



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 Table. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Sales Area

(BASED ON TABLES R502.5(1) & (b))

CITY / CO.	Lillington / Harnett
ADDRESS	567 Beacon Hill Road
MODEL	Roof
DATE REV.	9/17/25
DRAWN BY	Johnnie Baggett
SALES REP.	House Account

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the discretion of the building designer. See individual truss 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 BC2S1 and BC2S3 provided with the truss delivery package or online @ sbcindustry.com

Truss Placement Plan
SCALE: NTS

Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
10d/3"	10d/3"	NA	13	USP	JUS24	



ROOF & FLOOR TRUSSES & BEAMS

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

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#.

Signature Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

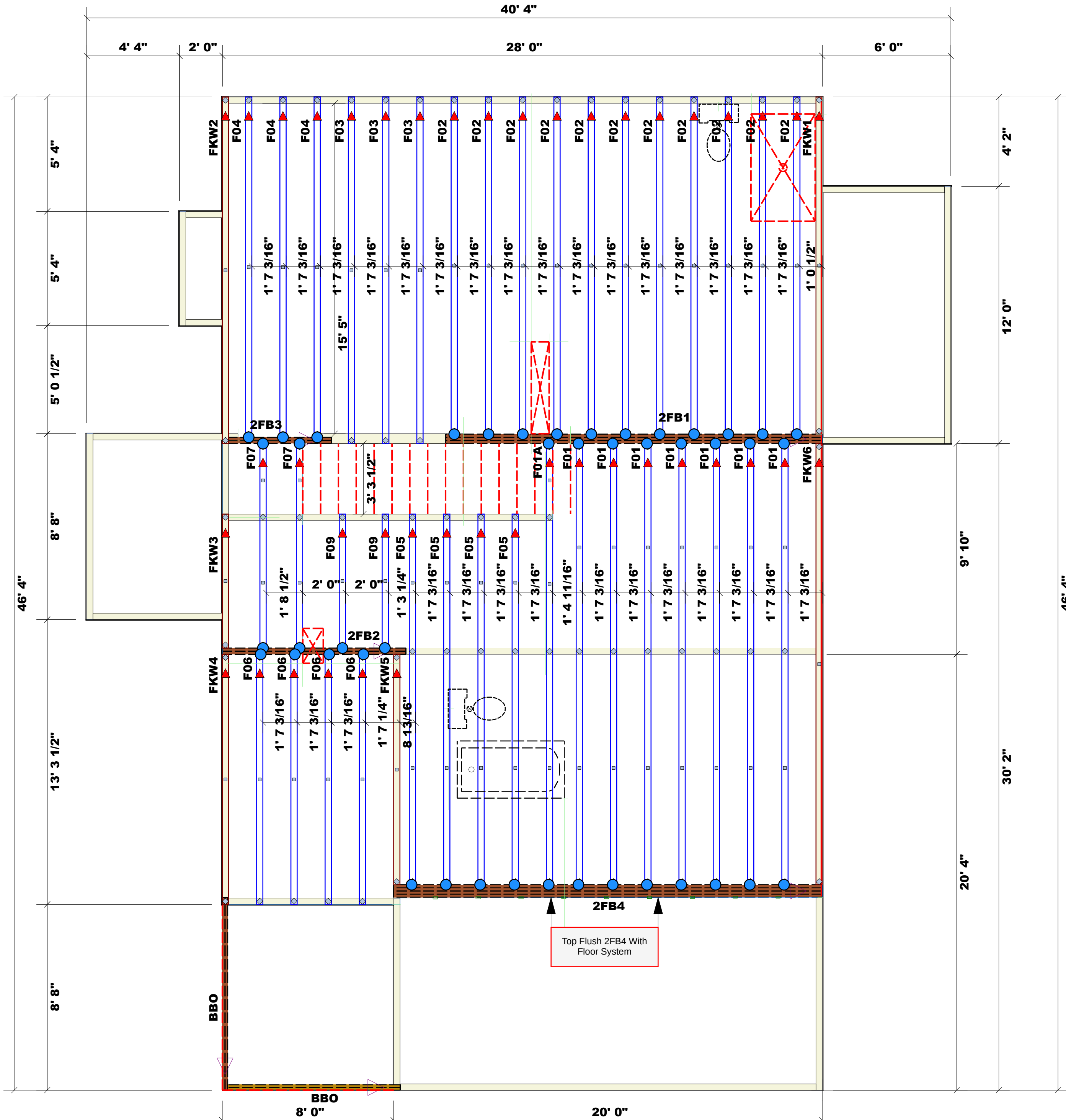
(BASED ON TABLES R502.5(1) & (b))					
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER					
END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" X 1" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" X 1" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" X 1" HEADER
1700	1	2550	1	3400	1
3400	2	5100	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				

		Lillington / Harnett			
		567 Beacon Hill Road			
		Floor			
		9/17/25			
		Johnnie Baggett			
		House Account			

		New Home Inc			
		Lot 33 Duncans Creek			
		The Brunswick - Craftsman			
		Seal Date			
		B0224-1089			
		251269 - B			

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

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



Truss Placement Plan
SCALE: NTS

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 251269-A
Lot 33 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: I76420838 thru I76420858

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

North Carolina COA: C-0844



September 18, 2025

Gilbert, Eric

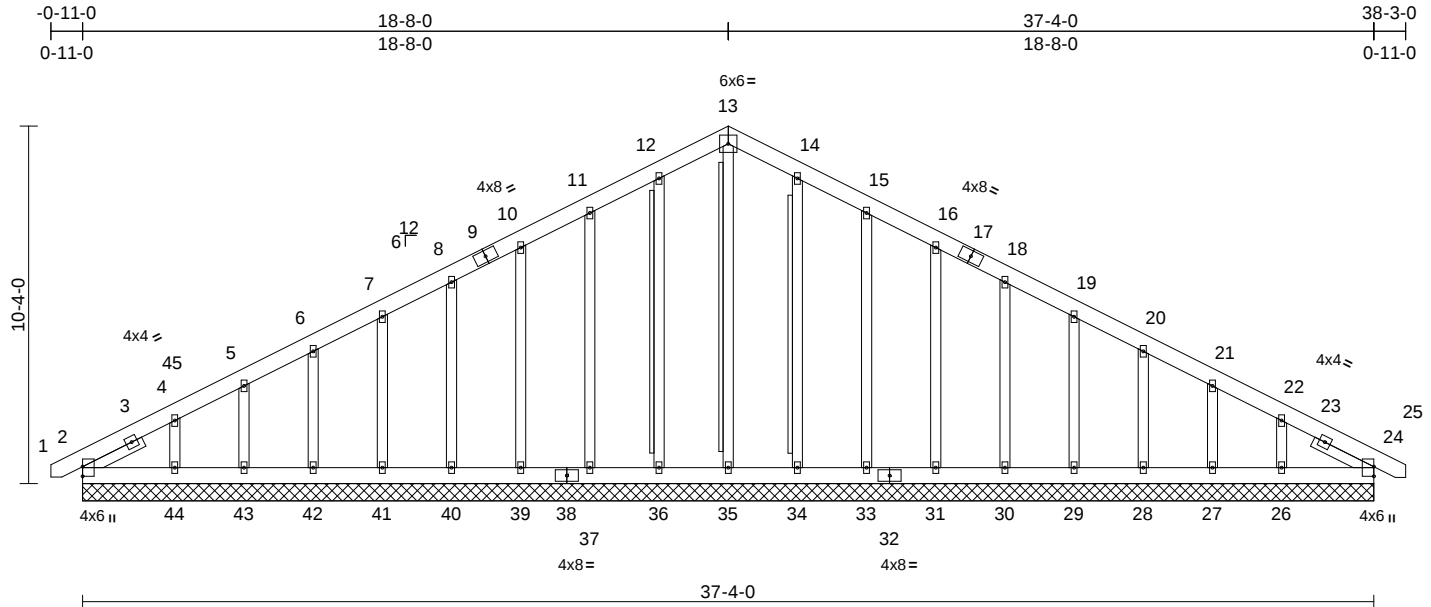
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 33 Duncan's Creek	
251269-A	A01GE	Common Supported Gable	1	1	Job Reference (optional)	I76420838

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:23
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRcDoi7J4zJC?i

Page: 1



Scale = 1:66.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-S								
BCDL	10.0											
										Weight: 327 lb		FT = 20%

LUMBER		Max Grav	2=217 (LC 28), 24=207 (LC 1), 26=248 (LC 24), 27=188 (LC 1), 28=203 (LC 24), 29=200 (LC 1), 30=200 (LC 1), 31=243 (LC 24), 33=292 (LC 24), 34=290 (LC 24), 35=210 (LC 29), 36=290 (LC 23), 37=292 (LC 23), 39=243 (LC 23), 40=200 (LC 1), 41=200 (LC 1), 42=203 (LC 23), 43=188 (LC 1), 44=248 (LC 23)	1) Unbalanced roof live loads have been considered for this design.
TOP CHORD	2x6 SP No.1			2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-2 to 2-11-11, Exterior(2N) 2-11-11 to 18-8-0, Corner(3R) 18-8-0 to 22-8-0, Exterior (2N) 22-8-0 to 38-1-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
BOT CHORD	2x6 SP No.1			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.
OTHERS	2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF No.2(flat)			4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0			5) Unbalanced snow loads have been considered for this design.
BRACING		FORCES	(lb) - Maximum Compression/Maximum Tension	6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	TOP CHORD	1-2=-19/0, 2-4=-273/90, 4-5=-172/94, 5-6=-144/110, 6-7=-116/140, 7-8=-95/170, 8-10=-82/199, 10-11=-99/245, 11-12=-122/308, 12-13=-136/347, 13-14=-136/347, 14-15=-122/308, 15-16=-99/245, 16-18=-79/187, 18-19=-72/129, 19-20=-72/71, 20-21=-86/32, 21-22=-113/22, 22-24=-189/52, 24-25=-18/0	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	BOT CHORD	2-44=-53/196, 43-44=-53/196, 42-43=-53/196, 41-42=-53/196, 40-41=-53/196, 39-40=-53/196, 37-39=-53/196, 36-37=-53/196, 35-36=-53/196, 34-35=-53/196, 33-34=-53/196, 31-33=-53/196, 30-31=-53/196, 29-30=-53/196, 28-29=-53/196, 27-28=-53/196, 26-27=-53/196, 24-26=-53/196	
WEBS	T-Brace: 2x4 SPF No.2 - 13-35, 12-36, 14-34	WEBS	13-35=-179/29, 12-36=-250/69, 11-37=-252/119, 10-39=-203/106, 8-40=-160/105, 7-41=-160/105, 6-42=-161/107, 5-43=-154/95, 4-44=-189/221, 14-34=-250/63, 15-33=-252/119, 16-31=-203/106, 18-30=-160/105, 19-29=-160/105, 20-28=-161/107, 21-27=-154/94, 22-26=-189/210	
REACTIONS (size)				
	2=37-4-0, 24=37-4-0, 26=37-4-0, 27=37-4-0, 28=37-4-0, 29=37-4-0, 30=37-4-0, 31=37-4-0, 33=37-4-0, 34=37-4-0, 35=37-4-0, 36=37-4-0, 37=37-4-0, 39=37-4-0, 40=37-4-0, 41=37-4-0, 42=37-4-0, 43=37-4-0, 44=37-4-0			
Max Horiz	2=-197 (LC 17)			
Max Uplift	2=-29 (LC 17), 26=-135 (LC 17), 27=-57 (LC 17), 28=-71 (LC 17), 29=-69 (LC 17), 30=-69 (LC 17), 31=-70 (LC 17), 33=-81 (LC 17), 34=-35 (LC 17), 36=-45 (LC 16), 37=-78 (LC 16), 39=-69 (LC 16), 40=-69 (LC 16), 41=-69 (LC 16), 42=-71 (LC 16), 43=-53 (LC 16), 44=-153 (LC 16)			



NOTES



September 18,2025

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 33 Duncan's Creek
251269-A	A01GE	Common Supported Gable	1	1	I76420838
Job Reference (optional)					

- 7) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 2, 45 lb uplift at joint 36, 78 lb uplift at joint 37, 69 lb uplift at joint 39, 69 lb uplift at joint 40, 69 lb uplift at joint 41, 71 lb uplift at joint 42, 53 lb uplift at joint 43, 153 lb uplift at joint 44, 35 lb uplift at joint 34, 81 lb uplift at joint 33, 70 lb uplift at joint 31, 69 lb uplift at joint 30, 69 lb uplift at joint 29, 71 lb uplift at joint 28, 57 lb uplift at joint 27 and 135 lb uplift at joint 26.
- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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

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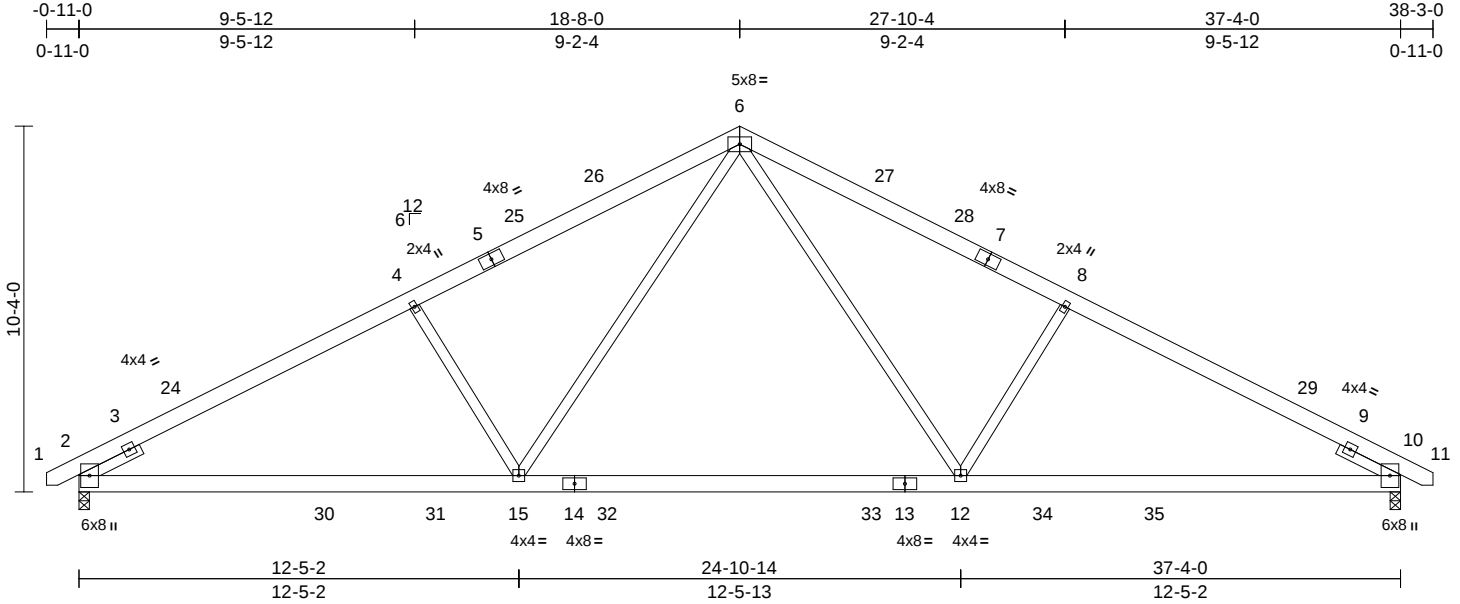
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	A02	Common	7	1	Job Reference (optional)	I76420839

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:24
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Page: 1



Scale = 1:65.1		Plate Offsets (X, Y): [2:0-4-6,0-0-9], [10:0-4-6,0-0-9]	
Loading	(psf)	Spacing	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf)	30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0*	Code	IRC2021/TPI2014
BCDL	10.0		
CSI		DEFL	in (loc) l/defl L/d
TC	0.63	Vert(LL)	-0.39 12-15 >999 360
BC	0.75	Vert(CT)	-0.55 12-15 >808 240
WB	0.58	Horz(CT)	0.09 10 n/a n/a
Matrix-AS		Wind(LL)	0.09 12-15 >999 240
PLATES		GRIP	
MT20		244/190	
Weight: 246 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 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size) 2=0-3-8, 10=0-3-8
Max Horiz 2=196 (LC 16)
Max Uplift 2=-327 (LC 16), 10=-327 (LC 17)
Max Grav 2=2122 (LC 4), 10=2122 (LC 4)

