

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 251075-A
861 Mann Road

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: I76200410 thru I76200438

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

North Carolina COA: C-0844



September 10, 2025

Galinski, John

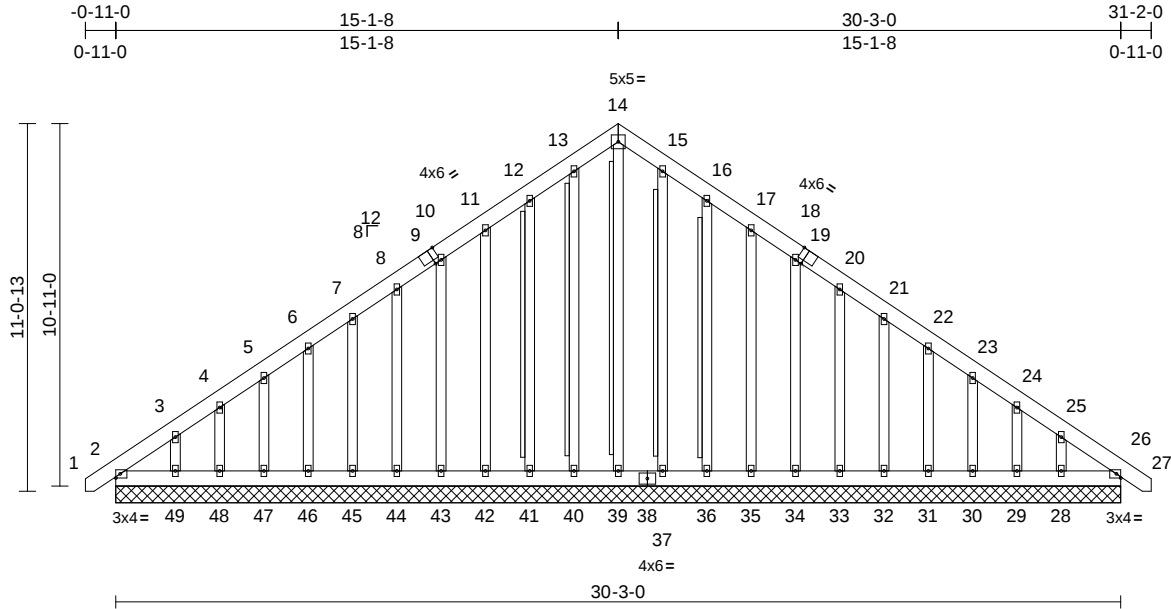
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	861 Mann Road	I76200410
251075-A	A1-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:24
ID:tLzISiCk4ttUXohUqmfgStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:69.4

Plate Offsets (X, Y): [9:0-2-4,Edge], [19:0-2-4,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	0.05	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	26	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
										Weight: 329 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
OTHERS	2x4 SP No.2 *Except* 0-0,0-0,0-0,0-0,0-0,0-0:2x4 SPF No.2(flat)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 14-39, 13-40, 12-41, 15-37, 16-36
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS (size)	2=30-3-0, 26=30-3-0, 28=30-3-0, 29=30-3-0, 30=30-3-0, 31=30-3-0, 32=30-3-0, 33=30-3-0, 34=30-3-0, 35=30-3-0, 36=30-3-0, 37=30-3-0, 39=30-3-0, 40=30-3-0, 41=30-3-0, 42=30-3-0, 43=30-3-0, 44=30-3-0, 45=30-3-0, 46=30-3-0, 47=30-3-0, 48=30-3-0, 49=30-3-0
Max Horiz	2=318 (LC 11)
Max Uplift	2=-103 (LC 8), 26=-28 (LC 9), 28=-112 (LC 13), 29=-57 (LC 13), 30=-58 (LC 13), 31=-58 (LC 13), 32=-58 (LC 13), 33=-58 (LC 13), 34=-59 (LC 13), 35=-66 (LC 13), 36=-66 (LC 13), 40=-9 (LC 9), 41=-65 (LC 12), 42=-64 (LC 12), 43=-59 (LC 12), 44=-58 (LC 12), 45=-58 (LC 12), 46=-58 (LC 12), 47=-58 (LC 12), 48=-58 (LC 12), 49=-122 (LC 12)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/11, 2-3=-344/259, 3-4=-250/212, 4-5=-217/194, 5-6=-189/176, 6-7=-174/163, 7-8=-160/160, 8-10=-146/180, 10-11=-132/209, 11-12=-138/240, 12-13=-166/272, 13-14=-169/271, 14-15=-169/271, 15-16=-166/266, 16-17=-138/214, 17-18=-108/164, 18-20=-80/116, 20-21=-64/78, 21-22=-74/56, 22-23=-85/67, 23-24=-125/85, 24-25=-176/103, 25-26=-264/141, 26-27=0/11
BOT CHORD	2-49=-115/243, 48-49=-115/243, 47-48=-115/243, 46-47=-115/243, 45-46=-115/243, 44-45=-115/243, 43-44=-115/243, 42-43=-115/243, 41-42=-115/243, 40-41=-115/243, 39-40=-115/243, 37-39=-115/243, 36-37=-115/243, 35-36=-115/243, 34-35=-115/243, 33-34=-115/243, 32-33=-115/243, 31-32=-115/243, 30-31=-115/243, 29-30=-115/243, 28-29=-115/243, 26-28=-115/243

WEBS

14-39=-168/69, 13-40=-93/25, 12-41=-93/81, 11-42=-91/80, 10-43=-91/75, 8-44=-91/74, 7-45=-91/74, 6-46=-91/74, 5-47=-90/73, 4-48=-91/76, 3-49=-127/132, 15-37=-76/0, 16-36=-95/82, 17-35=-93/82, 18-34=-91/75, 20-33=-91/74, 21-32=-91/74, 22-31=-91/74, 23-30=-91/73, 24-29=-89/75, 25-28=-117/123
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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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 15-1-8, Corner(3R) 15-1-8 to 19-6-5, Exterior(2N) 19-6-5 to 31-0-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.



