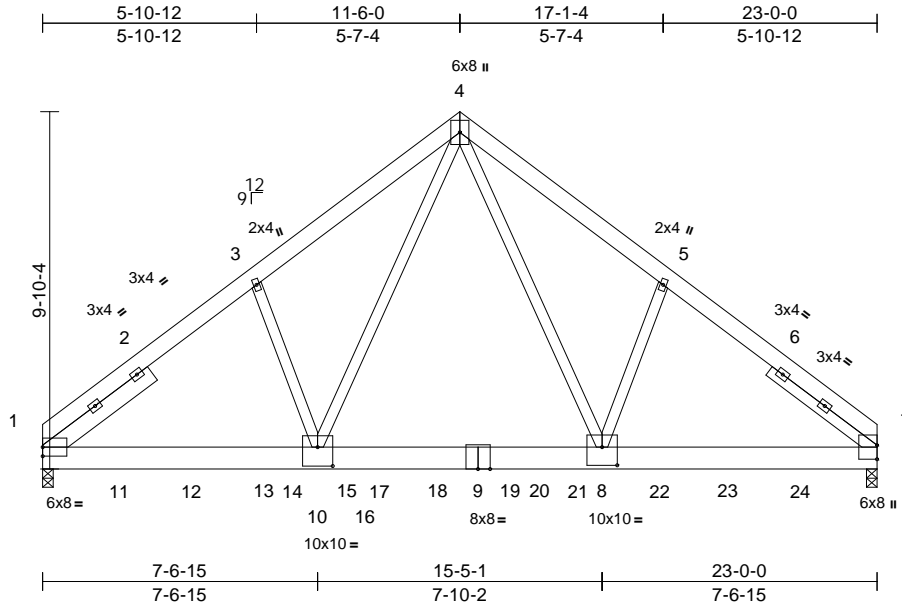
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	B03-GR	Common Girder	1	3	175955965
Job Reference (optional)					

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Scale = 1:63.5

Plate Offsets (X, Y): [8:0-5-0,0-6-0], [10:0-5-0,0-6-4]

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	0.78	Vert(LL)	-0.12	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.22	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.02	7-8	>999	240	Weight: 589 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 3-7-11, Right 2x4 SP No.2 -- 3-7-11

BRACING

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

REACTIONS

(size)	1=0-3-8, 7=0-3-8
Max Horiz	1=-222 (LC 25)
Max Grav	1=10922 (LC 2), 7=10070 (LC 2)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=-13565/0, 3-4=-13156/0, 4-5=-11985/0, 5-7=-12384/0
BOT CHORD	1-10=0/10334, 8-10=0/7069, 7-8=0/9392
WEBS	3-10=0/932, 4-10=0/9029, 4-8=0/6610, 5-8=0/884

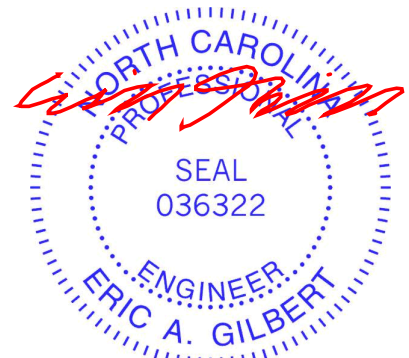
NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1583 lb down at 2-1-4, 1583 lb down at 4-1-4, 1583 lb down at 6-1-4, 1583 lb down at 6-10-12, 1582 lb down at 8-4-12, 1574 lb down at 8-10-12, 1553 lb down at 10-10-12, 1556 lb down at 12-10-12, 1571 lb down and 81 lb up at 14-9-4, 1571 lb down and 81 lb up at 17-0-4, and 1583 lb down at 18-10-12, and 1583 lb down at 20-10-12 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: 1-4=-60, 4-7=-60, 1-7=-20
Concentrated Loads (lb)
Vert: 11=-1408 (B), 12=-1408 (B), 13=-1408 (B), 14=-1408 (B), 15=-1408 (B), 16=-1408 (B), 18=-1408 (B), 19=-1408 (B), 21=-1380 (B), 22=-1380 (B), 23=-1408 (B), 24=-1408 (B)



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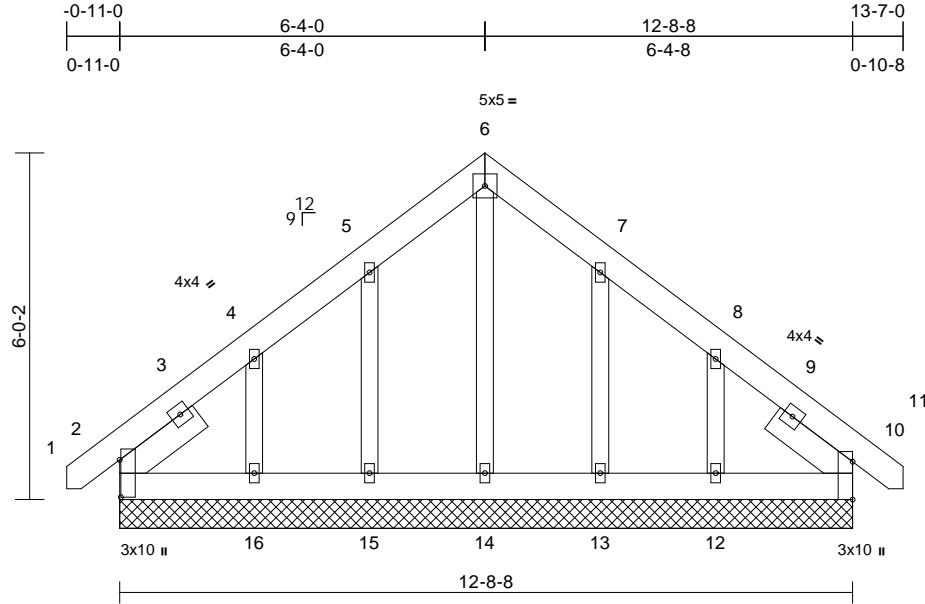
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek	
250875-A	C01GE	Common Supported Gable	1	1	Job Reference (optional)	I75955966

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Scale = 1:39.9

Plate Offsets (X, Y): [2:0-7-12,0-0-4]

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	0.04	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							
										Weight: 105 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-8-9, Right 2x6 SP No.2 -- 1-8-3

BRACING

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

REACTIONS (size)	2=12-8-8, 10=12-8-8, 12=12-8-8, 13=12-8-8, 14=12-8-8, 15=12-8-8, 16=12-8-8
Max Horiz	2=-131 (LC 8)
Max Uplift	2=-34 (LC 8), 10=-4 (LC 9), 12=-98 (LC 13), 13=-38 (LC 13), 15=-39 (LC 12), 16=-103 (LC 12)
Max Grav	2=184 (LC 20), 10=171 (LC 1), 12=213 (LC 20), 13=167 (LC 20), 14=118 (LC 22), 15=169 (LC 19), 16=216 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-9/0, 2-4=-156/86, 4-5=-108/86, 5-6=-167/161, 6-7=-167/160, 7-8=-108/87, 8-10=-128/50, 10-11=-9/0
BOT CHORD	2-16=-56/86, 15-16=-56/86, 14-15=-56/86, 13-14=-56/86, 12-13=-56/86, 10-12=-56/86
WEBS	6-14=-104/62, 5-15=-141/100, 4-16=-207/169, 7-13=-140/99, 8-12=-209/169

NOTES

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner (3) -0-9-8 to 3-7-5, Exterior (2) 3-7-5 to 6-4-0, Corner (3) 6-4-0 to 10-8-13, Exterior (2) 10-8-13 to 13-5-8 zone;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.
- 4) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2, 4 lb uplift at joint 10, 39 lb uplift at joint 15, 103 lb uplift at joint 16, 38 lb uplift at joint 13 and 98 lb uplift at joint 12.

LOAD CASE(S) Standard



August 27, 2025

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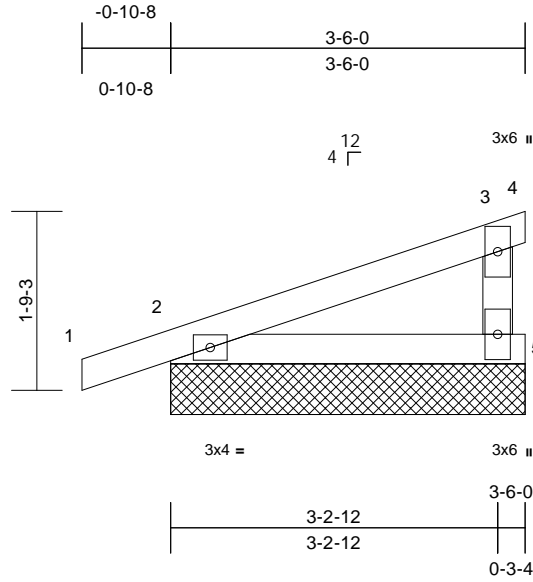
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	M01GE	GABLE	1	1	Job Reference (optional)
					I75955967

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

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Scale = 1:22.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 13 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=3-6-0, 4=3-6-0, 5=3-6-0
Max Horiz 2=51 (LC 8)
Max Uplift 2=-37 (LC 8), 4=-186 (LC 1), 5=-112 (LC 12)
Max Grav 2=173 (LC 1), 4=80 (LC 12), 5=340 (LC 1)

FORCES

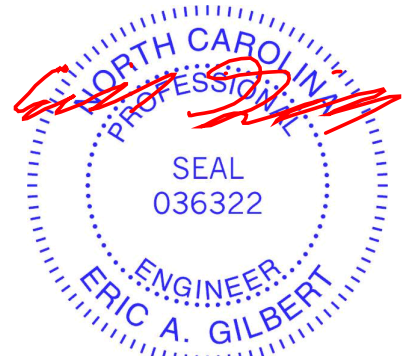
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-95/40, 3-4=-69/121, 3-5=-340/631
BOT CHORD 2-5=0/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 4, 112 lb uplift at joint 5 and 37 lb uplift at joint 2.
- LOAD CASE(S)** Standard



August 27, 2025

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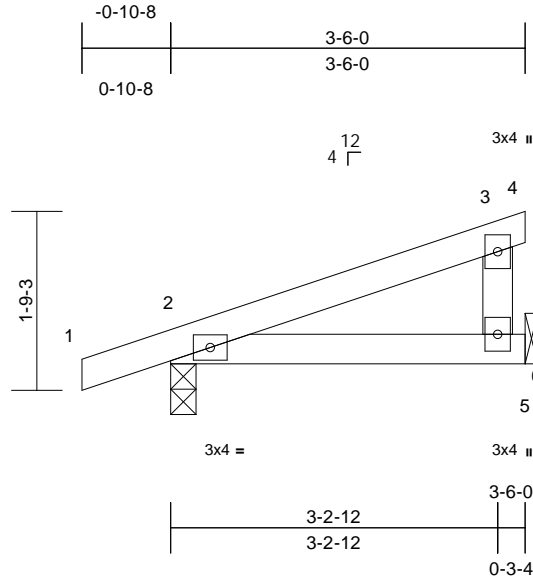
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	M02	MONOPITCH	5	1	175955968
Job Reference (optional)					

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Scale = 1:22.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.01	2-6	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 6= Mechanical
Max Horiz 2=51 (LC 8)
Max Uplift 2=-83 (LC 8), 6=-50 (LC 8)
Max Grav 2=193 (LC 1), 6=126 (LC 1)

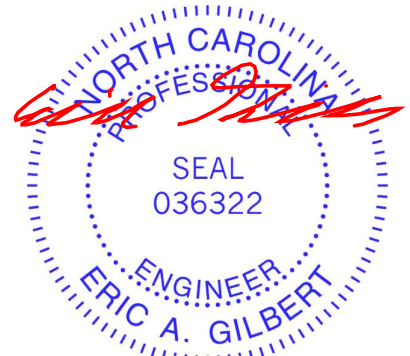
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-58/28, 3-4=-2/0, 3-6=-96/134
BOT CHORD 2-6=0/0, 5-6=0/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch 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 50 lb uplift at joint 6 and 83 lb uplift at joint 2.