FORCES

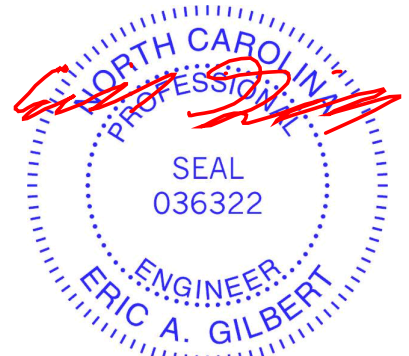
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-4=-3391/519, 4-6=-3126/550, 6-8=-3126/550, 8-10=-3391/519, 10-11=0/47
BOT CHORD 2-15=-511/2923, 12-15=-175/2027, 10-12=-328/2923
WEBS 4-15=-728/406, 6-15=-242/1297, 6-12=-243/1297, 8-12=-728/406

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-2 to 2-11-11, Interior (1) 2-11-11 to 18-8-0, Exterior(2R) 18-8-0 to 22-4-13, Interior (1) 22-4-13 to 38-1-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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 327 lb uplift at joint 2 and 327 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



September 18, 2025

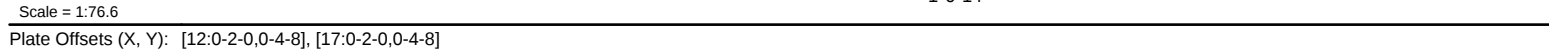
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:24 Page: 1
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LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

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

REACTIONS
(size) 2=0-3-8, 10=0-3-8
Max Horiz 2=196 (LC 16)
Max Uplift 2=-227 (LC 16), 10=-227 (LC 17)
Max Grav 2=2213 (LC 4), 10=2213 (LC 4)

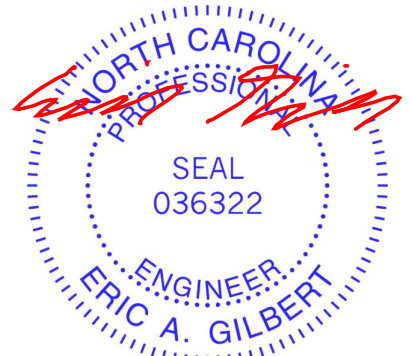
FORCES
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-4=-3559/311, 4-6=-3294/340,
6-8=-3294/340, 8-10=-3559/311, 10-11=0/47
BOT CHORD 2-17=-333/3072, 12-17=-43/2132,
10-12=-161/3072
WEBS 4-17=-715/421, 6-17=-136/1384,
6-12=-136/1384, 8-12=-715/421

- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 6) 200.0lb AC unit load placed on the bottom chord, 18-8-0 from left end, supported at two points, 5-0-0 apart.
- 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 227 lb uplift at joint 2 and 227 lb uplift at joint 10.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-2 to 2-11-11, Interior (1) 2-11-11 to 18-8-0, Exterior(2R) 18-8-0 to 22-4-13, Interior (1) 22-4-13 to 38-1-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10



September 18, 2025



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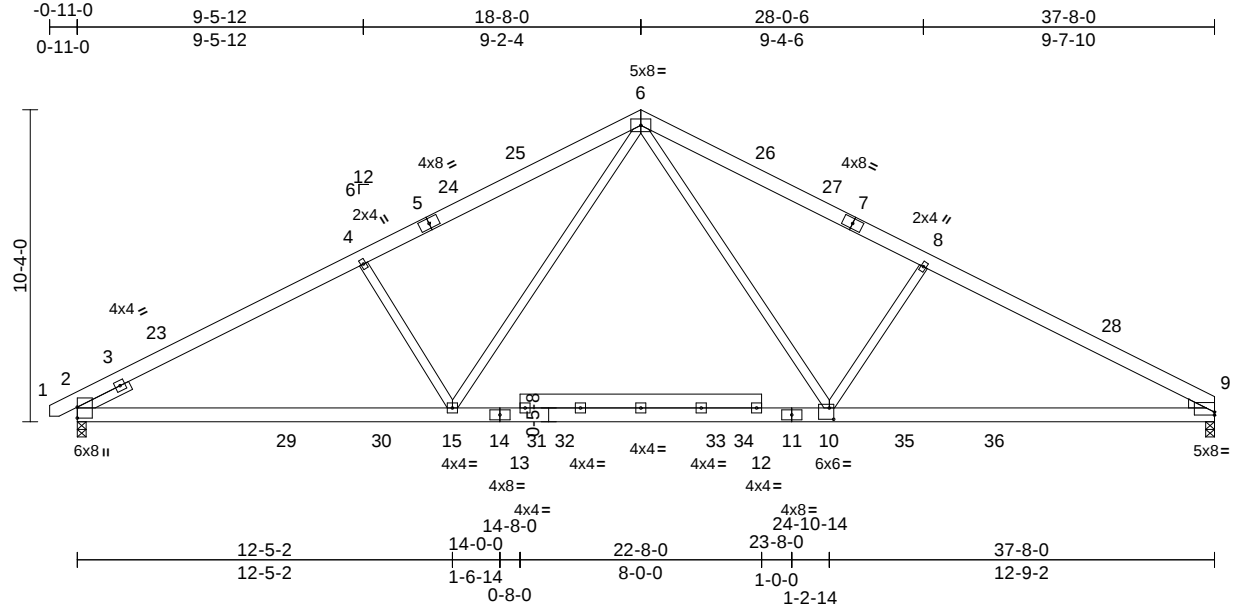
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	A03	Common	3	1	Job Reference (optional)	I76420841

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:24
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Page: 1



Scale = 1:76.3

Plate Offsets (X, Y): [9:Edge,0-1-3], [10:0-1-12,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.21	10-15	>999	360	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.40	10-15	>999	240	
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	9	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	10-15	>999	240	
BCDL	10.0										
Weight: 262 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.3
SLIDER Left 2x4 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size) 2=0-3-8, 9=0-3-8
Max Horiz 2=202 (LC 20)
Max Uplift 2=-228 (LC 16), 9=-211 (LC 17)
Max Grav 2=2232 (LC 4), 9=2174 (LC 4)

FORCES

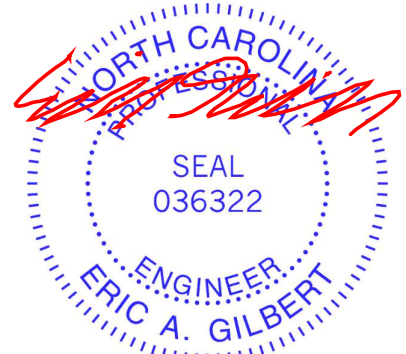
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-4=-3595/314, 4-6=-3330/344,
6-8=-3395/348, 8-9=-3720/329
BOT CHORD 2-15=-336/3104, 10-15=-47/2168,
9-10=-175/3205
WEBS 4-15=-716/421, 6-15=-137/1377,
6-10=-136/1467, 8-10=-781/436

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-2 to 3-0-2, Interior (1) 3-0-2 to 18-8-0, Exterior(2R) 18-8-0 to 22-5-3, Interior (1) 22-5-3 to 37-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 18-8-0 from left end, supported at two points, 5-0-0 apart.
- 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 228 lb uplift at joint 2 and 211 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



September 18,2025

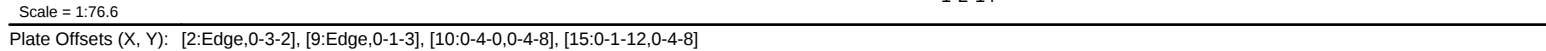
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:24 Page: 1
ID:0JmVjnyaAyz5P3t7HPvK2hziFs2-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWkCDOI7J4zJC?f



LUMBER		3) TCELL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
TOP CHORD	2x6 SP 2400F 2.0E *Except* 1-5,7-9:2x6 SP No.1	4) Unbalanced snow loads have been considered for this design.
BOT CHORD	2x6 SP No.1	5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
WEBS	2x4 SP No.2	6) 200.0lb AC unit load placed on the bottom chord, 18-8-0 from left end, supported at two points, 5-0-0 apart.
WEDGE	Right: 2x4 SP No.3	7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
SLIDER	Left 2x4 SP No.2 -- 1-11-0	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.
BRACING		9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 2 and 231 lb uplift at joint 9.
TOP CHORD	2-0-0 oc purlins (3-5-10 max.) (Switched from sheeted: Spacing > 2-0-0).	10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 2=0-3-8, 9=0-3-8	
	Max Horiz 2=214 (LC 20)	
	Max Uplift 2=-248 (LC 16), 9=-231 (LC 17)	
	Max Grav 2=2365 (LC 4), 9=2303 (LC 4)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/50, 2-4=-3810/348, 4-6=-3527/379, 6-8=-3596/384, 8-9=-3943/364	
BOT CHORD	2-15=-369/3291, 10-15=-55/2286, 9-10=-198/3398	
WEBS	4-15=-773/447, 6-15=-155/1466, 6-10=-155/1562, 8-10=-841/463	
LOAD CASE(S)		Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-2 to 3-0-2, Interior (1) 3-0-2 to 18-8-0, Exterior(2R) 18-8-0 to 22-5-3, Interior (1) 22-5-3 to 37-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

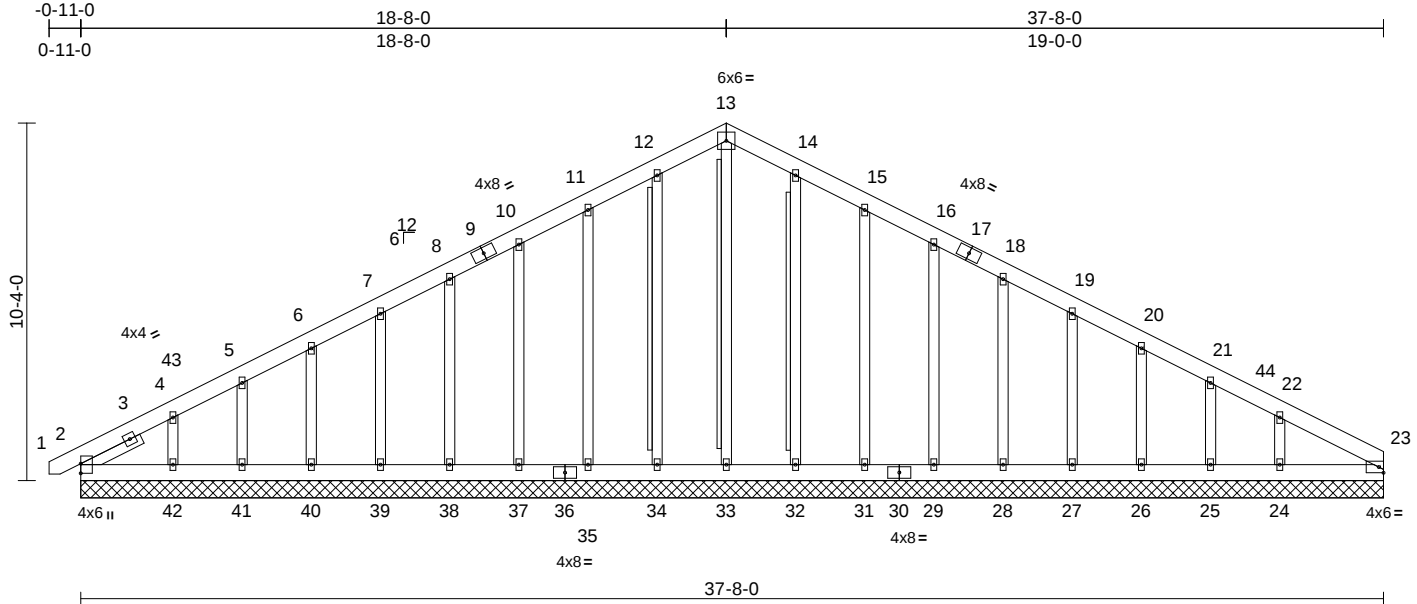


Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	176420843
251269-A	A05GE	Common Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:25
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Page: 1



Scale = 1:66.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	23	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 324 lb	FT = 20%

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	A05GE	Common Supported Gable	1	1	I76420843
Job Reference (optional)					

- 7) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 45 lb uplift at joint 34, 78 lb uplift at joint 35, 69 lb uplift at joint 37, 69 lb uplift at joint 38, 69 lb uplift at joint 39, 71 lb uplift at joint 40, 53 lb uplift at joint 41, 153 lb uplift at joint 42, 35 lb uplift at joint 32, 81 lb uplift at joint 31, 70 lb uplift at joint 29, 69 lb uplift at joint 28, 69 lb uplift at joint 27, 71 lb uplift at joint 26, 57 lb uplift at joint 25 and 129 lb uplift at joint 24.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 23.
- 14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

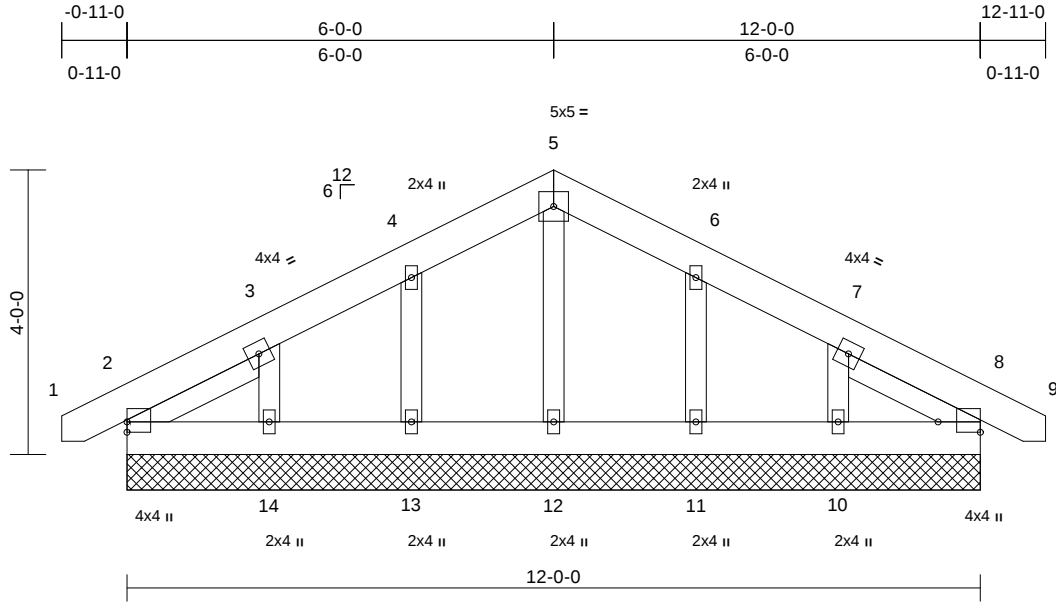
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	B01GE	Common Supported Gable	1	1	Job Reference (optional)
					I76420844

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:25
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Page: 1



Scale = 1:32.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS							
BCDL	10.0										
										Weight: 85 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	2=12-0-0, 8=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0
	Max Horiz	2=68 (LC 20)
	Max Uplift	2=-28 (LC 17), 8=-18 (LC 17), 10=-91 (LC 17), 11=-61 (LC 17), 13=-63 (LC 16), 14=-97 (LC 16)
	Max Grav	2=213 (LC 23), 8=213 (LC 24), 10=295 (LC 24), 11=292 (LC 24), 12=165 (LC 1), 13=292 (LC 23), 14=295 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/47, 2-3=-58/29, 3-4=-89/91, 4-5=-95/167, 5-6=-95/167, 6-7=-89/91, 7-8=-58/25, 8-9=0/47
BOT CHORD	2-14=-8/70, 13-14=-8/70, 12-13=-8/70, 11-12=-8/70, 10-11=-8/70, 8-10=-8/70
WEBS	5-12=-123/0, 4-13=-258/147, 3-14=-231/164, 6-11=-258/147, 7-10=-231/164