September 10, 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	861 Mann Road	I76200410
251075-A	A1-GE	GABLE	1	1	Job Reference (optional)	

- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 26, 9 lb uplift at joint 40, 65 lb uplift at joint 41, 64 lb uplift at joint 42, 59 lb uplift at joint 43, 58 lb uplift at joint 44, 58 lb uplift at joint 45, 58 lb uplift at joint 46, 58 lb uplift at joint 47, 58 lb uplift at joint 48, 122 lb uplift at joint 49, 66 lb uplift at joint 36, 66 lb uplift at joint 35, 103 lb uplift at joint 2, 59 lb uplift at joint 34, 58 lb uplift at joint 33, 58 lb uplift at joint 32, 58 lb uplift at joint 31, 58 lb uplift at joint 30, 57 lb uplift at joint 29 and 112 lb uplift at joint 28.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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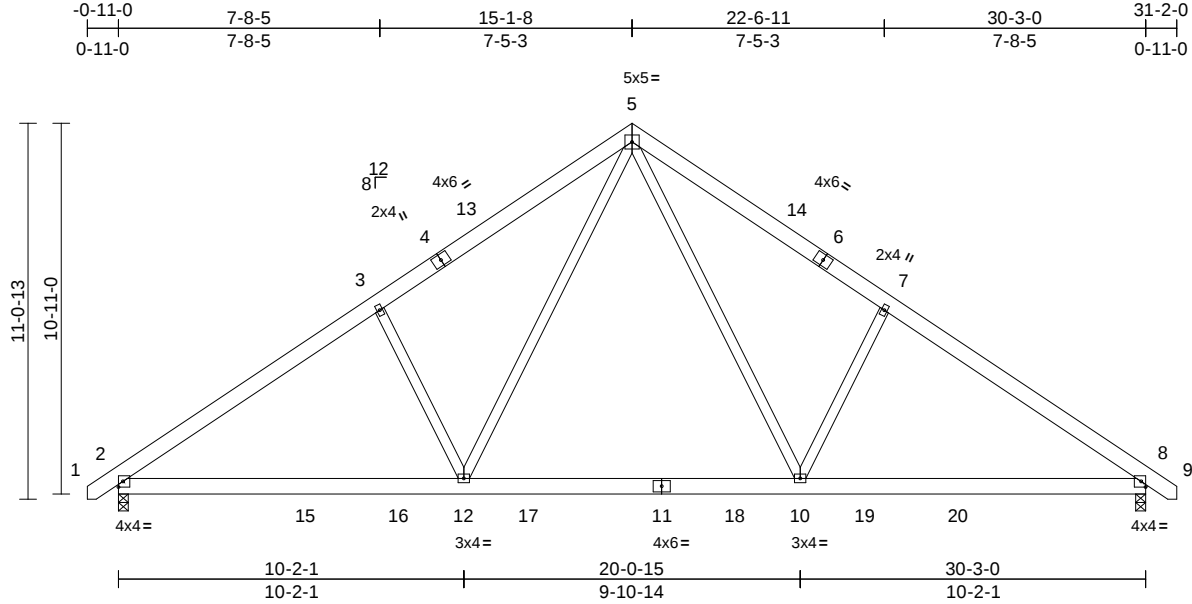
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	176200411
251075-A	A2	COMMON	7	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:25
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Page: 1



Scale = 1:67.9

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	0.25	Vert(LL)	-0.12	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.18	2-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.04	2-12	>999	240	Weight: 211 lb	FT = 20%

LUMBER

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 75 lb uplift at joint 8.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-3-8
Max Horiz 2=254 (LC 11)
Max Uplift 2=-75 (LC 12), 8=-75 (LC 13)
Max Grav 2=1563 (LC 19), 8=1563 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/11, 2-3=-2071/348, 3-5=-1941/443,
5-7=-1941/443, 7-8=-2072/348, 8-9=0/11
BOT CHORD 2-12=-174/1793, 10-12=0/1181,
8-10=-158/1620
WEBS 5-10=-161/1011, 7-10=-411/295,
5-12=-161/1011, 3-12=-411/295

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 15-1-8, Exterior(2R) 15-1-8 to 19-6-5, Interior (1) 19-6-5 to 31-0-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



September 10, 2025

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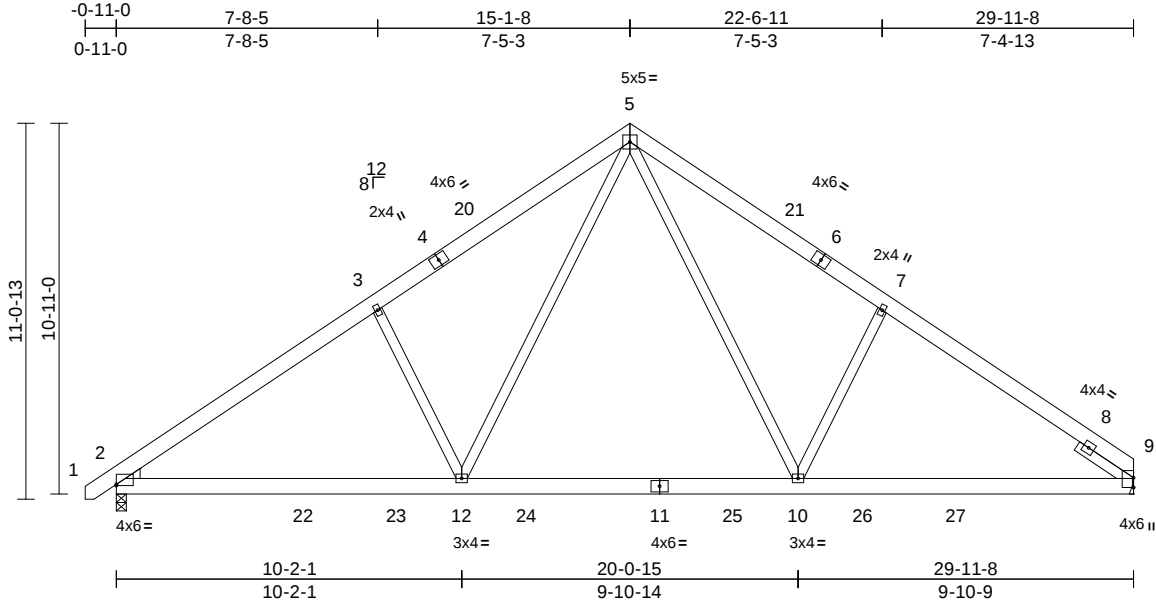
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200412
251075-A	A3	COMMON	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:25
ID: tLzISiCk4ttUXohUqmfgStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:67.9

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

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	0.18	Vert(LL)	-0.14	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.21	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	12-15	>999	240	Weight: 211 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.3
SLIDER 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, 9= Mechanical
Max Horiz 2=250 (LC 9)
Max Uplift 2=-74 (LC 12), 9=-61 (LC 13)
Max Grav 2=1555 (LC 19), 9=1511 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-0/26, 2-3=-2074/351, 3-5=-1932/439,
5-7=-1888/434, 7-9=-2000/348
BOT CHORD 2-12=-221/1799, 10-12=-14/1178,
9-10=-178/1577
WEBS 5-10=-143/935, 7-10=-389/273,
5-12=-151/1009, 3-12=-433/284

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 15-1-8, Exterior(2R) 15-1-8 to 19-6-5, Interior (1) 19-6-5 to 29-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 61 lb uplift at joint 9.
- 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 10, 2025