LOAD CASE(S) Standard



August 27, 2025

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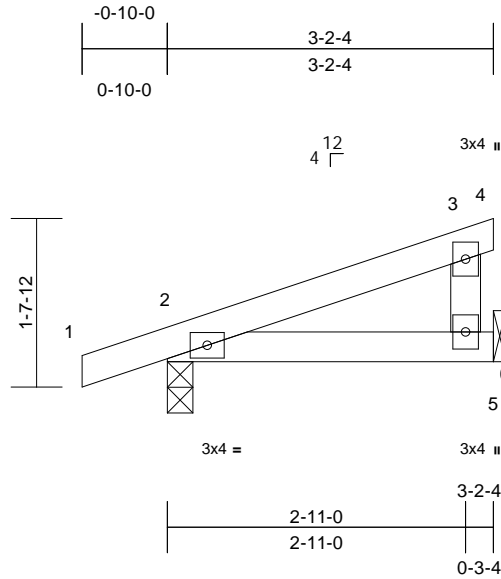
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	M03	Monopitch	6	1	I75955969
Job Reference (optional)					

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Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.00	2-6	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 6= Mechanical
Max Horiz 2=47 (LC 8)
Max Uplift 2=-77 (LC 8), 6=-44 (LC 8)
Max Grav 2=179 (LC 1), 6=113 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/14, 2-3=-53/26, 3-4=-2/0, 3-6=-87/122
BOT CHORD 2-6=0/0, 5-6=0/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; porch 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 44 lb uplift at joint 6 and 77 lb uplift at joint 2.

LOAD CASE(S) Standard



August 27, 2025

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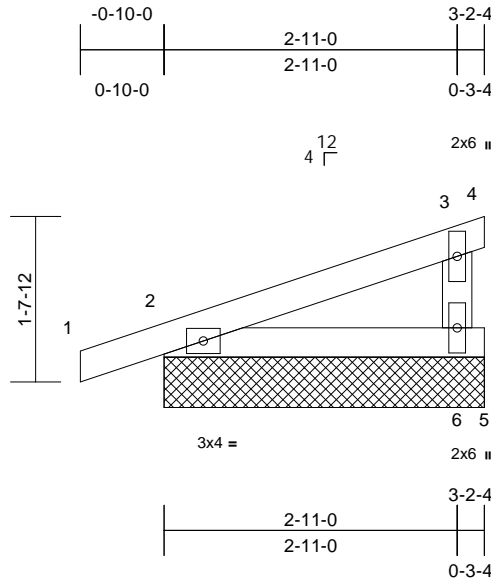
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	M04GE	Monopitch Supported Gable	1	1	Job Reference (optional)
					I75955970

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:22.9

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 12 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=3-2-4, 4=3-2-4, 5=3-2-4, 6=3-2-4
Max Horiz 2=47 (LC 8)
Max Uplift 2=-40 (LC 8), 4=-144 (LC 1),
5=-138 (LC 3), 6=-44 (LC 12)
Max Grav 2=153 (LC 1), 4=63 (LC 12), 5=-42
(LC 8), 6=366 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

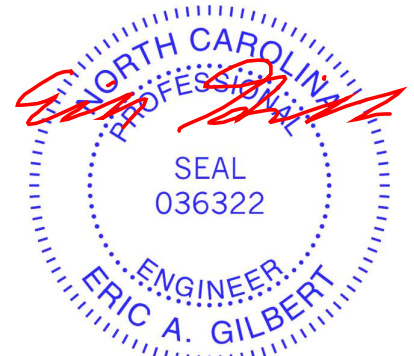
TOP CHORD 1-2=0/14, 2-3=-86/36, 3-4=-56/94
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-286/524

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) and C-C
Corner(3E) zone; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 0.0psf
on the bottom chord in all areas where a rectangle 0-00
tall by 0-00 wide will fit between the bottom chord and
any other members.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 144 lb uplift at joint
4, 40 lb uplift at joint 2, 138 lb uplift at joint 5 and 44 lb
uplift at joint 6.
- 8) Beveled plate or shim required to provide full bearing
surface with truss chord at joint(s) 2.

LOAD CASE(S) Standard



August 27, 2025

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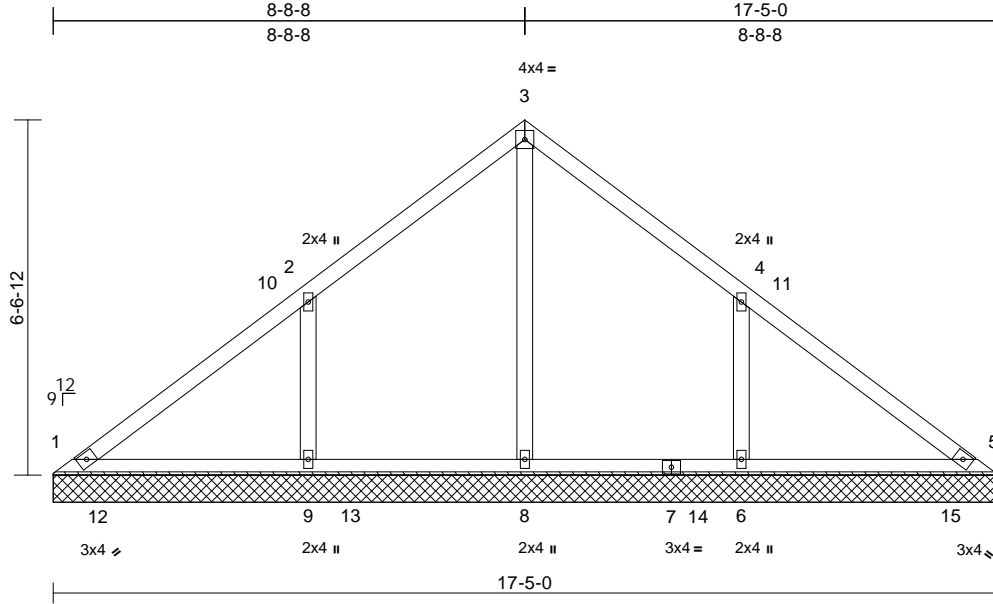
818 Soundside Road
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Job 250875-A	Truss V1	Truss Type Valley	Qty 1	Ply 1	Lot 26 Duncan's Creek Job Reference (optional)	I75955971
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Page: 1



Scale = 1:42.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 75 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=17-5-0, 5=17-5-0, 6=17-5-0, 8=17-5-0, 9=17-5-0
Max Horiz 1=-149 (LC 8)
Max Uplift 1=-4 (LC 8), 6=-138 (LC 13), 9=-138 (LC 12)
Max Grav 1=187 (LC 20), 5=166 (LC 19), 6=539 (LC 20), 8=399 (LC 22), 9=539 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-145/117, 2-3=-142/147, 3-4=-130/140, 4-5=-109/81
BOT CHORD 1-9=-50/98, 8-9=-50/98, 6-8=-50/98, 5-6=-50/98
WEBS 3-8=-150/0, 2-9=-330/248, 4-6=-330/248

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-9-0, Interior (1) 4-9-0 to 8-9-0, Exterior(2R) 8-9-0 to 13-1-13, Interior (1) 13-1-13 to 17-0-11 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 138 lb uplift at joint 9 and 138 lb uplift at joint 6.

LOAD CASE(S) Standard



August 27, 2025

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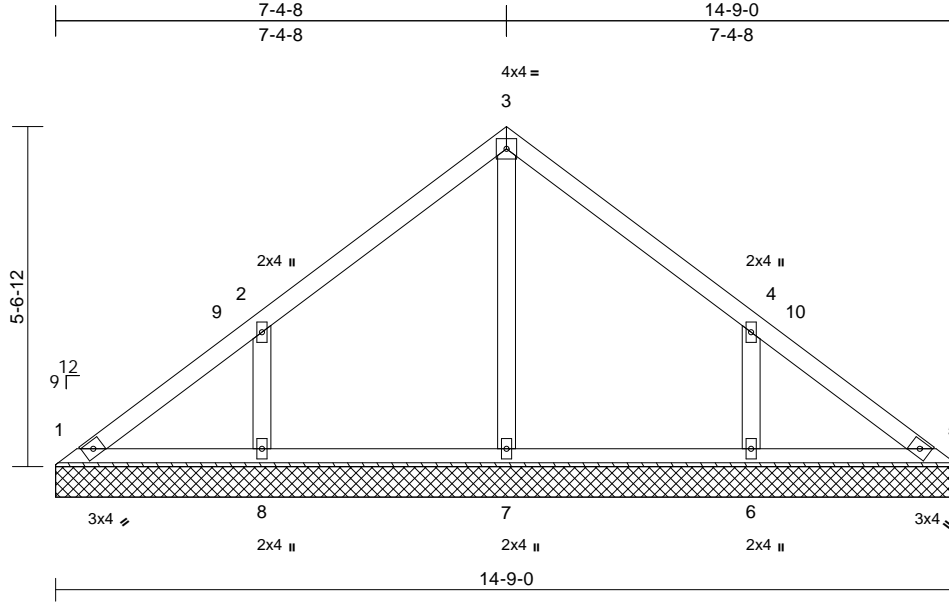
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Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	V2	Valley	1	1	Job Reference (optional)
					I75955972

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:03
ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=14-9-0, 5=14-9-0, 6=14-9-0, 7=14-9-0, 8=14-9-0
Max Horiz 1=125 (LC 9)
Max Uplift 1=-15 (LC 8), 6=-117 (LC 13), 8=-117 (LC 12)
Max Grav 1=128 (LC 20), 5=111 (LC 1), 6=358 (LC 20), 7=245 (LC 1), 8=358 (LC 19)

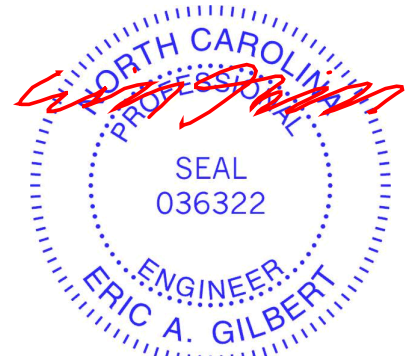
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-125/98, 2-3=-138/136, 3-4=-125/129, 4-5=-95/58
BOT CHORD 1-8=-38/84, 7-8=-38/84, 6-7=-38/84, 5-6=-38/84
WEBS 3-7=-165/0, 2-8=-278/245, 4-6=-278/245

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior (1) 4-10-1 to 7-5-0, Exterior(2R) 7-5-0 to 11-9-13, Interior (1) 11-9-13 to 14-4-11 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 117 lb uplift at joint 8 and 117 lb uplift at joint 6.
- LOAD CASE(S)** Standard



August 27, 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)

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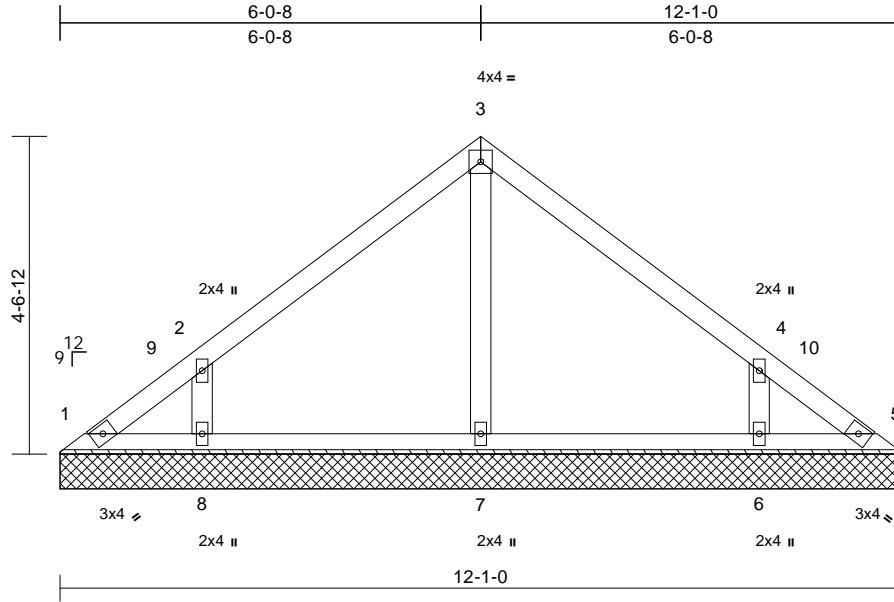
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	V3	Valley	1	1	Job Reference (optional)
					I75955973