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-2 to 2-0-0, Exterior(2N) 2-0-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 12-9-2 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2, 18 lb uplift at joint 8, 63 lb uplift at joint 13, 97 lb uplift at joint 14, 61 lb uplift at joint 11, 91 lb uplift at joint 10, 28 lb uplift at joint 2 and 18 lb uplift at joint 8.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S)

Standard



September 18,2025

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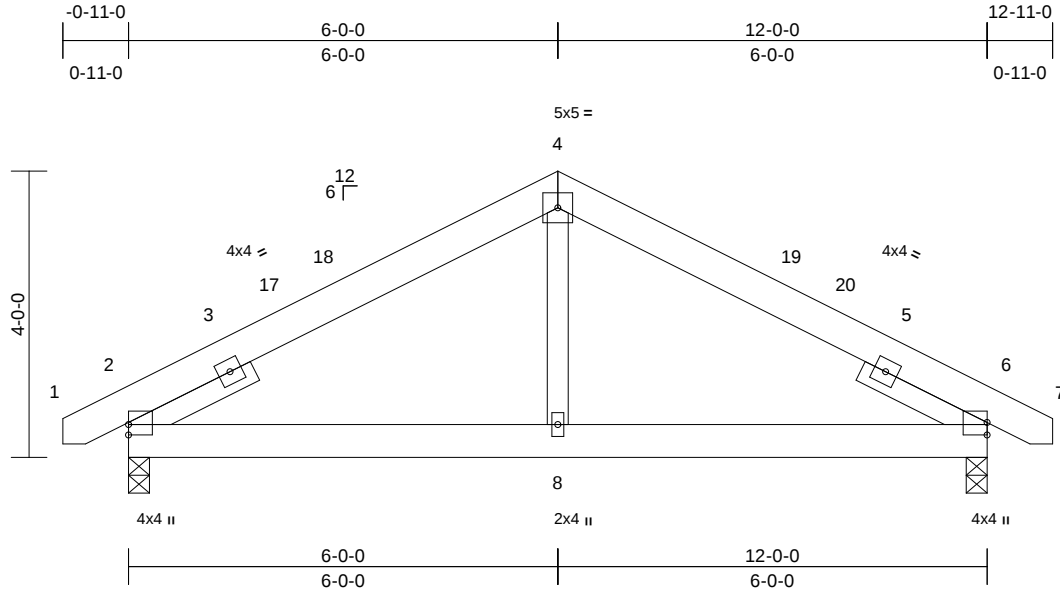
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	B02	Common	2	1	Job Reference (optional)	I76420845

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:25
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Page: 1



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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	0.21	Vert(LL)	-0.02	8-15	>999	360	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	8-15	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8-11	>999	240		
BCDL	10.0										Weight: 75 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 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=68 (LC 20)
Max Uplift	2=-118 (LC 16), 6=-118 (LC 17)
Max Grav	2=791 (LC 23), 6=791 (LC 24)

FORCES

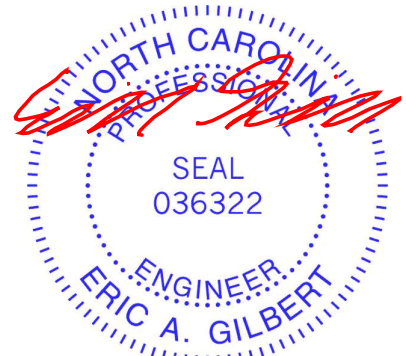
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/47, 2-4=-705/306, 4-6=-705/306, 6-7=0/47
BOT CHORD	2-8=-135/575, 6-8=-134/575
WEBS	4-8=0/237

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-2 to 2-2-14, Interior (1) 2-2-14 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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 118 lb uplift at joint 2 and 118 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



September 18, 2025

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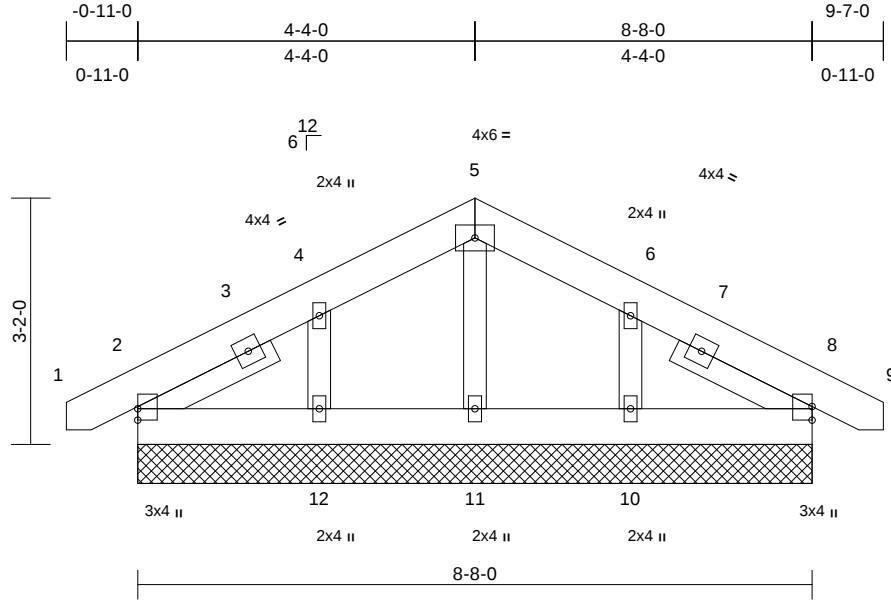
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	C01GE	Common Supported Gable	1	1	Job Reference (optional)	176420846

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:25
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Page: 1



Scale = 1:29.6

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	0.03	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.02	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS							
BCDL	10.0										
										Weight: 61 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size)	2=8-8-0, 8=8-8-0, 10=8-8-0, 11=8-8-0, 12=8-8-0
Max Horiz	2=-51 (LC 17)
Max Uplift	2=-31 (LC 17), 8=-38 (LC 17), 10=-99 (LC 17), 12=-104 (LC 16)
Max Grav	2=272 (LC 23), 8=272 (LC 24), 10=347 (LC 24), 11=122 (LC 23), 12=347 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/47, 2-4=-55/65, 4-5=-105/168, 5-6=-105/168, 6-8=-55/60, 8-9=0/47
BOT CHORD	2-12=-2/52, 11-12=-2/52, 10-11=-2/52, 8-10=-2/52
WEBS	5-11=-94/0, 4-12=-276/224, 6-10=-276/222

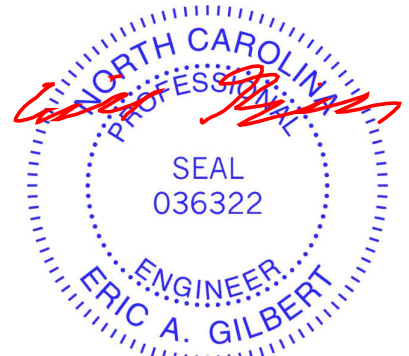
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-2 to 2-4-0, Exterior(2N) 2-4-0 to 4-4-0, Corner(3R) 4-4-0 to 7-4-0, Exterior(2N) 7-4-0 to 9-5-2 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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 31 lb uplift at joint 2, 38 lb uplift at joint 8, 104 lb uplift at joint 12, 99 lb uplift at joint 10, 31 lb uplift at joint 2 and 38 lb uplift at joint 8.

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

LOAD CASE(S) Standard



September 18,2025

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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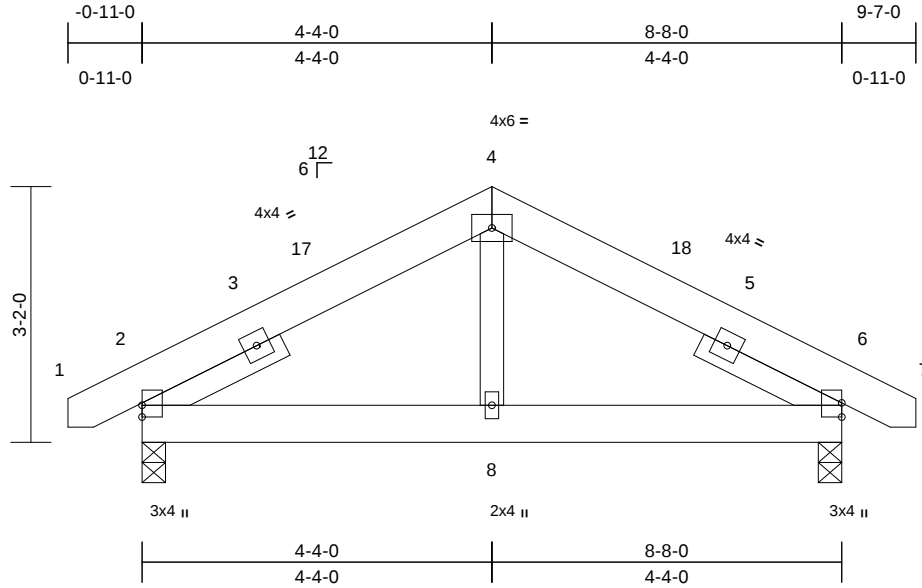
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	C02	Common	3	1	Job Reference (optional)	I76420847

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:25
ID:DKmlE5K22Wn41hQUa88RHqycnEH-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:28.5

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	0.12	Vert(LL)	-0.01	8-15	>999	360	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	8-15	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	8-11	>999	240		
BCDL	10.0										Weight: 57 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 -- 1-11-0, Right 2x4 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-51 (LC 17)
Max Uplift	2=-91 (LC 16), 6=-91 (LC 17)
Max Grav	2=623 (LC 23), 6=623 (LC 24)

FORCES

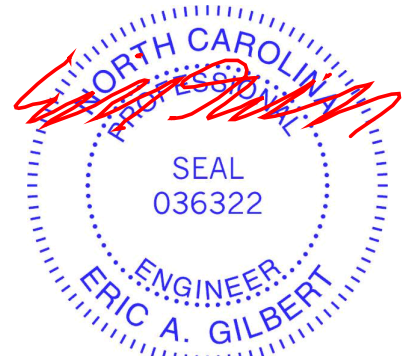
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/47, 2-4=-431/256, 4-6=-431/256, 6-7=0/47
BOT CHORD	2-8=-115/360, 6-8=-105/360
WEBS	4-8=-20/165

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-2 to 2-2-14, Interior (1) 2-2-14 to 4-4-0, Exterior(2R) 4-4-0 to 7-4-0, Interior (1) 7-4-0 to 9-5-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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 91 lb uplift at joint 2 and 91 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



September 18, 2025

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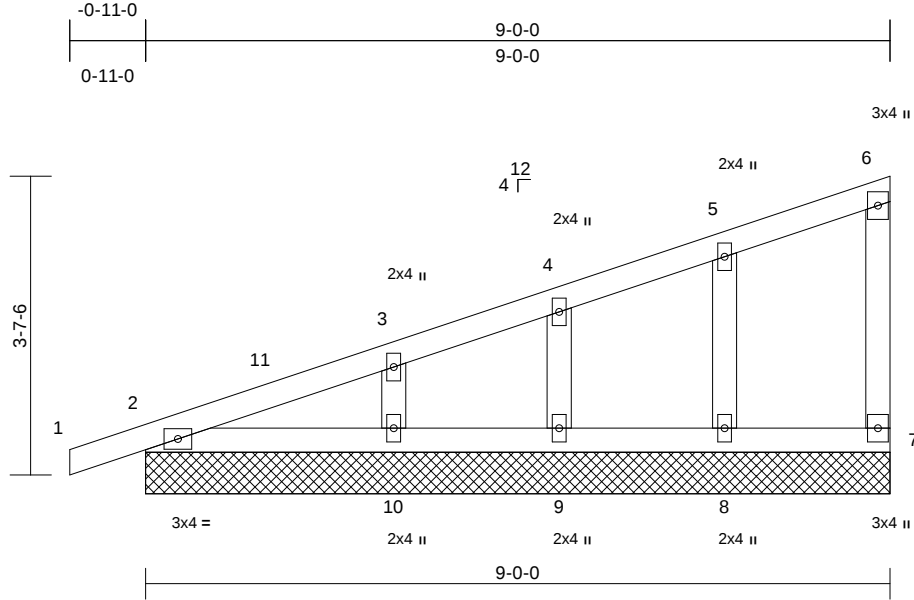
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	M01GE	GABLE	1	1	176420848
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:25
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Page: 1



Scale = 1:27.9

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-S							
BCDL	10.0										
Weight: 40 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

(size)	2=9'-0'-0, 7=9'-0'-0, 8=9'-0'-0, 9=9'-0'-0, 10=9'-0'-0
Max Horiz	2=157 (LC 12)
Max Uplift	2=-43 (LC 12), 7=-20 (LC 12), 8=-62 (LC 16), 9=-50 (LC 12), 10=-80 (LC 16)
Max Grav	2=217 (LC 23), 7=97 (LC 23), 8=298 (LC 23), 9=231 (LC 23), 10=372 (LC 23)

FORCES

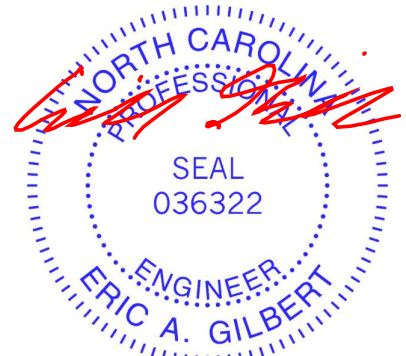
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/36, 2-3=-260/84, 3-4=-161/48, 4-5=-102/39, 5-6=-41/19, 6-7=-83/68
BOT CHORD	2-10=0/0, 9-10=0/0, 8-9=0/0, 7-8=0/0
WEBS	5-8=-253/210, 4-9=-200/163, 3-10=-310/274

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 8-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 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 20 lb uplift at joint 7, 43 lb uplift at joint 2, 62 lb uplift at joint 8, 50 lb uplift at joint 9 and 80 lb uplift at joint 10.

LOAD CASE(S) Standard



September 18,2025

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818 Soundside Road
Edenton, NC 27932

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 251269-B
Lot 33 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: I76420823 thru I76420837

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

North Carolina COA: C-0844



September 18, 2025

Gilbert, Eric

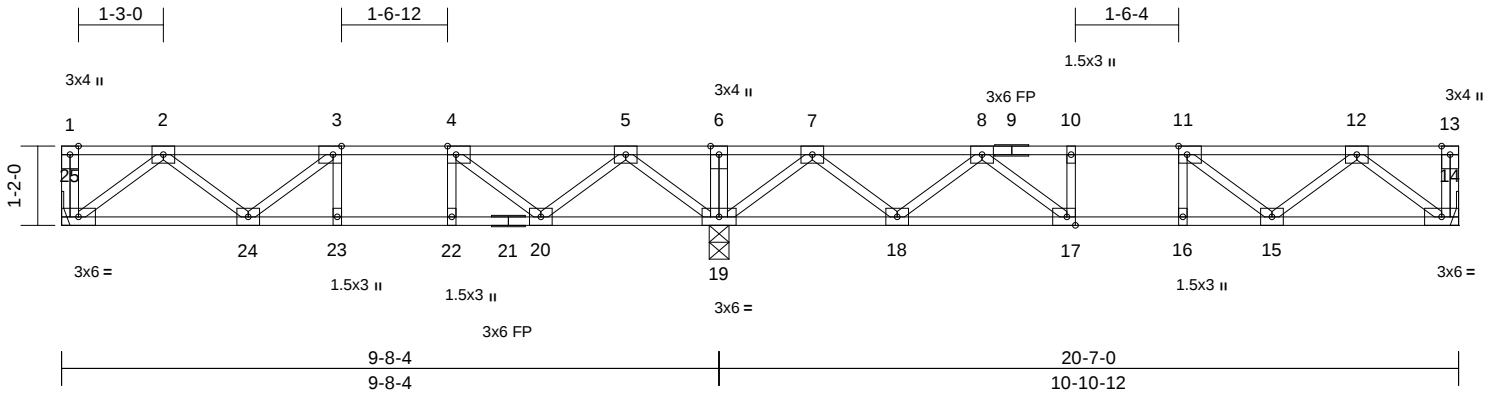
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 33 Duncan's Creek
251269-B	F01	Floor	7	1	Job Reference (optional)
					I76420823

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:58
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Page: 1



Scale = 1:33.9									
Plate Offsets (X, Y): [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [17:0-1-8,Edge]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.04	23-24	>999
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.05	23-24	>999
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	14	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					n/a
									Weight: 105 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20,18-19.