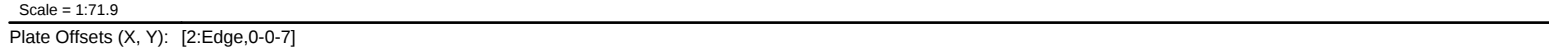
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Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:25 Page: 1
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LUMBER		5) Refer to girder(s) for truss to truss connections.
TOP CHORD	2x6 SP No.1	6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 61 lb uplift at joint 9.
BOT CHORD	2x6 SP No.1	
WEBS	2x4 SP No.2	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.
WEDGE	Left: 2x4 SP No.3	
SLIDER	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, 9= Mechanical	
	Max Horiz 2=250 (LC 9)	
	Max Uplift 2=-74 (LC 12), 9=-61 (LC 13)	
	Max Grav 2=1548 (LC 19), 9=1504 (LC 20)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/26, 2-3=-2061/351, 3-5=-1919/439, 5-7=-1876/434, 7-9=-1988/348	
BOT CHORD	2-12=-221/1789, 10-12=-14/1171, 9-10=-178/1567	
WEBS	5-10=-143/928, 7-10=-391/273, 5-12=-151/1002, 3-12=-433/284	

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 61 lb uplift at joint 9.
- 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



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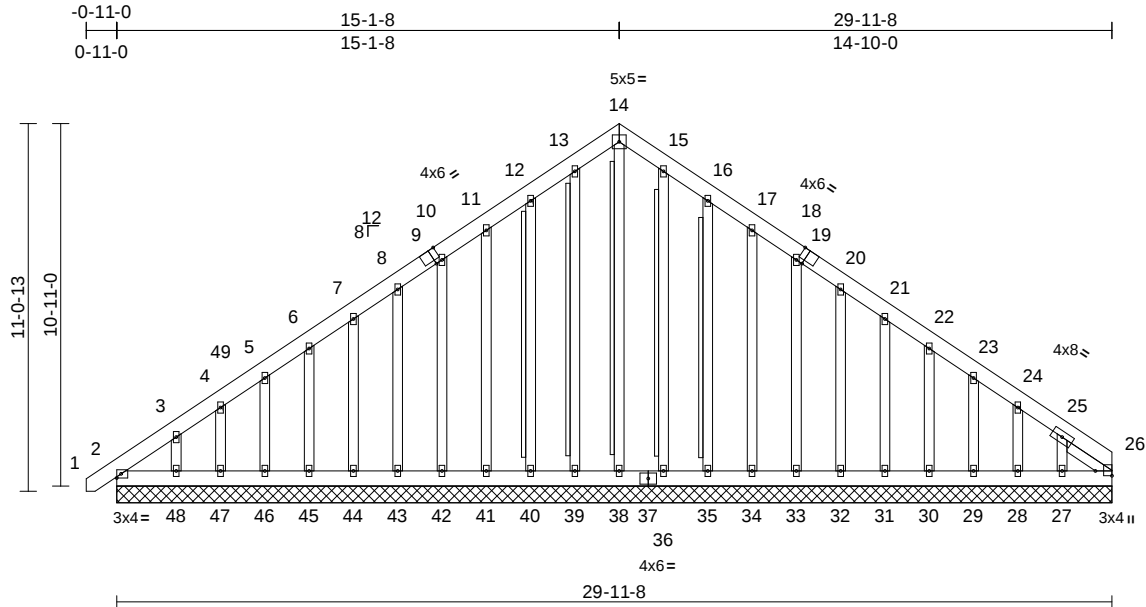
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	176200414
251075-A	A4-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:25
ID: tLzISiCk4tUxOhUqmfgStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:69.4

Plate Offsets (X, Y): [9:0-2-4,Edge], [19:0-2-4,Edge], [26:Edge,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	26	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 327 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2 *Except*
47-4,48-3,28-24,27-25:2x4 SP No.3,
0-0,0-0,0-0,0-0:2x4 SPF No.2(flat)
SLIDER Right 2x4 SP No.2 -- 1-7-10
BRACING
TOP CHORD Structural wood sheathing directly applied or
6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.
WEBS T-Brace: 2x4 SPF No.2 - 14-38,
13-39, 12-40, 15-36,
16-35
Fasten (2X) T and I braces to narrow edge of
web with 10d (0.131"x3") nails, 6in o.c.,with
3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (size) 2=29-11-8, 26=29-11-8,
27=29-11-8, 28=29-11-8,
29=29-11-8, 30=29-11-8,
31=29-11-8, 32=29-11-8,
33=29-11-8, 34=29-11-8,
35=29-11-8, 36=29-11-8,
38=29-11-8, 39=29-11-8,
40=29-11-8, 41=29-11-8,
42=29-11-8, 43=29-11-8,
44=29-11-8, 45=29-11-8,
46=29-11-8, 47=29-11-8,
48=29-11-8
Max Horiz 2=316 (LC 9)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/11, 2-3=-346/256, 3-4=-252/210,
4-5=-217/191, 5-6=-189/173, 6-7=-172/160,
7-8=-158/156, 8-10=-144/175,
10-11=-130/204, 11-12=-136/235,
12-13=-164/266, 13-14=-167/265,
14-15=-167/265, 15-16=-164/259,
16-17=-136/208, 17-18=-106/157,
18-20=-79/110, 20-21=-67/76, 21-22=-77/56,
22-23=-88/69, 23-24=-130/86,
24-25=-184/106, 25-26=-292/154

BOT CHORD 2-48=-114/239, 47-48=-114/239,
46-47=-114/239, 45-46=-114/239,
44-45=-114/239, 43-44=-114/239,
42-43=-114/239, 41-42=-114/239,
40-41=-114/239, 39-40=-114/239,
38-39=-114/239, 36-38=-114/239,
35-36=-114/239, 34-35=-114/239,
33-34=-114/239, 32-33=-114/239,
31-32=-114/239, 30-31=-114/239,
29-30=-114/239, 28-29=-114/239,
27-28=-114/239, 26-27=-114/239
WEBS 14-38=-163/68, 13-39=-92/25, 12-40=-93/81,
11-41=-91/80, 10-42=-91/75, 8-43=-91/74,
7-44=-91/74, 6-45=-91/74, 5-46=-91/73,
4-47=-90/76, 3-48=-127/132, 15-36=-76/1,
16-35=-95/82, 17-34=-93/82, 18-33=-91/75,
20-32=-91/74, 21-31=-91/74, 22-30=-91/74,
23-29=-91/73, 24-28=-93/82, 25-27=-121/146

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



September 10, 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.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200414
251075-A	A4-GE	GABLE	1	1	Job Reference (optional)	

- 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; Gable Roof; Common Truss;
MWFRS (envelope) exterior zone and C-C Corner(3E)
-0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 15-1-8, Corner(3R)
15-1-8 to 19-6-5, Exterior(2N) 19-6-5 to 29-11-8 zone;C-
C for members and forces & MWFRS for reactions
shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 67 lb uplift at joint
26, 9 lb uplift at joint 39, 65 lb uplift at joint 40, 64 lb uplift
at joint 41, 59 lb uplift at joint 42, 58 lb uplift at joint 43,
58 lb uplift at joint 44, 58 lb uplift at joint 45, 58 lb uplift at
joint 46, 57 lb uplift at joint 47, 122 lb uplift at joint 48, 66
lb uplift at joint 35, 66 lb uplift at joint 34, 101 lb uplift at
joint 2, 59 lb uplift at joint 33, 58 lb uplift at joint 32, 58 lb
uplift at joint 31, 58 lb uplift at joint 30, 58 lb uplift at joint
29, 63 lb uplift at joint 28 and 140 lb uplift at joint 27.
- 10) Warning: Additional permanent and stability bracing for
truss system (not part of this component design) is
always required.