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Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:03
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Scale = 1:33.1

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 48 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=12-1-0, 5=12-1-0, 6=12-1-0, 7=12-1-0, 8=12-1-0
Max Horiz 1=102 (LC 11)
Max Uplift 1=-36 (LC 10), 5=-16 (LC 11), 6=-107 (LC 13), 8=-107 (LC 12)
Max Grav 1=69 (LC 20), 5=54 (LC 19), 6=319 (LC 20), 7=253 (LC 1), 8=319 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-106/88, 2-3=-135/121, 3-4=-125/115, 4-5=-87/55
BOT CHORD 1-8=-27/67, 7-8=-27/67, 6-7=-27/67, 5-6=-27/67
WEBS 3-7=-167/30, 2-8=-257/265, 4-6=-257/265

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior (1) 4-10-1 to 6-1-0, Exterior(2R) 6-1-0 to 10-5-13, Interior (1) 10-5-13 to 11-8-11 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 16 lb uplift at joint 5, 107 lb uplift at joint 8 and 107 lb uplift at joint 6.

LOAD CASE(S) Standard



August 27, 2025

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

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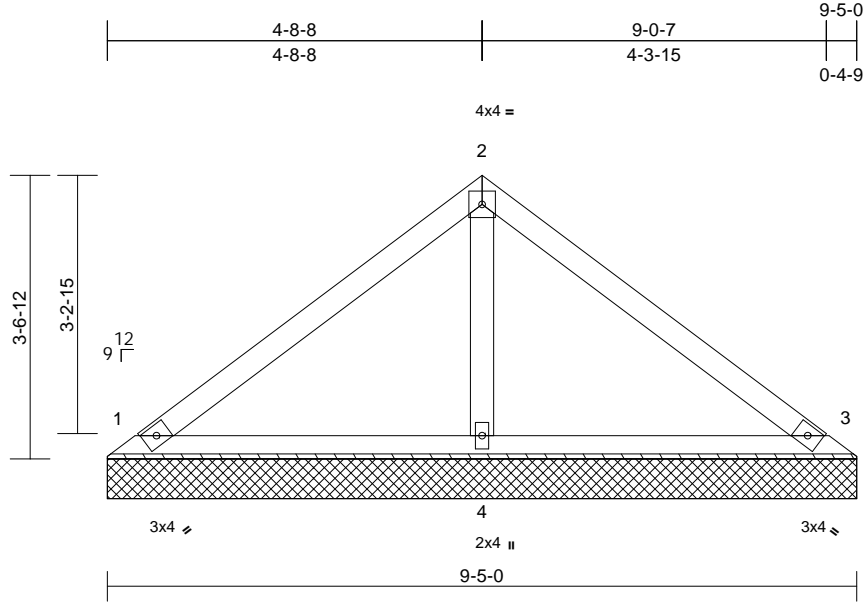
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek	
250875-A	V4	Valley	1	1	Job Reference (optional)	I75955974

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:03
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Scale = 1:29

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)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 34 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=9-5-0, 3=9-5-0, 4=9-5-0
Max Horiz 1=78 (LC 9)
Max Uplift 1=-21 (LC 12), 3=-28 (LC 13)
Max Grav 1=178 (LC 1), 3=178 (LC 1), 4=334 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

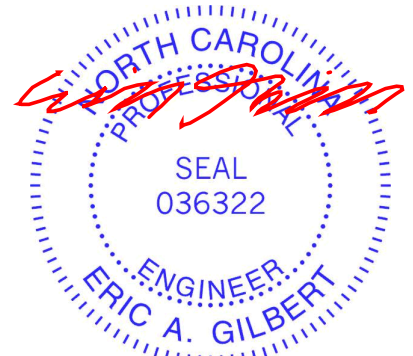
TOP CHORD 1-2=-139/85, 2-3=-132/89
BOT CHORD 1-4=-15/61, 3-4=-15/61
WEBS 2-4=-206/127

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 28 lb uplift at joint 3.

LOAD CASE(S) Standard



August 27, 2025

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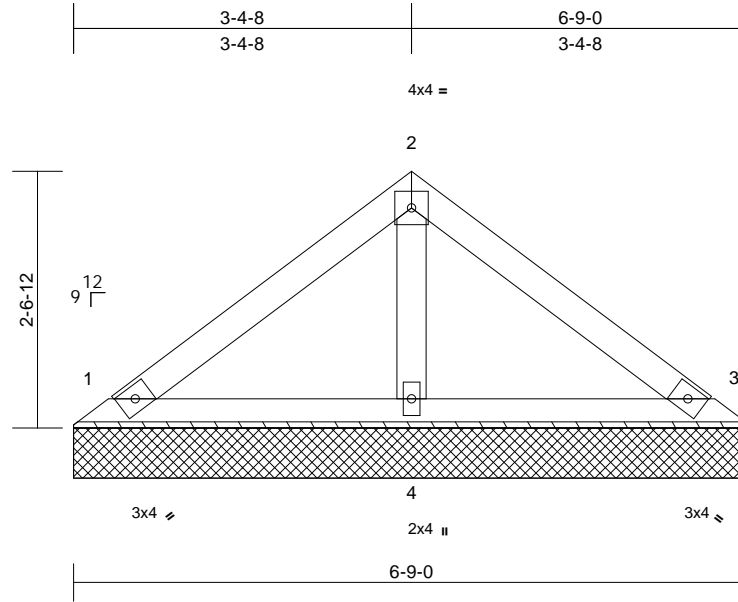
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	V5	Valley	1	1	Job Reference (optional)
					I75955975

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:04

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Scale = 1:23

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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-P							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=6-9-0, 3=6-9-0, 4=6-9-0
Max Horiz	1=-54 (LC 10)
Max Uplift	1=-21 (LC 12), 3=-26 (LC 13)
Max Grav	1=134 (LC 1), 3=134 (LC 1), 4=209 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

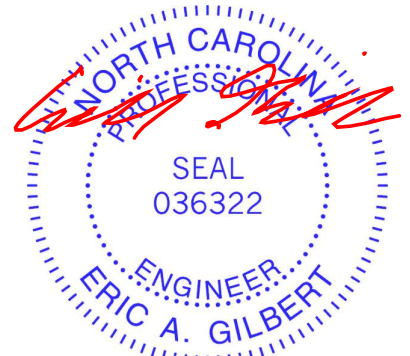
TOP CHORD	1-2=-87/66, 2-3=-80/67
BOT CHORD	1-4=-11/39, 3-4=-11/39
WEBS	2-4=-135/97

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 26 lb uplift at joint 3.

LOAD CASE(S) Standard



August 27, 2025

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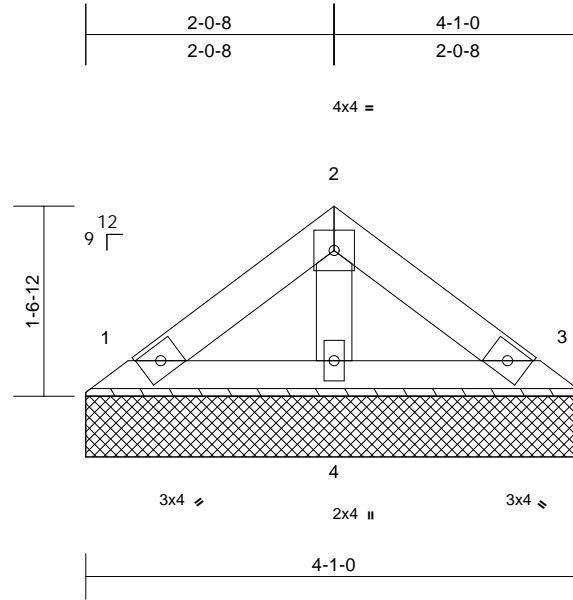
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-A	V6	Valley	1	1	Job Reference (optional)
					I75955976

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:04

Page: 1

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Scale = 1:18.9

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 14 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 1=4-1-0, 3=4-1-0, 4=4-1-0
Max Horiz 1=30 (LC 11)
Max Uplift 1=-11 (LC 12), 3=-14 (LC 13)
Max Grav 1=74 (LC 1), 3=74 (LC 1), 4=115 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-48/40, 2-3=-44/41
BOT CHORD 1-4=-6/21, 3-4=-6/21
WEBS 2-4=-74/61

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1 and 14 lb uplift at joint 3.

LOAD CASE(S) Standard



August 27, 2025

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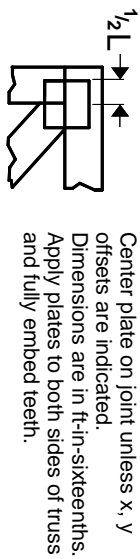
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Symbols

PLATE LOCATION AND ORIENTATION



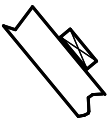
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

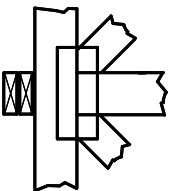
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