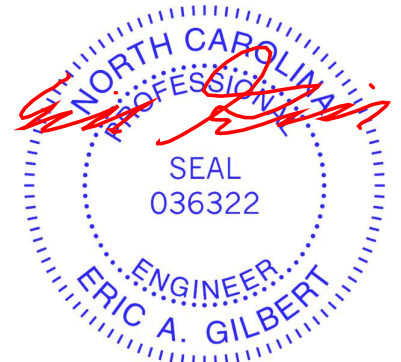
REACTIONS (size) 14= Mechanical, 19=0-3-8, 25= Mechanical
Max Grav 14=428 (LC 7), 19=1036 (LC 1), 25=379 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-25=-25/0, 13-14=-29/0, 1-2=0/0, 2-3=-635/0, 3-4=-773/0, 4-5=-464/157, 5-6=0/751, 6-7=0/751, 7-8=-519/46, 8-10=-988/0, 10-11=-988/0, 11-12=-761/0, 12-13=0/0
BOT CHORD 24-25=0/457, 23-24=0/773, 22-23=0/773, 20-22=0/773, 19-20=-302/176, 18-19=-178/167, 17-18=0/854, 16-17=0/988, 15-16=0/988, 14-15=0/515
WEBS 6-19=-83/0, 5-19=-729/0, 2-25=-573/0, 5-20=0/443, 2-24=0/232, 4-20=-495/0, 3-24=-176/73, 3-23=-114/0, 4-22=0/134, 7-19=-821/0, 12-14=-646/0, 7-18=0/501, 12-15=0/321, 8-18=-487/0, 11-15=-290/0, 8-17=0/327, 10-17=-129/0, 11-16=-69/32

- 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) Refer to girder(s) for truss to truss connections.

- 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



September 18,2025

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818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59 Page: 1
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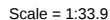


Plate Offsets (X, Y): [4:0-1-8,Edge], [12:0-1-8,Edge], [18:0-1-8,Edge], [21:0-1-8,Edge]

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

REACTIONS

(size)	15= Mechanical, 20=0-3-8, 24=0-3-8, 25= Mechanical
Max Uplift	25=-43 (LC 4)
Max Grav	15=427 (LC 5), 20=871 (LC 12) 24=465 (LC 11), 25=124 (LC 3)

FORCES

(Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-53/0, 14-15=-29/0, 1-2=0/0, 2-3=0/320,
3-4=0/319, 4-5=-205/261, 5-6=-205/261,
6-7=0/652, 7-8=0/652, 8-10=-512/10,
10-11=-983/0, 11-12=-983/0, 12-13=-758/0,
13-14=0/0

BOT CHORD 24-25=-102/97, 22-24=-261/205,
21-22=-261/205, 20-21=-367/0,
19-20=-138/155, 18-19=0/847, 17-18=0/983,
16-17=0/983, 15-16=0/513

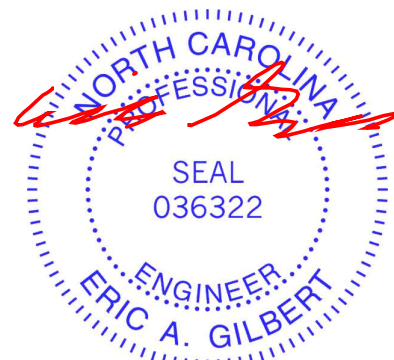
WEBS 3-24=-119/0, 7-20=-99/0, 2-25=-114/121,
2-24=-329/0, 4-24=-311/2, 8-20=-795/0,
13-15=-644/0, 8-19=0/486, 13-16=0/319,
10-19=-465/0, 12-16=-287/0, 10-18=0/314,
11-18=-124/0, 12-17=-65/37, 4-22=-7/13,
6-20=-423/0, 6-21=0/318, 5-21=-171/0

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) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 25.
- 6) 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.
- 7) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard



September 18, 2025



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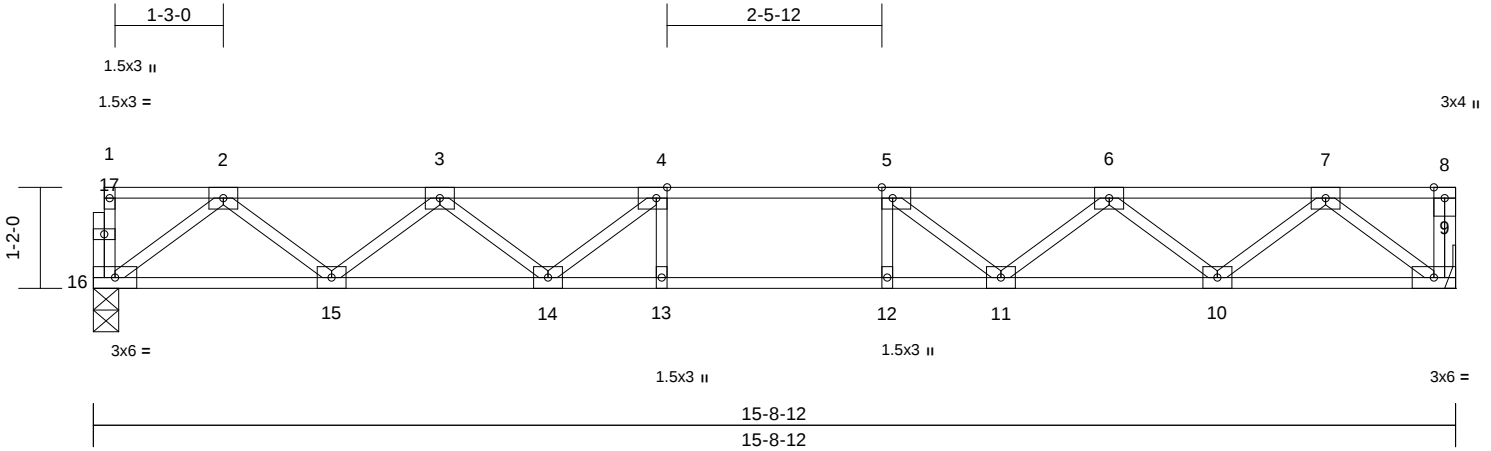
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	F02	Floor	11	1	176420825
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59
ID:OohxTn5yaOslit4T8DFUp8ygnSn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCdoi7J4zJC?f

Page: 1



Scale = 1:26.6

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,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	0.37	Vert(LL)	-0.16	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.21	11-12	>890	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 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.

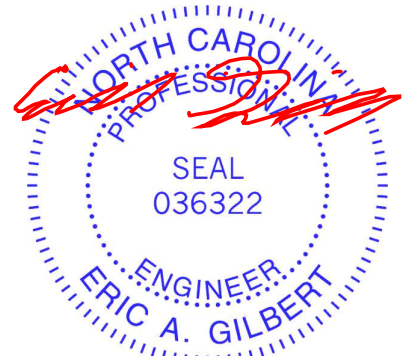
REACTIONS (size) 9= Mechanical, 16=0-3-8
Max Grav 9=681 (LC 1), 16=676 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-16=-33/0, 8-9=-36/0, 1-2=-2/0, 2-3=-1399/0,
3-4=-2211/0, 4-5=-2490/0, 5-6=-2211/0,
6-7=-1399/0, 7-8=0/0
BOT CHORD 15-16=0/840, 14-15=0/1929, 13-14=0/2490,
12-13=0/2490, 11-12=0/2490, 10-11=0/1929,
9-10=0/841
WEBS 7-9=-1055/0, 2-16=-1052/0, 7-10=0/726,
2-15=0/727, 6-10=-690/0, 3-15=-691/0,
6-11=0/416, 3-14=0/416, 5-11=-520/0,
4-14=-520/0, 4-13=-102/134, 5-12=-102/134

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) Refer to girder(s) for truss to truss connections.
- 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



September 18, 2025

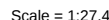
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59 Page: 1
ID:mOfOwM03OGLZ2W9i DvwWycnR6-RfC?PsB70Ha3NSaPanL8w3ulTXbGKWRcDoi7J4zJC?i



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	0.34	Vert(LL)	-0.16	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.23	12-13	>839	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 11%E

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)

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.

Max Grav	10=695 (LC 1). 18=695 (LC 1)
----------	------------------------------

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-33/0, 9-10=-31/0, 1-2=-2/0,
2-3=-1447/0, 3-4=-2304/0, 4-5=-2633/0,
5-6=-2633/0, 6-7=-2309/0, 7-8=-1446/0,
8-9=-2/0

BOT CHORD 17-18=0/867, 15-17=0/1997, 14-15=0/2633,
13-14=0/2633, 12-13=0/2579, 11-12=0/2004,
10-11=0/865

WEBS 8-10=-1082/0, 2-18=-1085/0, 8-11=0/757,
2-17=0/755, 7-11=-726/0, 3-17=-716/0,
7-12=0/397, 3-15=0/437, 6-12=-351/0,
4-15=-535/0, 6-13=-156/345, 4-14=-65/140,
5-13=-142/19

- 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.

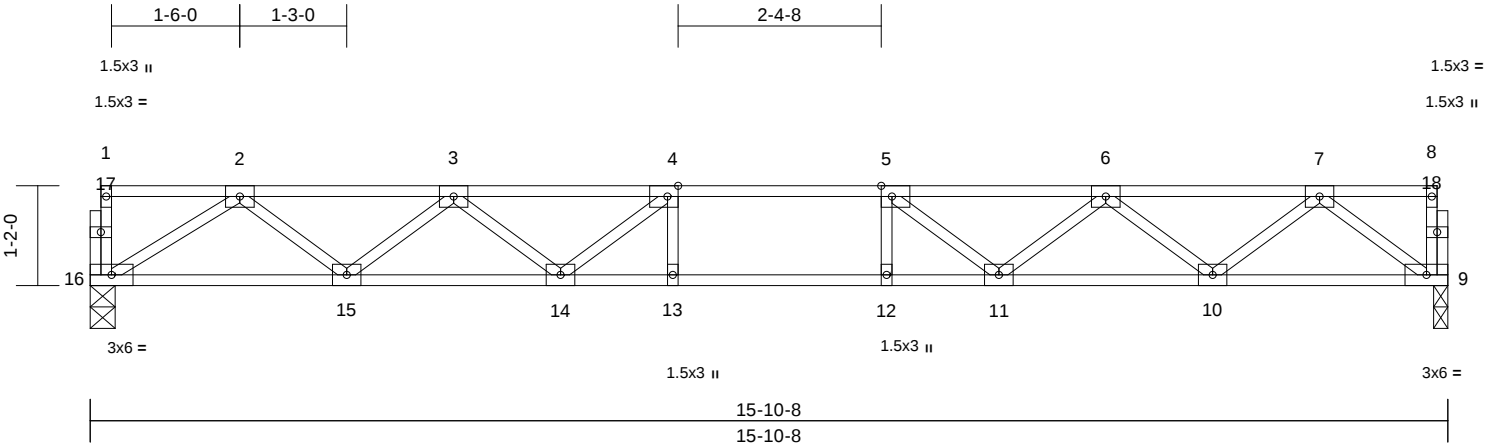
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	F04	Floor	3	1	176420827
Job Reference (optional)					



Scale = 1:26.9

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,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	0.38	Vert(LL)	-0.17	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.22	13-14	>854	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 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.

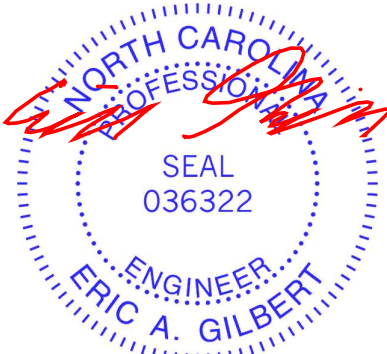
REACTIONS (size) 9=0-2-0, 16=0-3-8
Max Grav 9=682 (LC 1), 16=682 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-16=-46/0, 8-9=-33/0, 1-2=-3/0, 2-3=-1522/0,
3-4=-2294/0, 4-5=-2540/0, 5-6=-2242/0,
6-7=-1415/0, 7-8=-2/0
BOT CHORD 15-16=0/981, 14-15=0/2035, 13-14=0/2540,
12-13=0/2540, 11-12=0/2540, 10-11=0/1951,
9-10=0/849
WEBS 7-9=-1063/0, 2-16=-1162/0, 7-10=0/736,
2-15=0/704, 6-10=-699/0, 3-15=-668/0,
6-11=0/424, 3-14=0/396, 5-11=-536/0,
4-14=-490/0, 4-13=-114/126, 5-12=-95/144

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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 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.

LOAD CASE(S) Standard



September 18,2025

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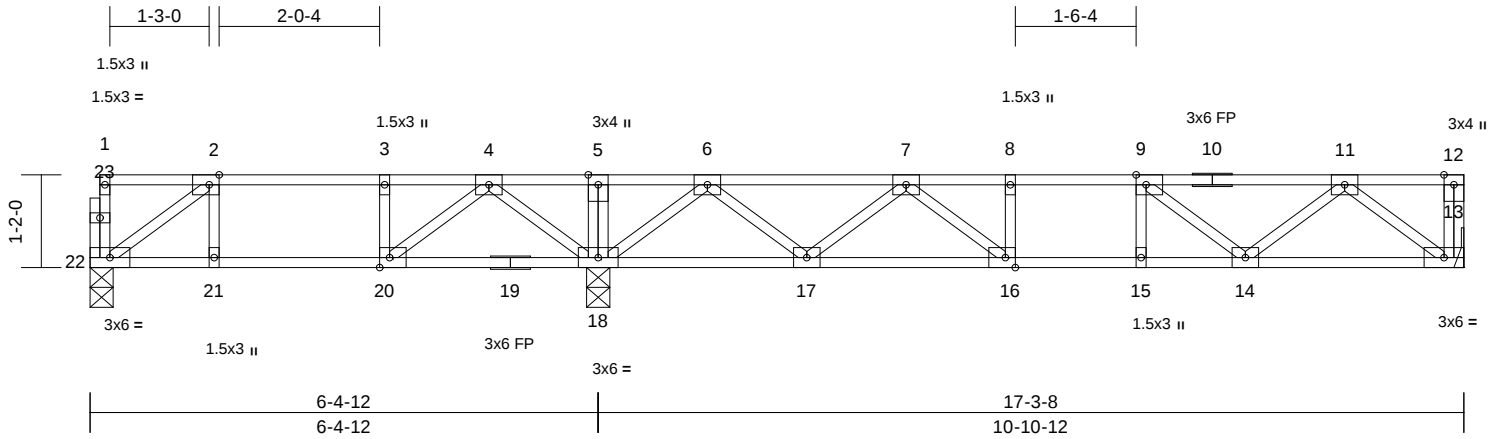
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	F05	Floor	4	1	176420828
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59
ID:XTBGkkvPVAec4zMnS2fmDZycnQS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29

Plate Offsets (X, Y): [2:0-1-8,Edge], [9:0-1-8,Edge], [16:0-1-8,Edge], [20:0-1-8,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	0.21	Vert(LL)	-0.04	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.05	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 88 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 6-0-0 oc bracing.