LOAD CASE(S) Standard

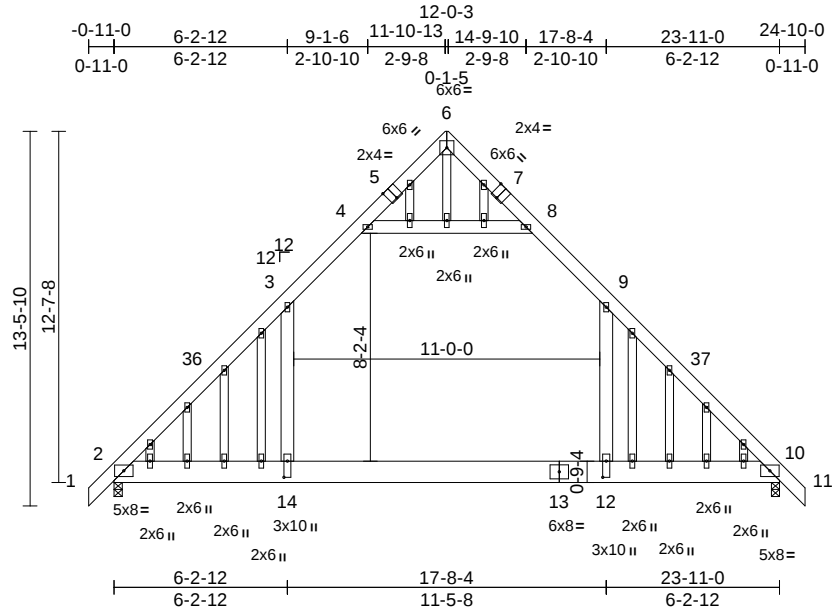
Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200415
251075-A	B1-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:25

Page: 1

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Scale = 1:82.8

Plate Offsets (X, Y): [5:0-3-0,Edge], [7:0-3-0,Edge], [12:0-7-0,0-1-8], [14:0-7-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.28	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.52	12-14	>549	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.17	12-14	>999	240	Weight: 263 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 9-6-15 oc bracing.

REACTIONS	(size)	2=0-3-8, 10=0-3-8
	Max Horiz	2=-385 (LC 10)
	Max Grav	2=1539 (LC 20), 10=1539 (LC 21)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/41, 2-3=-2031/7, 3-4=-1128/190, 4-6=-8/303, 6-8=-8/304, 8-9=-1128/190, 9-10=-2030/6, 10-11=0/41
BOT CHORD	2-14=0/1265, 12-14=0/1265, 10-12=0/1265
WEBS	4-8=-1501/278, 3-14=0/904, 9-12=0/903

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 11-11-8, Corner (3R) 11-11-8 to 16-4-5, Exterior(2N) 16-4-5 to 24-10-0 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.
- All plates are 2x4 (I) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-8; Wall dead load (5.0psf) on member(s).3-14, 9-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



September 10,2025

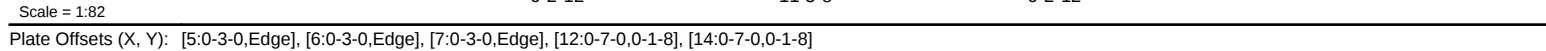
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
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Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26 Page: 1
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LUMBER		6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
TOP CHORD	2x6 SP No.1	
BOT CHORD	2x10 SP No.1	7) Attic room checked for L/360 deflection.
WEBS	2x6 SP No.1	LOAD CASE(S) Standard

BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 9-6-15 oc bracing.

REACTIONS (size) 2=0-3-8, 10=0-3-8
 Max Horiz 2=305 (LC 10)
 Max Grav 2=1537 (LC 20), 10=1537 (LC 21)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/35, 2-3=-2011/0, 3-4=-1127/135, 4-6=0/296, 6-8=0/296, 8-9=-1126/135, 9-10=-2010/0, 10-11=0/35
BOT CHORD	2-14=0/1237, 12-14=0/1237, 10-12=0/1237
WEBS	4-8=-1512/157, 3-14=0/900, 9-12=0/900

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-6 to 3-7-7, Interior (1) 3-7-7 to 11-11-8, Exterior(2R) 11-11-8 to 16-4-5, Interior (1) 16-4-5 to 24-8-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-8; Wall dead load (5.0psf) on member(s). 3-14, 9-12





September 10, 2025

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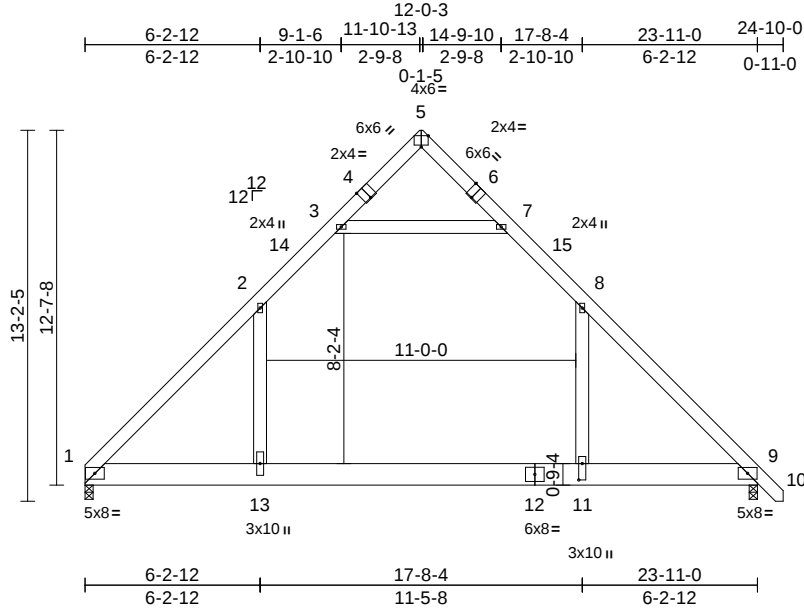
**818 Soundside Road
Durango, NC 27932**

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	176200417
251075-A	B3	ATTIC	6	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26
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Page: 1



Scale = 1:82

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.29	11-13	>991	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.53	11-13	>539	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	11-13	>999	240	Weight: 219 lb	FT = 20%

LUMBER

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

- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
7) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-4-3 oc bracing.