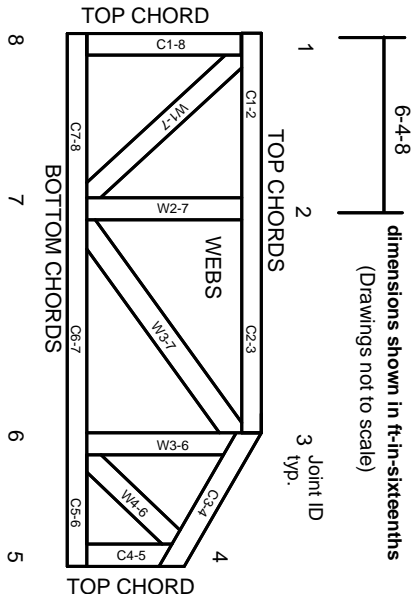


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

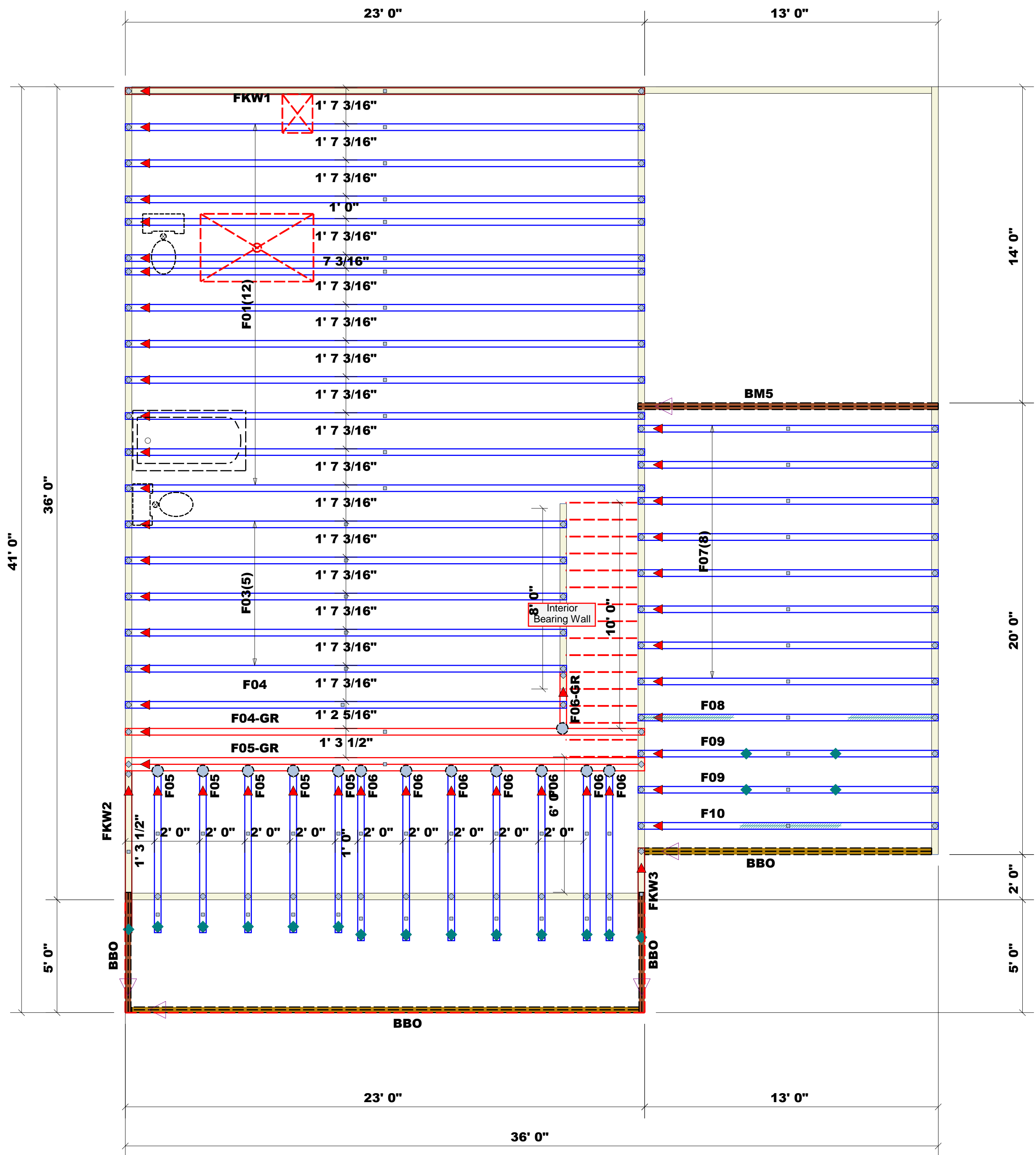
Failure to Follow Could Cause Property Damage or Personal Injury

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

MITek

ENGINEERING BY
TRENCO
A MITek Affiliate

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



Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 19.2" oc.

Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

WALL SCHEDULE	
	1st Floor Walls
	2nd Floor Walls
	Non-Bearing Walls

All Walls Shown Are
Considered Load Bearing

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	MSH422	USP	13	Varies	10d/3"	10d/3"

Truss Placement Plan
SCALE: N.T.S.

PLEASE NOTE:

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#.



ROOF & FLOOR
TRUSSES & BEAMS

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

CUSTOMER (ACCOUNT)	A & G Residential, LLC	STREET	288 Arabia Road
(BUILDER)		CITY	Raeford, NC 28376
JOB NAME - LEVEL	Lot 4 Arabia Farms - Floor	TAX AUTH.	NC - Hoke
PLAN NAME	Sophia B RF2	SALES REP.	Marshall Naylor ()
PLAN SEAL DATE (EOR)	7/28/2025	DESIGNER (& ASST.)	Marshall Naylor (Bruce McLaurin)
JOB # (OT REF)	J0625-3186 - A	PLAN REV. DATE	7/30/2025

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

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))
NUMBER OF JACK STUDS REQUIRED @ EA END OF
HEADER/GIRDER

END REACTION (UP TO)	REQ'D STUDS FOR (2) FLY-HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) FLY-HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (4) FLY-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				

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 250875-B
Lot 26 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: I75956013 thru I75956027

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

North Carolina COA: C-0844

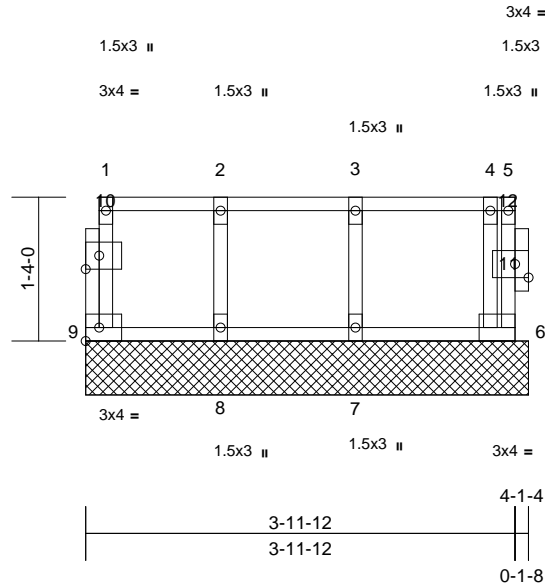


August 27, 2025

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 26 Duncan's Creek
250875-B	FKW3	Floor Supported Gable	1	1	Job Reference (optional)
					I75956013



Scale = 1:21.4

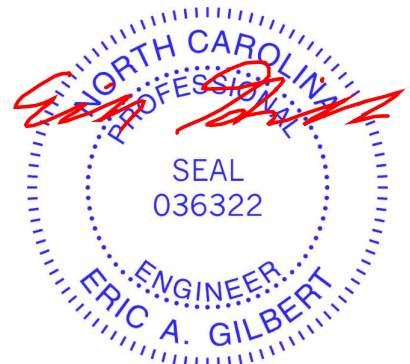
Plate Offsets (X, Y): [10:0-1-8,0-1-8], [11:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	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	NO	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 22 lb	FT = 20%F, 11%E

- LUMBER**
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 6-9=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 6=-400 (F)

- BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 6=4-1-4, 7=4-1-4, 8=4-1-4, 9=4-1-4
Max Grav 6=478 (LC 1), 7=149 (LC 1), 8=127 (LC 1), 9=56 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-49/0, 5-6=0/16, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0, 4-5=-4/0
BOT CHORD 8-9=0/10, 7-8=0/10, 6-7=0/10
WEBS 2-8=-118/0, 3-7=-134/0, 4-6=-89/0

- NOTES**
1) Plates checked for a plus or minus 1 degree rotation about its center.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-3-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 400 lb down at 3-10-0 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
7) 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

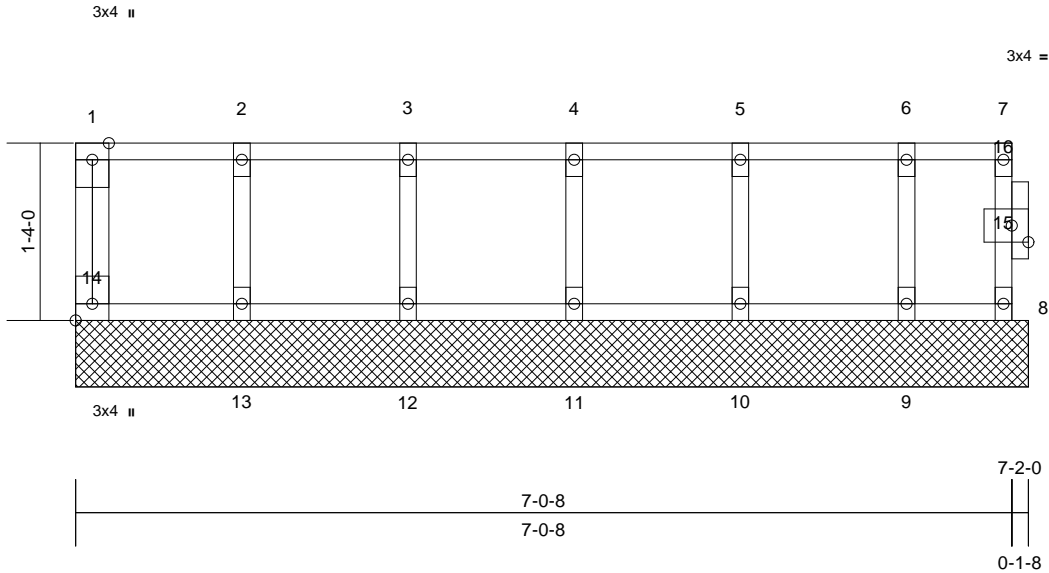


August 27,2025

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	FKW2	Floor Supported Gable	1	1	Job Reference (optional)
					I75956014

Comtech, Inc, Fayetteville, NC - 28314,
Run: 25.30 S Aug 20 2025
Print: 25.3.0 S Aug 20 2025
MiTek Industries, Inc. Wed Aug 27 12:45:21
Page: 1

ID:HVJPI?QcqmDWmvVu0ooQVzjr0v-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:17.3									
Plate Offsets (X, Y): [14:Edge,0-1-8], [15:0-1-8,0-1-8]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	8	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R					
						PLATES	GRIP		
						MT20	244/190		
						Weight: 35 lb	FT = 20%F, 11%E		

LUMBER	
TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
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)	
	8=7-2-0, 9=7-2-0, 10=7-2-0, 11=7-2-0, 12=7-2-0, 13=7-2-0, 14=7-2-0
Max Grav	8=427 (LC 1), 9=89 (LC 1), 10=114 (LC 1), 11=109 (LC 1), 12=110 (LC 1), 13=111 (LC 1), 14=43 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-14=-40/0, 7-8=-22/0, 1-2=-3/0, 2-3=-3/0, 3-4=-3/0, 4-5=-3/0, 5-6=-3/0, 6-7=-3/0
BOT CHORD	13-14=0/3, 12-13=0/3, 11-12=0/3, 10-11=0/3, 9-10=0/3, 8-9=0/3
WEBS	2-13=-100/0, 3-12=-100/0, 4-11=-99/0, 5-10=-103/0, 6-9=-83/0

- NOTES**
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - 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 1-3-0 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.
 - CAUTION, Do not erect truss backwards.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 400 lb down at 6-11-12 on bottom 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: 8-14=-8, 1-7=-80
Concentrated Loads (lb)
Vert: 8=-400 (F)



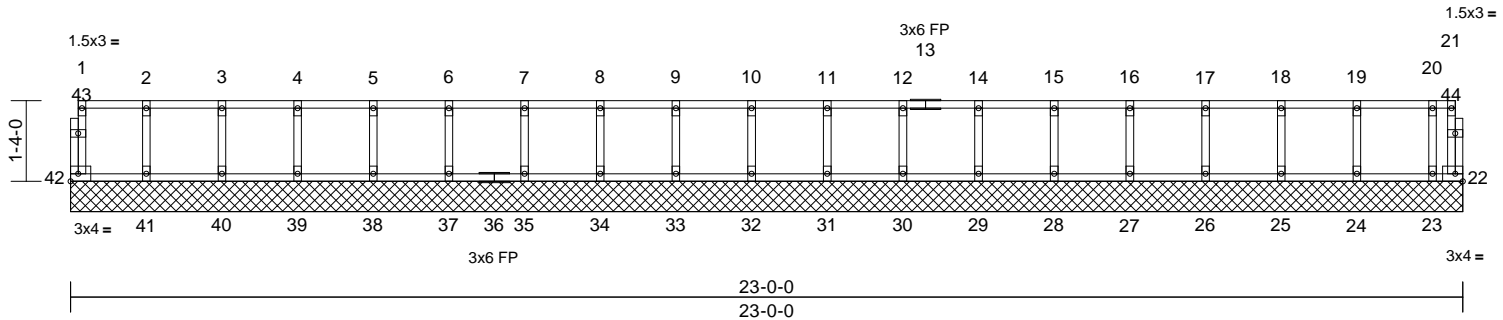
August 27,2025

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	FKW1	Floor Supported Gable	1	1	Job Reference (optional)
					I75956015