REACTIONS (size) 13= Mechanical, 18=0-3-8, 22=0-3-8
Max Grav 13=441 (LC 4), 18=881 (LC 8), 22=220 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-53/0, 12-13=-30/0, 1-2=-3/0, 2-3=-253/32, 3-4=-253/32, 4-5=0/521, 5-6=0/521, 6-7=-624/0, 7-8=-1048/0, 8-9=-1048/0, 9-11=-795/0, 11-12=0/0
BOT CHORD 21-22=-32/253, 20-21=-32/253, 18-20=-183/52, 17-18=-114/282, 16-17=0/940, 15-16=0/1048, 14-15=0/1048, 13-14=0/530
WEBS 5-18=-109/0, 4-18=-486/0, 2-22=-310/41, 4-20=0/364, 2-21=-20/17, 3-20=-186/0, 6-18=-779/0, 11-13=-665/0, 6-17=0/474, 11-14=0/344, 7-17=-448/0, 9-14=-323/0, 7-16=0/305, 8-16=-121/0, 9-15=-62/50

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) Refer to girder(s) for truss to truss connections.



September 18, 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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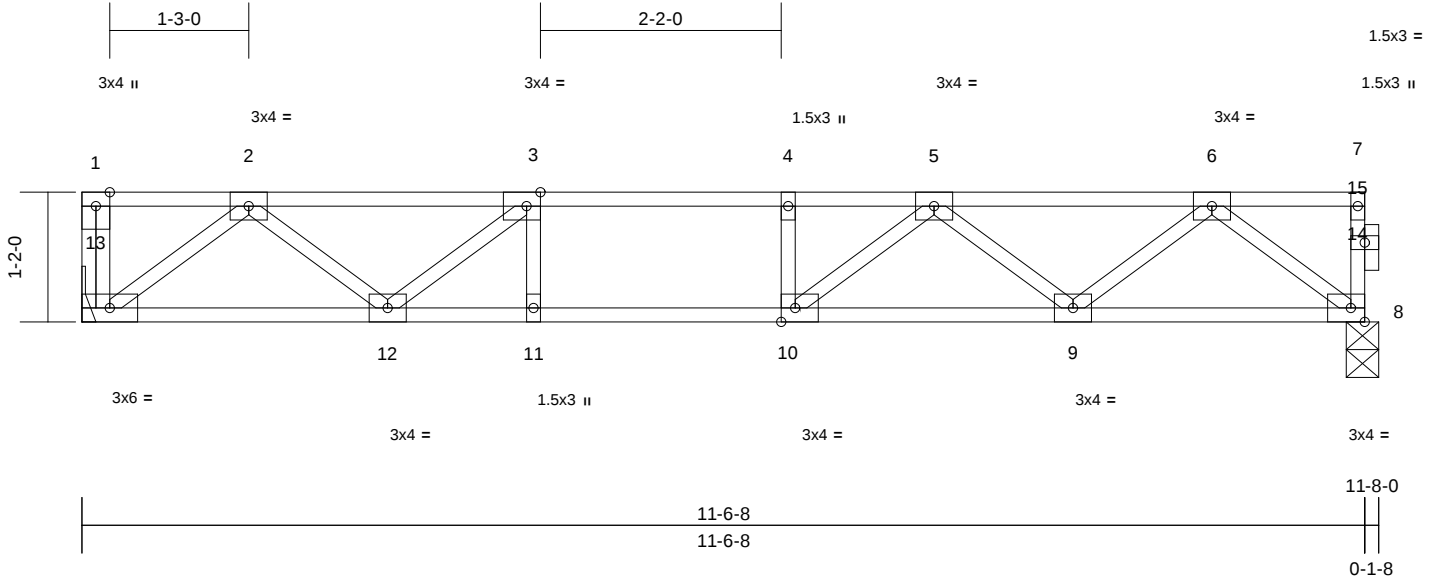
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-B	F06	Floor	4	1	Job Reference (optional)	I76420829

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59
ID:3Y9J5C5Rk4fL?RbrOPyWsxycnQC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20.7

Plate Offsets (X, Y): [3:0-1-8,Edge], [10:0-1-8,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	0.35	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.11	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 58 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=0-3-8, 13= Mechanical
Max Grav 8=499 (LC 1), 13=499 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-13=-37/0, 7-8=-29/0, 1-2=0/0, 2-3=-945/0,
3-4=-1317/0, 4-5=-1317/0, 5-6=-930/0,
6-7=0/0

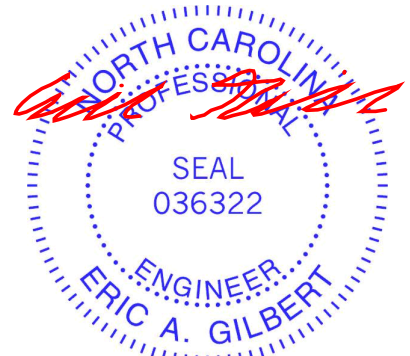
BOT CHORD 12-13=0/596, 11-12=0/1317, 10-11=0/1317,
9-10=0/1233, 8-9=0/585

WEBS 6-8=-747/0, 2-13=-747/0, 6-9=0/449,
2-12=0/454, 5-9=-395/0, 3-12=-494/0,
5-10=-26/289, 3-11=-23/112, 4-10=-136/0

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

LOAD CASE(S) Standard



September 18, 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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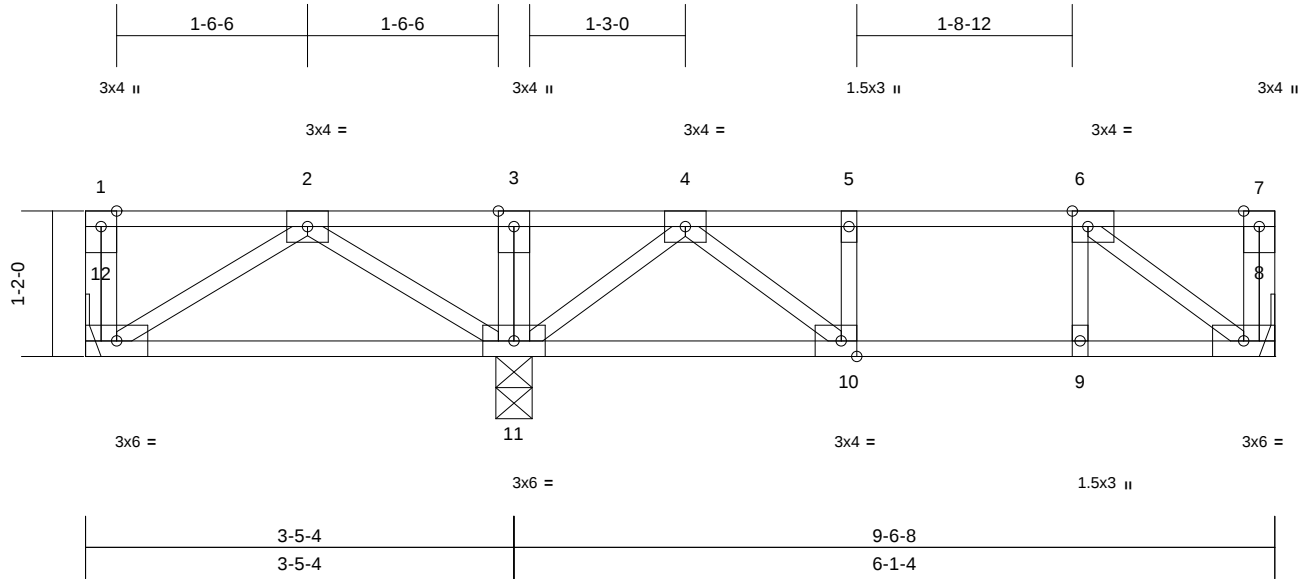
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	F07	Floor	2	1	176420830
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59
ID:j7PHB6Sev?JD_ulQa_zJX2ycnPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:18.5

Plate Offsets (X, Y): [6:0-1-8,Edge], [10:0-1-8,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	0.13	Vert(LL)	-0.01	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.01	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 51 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
6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing, Except:
6-0-0 oc bracing: 11-12.

REACTIONS (size) 8= Mechanical, 11=0-3-8, 12=
Mechanical
Max Uplift 12=-43 (LC 4)
Max Grav 8=218 (LC 4), 11=557 (LC 7),
12=118 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-12=-53/0, 7-8=-43/3, 1-2=0/0, 2-3=0/297,
3-4=0/296, 4-5=-242/0, 5-6=-242/0, 6-7=0/0
BOT CHORD 11-12=-102/89, 10-11=0/76, 9-10=0/242,
8-9=0/242
WEBS 3-11=-126/0, 2-12=-105/120, 2-11=-314/0,
4-11=-396/0, 6-8=-299/0, 4-10=0/218,
5-10=-125/0, 6-9=0/23

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 43 lb uplift at joint 12.
- 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.



September 18, 2025

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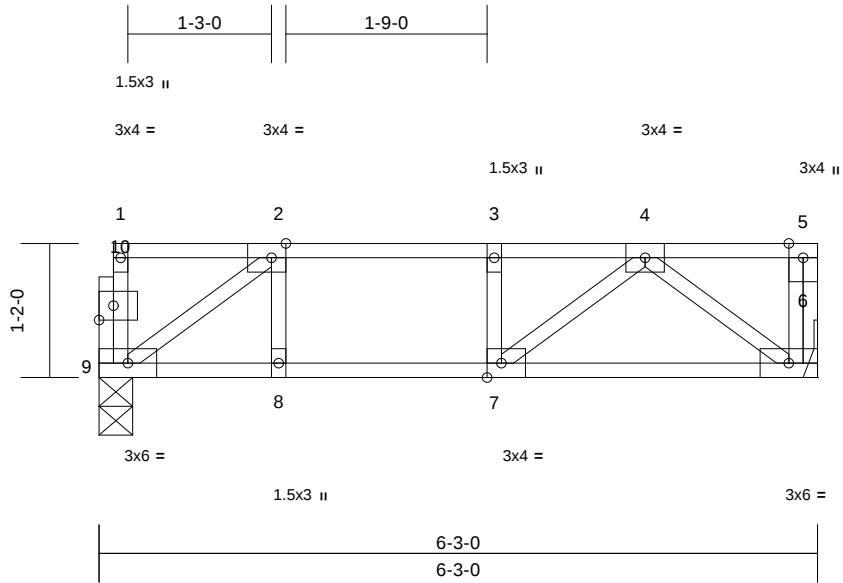
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	F09	Floor	2	1	Job Reference (optional)
					I76420831

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59
ID:fn3SACgYQqiXmpF4BUmpmp3ycnPS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:20

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.04	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(flat)
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" oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS	(size) 6= Mechanical, 9=0-3-8
	Max Grav 6=264 (LC 1), 9=259 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-9=-33/26, 5-6=-41/0, 1-2=-2/2, 2-3=-348/0, 3-4=-348/0, 4-5=0/0
BOT CHORD	8-9=0/348, 7-8=0/348, 6-7=0/273
WEBS	4-6=-342/0, 2-9=-428/0, 4-7=0/145, 2-8=0/64, 3-7=-76/0

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) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 18,2025

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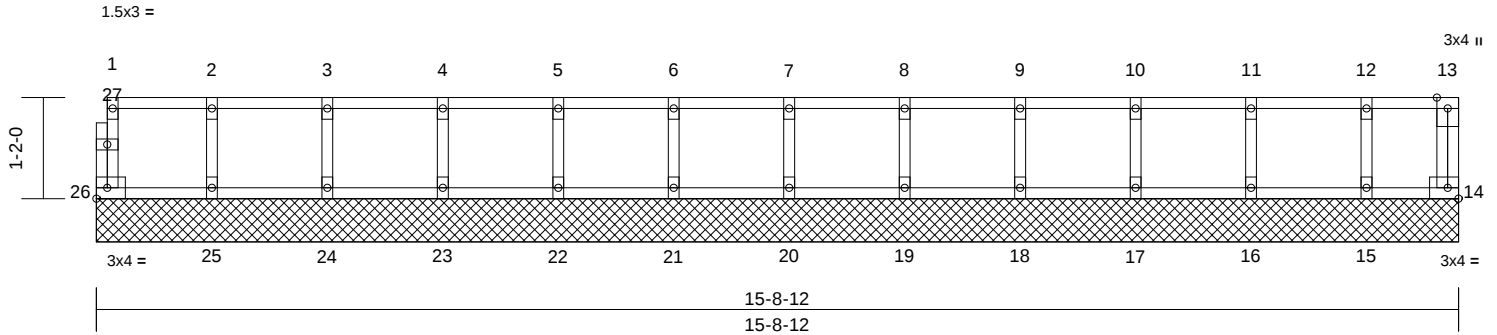
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	FKW1	Floor Supported Gable	1	1	176420832
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59
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Page: 1



Scale = 1:26.6

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 67 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) 14=15-8-12, 15=15-8-12,
16=15-8-12, 17=15-8-12,
18=15-8-12, 19=15-8-12,
20=15-8-12, 21=15-8-12,
22=15-8-12, 23=15-8-12,
24=15-8-12, 25=15-8-12,
26=15-8-12
Max Grav 14=37 (LC 1), 15=101 (LC 1),
16=121 (LC 1), 17=116 (LC 1),
18=117 (LC 1), 19=117 (LC 1),
20=117 (LC 1), 21=117 (LC 1),
22=117 (LC 1), 23=117 (LC 1),
24=118 (LC 1), 25=117 (LC 1),
26=43 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

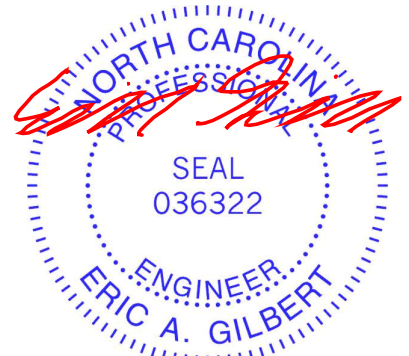
TOP CHORD 1-26=-40/0, 13-14=-32/0, 1-2=-6/0, 2-3=-6/0,
3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0,
7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0,
11-12=-6/0, 12-13=-6/0
BOT CHORD 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6,
21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6,
17-18=0/6, 16-17=0/6, 15-16=0/6, 14-15=0/6
WEBS 2-25=-105/0, 3-24=-107/0, 4-23=-106/0,
5-22=-107/0, 6-21=-107/0, 7-20=-107/0,
8-19=-107/0, 9-18=-107/0, 10-17=-106/0,
11-16=-110/0, 12-15=-93/0

NOTES

1) All plates are 1.5x3 (I) 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 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



September 18, 2025

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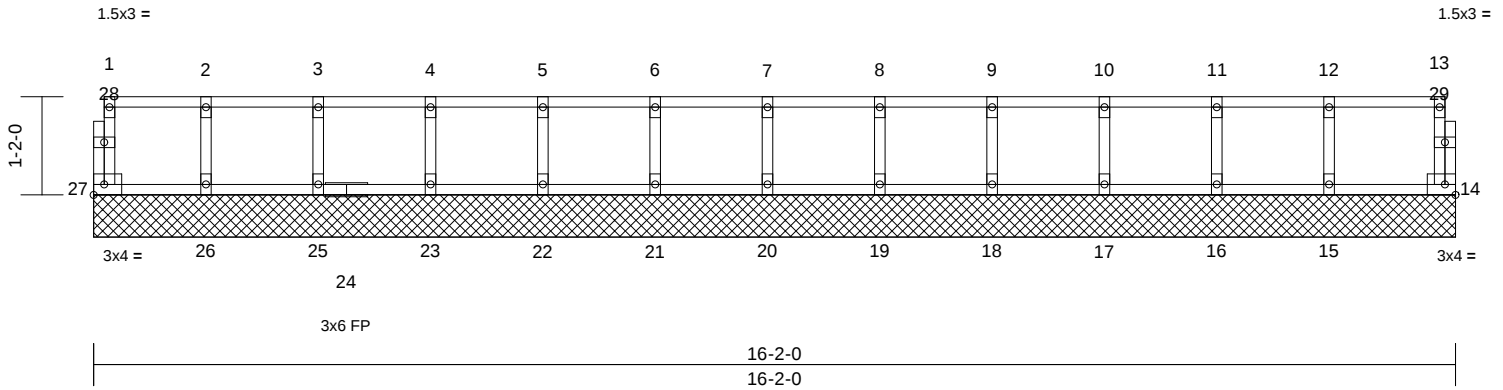
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	FKW2	Floor Supported Gable	1	1	176420833
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:06:59
ID:Yvx6s2lNTAvvxUZAvgvewqcnO3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.4

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	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							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) 14=16-2-0, 15=16-2-0, 16=16-2-0, 17=16-2-0, 18=16-2-0, 19=16-2-0, 20=16-2-0, 21=16-2-0, 22=16-2-0, 23=16-2-0, 25=16-2-0, 26=16-2-0, 27=16-2-0
Max Grav 14=52 (LC 1), 15=124 (LC 1), 16=116 (LC 1), 17=118 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=117 (LC 1), 22=117 (LC 1), 23=117 (LC 1), 25=119 (LC 1), 26=112 (LC 1), 27=47 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

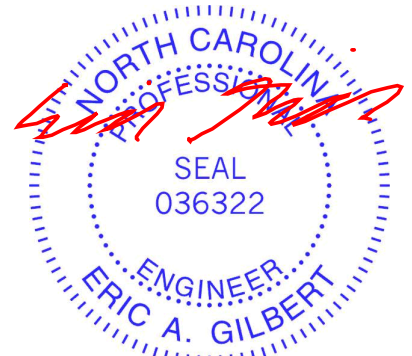
TOP CHORD 1-27=-41/0, 13-14=-48/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-12=-9/0, 12-13=-9/0
BOT CHORD 26-27=0/9, 25-26=0/9, 23-25=0/9, 22-23=0/9, 21-22=0/9, 20-21=0/9, 19-20=0/9, 18-19=0/9, 17-18=0/9, 16-17=0/9, 15-16=0/9, 14-15=0/9
WEBS 2-26=-103/0, 3-25=-108/0, 4-23=-106/0, 5-22=-107/0, 6-21=-107/0, 7-20=-107/0, 8-19=-107/0, 9-18=-107/0, 10-17=-107/0, 11-16=-105/0, 12-15=-112/0

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.

- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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



September 18,2025

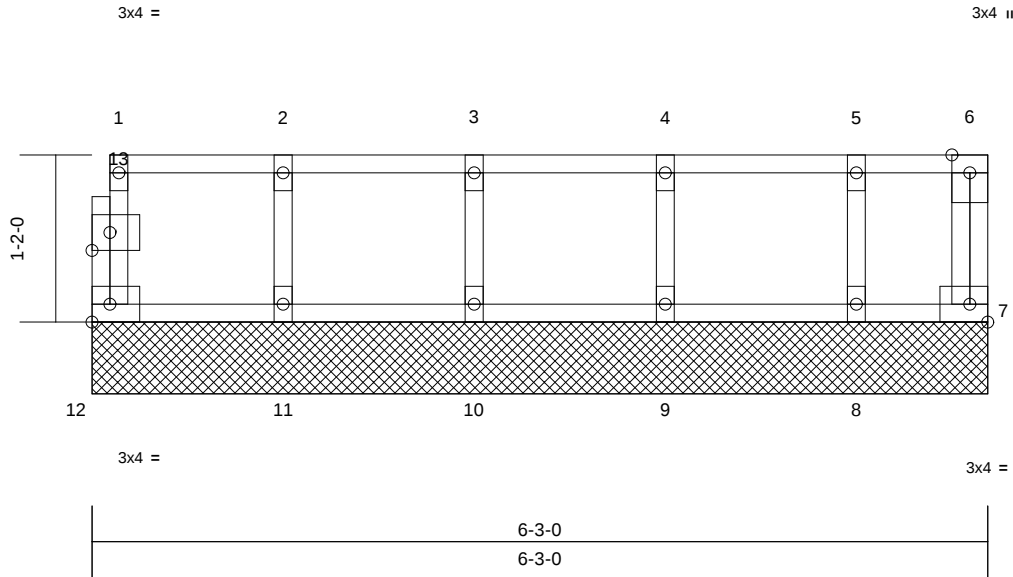
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	FKW3	Floor Supported Gable	1	1	Job Reference (optional)
					I76420834



Scale = 1:16.1

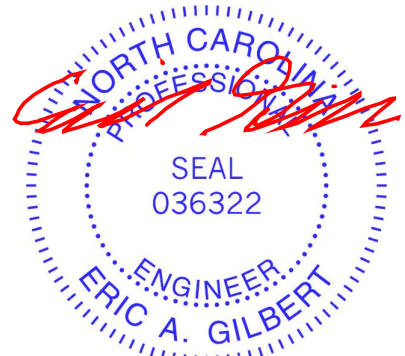
Plate Offsets (X, Y): [13:0-1-8,0-1-8]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 29 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) 7=6-3-0, 8=6-3-0, 9=6-3-0, 10=6-3-0, 11=6-3-0, 12=6-3-0
- Max Grav 7=31 (LC 1), 8=94 (LC 1), 9=122 (LC 1), 10=116 (LC 1), 11=117 (LC 1), 12=42 (LC 1)
- FORCES (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-12=-39/0, 6-7=-25/0, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0, 5-6=-6/0
- BOT CHORD 11-12=0/6, 10-11=0/6, 9-10=0/6, 8-9=0/6, 7-8=0/6
- WEBS 2-11=-106/0, 3-10=-106/0, 4-9=-110/0, 5-8=-88/0

- NOTES
- 1) All plates are 1.5x3 (I) MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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



September 18,2025

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	FKW4	Floor Supported Gable	1	1	Job Reference (optional)
					I76420835

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:00
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Page: 1

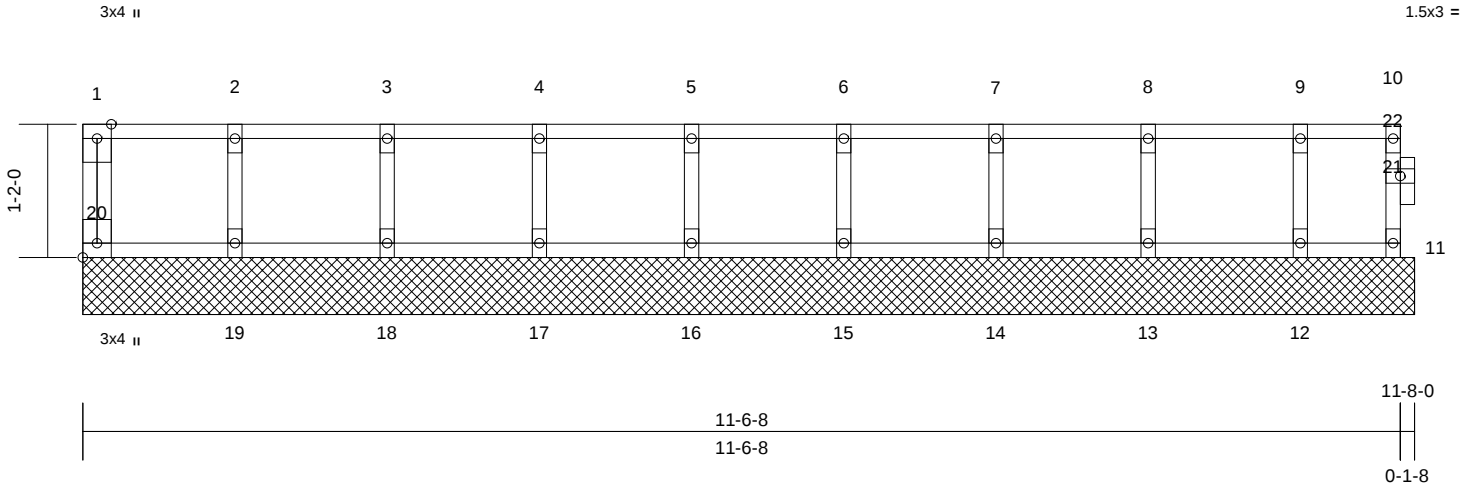
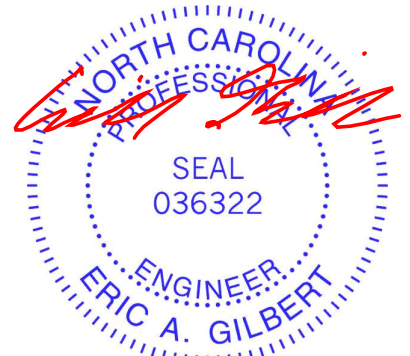


Plate Offsets (X, Y): [20:Edge,0-1-8]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a -	n/a	999
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a -	n/a	999
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00 11	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R					
								PLATES	GRIP
								MT20	244/190
								Weight: 50 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=11-8-0, 12=11-8-0, 13=11-8-0, 14=11-8-0, 15=11-8-0, 16=11-8-0, 17=11-8-0, 18=11-8-0, 19=11-8-0, 20=11-8-0
- Max Grav 11=30 (LC 1), 12=97 (LC 1), 13=121 (LC 1), 14=116 (LC 1), 15=118 (LC 1), 16=117 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=119 (LC 1), 20=46 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-20=-43/0, 10-11=-25/0, 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
- BOT CHORD 19-20=0/5, 18-19=0/5, 17-18=0/5, 16-17=0/5, 15-16=0/5, 14-15=0/5, 13-14=0/5, 12-13=0/5, 11-12=0/5
- WEBS 2-19=-106/0, 3-18=-107/0, 4-17=-107/0, 5-16=-107/0, 6-15=-107/0, 7-14=-106/0, 8-13=-110/0, 9-12=-90/0
- NOTES**
- 1) All plates are 1.5x3 (II) MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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.
- 7) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



September 18,2025

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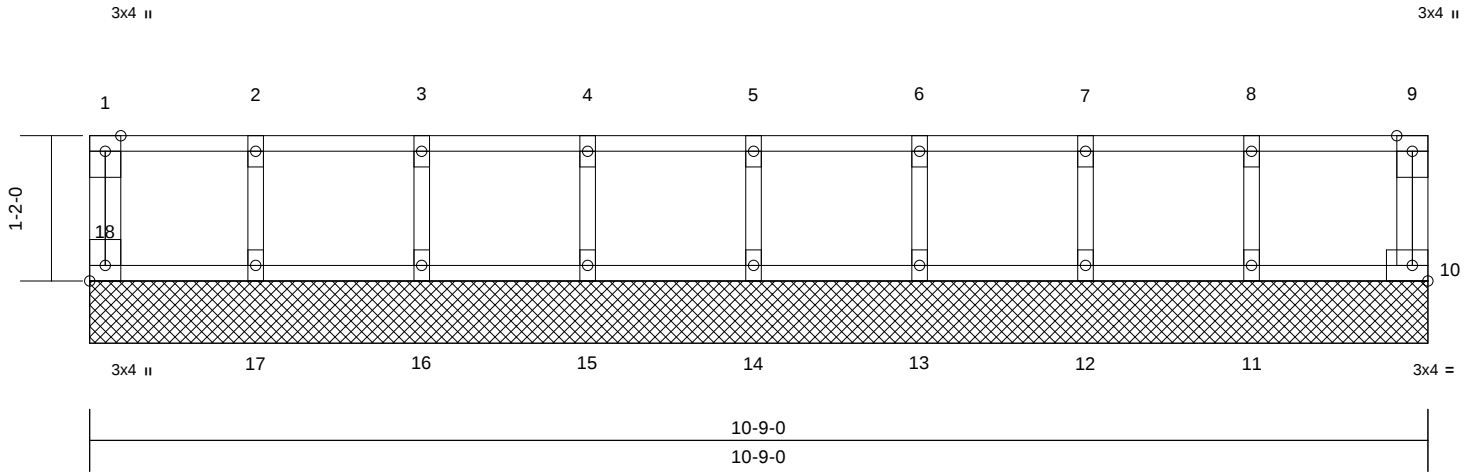
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	FKW5	Floor Supported Gable	1	1	Job Reference (optional)
					I76420836

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:00
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Page: 1



Scale = 1:18.5

Plate Offsets (X, Y): [18:Edge,0-1-8]

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 47 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)

- 6) 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.
7) 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.

REACTIONS (size) 10=10-9-0, 11=10-9-0, 12=10-9-0, 13=10-9-0, 14=10-9-0, 15=10-9-0, 16=10-9-0, 17=10-9-0, 18=10-9-0
Max Grav 10=54 (LC 1), 11=118 (LC 1), 12=117 (LC 1), 13=117 (LC 1), 14=117 (LC 1), 15=117 (LC 1), 16=118 (LC 1), 17=113 (LC 1), 18=51 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-46/0, 9-10=-49/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0
BOT CHORD 17-18=0/9, 16-17=0/9, 15-16=0/9, 14-15=0/9, 13-14=0/9, 12-13=0/9, 11-12=0/9, 10-11=0/9
WEBS 2-17=-104/0, 3-16=-107/0, 4-15=-106/0, 5-14=-107/0, 6-13=-107/0, 7-12=-106/0, 8-11=-108/0

NOTES

- 1) All plates are 1.5x3 (II) MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.



September 18,2025

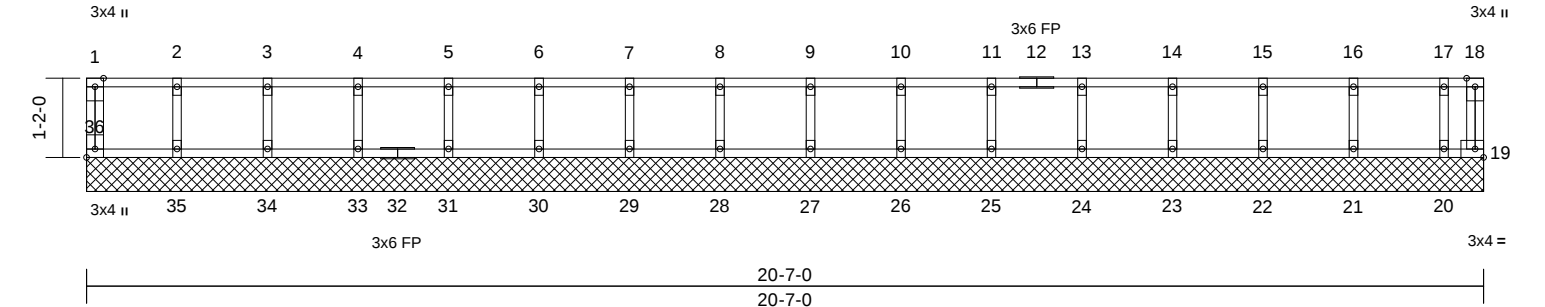
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-B	FKW6	Floor Supported Gable	1	1	Job Reference (optional)
					I76420837

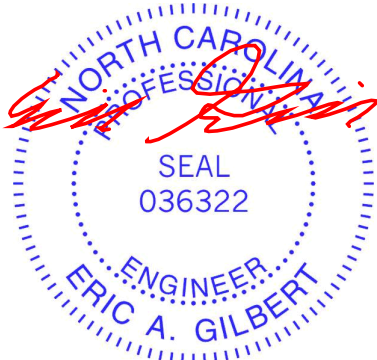


Scale = 1:33.9															
Plate Offsets (X, Y): [36:Edge,0-1-8]															
Loading		(psf)	Spacing		1-7-3	CSI		DEFL		in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		40.0	Plate Grip DOL		1.00	TC		0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL		1.00	BC		0.01	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr		YES	WB		0.03	Horiz(TL)	0.00	19	n/a	n/a		
BCDL		5.0	Code		IRC2021/TPI2014	Matrix-R								Weight: 87 lb	FT = 20%F, 11%E

LUMBER		WEBS	2-35=-106/0, 3-34=-107/0, 4-33=-107/0, 5-31=-107/0, 6-30=-107/0, 7-29=-107/0, 8-28=-107/0, 9-27=-107/0, 10-26=-107/0, 11-25=-107/0, 13-24=-107/0, 14-23=-107/0, 15-22=-106/0, 16-21=-111/0, 17-20=-81/0
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		NOTES	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1) All plates are 1.5x3 (II) MT20 unless otherwise indicated.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	2) Plates checked for a plus or minus 1 degree rotation about its center.	
REACTIONS	(size)	3) Gable requires continuous bottom chord bearing.	
	19=20-7-0, 20=20-7-0, 21=20-7-0, 22=20-7-0, 23=20-7-0, 24=20-7-0, 25=20-7-0, 26=20-7-0, 27=20-7-0, 28=20-7-0, 29=20-7-0, 30=20-7-0, 31=20-7-0, 33=20-7-0, 34=20-7-0, 35=20-7-0, 36=20-7-0	4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).	
	Max Grav	5) Gable studs spaced at 1-4-0 oc.	
	19=12 (LC 1), 20=83 (LC 1), 21=122 (LC 1), 22=116 (LC 1), 23=118 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 27=117 (LC 1), 28=117 (LC 1), 29=117 (LC 1), 30=117 (LC 1), 31=117 (LC 1), 33=117 (LC 1), 34=117 (LC 1), 35=118 (LC 1), 36=47 (LC 1)	6) 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.	
		7) CAUTION, Do not erect truss backwards.	