REACTIONS (size) 1=0-3-8, 9=0-3-8
Max Horiz 1=-299 (LC 8)
Max Grav 1=1486 (LC 21), 9=1537 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1981/0, 2-3=-1130/138, 3-5=0/298,
5-7=0/304, 7-8=-1123/134, 8-9=-2013/0,
9-10=0/35

BOT CHORD 1-13=0/1237, 11-13=0/1237, 9-11=0/1237

WEBS 3-7=-1520/163, 2-13=0/858, 8-11=0/906

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior (1) 4-6-9 to 11-11-8, Exterior(2R) 11-11-8 to 16-4-5, Interior (1) 16-4-5 to 24-8-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-7; Wall dead load (5.0psf) on member(s).2-13, 8-11



September 10,2025

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818 Soundside Road
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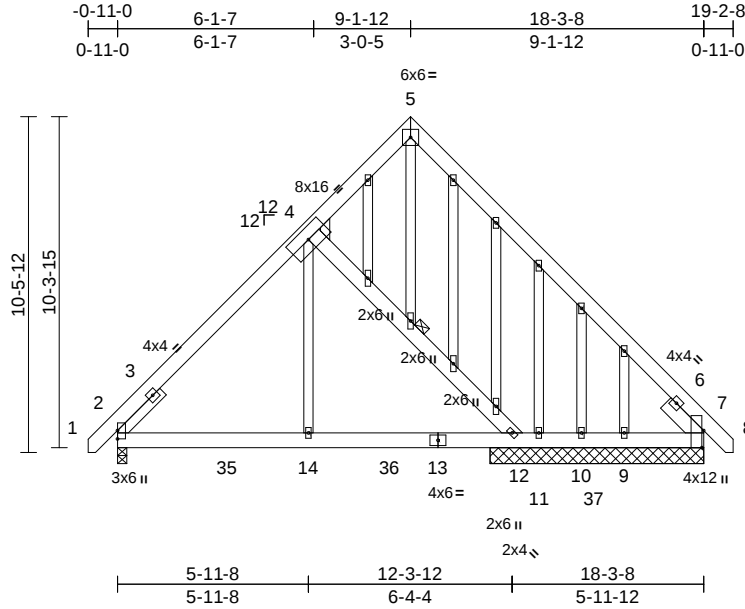
Job	Truss	Truss Type	Qty	Ply	861 Mann Road	
251075-A	C1-GE	GABLE	1	1	Job Reference (optional)	I76200418

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26

Page: 1

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Scale = 1:71.9

Plate Offsets (X, Y): [7:0-6-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.02	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.02	14-29	>999	240	Weight: 198 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except* 4-14:2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-12

REACTIONS	(size)	2=0-3-8, 7=6-8-0, 9=6-8-0, 10=6-8-0, 11=6-8-0, 12=6-8-0
	Max Horiz	2=-298 (LC 10)
	Max Uplift	2=-109 (LC 13), 9=-622 (LC 13), 10=-143 (LC 11), 11=-274 (LC 22)
	Max Grav	2=759 (LC 20), 7=365 (LC 22), 9=553 (LC 20), 10=329 (LC 13), 11=80 (LC 1), 12=770 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/34, 2-4=-742/174, 4-5=-327/236, 5-7=-896/610, 7-8=0/34
BOT CHORD	2-14=-224/574, 12-14=-97/574, 11-12=-26/263, 10-11=-26/263, 9-10=-26/263, 7-9=-26/263
WEBS	4-12=-510/258, 4-14=0/424

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior (1) 3-7-3 to 9-1-12, Exterior(2R) 9-1-12 to 13-6-9, Interior (1) 13-6-9 to 19-1-2 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.
- All plates are 2x4 (II) MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2, 274 lb uplift at joint 11, 143 lb uplift at joint 10 and 622 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 10,2025

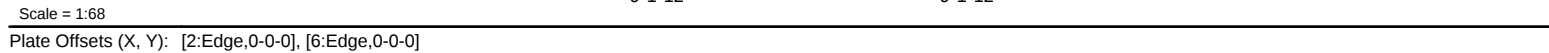
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LUMBER		5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 6 and 31 lb uplift at joint 2.
TOP CHORD	2x6 SP No.1	
BOT CHORD	2x6 SP No.1	
WEBS	2x4 SP No.2	
SLIDER	Left 2x4 SP No.2 -- 6-5-0, Right 2x4 SP No.2 -- 6-5-0	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.
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=238 (LC 11)	
	Max Uplift 2=-31 (LC 12), 6=-31 (LC 13)	
	Max Grav 2=993 (LC 19), 6=993 (LC 20)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/33, 2-4=-858/230, 4-6=-858/230, 6-7=0/33	
BOT CHORD	2-9=-209/645, 6-9=-136/645	
WEBS	4-9=0/733	
	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) and C-C Exterior(2E) 0-9-6 to 3-7-7, Interior (1) 3-7-7 to 9-1-12, Exterior(2R) 9-1-12 to 13-6-9, Interior (1) 13-6-9 to 19-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



September 10, 2025

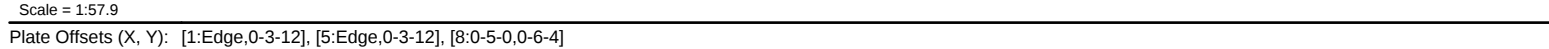
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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A MI Tek Affiliate

818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26 Page: 1
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LUMBER		3) Unbalanced roof live loads have been considered for this design.
TOP CHORD	2x6 SP No.1	4) Wind: ASCE 7-16; Vult=130mph (3-second gust)
BOT CHORD	2x8 SP 2400F 2.0E	Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
WEBS	2x4 SP No.2	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEDGE	Left: 2x8 SP No.1 Right: 2x8 SP No.1	6) * 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.
BRACING		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 1 and 380 lb uplift at joint 5.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1484 lb down and 73 lb up at 1-10-4, 1484 lb down and 73 lb up at 3-10-4, 1484 lb down and 73 lb up at 5-10-4, 1484 lb down and 73 lb up at 7-10-4, 1484 lb down and 73 lb up at 9-10-4, 1484 lb down and 73 lb up at 11-10-4, 1484 lb down and 73 lb up at 13-10-4, and 1484 lb down and 73 lb up at 15-10-4, and 1491 lb down and 69 lb up at 18-1-12 on bottom chord. The design/selection of such connection device(s) is the
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS		
	(size) 1=0-3-8, 5=0-3-8	
	Max Horiz 1=-233 (LC 6)	
	Max Uplift 1=-331 (LC 9), 5=-380 (LC 8)	
	Max Grav 1=6794 (LC 16), 5=7878 (LC 15)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-7507/410, 2-3=-5064/381, 3-4=-5065/381, 4-5=-7476/407	
BOT CHORD	1-9=-296/4990, 8-9=-297/5000, 6-8=-203/4877, 5-6=-202/4866	
WEBS	3-8=-437/6743, 4-8=-2099/259, 4-6=-119/3405, 2-8=-2139/261, 2-9=-120/3450	