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Page: 1



Scale = 1:38.1

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	22	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							
Weight: 103 lb FT = 20%F, 11%E											

LUMBER		WEBS	2-41=-124/0, 3-40=-126/0, 4-39=-125/0, 5-38=-125/0, 6-37=-125/0, 7-35=-125/0, 8-34=-125/0, 9-33=-125/0, 10-32=-125/0, 11-31=-125/0, 12-30=-125/0, 14-29=-125/0, 15-28=-125/0, 16-27=-125/0, 17-26=-125/0, 18-25=-124/0, 19-24=-130/0, 20-23=-93/0
TOP CHORD	2x4 SP No.1(flat)		
BOT CHORD	2x4 SP No.1(flat)		
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

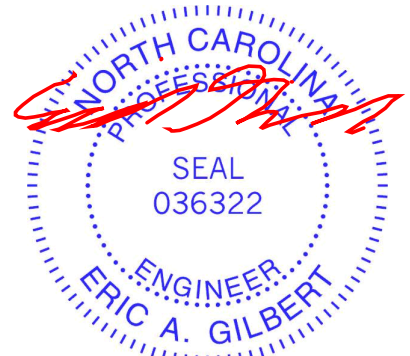
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size)	22=23-0-0, 23=23-0-0, 24=23-0-0, 25=23-0-0, 26=23-0-0, 27=23-0-0, 28=23-0-0, 29=23-0-0, 30=23-0-0, 31=23-0-0, 32=23-0-0, 33=23-0-0, 34=23-0-0, 35=23-0-0, 37=23-0-0, 38=23-0-0, 39=23-0-0, 40=23-0-0, 41=23-0-0, 42=23-0-0
Max Grav		22=5 (LC 1), 23=94 (LC 1), 24=144 (LC 1), 25=136 (LC 1), 26=138 (LC 1), 27=137 (LC 1), 28=138 (LC 1), 29=137 (LC 1), 30=138 (LC 1), 31=137 (LC 1), 32=138 (LC 1), 33=138 (LC 1), 34=137 (LC 1), 35=138 (LC 1), 37=137 (LC 1), 38=138 (LC 1), 39=137 (LC 1), 40=138 (LC 1), 41=138 (LC 1), 42=48 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-42=-45/0, 21-22=0/3, 1-2=-5/0, 2-3=-5/0, 3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0, 7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0, 11-12=-5/0, 12-14=-5/0, 14-15=-5/0, 15-16=-5/0, 16-17=-5/0, 17-18=-5/0, 18-19=-5/0, 19-20=-5/0, 20-21=-5/0
BOT CHORD	41-42=0/5, 40-41=0/5, 39-40=0/5, 38-39=0/5, 37-38=0/5, 35-37=0/5, 34-35=0/5, 33-34=0/5, 32-33=0/5, 31-32=0/5, 30-31=0/5, 29-30=0/5, 28-29=0/5, 27-28=0/5, 26-27=0/5, 25-26=0/5, 24-25=0/5, 23-24=0/5, 22-23=0/5

- NOTES**
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - 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 1-3-0 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

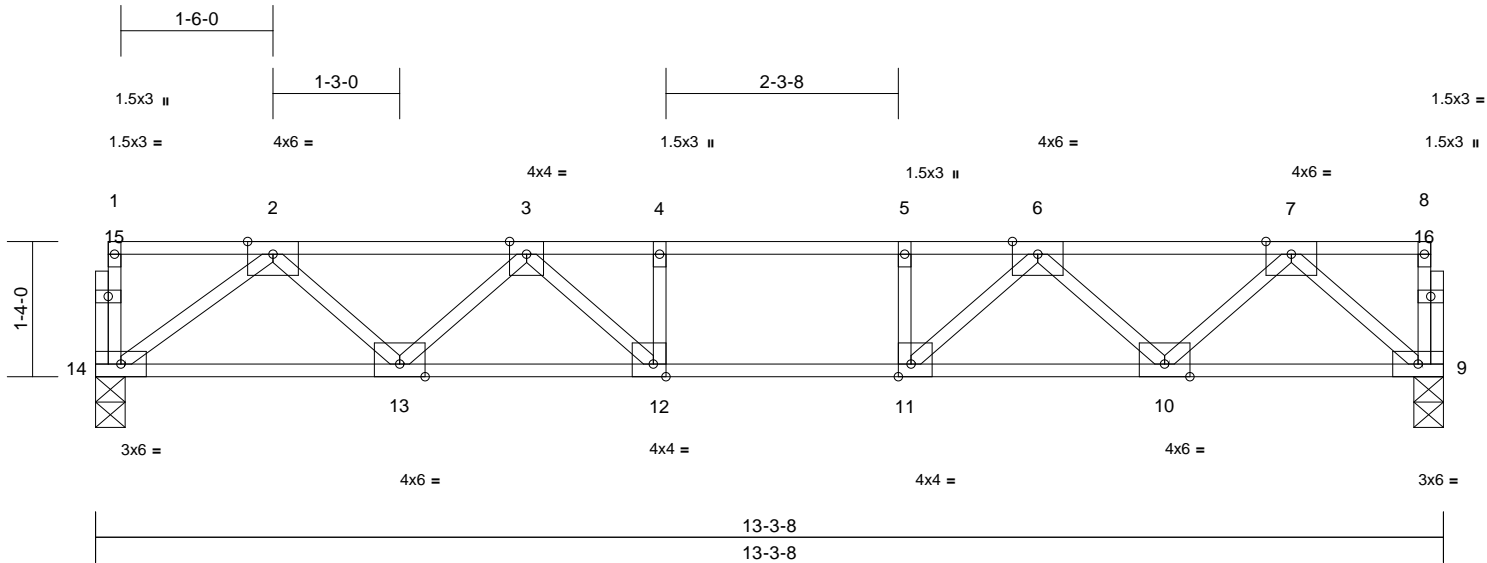


August 27,2025

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F10	Floor	1	1	Job Reference (optional)
					I75956016

Comtech, Inc, Fayetteville, NC - 28314,
Run: 25.30 S Aug 20 2025
Print: 25.3.0 S Aug 20 2025
MiTek Industries, Inc. Wed Aug 27 12:45:21
Page: 1

ID:MRVdg0cxPqsK8U739DzMHipZII-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:22.7

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,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)	-0.18	12-13	>891	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.22	12-13	>712	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%F, 11%E

LUMBER

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

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

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) 9=0-3-8, 14=0-3-8

Max Grav 9=1082 (LC 1), 14=1063 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-45/0, 8-9=-32/2, 1-2=-2/0, 2-3=-2215/0, 3-4=-3646/0, 4-5=-3646/0, 5-6=-3646/0, 6-7=-2081/0, 7-8=-2/0

BOT CHORD 13-14=0/1361, 12-13=0/3038, 11-12=0/3646, 10-11=0/2953, 9-10=0/1190

WEBS 7-9=-1582/0, 2-14=-1694/0, 7-10=0/1239, 2-13=0/1188, 6-10=-1213/0, 3-13=-1145/0, 6-11=0/1149, 3-12=0/1060, 4-12=-629/0, 5-11=-670/0

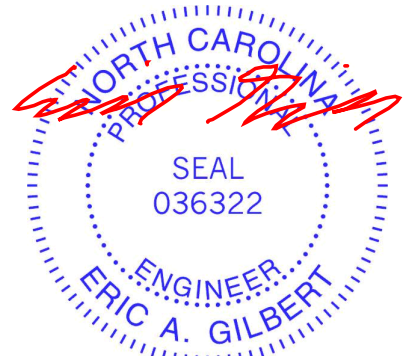
- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 9-14=-8, 1-3=-80, 3-6=-280, 6-8=-80



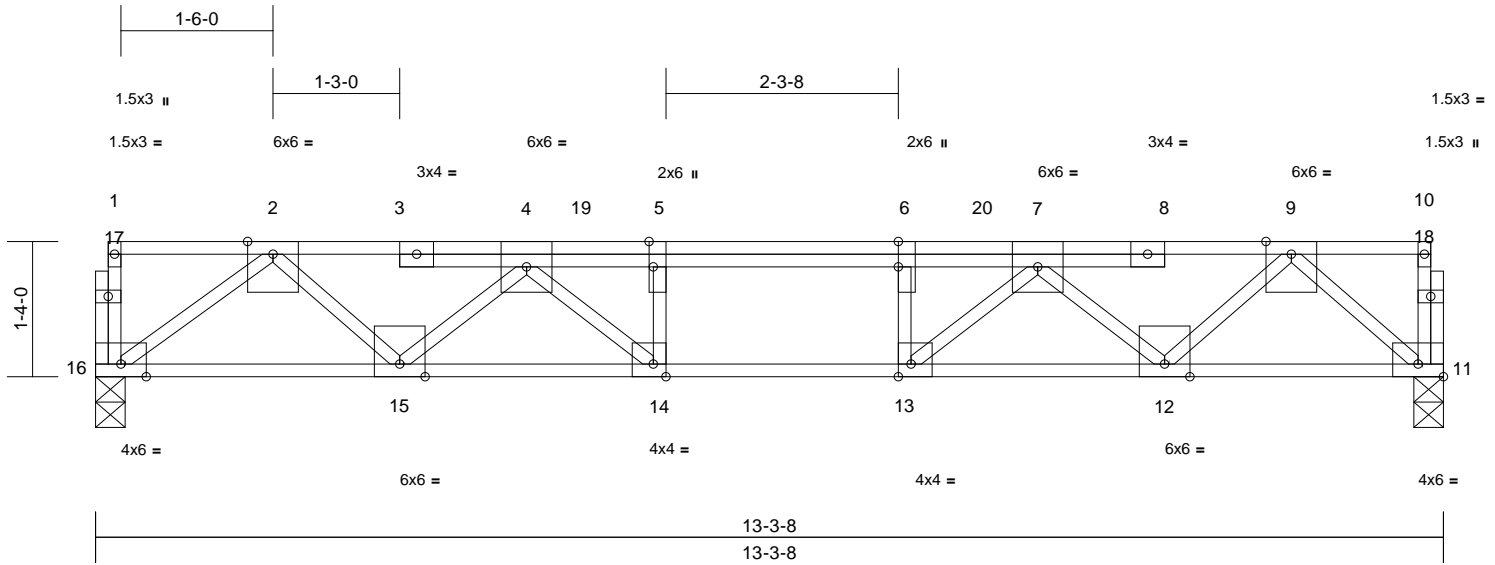
August 27,2025

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F09	Floor	2	1	Job Reference (optional)
					I75956017

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

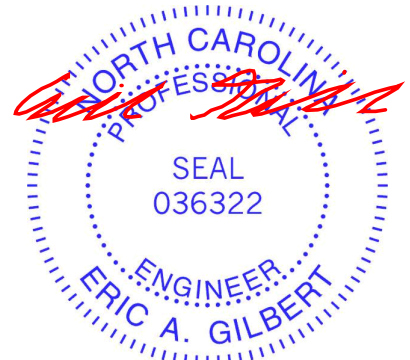


Scale = 1:22.7									
Plate Offsets (X, Y): [5:0-3-0,Edge], [6:0-3-0,Edge], [11:Edge,0-1-8], [13:0-1-8,Edge], [14:0-1-8,Edge]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.15 14-15	>999	480
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.20 14-15	>775	360
BCLL	0.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.06 11	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
						PLATES	GRIP		
						MT20	244/190		
						Weight: 79 lb	FT = 20%F, 11%E		

LUMBER	
TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.1(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
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)	11=0-3-8, 16=0-3-8
Max Grav	11=1384 (LC 1), 16=1353 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-16=-64/0, 10-11=-56/0, 1-2=-3/0, 2-4=-2957/0, 4-5=-4768/0, 5-6=-4768/0, 6-7=-4768/0, 7-9=-2786/0, 9-10=-3/0
BOT CHORD	15-16=0/1724, 14-15=0/4221, 13-14=0/4768, 12-13=0/4108, 11-12=0/1505
WEBS	9-11=-1999/0, 2-16=-2144/0, 9-12=0/1777, 2-15=0/1709, 7-12=-1799/0, 4-15=-1720/0, 7-13=0/1270, 4-14=-92/1167, 5-14=-692/13, 6-13=-751/0

- NOTES**
- 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) 800 lb down at 4-9-8, and 800 lb down at 8-9-0 on top chord. The design/selection of such connection device (s) is the responsibility of others.

- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (lb/ft)
- Vert: 11-16=-8, 1-10=-80
- Concentrated Loads (lb)
- Vert: 19=-800 (F), 20=-800 (F)



August 27,2025

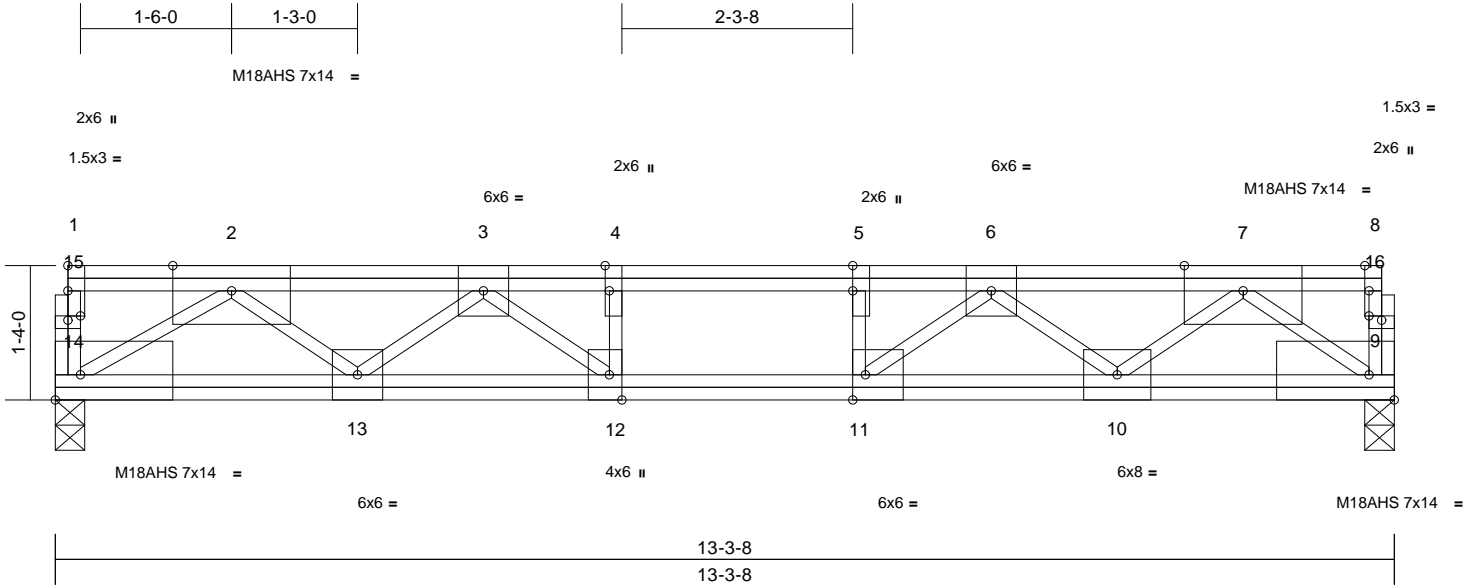
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F08	Floor	1	1	Job Reference (optional)
					I75956018

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:21

Page: 1

ID:MRVdg0cxPqsK8U739DzMhizpZII-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



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Plate Offsets (X, Y): [4:0-3-0,Edge], [5:0-3-0,Edge], [8:0-3-0,Edge], [9:Edge,0-3-0], [11:0-1-8,Edge], [12:0-3-0,Edge], [14:Edge,0-3-0], [15:0-1-8,0-0-8], [16:0-1-8,0-0-8]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.16 11-12	>982	480
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.22 11-12	>714	360
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.03 9	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
						PLATES		GRIP	
						M18AHS		186/179	
						MT20		244/190	
						Weight: 104 lb		FT = 20%F, 11%E	

LUMBER		1) Dead + Floor Live (balanced): Lumber Increase=1.00,
TOP CHORD	2x4 SP No.1(flat)	Plate Increase=1.00
BOT CHORD	2x4 SP 2400F 2.0E(flat)	Uniform Loads (lb/ft)
WEBS	2x4 SP No.3(flat) *Except* 9-7,14-2:2x4 SP No.2(flat)	Vert: 9-14=-8, 1-3=-880 (F=-800), 3-6=-80, 6-8=-880 (F=-800)
OTHERS	2x4 SP No.3(flat)	

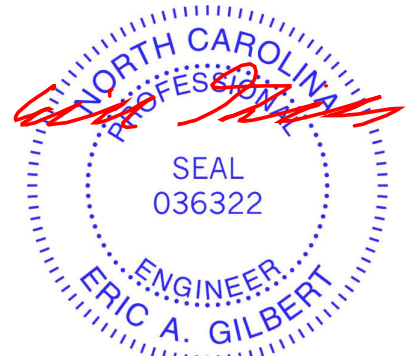
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size) 9=0-3-8, 14=0-3-8
Max Grav	9=3679 (LC 1), 14=3757 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-14=-465/0, 8-9=-314/0, 1-2=0/0, 2-3=-6111/0, 3-4=-7271/0, 4-5=-7271/0, 5-6=-7271/0, 6-7=-5599/0, 7-8=0/0
BOT CHORD	13-14=0/4968, 12-13=0/7506, 11-12=0/7271, 10-11=0/7194, 9-10=0/4290
WEBS	7-9=-5303/0, 2-14=-5820/0, 7-10=0/1742, 2-13=0/1522, 6-10=-2111/0, 3-13=-1846/0, 6-11=-1153/1435, 3-12=-1410/1169, 4-12=-462/598, 5-11=-564/499

- NOTES**
- 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.
 - 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



August 27,2025

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)

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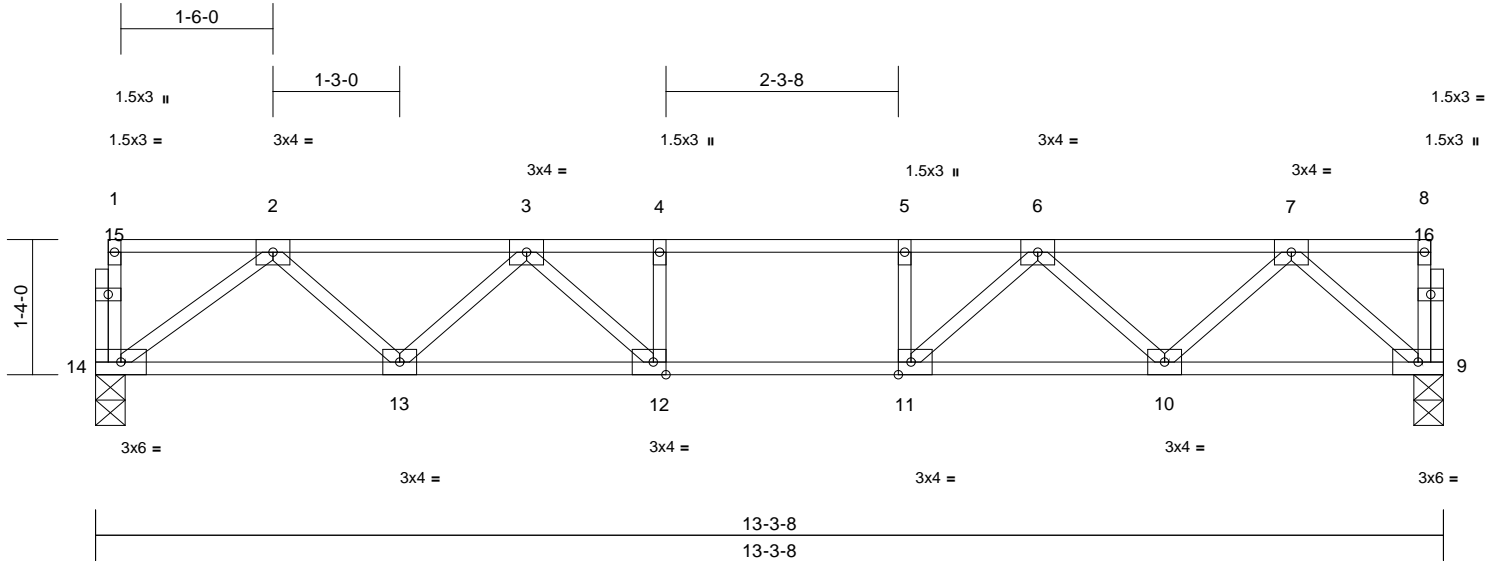
Job 250875-B	Truss F07	Truss Type Floor	Qty 8	Ply 1	Lot 26 Duncan's Creek Job Reference (optional)	I75956019
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Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:21

Page: 1

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Scale = 1:22.7

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:0-1-8,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	0.36	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.11	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%F, 11%E

LUMBER

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

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) 9=0-3-8, 14=0-3-8
Max Grav 9=568 (LC 1), 14=568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-41/0, 8-9=-28/0, 1-2=-2/0, 2-3=-1042/0, 3-4=-1514/0, 4-5=-1514/0, 5-6=-1514/0, 6-7=-970/0, 7-8=-1/0

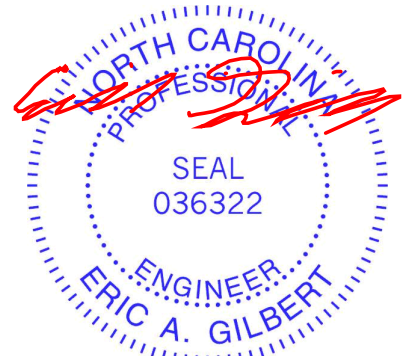
BOT CHORD 13-14=0/700, 12-13=0/1356, 11-12=0/1514, 10-11=0/1311, 9-10=0/608

WEBS 7-9=-807/0, 2-14=-870/0, 7-10=0/503, 2-13=0/476, 6-10=-475/0, 3-13=-436/0, 6-11=0/429, 3-12=0/385, 4-12=-203/0, 5-11=-222/0

NOTES

- 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.

LOAD CASE(S) Standard



August 27, 2025

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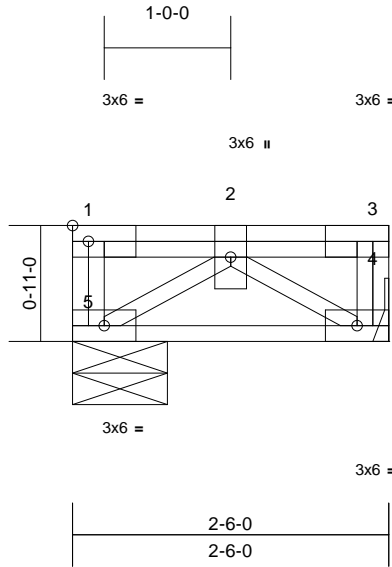
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F06-GR	Floor Girder	1	1	175956020
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

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Scale = 1:18.2

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	0.00	4-5	>999	360	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	4	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 18 lb FT = 20%F, 11%E

LUMBER

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

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=0-9-0
Max Grav 4=480 (LC 1), 5=480 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

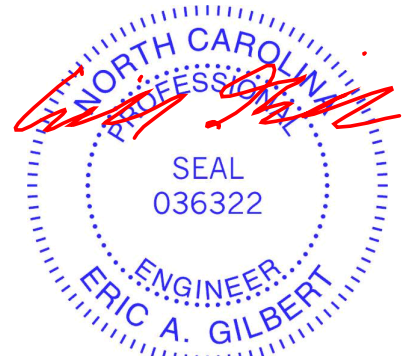
TOP CHORD 1-5=-76/0, 3-4=-76/0, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/609
WEBS 2-5=-725/0, 2-4=-725/0

NOTES

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-5=-8, 1-3=-80
Concentrated Loads (lb)
Vert: 2=-762



August 27, 2025

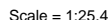
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

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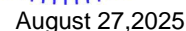
Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:20 Page: 1
ID:HVJPI?QcramDWmvVu0ooQVzir0v-RfC?PsB70Ha3NSaPqnL8w3u1TXbGKWrcDoi7J4zJC?i



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	0.90	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.08	9	>840	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 42 lb	FT = 20%F, 11%E

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 10.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION. Do not erect truss backwards.