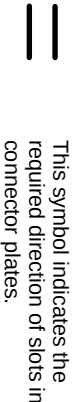
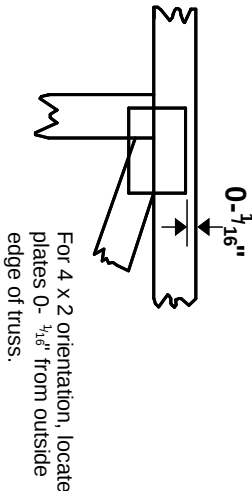
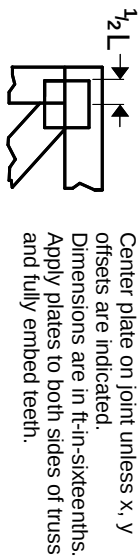
LOAD CASE(S)	Standard
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-36=-43/0, 18-19=-6/0, 1-2=-5/0, 2-3=-5/0, 3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0, 7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0, 11-13=-5/0, 13-14=-5/0, 14-15=-5/0, 15-16=-5/0, 16-17=-5/0, 17-18=-5/0
BOT CHORD	35-36=0/5, 34-35=0/5, 33-34=0/5, 31-33=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, 21-22=0/5, 20-21=0/5, 19-20=0/5



September 18,2025

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

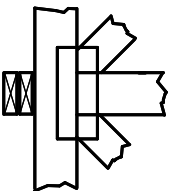
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

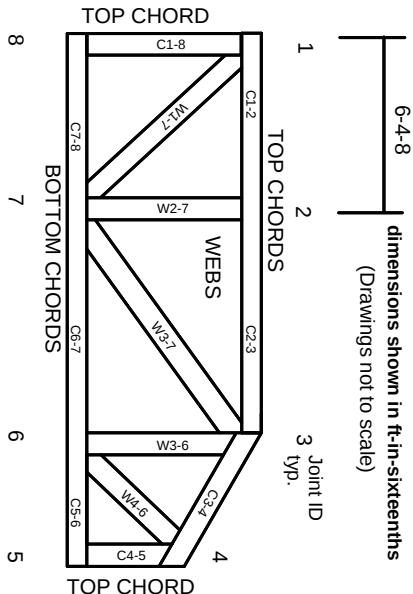


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: 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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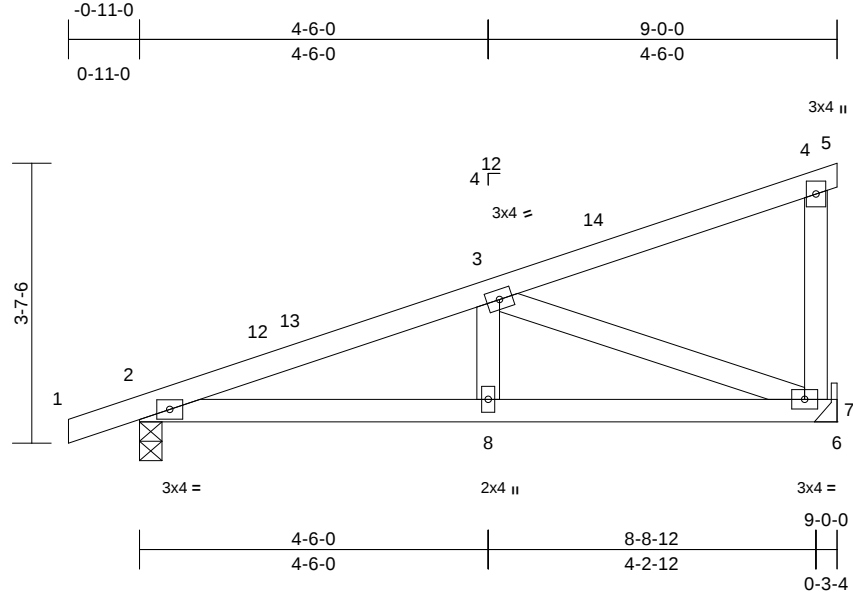
MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	M02	Monopitch	9	1	Job Reference (optional)	I76420849

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:29.7

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	0.29	Vert(LL)	-0.03	8-11	>999	360	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	8-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.02	8-11	>999	240		
BCDL	10.0											
											Weight: 41 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size) 2=0-3-8, 7= Mechanical
	Max Horiz 2=159 (LC 12)
	Max Uplift 2=-124 (LC 12), 7=-127 (LC 16)
	Max Grav 2=613 (LC 23), 7=617 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension

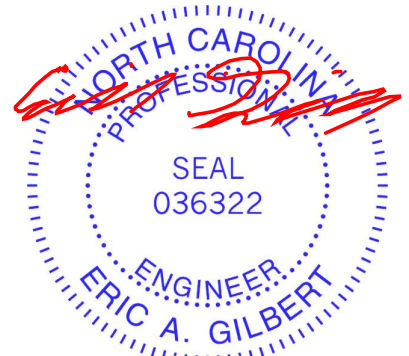
TOP CHORD	1-2=0/41, 2-3=-1044/279, 3-4=-92/47, 4-5=-10/0, 4-7=-227/169
BOT CHORD	2-8=-434/960, 7-8=-434/960, 6-7=0/0
WEBS	3-7=-1022/462, 3-8=0/199

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 9-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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 124 lb uplift at joint 2 and 127 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



September 18,2025

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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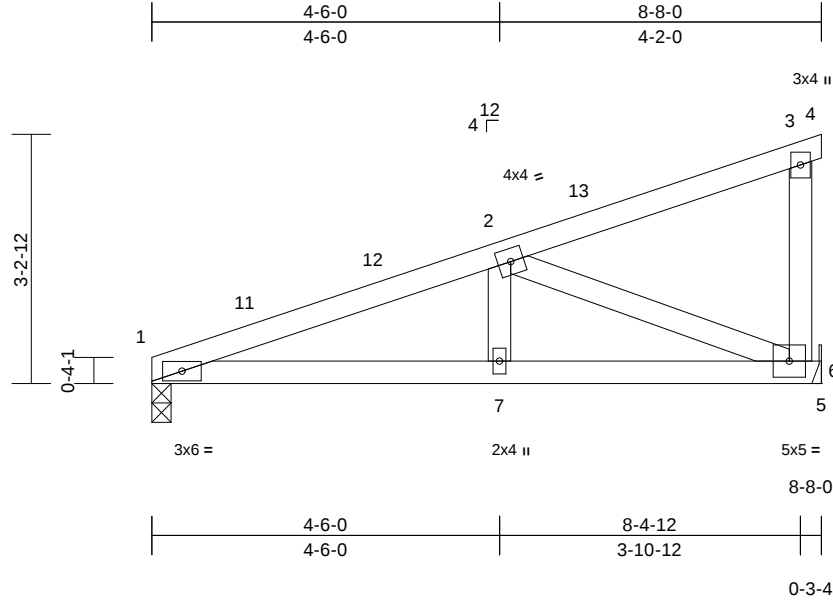
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	M03	Monopitch	4	1	Job Reference (optional)	I76420850

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.03	7-10	>999	360	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	7-10	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	7-10	>999	240		
BCDL	10.0											
											Weight: 38 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(lb/size)	1=419/0-3-0, 6=447/ Mechanical
	Max Horiz	1=135 (LC 12)
	Max Uplift	1=-166 (LC 12), 6=-218 (LC 12)
	Max Grav	1=523 (LC 22), 6=600 (LC 22)

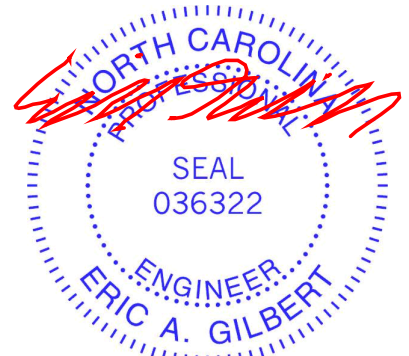
FORCES

	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-11=-991/542, 11-12=-957/545, 2-12=-885/554
BOT CHORD	1-7=-677/908, 6-7=-677/908
WEBS	2-6=-976/728

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 at joint(s) 1.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 1 and 218 lb uplift at joint 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard



September 18, 2025

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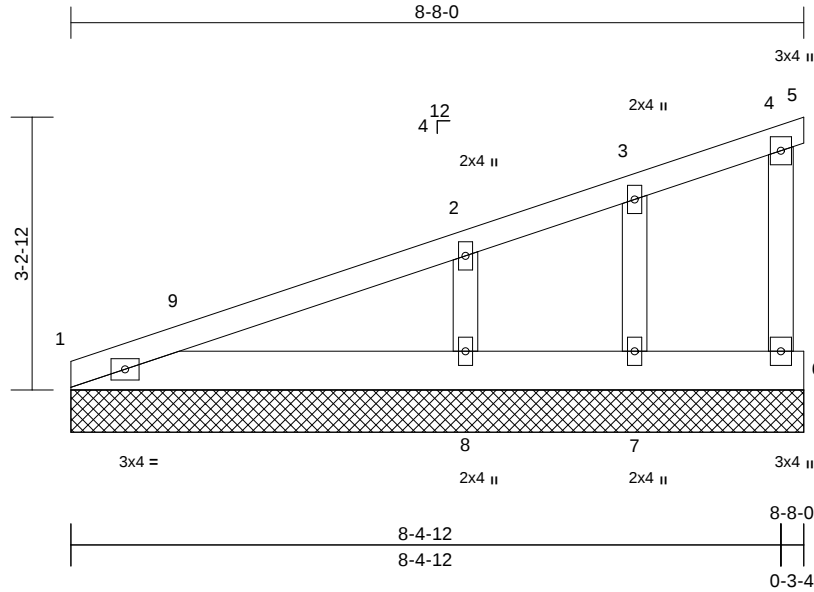
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	M04GE	Monopitch Supported Gable	1	1	Job Reference (optional)	I76420851

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:27.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-P								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	1=8-8-0, 5=8-8-0, 6=8-8-0, 7=8-8-0, 8=8-8-0
	Max Horiz	1=133 (LC 12)
	Max Uplift	1=-9 (LC 12), 5=-46 (LC 22), 6=-57 (LC 12), 7=-17 (LC 12), 8=-134 (LC 12)
	Max Grav	1=218 (LC 22), 5=17 (LC 12), 6=211 (LC 22), 7=95 (LC 22), 8=640 (LC 22)

FORCES

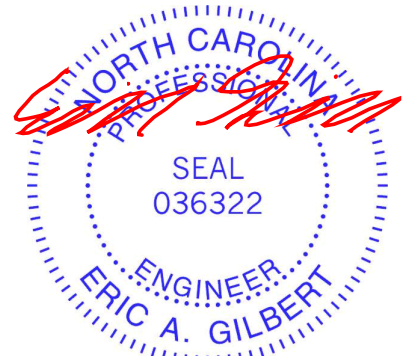
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-235/95, 2-3=-74/18, 3-4=-46/36, 4-5=-24/13, 4-6=-192/164
BOT CHORD	1-8=0/0, 7-8=0/0, 6-7=0/0
WEBS	3-7=-81/62, 2-8=-543/466

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-8-0 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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 9 lb uplift at joint 1, 46 lb uplift at joint 5, 57 lb uplift at joint 6, 17 lb uplift at joint 7 and 134 lb uplift at joint 8.

LOAD CASE(S) Standard



September 18,2025

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

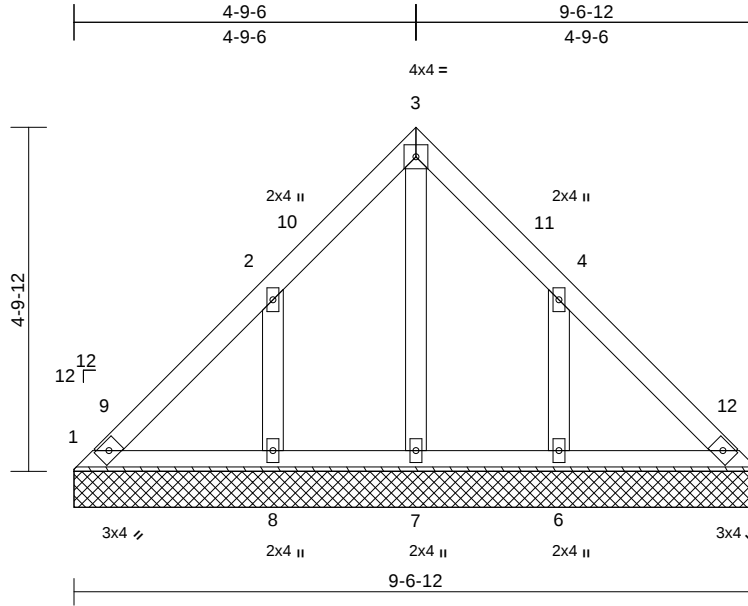
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	V1	Valley	1	1	Job Reference (optional)
					I76420852

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:26
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Page: 1



Scale = 1:32.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-S							
BCDL	10.0									Weight: 46 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=9-6-12, 5=9-6-12, 6=9-6-12, 7=9-6-12, 8=9-6-12
Max Horiz	1=134 (LC 15)
Max Uplift	1=-20 (LC 12), 6=-189 (LC 17), 8=-189 (LC 16)
Max Grav	1=159 (LC 22), 5=159 (LC 23), 6=428 (LC 23), 7=131 (LC 28), 8=428 (LC 22)

FORCES

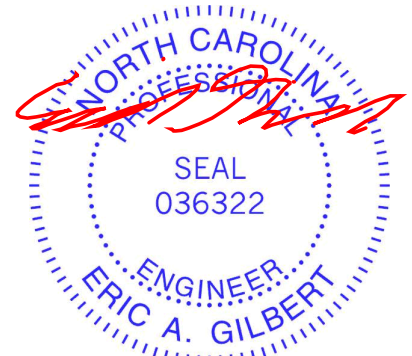
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-142/105, 2-3=-157/164, 3-4=-157/166, 4-5=-132/98
BOT CHORD	1-8=-63/178, 7-8=-63/178, 6-7=-63/178, 5-6=-63/178
WEBS	3-7=-133/29, 2-8=-360/369, 4-6=-360/369

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-4-4 to 3-4-4, Exterior(2N) 3-4-4 to 4-9-12, Corner(3R) 4-9-12 to 7-9-12, Exterior(2N) 7-9-12 to 9-3-5 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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 20 lb uplift at joint 1, 189 lb uplift at joint 8 and 189 lb uplift at joint 6.