NOTES 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.	responsibility of others. LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-60, 3-5=-60, 1-5=-20 Concentrated Loads (lb) Vert: 7=-1178 (F), 6=-1178 (F), 5=-1185 (F), 10=-1178 (F), 11=-1178 (F), 12=-1178 (F), 13=-1178 (F), 14=-1178 (F), 15=-1178 (F)	
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September 10, 2025

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 **818 Soundside Road**
Edenton, NC 27932

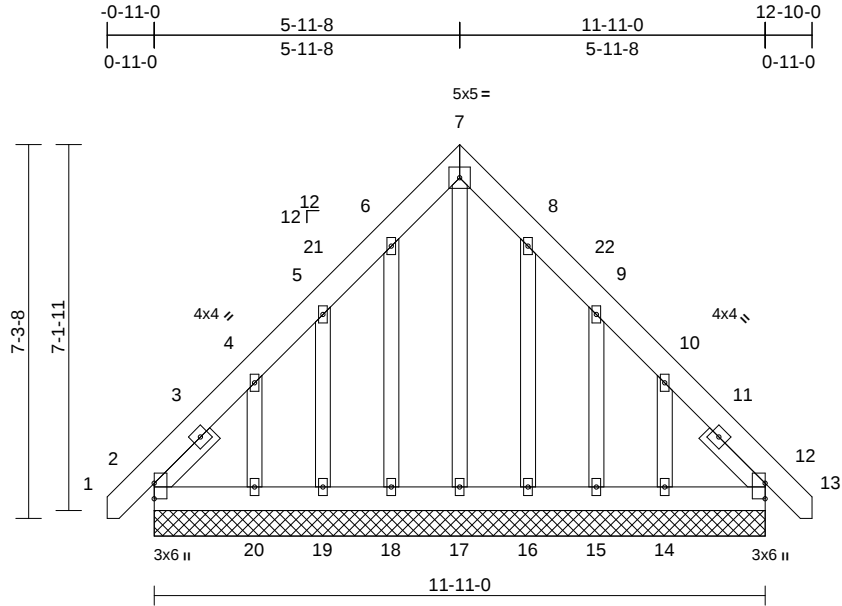
Job	Truss	Truss Type	Qty	Ply	861 Mann Road	176200421
251075-A	D1-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26

Page: 1

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Scale = 1:44.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	12	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
										Weight: 120 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 -- 1-7-0, Right 2x4 SP No.2 -- 1-7-0

BRACING

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

REACTIONS	(size) 2=11-11-0, 12=11-11-0, 14=11-11-0, 15=11-11-0, 16=11-11-0, 17=11-11-0, 18=11-11-0, 19=11-11-0, 20=11-11-0
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Max Horiz	2=-203 (LC 10)
Max Uplift	2=-70 (LC 8), 12=-34 (LC 9), 14=-197 (LC 13), 15=-87 (LC 13), 16=-46 (LC 13), 18=-53 (LC 12), 19=-84 (LC 12), 20=-205 (LC 12)
Max Grav	2=209 (LC 20), 12=181 (LC 19), 14=186 (LC 20), 15=119 (LC 20), 16=117 (LC 20), 17=137 (LC 13), 18=124 (LC 19), 19=115 (LC 19), 20=195 (LC 19)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/10, 2-4=-217/149, 4-5=-115/88, 5-6=-105/171, 6-7=-126/232, 7-8=-126/232, 8-9=-100/170, 9-10=-87/51, 10-12=-204/105, 12-13=0/10
BOT CHORD	2-20=-84/246, 19-20=-85/248, 18-19=-85/248, 17-18=-85/249, 16-17=-85/249, 15-16=-85/248, 14-15=-85/248, 12-14=-84/246
WEBS	7-17=-195/72, 6-18=-95/73, 5-19=-111/176, 4-20=-166/298, 8-16=-88/71, 9-15=-111/177, 10-14=-167/295

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-10 to 3-7-3, Exterior(2N) 3-7-3 to 5-11-8, Corner (3R) 5-11-8 to 10-4-5, Exterior(2N) 10-4-5 to 12-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (II) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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 70 lb uplift at joint 2, 34 lb uplift at joint 12, 53 lb uplift at joint 18, 84 lb uplift at joint 19, 205 lb uplift at joint 20, 46 lb uplift at joint 16, 87 lb uplift at joint 15 and 197 lb uplift at joint 14.

LOAD CASE(S) Standard



September 10, 2025

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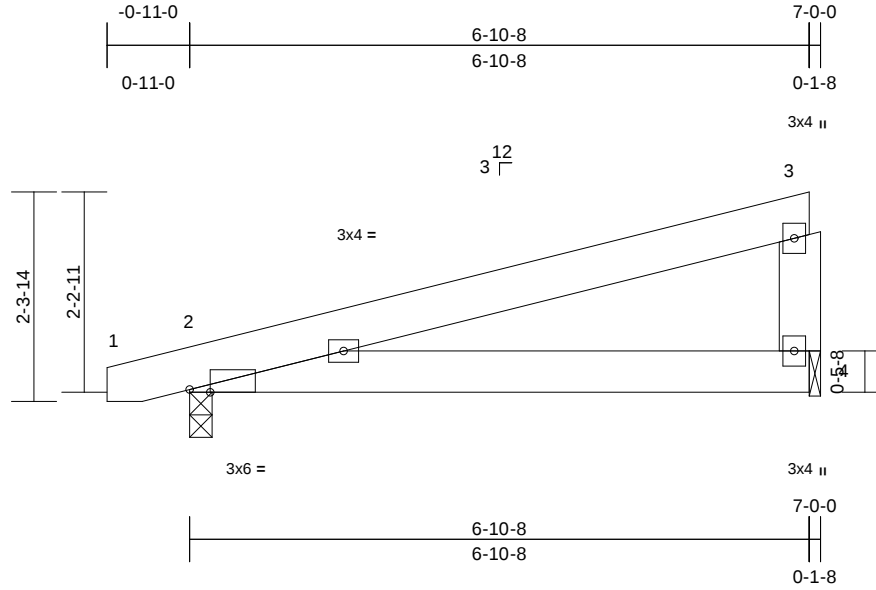
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	
251075-A	E1	Monopitch	3	1	Job Reference (optional)	I76200422

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26
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Page: 1



Scale = 1:25.6

Plate Offsets (X, Y): [2:0-2-12,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	0.27	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.05	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.03	2-4	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2 and 108 lb uplift at joint 4.