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 6-10=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 5=-400 (F)



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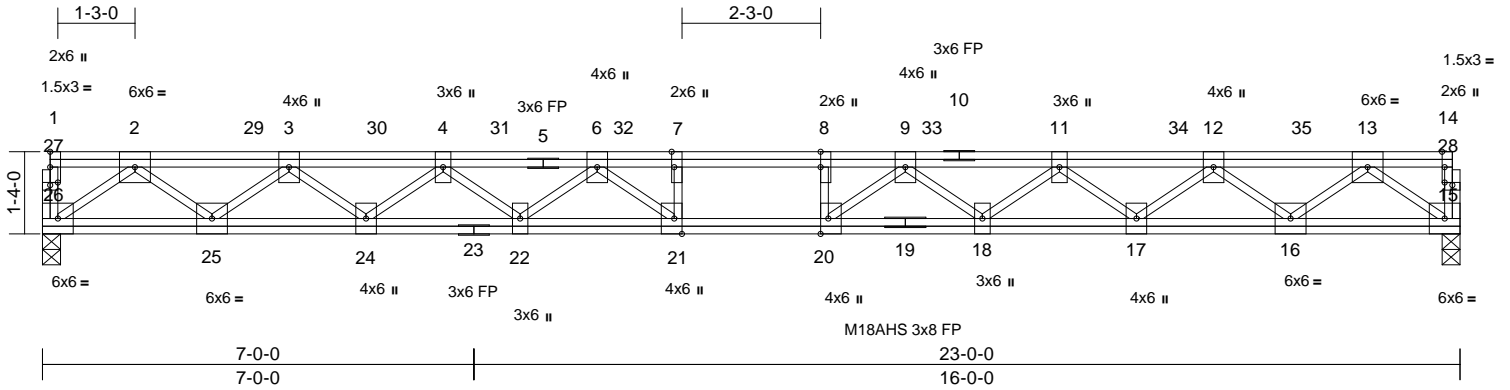
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F05-GR	Floor Girder	1	2	Job Reference (optional)
					I75956022

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Scale = 1:37.4

Plate Offsets (X, Y): [7:0-3-0,Edge], [8:0-3-0,Edge], [14:0-3-0,Edge], [20:0-3-0,Edge], [21:0-3-0,Edge], [27:0-1-8,0-0-8], [28:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-7-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.28	20-21	>960	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.36	20-21	>762	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 358 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* 19-15,19-26:2x4 SP 2400F 2.0E(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

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, 26=0-3-8
	Max Grav 15=2094 (LC 1), 26=2070 (LC 3)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-26=-36/0, 14-15=-50/0, 1-2=0/0, 2-3=-4309/0, 3-4=-7506/0, 4-6=-9660/0, 6-7=-10808/0, 7-8=-10808/0, 8-9=-10808/0, 9-11=-9557/0, 11-12=-7472/0, 12-13=-4332/0, 13-14=0/0
BOT CHORD	25-26=0/2593, 24-25=0/6163, 22-24=0/8834, 21-22=0/10449, 20-21=0/10808, 18-20=0/10343, 17-18=0/8764, 16-17=0/6157, 15-16=0/2641
WEBS	13-15=-3265/0, 2-26=-3205/0, 13-16=0/2244, 2-25=0/2291, 12-16=-2415/0, 3-25=-2454/0, 12-17=0/1739, 3-24=0/1777, 11-17=-1710/0, 4-24=-1757/0, 11-18=0/1210, 4-22=0/1161, 9-18=-1355/0, 6-22=-1275/36, 9-20=-432/1767, 6-21=-495/1593, 7-21=-785/71, 8-20=-850/77

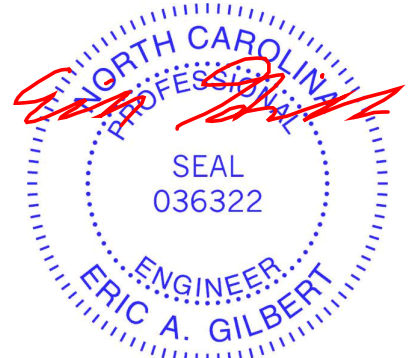
NOTES

- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
- 2) Unbalanced floor live loads have been considered for this design.
- 3) All plates are MT20 plates unless otherwise indicated.

- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 251 lb down and 119 lb up at 1-5-4, 251 lb down and 119 lb up at 3-5-4, 251 lb down and 119 lb up at 5-5-4, 251 lb down and 119 lb up at 7-5-4, 251 lb down and 119 lb up at 9-5-4, 242 lb down and 155 lb up at 10-5-4, 242 lb down and 155 lb up at 12-5-4, 242 lb down and 155 lb up at 14-5-4, 242 lb down and 155 lb up at 16-5-4, 242 lb down and 155 lb up at 18-5-4, and 242 lb down and 155 lb up at 20-5-4, and 242 lb down and 155 lb up at 21-5-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-26=-8, 1-14=-79
Concentrated Loads (lb)
Vert: 13=-178 (F), 2=-188 (F), 11=-178 (F), 7=-178 (F), 8=-178 (F), 29=-188 (F), 30=-188 (F), 31=-188 (F), 32=-188 (F), 33=-178 (F), 34=-178 (F), 35=-178 (F)



August 27, 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 26 Duncan's Creek
250875-B	F05	Floor	5	1	Job Reference (optional)

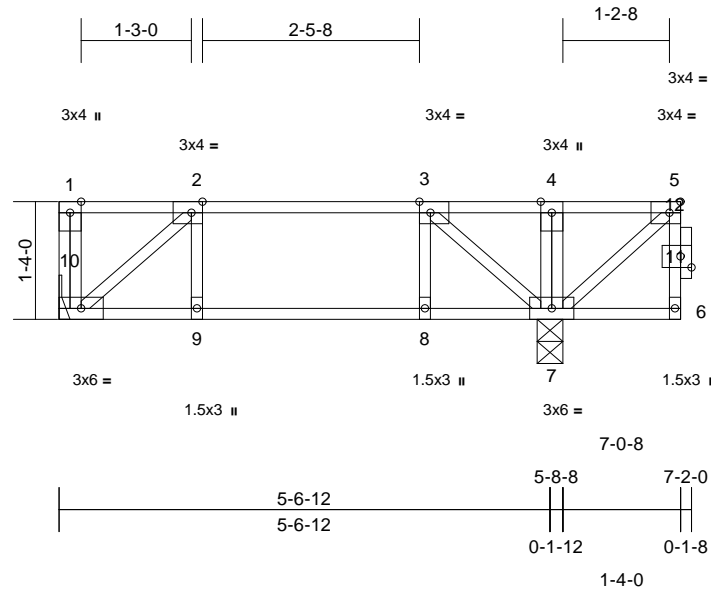
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Scale = 1:26.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.05	9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.06	9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 40 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
 bracing. Except:
 10-0-0 oc bracing: 6-7.

REACTIONS

(size) 7=0-3-8, 10= Mechanical
 Max Uplift 10=40 (LC 4)
 Max Grav 7=976 (LC 1), 10=267 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-10=-100/6, 5-6=0/17, 1-2=0/0,
 2-3=-229/191, 3-4=0/573, 4-5=0/573
 BOT CHORD 9-10=-191/229, 8-9=-191/229, 7-8=-191/229,
 6-7=0/0
 WEBS 4-7=-55/23, 5-7=-757/0, 3-7=-771/0,
 2-10=-299/249, 2-9=-111/9, 3-8=0/168

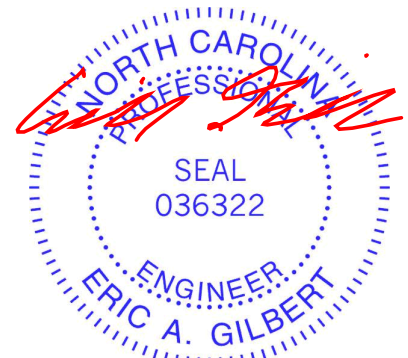
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 10.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 400 lb down at 6-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,
 Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 6-10=-10, 1-5=-100
 Concentrated Loads (lb)
 Vert: 5=-400 (F)



August 27, 2025

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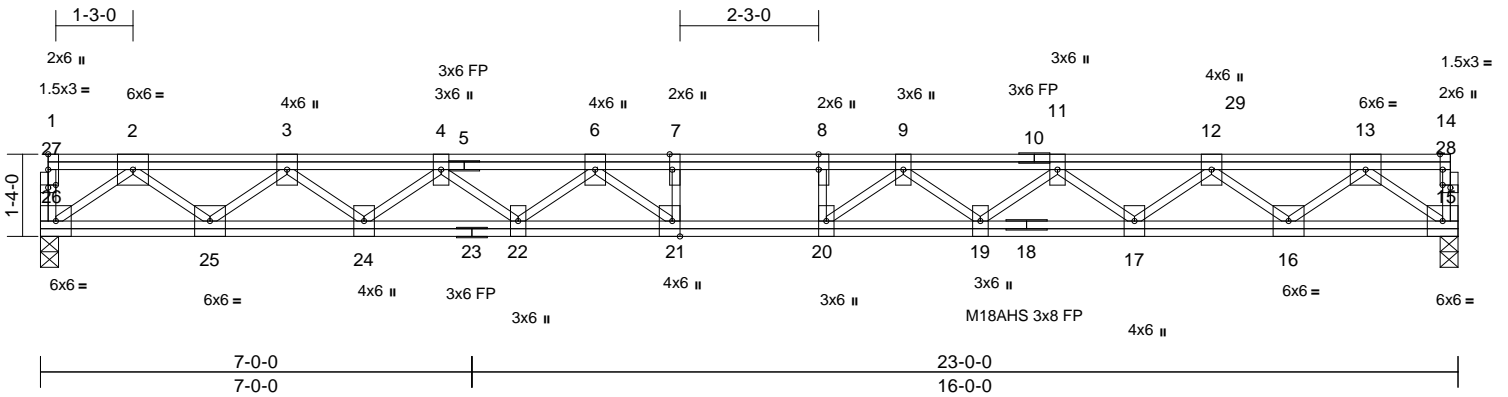
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F04-GR	Floor Girder	1	1	Job Reference (optional)
					I75956024

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:20

Page: 1

ID:HVJPI?QcqmDWmvVu0ooQVzjr0v-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:37.4

Plate Offsets (X, Y): [7:0-3-0,Edge], [8:0-3-0,Edge], [14:0-3-0,Edge], [21:0-3-0,Edge], [27:0-1-8,0-0-8], [28:0-1-8,0-0-8]

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	0.20	Vert(LL)	-0.27	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.37	Vert(CT)	-0.37	20-21	>732	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 179 lb	FT = 20%F, 11%E