LOAD CASE(S) Standard



September 18, 2025

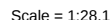
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:26 Page: 1
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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=7-6-12, 3=7-6-12, 4=7-6-12
Max Horiz	1=-104 (LC 12)
Max Uplift	1=-59 (LC 17), 3=-59 (LC 17)
Max Grav	1=307 (LC 22), 3=307 (LC 23), 4=269 (LC 23)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-205/118, 2-3=-205/107
BOT CHORD	1-4=-32/82, 3-4=-32/82
WFRS	2-4=-183/97

- 5) Unbalanced snow loads have been considered for this design.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 4-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 1 and 59 lb uplift at joint 3.
- LOAD CASE(S)** Standard

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-4 to 3-4-4, Interior (1) 3-4-4 to 3-9-12, Exterior(2R) 3-9-12 to 6-9-12, Interior (1) 6-9-12 to 7-3-5 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10



September 18, 2025



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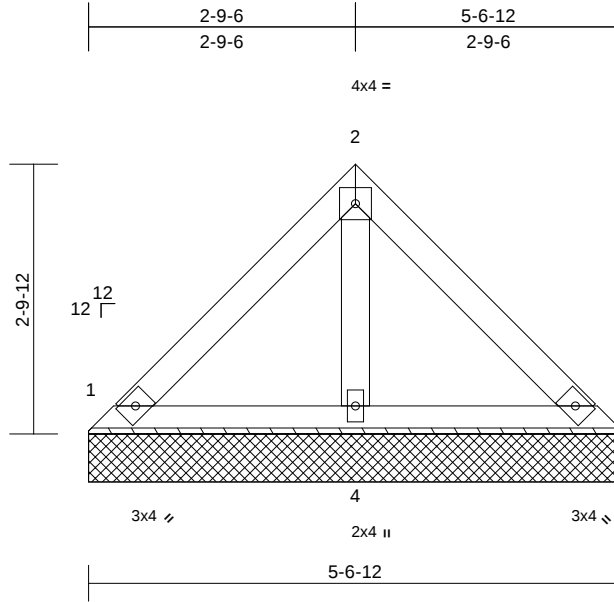
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	V3	Valley	1	1	Job Reference (optional)
					I76420854

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:26
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Page: 1



Scale = 1:24

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 22 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 5-7-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size)	1=5-6-12, 3=5-6-12, 4=5-6-12
	Max Horiz	1=74 (LC 13)
	Max Uplift	1=-42 (LC 17), 3=-42 (LC 17)
	Max Grav	1=207 (LC 22), 3=207 (LC 23), 4=185 (LC 23)

FORCES	(lb) - Maximum Compression/Maximum Tension
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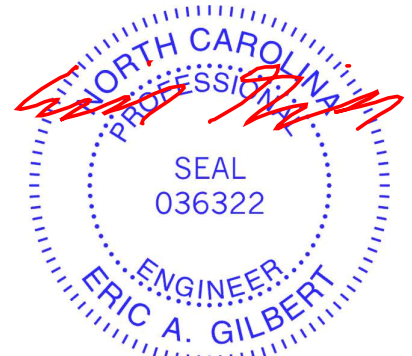
TOP CHORD	1-2=-138/69, 2-3=-138/87
BOT CHORD	1-4=-23/55, 3-4=-23/55
WEBS	2-4=-124/82

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 42 lb uplift at joint 1 and 42 lb uplift at joint 3.

LOAD CASE(S) Standard



September 18,2025

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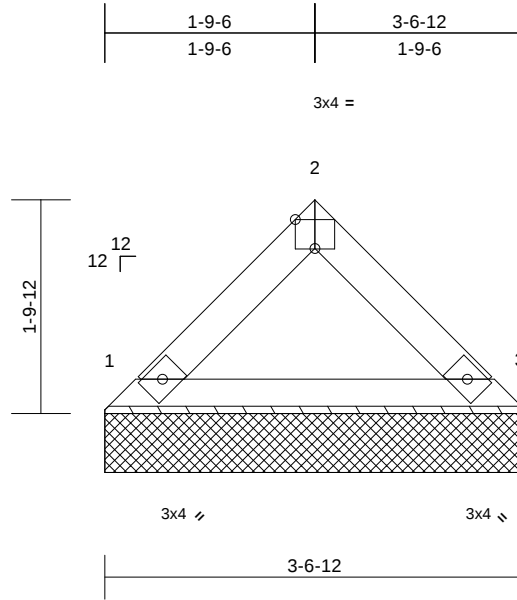
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	V4	Valley	1	1	176420855
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:26
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Page: 1



Scale = 1:19.5

Plate Offsets (X, Y): [2:0-2-0,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-P							
BCDL	10.0										
Weight: 12 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-6-12, 3=3-6-12
Max Horiz 1=-44 (LC 12)
Max Uplift 1=-19 (LC 16), 3=-19 (LC 17)
Max Grav 1=167 (LC 22), 3=167 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

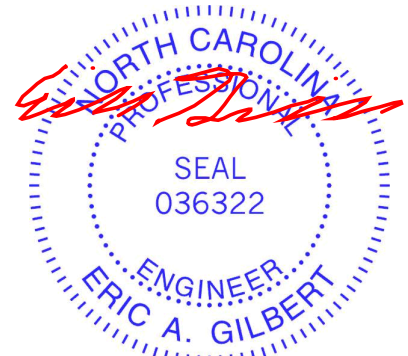
TOP CHORD 1-2=-125/79, 2-3=-125/96
BOT CHORD 1-3=-13/64

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 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 19 lb uplift at joint 1 and 19 lb uplift at joint 3.

LOAD CASE(S) Standard



September 18, 2025

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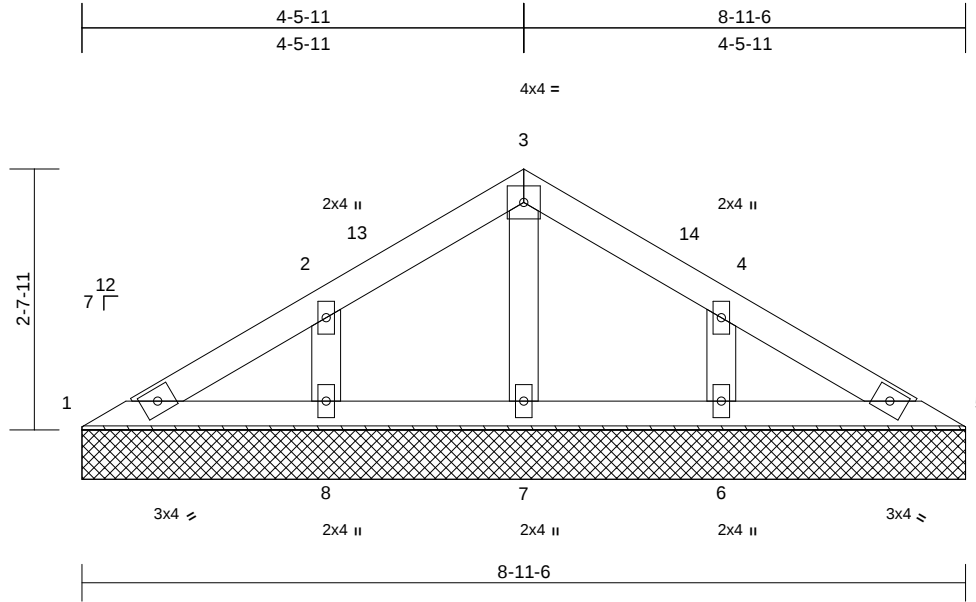
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek	
251269-A	V6	Valley	1	1	Job Reference (optional)	I76420856

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:26
ID:g_OAOgX1zlc3kF6L9fgZxyxynUo-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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 33 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=8-11-6, 5=8-11-6, 6=8-11-6,
7=8-11-6, 8=8-11-6
Max Horiz 1=-74 (LC 12)
Max Uplift 1=-11 (LC 17), 5=-11 (LC 17),
6=-102 (LC 17), 8=-103 (LC 16)
Max Grav 1=128 (LC 22), 5=128 (LC 23),
6=396 (LC 23), 7=180 (LC 23),
8=396 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum Tension

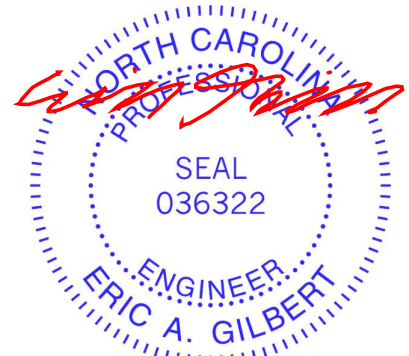
TOP CHORD 1-2=-143/112, 2-3=-41/80, 3-4=-41/81,
4-5=-143/112
BOT CHORD 1-8=-58/110, 7-8=-58/97, 6-7=-58/97,
5-6=-58/110
WEBS 3-7=-159/23, 2-8=-303/213, 4-6=-303/213

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-10 to 3-0-10, Exterior(2N) 3-0-10 to 4-6-5, Corner(3R) 4-6-5 to 7-6-5, Exterior(2N) 7-6-5 to 9-0-0 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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 11 lb uplift at joint 1, 11 lb uplift at joint 5, 103 lb uplift at joint 8 and 102 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



September 18, 2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

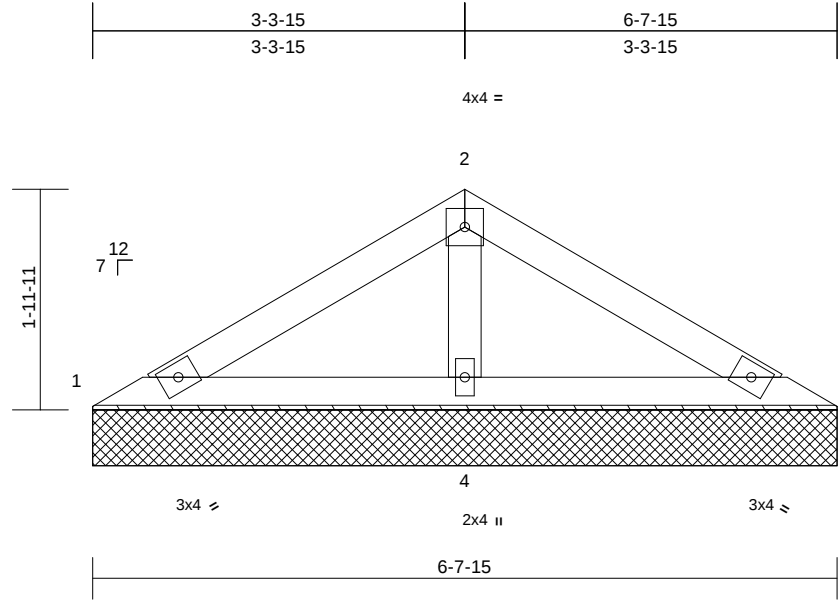
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	V7	Valley	1	1	176420857
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:26
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Page: 1



Scale = 1:20.6

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS							
BCDL	10.0										
Weight: 22 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.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1=6-7-15, 3=6-7-15, 4=6-7-15
Max Horiz	1=-54 (LC 14)
Max Uplift	1=-13 (LC 16), 3=-22 (LC 17), 4=-83 (LC 16)
Max Grav	1=133 (LC 22), 3=133 (LC 23), 4=530 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

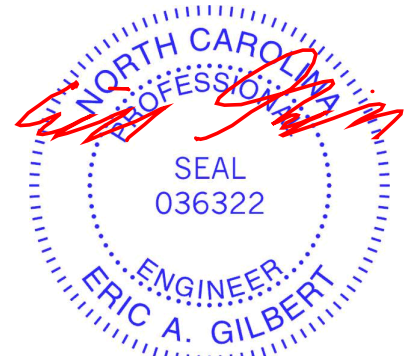
TOP CHORD	1-2=-141/235, 2-3=-141/235
BOT CHORD	1-4=-163/147, 3-4=-163/147
WEBS	2-4=-366/196

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-10 to 3-0-10, Interior (1) 3-0-10 to 3-4-10, Exterior(2R) 3-4-10 to 6-4-10, Interior (1) 6-4-10 to 6-8-9 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 13 lb uplift at joint 1, 22 lb uplift at joint 3 and 83 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



September 18, 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

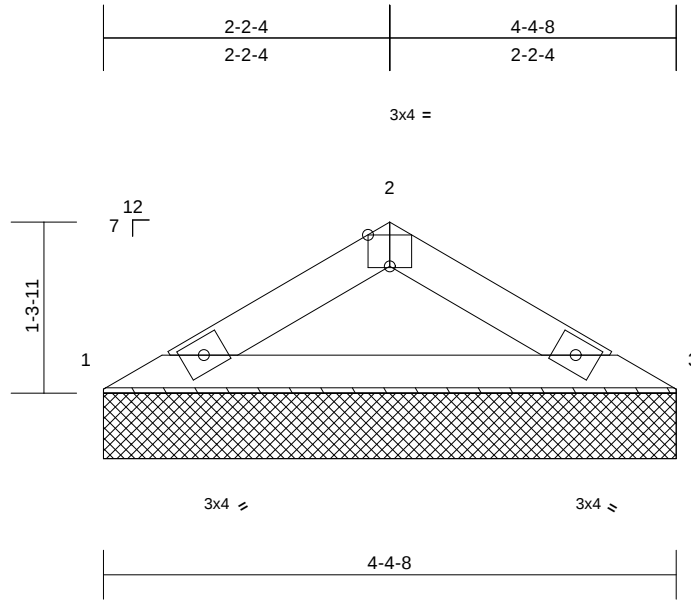
Job	Truss	Truss Type	Qty	Ply	Lot 33 Duncan's Creek
251269-A	V8	Valley	1	1	Job Reference (optional)

I76420858

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 7 2025 Print: 25.3.0 S Sep 7 2025 MiTek Industries, Inc. Wed Sep 17 09:07:26
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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	0.13	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	30.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS							
BCDL	10.0										
										Weight: 12 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS

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

Max Horiz 1=-34 (LC 14)

Max Uplift 1=-36 (LC 16), 3=-36 (LC 17)

Max Grav 1=246 (LC 22), 3=246 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension

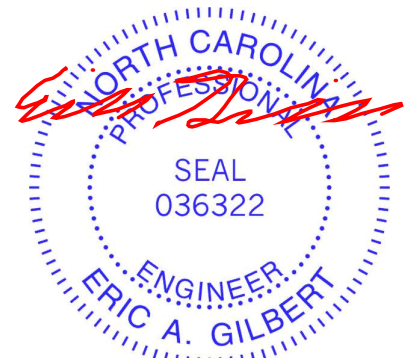
TOP CHORD 1-2=-382/171, 2-3=-382/171

BOT CHORD 1-3=-130/314

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 and 36 lb uplift at joint 3.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

September 18, 2025

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

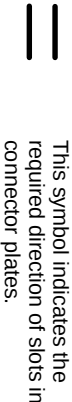
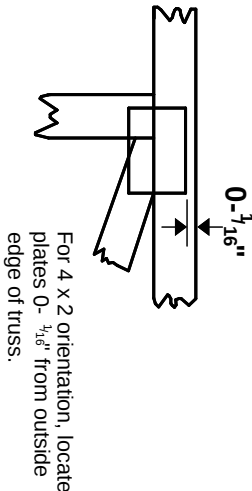
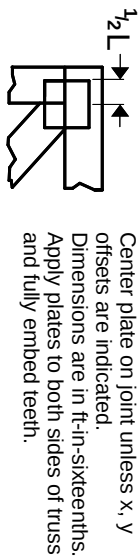
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

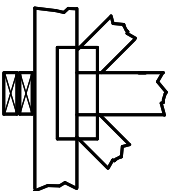
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

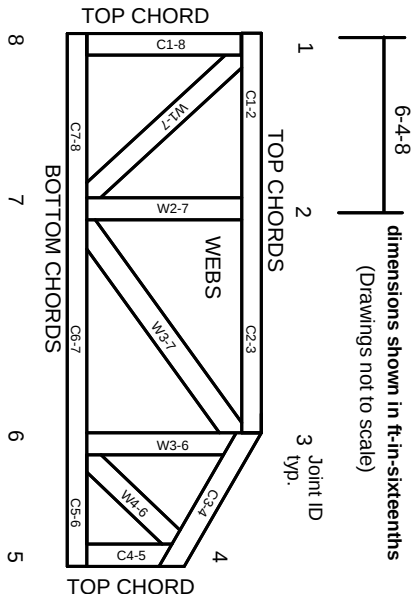


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: 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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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023