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) 2=0-3-0, 4=0-1-8
Max Horiz 2=63 (LC 8)
Max Uplift 2=-128 (LC 8), 4=-108 (LC 8)
Max Grav 2=320 (LC 1), 4=263 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/8, 2-3=-80/40, 3-4=-196/246
BOT CHORD 2-4=0/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-11 to 3-8-2, Interior (1) 3-8-2 to 6-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.



September 10, 2025

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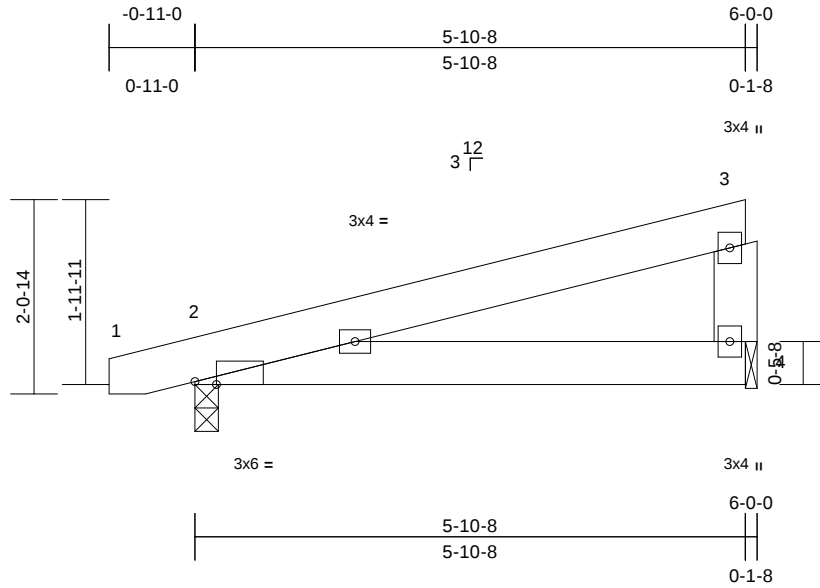
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	
251075-A	E2	MONOPITCH	5	1	Job Reference (optional)	I76200423

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26
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Page: 1



Scale = 1:24.6

Plate Offsets (X, Y): [2:0-2-12,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	0.19	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.02	2-4	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 91 lb uplift at joint 4.

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) 2=0-3-0, 4=0-1-8
Max Horiz 2=55 (LC 8)
Max Uplift 2=-114 (LC 8), 4=-91 (LC 8)
Max Grav 2=280 (LC 1), 4=222 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/8, 2-3=-68/36, 3-4=-166/208
BOT CHORD 2-4=0/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-11 to 3-8-2, Interior (1) 3-8-2 to 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.



September 10, 2025

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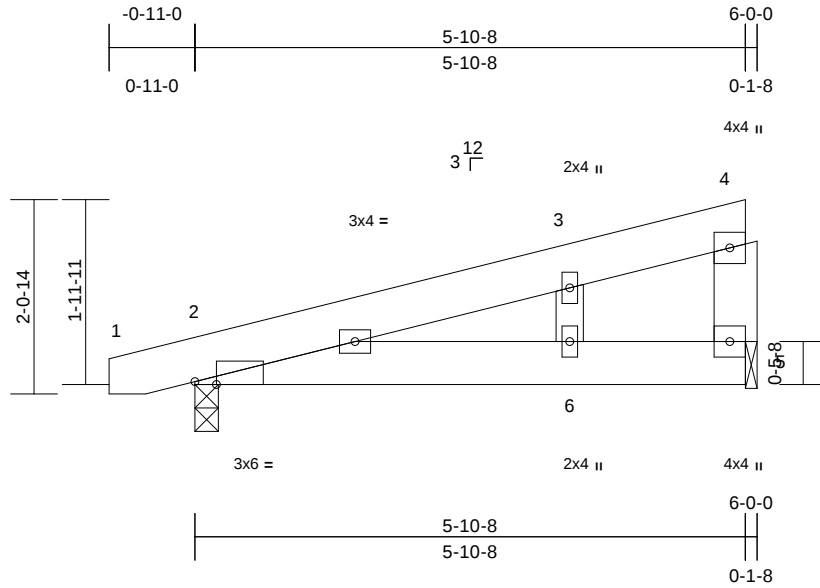
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	
251075-A	E3-GE	GABLE	1	1	Job Reference (optional)	I76200424

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:24.6

Plate Offsets (X, Y): [2:0-2-12,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	0.13	Vert(LL)	0.02	2-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	2-6	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 34 lb FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1
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=0-3-0, 5=0-1-8
Max Horiz	2=78 (LC 8)
Max Uplift	2=-164 (LC 8), 5=-133 (LC 8)
Max Grav	2=280 (LC 1), 5=222 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/8, 2-3=-166/125, 3-4=-124/170, 4-5=-100/171
BOT CHORD	2-6=-218/126, 5-6=-218/126
WEBS	3-6=-83/147

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-11 to 3-8-2, Exterior(2N) 3-8-2 to 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2 and 133 lb uplift at joint 5.

LOAD CASE(S) Standard



September 10, 2025

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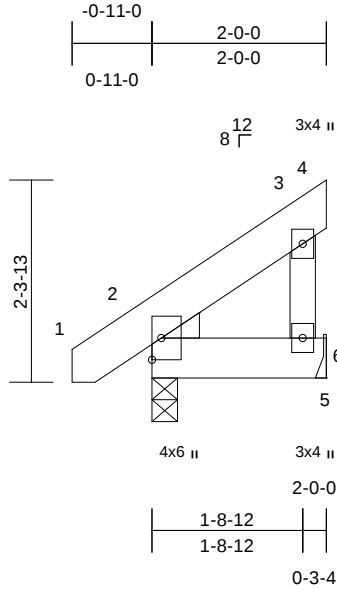
Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200425
251075-A	G1	Monopitch	9	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:26

Page: 1

ID:tLzISiCk4ttUXohUqmfgStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f



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)	0.00	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.00	2-6	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.2

BRACING

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

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=59 (LC 12)
Max Uplift 5=-29 (LC 12)
Max Grav 2=137 (LC 1), 5=70 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/5, 2-3=-100/55, 3-4=-3/0, 3-6=-92/128
BOT CHORD 2-6=0/0, 5-6=0/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5.