LUMBER

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

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, 26=0-3-8

Max Grav 15=1348 (LC 1), 26=1058 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-36/0, 14-15=-13/0, 1-2=0/0, 2-3=-2188/0, 3-4=-3845/0, 4-6=-4975/0, 6-7=-5754/0, 7-8=-5754/0, 8-9=-5754/0, 9-11=-5420/0, 11-12=-4572/0, 12-13=-2829/0, 13-14=0/0
BOT CHORD 25-26=0/1295, 24-25=0/3134, 22-24=0/4530, 21-22=0/5418, 20-21=0/5754, 19-20=0/5700, 17-19=0/5093, 16-17=0/4039, 15-16=0/1695
WEBS 13-15=-2095/0, 2-26=-1601/0, 13-16=0/1504, 2-25=0/1185, 12-16=-1601/0, 3-25=-1251/0, 12-17=0/705, 3-24=0/941, 11-17=-689/0, 4-24=-907/0, 11-19=0/437, 4-22=0/589, 9-19=-461/0, 6-22=-618/0, 9-20=-366/579, 6-21=-106/834, 7-21=-370/1, 8-20=-267/108

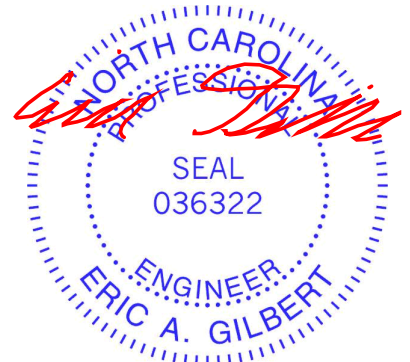
NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 467 lb down at 19-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-26=-8, 1-14=-80
Concentrated Loads (lb)
Vert: 29=-416 (B)



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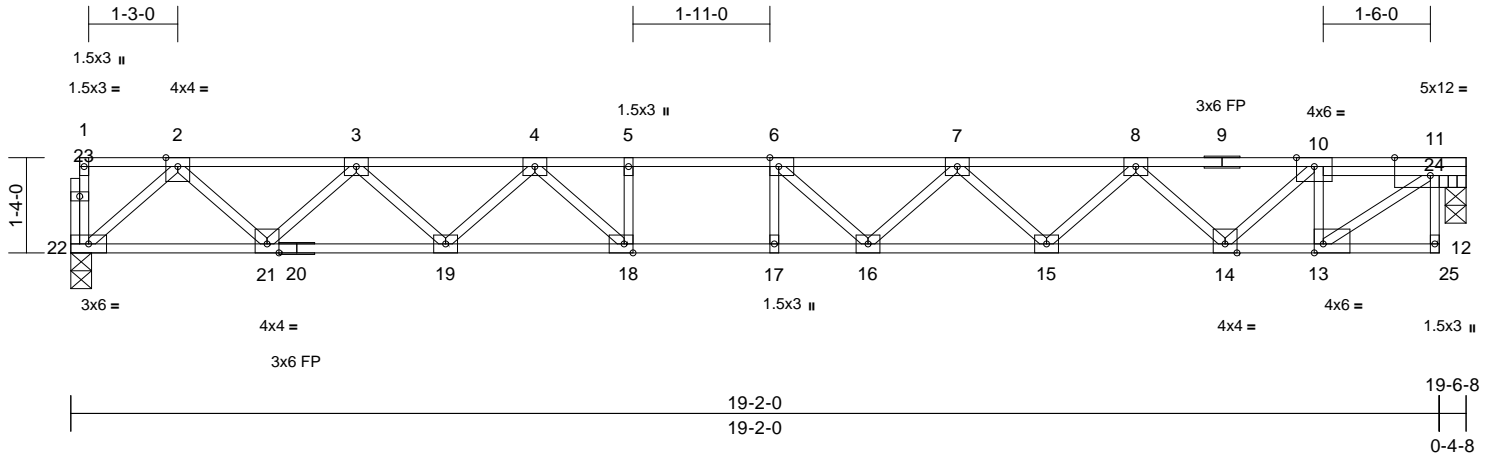
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F04	Floor	1	1	175956025
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:20
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Page: 1



Scale = 1:32.3

Plate Offsets (X, Y): [6:0-1-8,Edge], [11:0-6-0,Edge], [13:0-1-8,Edge], [18:0-1-8,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	0.55	Vert(LL)	-0.27	16-17	>842	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.37	16-17	>614	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.02	25	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 102 lb	FT = 20%F, 11%E

LUMBER

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

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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: 17-18,16-17.

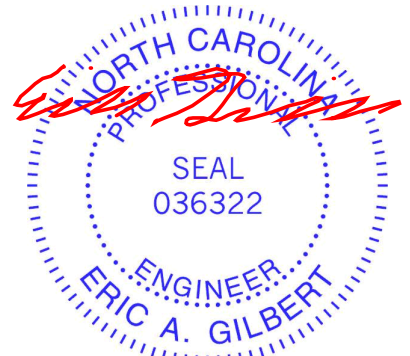
REACTIONS (size) 22=0-3-8, 25=0-3-8
Max Grav 22=839 (LC 1), 25=825 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-32/0, 12-24=0/7, 11-24=0/7, 1-2=-2/0, 2-3=-1563/0, 3-4=-2584/0, 4-5=-3294/0, 5-6=-3294/0, 6-7=-3238/0, 7-8=-2759/0, 8-10=-1811/0, 10-11=-1192/0
BOT CHORD 21-22=0/910, 19-21=0/2187, 18-19=0/2987, 17-18=0/3294, 16-17=0/3294, 15-16=0/3118, 14-15=0/2385, 13-14=0/1192, 12-13=0/62
WEBS 10-13=-785/0, 11-13=0/1383, 10-14=0/841, 2-22=-1209/0, 8-14=-798/0, 2-21=0/909, 8-15=0/521, 3-21=-867/0, 7-15=-499/0, 3-19=0/552, 7-16=0/314, 4-19=-560/0, 6-16=-359/176, 4-18=0/635, 5-18=-275/0, 6-17=-178/84, 11-25=-865/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 (=) MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 1 degree rotation about its center.
4) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



August 27, 2025

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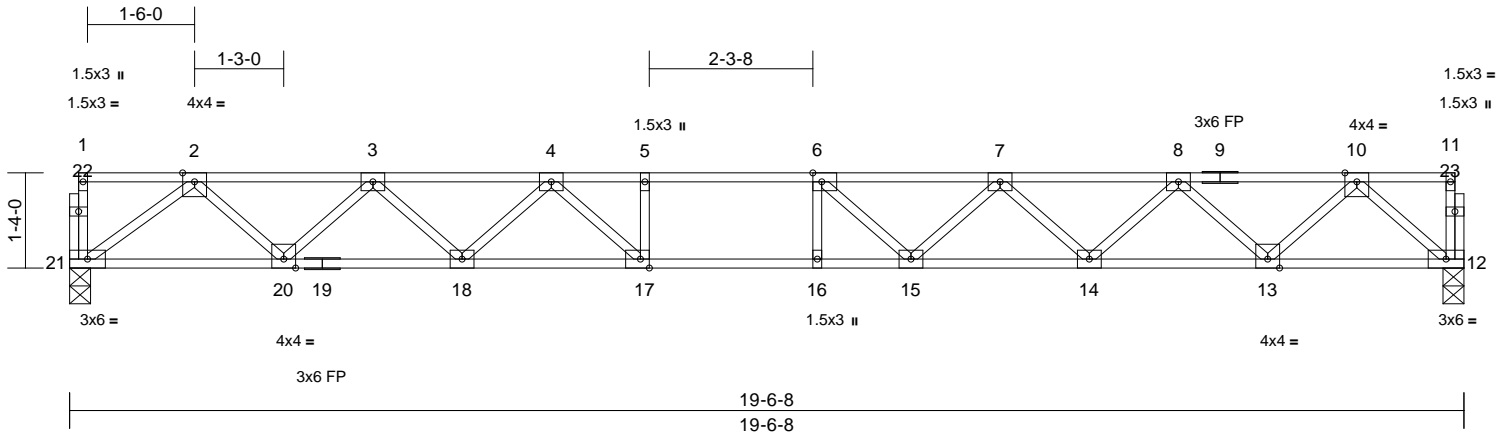
Job	Truss	Truss Type	Qty	Ply	Lot 26 Duncan's Creek
250875-B	F03	Floor	5	1	175956026
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:20

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Scale = 1:32.3

Plate Offsets (X, Y): [6:0-1-8,Edge], [17:0-1-8,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	0.62	Vert(LL)	-0.27	15-16	>861	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.37	15-16	>629	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%F, 11%E

LUMBER

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

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: 16-17.

REACTIONS (size) 12=0-3-8, 21=0-3-8
Max Grav 12=843 (LC 1), 21=843 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-21=-44/0, 11-12=-30/0, 1-2=-2/0,
2-3=-1699/0, 3-4=-2686/0, 4-5=-3342/0,
5-6=-3342/0, 6-7=-3206/0, 7-8=-2620/0,
8-10=-1569/0, 10-11=-2/0
BOT CHORD 20-21=0/1063, 18-20=0/2305, 17-18=0/3066,
16-17=0/3342, 15-16=0/3342, 14-15=0/3025,
13-14=0/2198, 12-13=0/916
WEBS 10-12=-1218/0, 2-21=-1322/0, 10-13=0/908,
2-20=0/884, 8-13=-875/0, 3-20=-843/0,
8-14=0/586, 3-18=0/530, 7-14=-564/0,
4-18=-528/0, 7-15=0/377, 4-17=0/628,
6-15=-452/102, 5-17=-285/0, 6-16=-158/112

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.

LOAD CASE(S) Standard



August 27, 2025

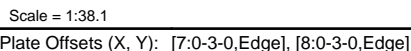
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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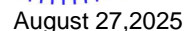
Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Wed Aug 27 12:45:19 Page: 1
ID:MRVdq0cxPq8K8U739DzMHiZpZII-RfC?PsB70Hg3NSoPanL8w3uITXBkGKWrCdoI7J4zJC?f



LUMBER		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.
TOP CHORD	2x4 SP 2400F 2.0E(flat)	
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 24-16:2x4 SP No.1(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	LOAD CASE(S) Standard

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) 16=0-3-8, 28=0-3-8 Max Grav 16=995 (LC 1), 28=995 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-28=-26/0, 15-16=-26/0, 1-2=-1/0, 2-3=-1898/0, 3-5=-3287/0, 5-6=-4555/0, 6-7=-5172/0, 7-8=-5172/0, 8-9=-5172/0, 9-11=-4516/0, 11-13=-3290/0, 13-14=-1897/0, 14-15=-1/0
BOT CHORD	27-28=0/1096, 26-27=0/2661, 23-26=0/4032, 22-23=0/4968, 21-22=0/5172, 20-21=0/4954, 18-20=0/4013, 17-18=0/2662, 16-17=0/1096
WEBS	14-16=-1457/0, 14-17=0/1115, 13-17=-1063/0, 13-18=0/868, 11-18=-986/0, 5-26=-1016/0, 11-20=0/666, 5-23=0/692, 9-20=-580/0, 6-23=-546/0, 9-21=-142/652, 6-22=-158/644, 7-22=-298/41, 8-21=-286/53, 2-28=-1458/0, 2-27=0/1116, 3-27=-1061/0, 3-26=0/866

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



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

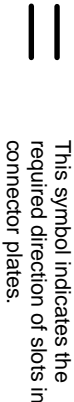
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

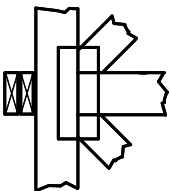
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

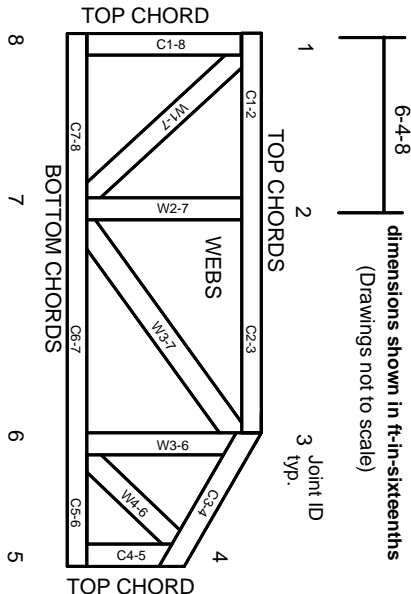


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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