LOAD CASE(S) Standard



September 10, 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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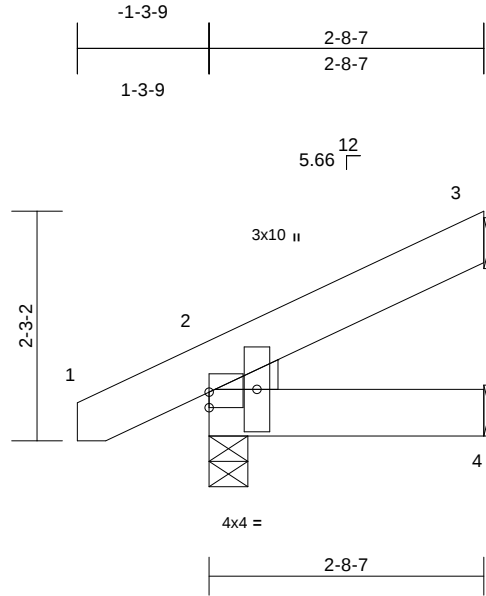
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	
251075-A	G2	Jack-Open	2	1	Job Reference (optional)	I76200426

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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Page: 1



Scale = 1:22.7

Plate Offsets (X, Y): [2:Edge,0-1-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 2=0-4-9, 3= Mechanical, 4=
Mechanical
Max Horiz 2=58 (LC 12)
Max Uplift 2=-15 (LC 12), 3=-39 (LC 12)
Max Grav 2=201 (LC 1), 3=51 (LC 1), 4=49
(LC 3)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/5, 2-3=-80/47
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) and C-C
Corner (3) zone; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 39 lb uplift at joint
3 and 15 lb uplift at joint 2.

LOAD CASE(S) Standard



September 10, 2025

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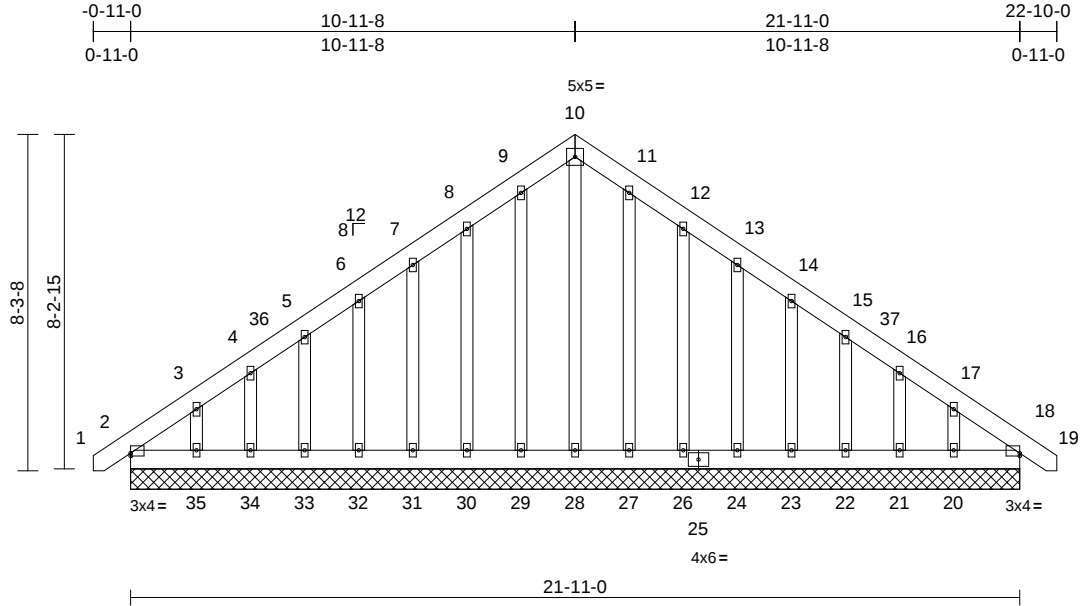
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	176200427
251075-A	H1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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Page: 1



Scale = 1:56.8

Plate Offsets (X, Y): [2:Edge,0-0-13], [18:Edge,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	18	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 208 lb FT = 20%											

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 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)	2=21-11-0, 18=21-11-0, 20=21-11-0, 21=21-11-0, 22=21-11-0, 23=21-11-0, 24=21-11-0, 26=21-11-0, 27=21-11-0, 28=21-11-0, 29=21-11-0, 30=21-11-0, 31=21-11-0, 32=21-11-0, 33=21-11-0, 34=21-11-0, 35=21-11-0
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Max Horiz 2=-235 (LC 10)

Max Uplift 2=-80 (LC 8), 18=-21 (LC 9), 20=-109 (LC 13), 21=-58 (LC 13), 22=-57 (LC 13), 23=-58 (LC 13), 24=-63 (LC 13), 26=-67 (LC 13), 27=-7 (LC 13), 29=-19 (LC 12), 30=-66 (LC 12), 31=-62 (LC 12), 32=-58 (LC 12), 33=-57 (LC 12), 34=-59 (LC 12), 35=-119 (LC 12)

Max Grav 2=183 (LC 20), 18=139 (LC 22), 20=145 (LC 20), 21=115 (LC 20), 22=118 (LC 20), 23=117 (LC 20), 24=119 (LC 20), 26=122 (LC 20), 27=105 (LC 20), 28=136 (LC 13), 29=118 (LC 19), 30=120 (LC 19), 31=118 (LC 19), 32=117 (LC 19), 33=118 (LC 19), 34=116 (LC 19), 35=157 (LC 19)

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

TOP CHORD	1-2=0/5, 2-3=-251/192, 3-4=-169/147, 4-5=-141/127, 5-6=-127/119, 6-7=-113/131, 7-8=-101/160, 8-9=-120/202, 9-10=-129/221, 10-11=-129/221, 11-12=-120/202, 12-13=-90/148, 13-14=-61/95, 14-15=-63/50, 15-16=-73/49, 16-17=-104/68, 17-18=-192/105, 18-19=0/5
BOT CHORD	2-35=-84/178, 34-35=-84/178, 33-34=-84/178, 32-33=-84/178, 31-32=-84/178, 30-31=-84/178, 29-30=-84/178, 28-29=-84/178, 27-28=-84/178, 26-27=-84/178, 24-26=-84/178, 23-24=-84/178, 22-23=-84/178, 21-22=-84/178, 20-21=-84/178, 18-20=-84/178
WEBS	10-28=-133/43, 9-29=-92/35, 8-30=-93/84, 7-31=-91/80, 6-32=-91/74, 5-33=-90/75, 4-34=-93/88, 3-35=-119/130, 11-27=-79/23, 12-26=-95/84, 13-24=-92/80, 14-23=-91/74, 15-22=-91/75, 16-21=-91/88, 17-20=-109/128

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; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 10-11-8, Corner (3R) 10-11-8 to 15-4-5, Exterior(2N) 15-4-5 to 22-8-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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 80 lb uplift at joint 2, 19 lb uplift at joint 29, 66 lb uplift at joint 30, 62 lb uplift at joint 31, 58 lb uplift at joint 32, 57 lb uplift at joint 33, 59 lb uplift at joint 34, 119 lb uplift at joint 35, 7 lb uplift at joint 27, 67 lb uplift at joint 26, 63 lb uplift at joint 24, 21 lb uplift at joint 18, 58 lb uplift at joint 23, 57 lb uplift at joint 22, 58 lb uplift at joint 21 and 109 lb uplift at joint 20.

LOAD CASE(S) Standard



September 10,2025

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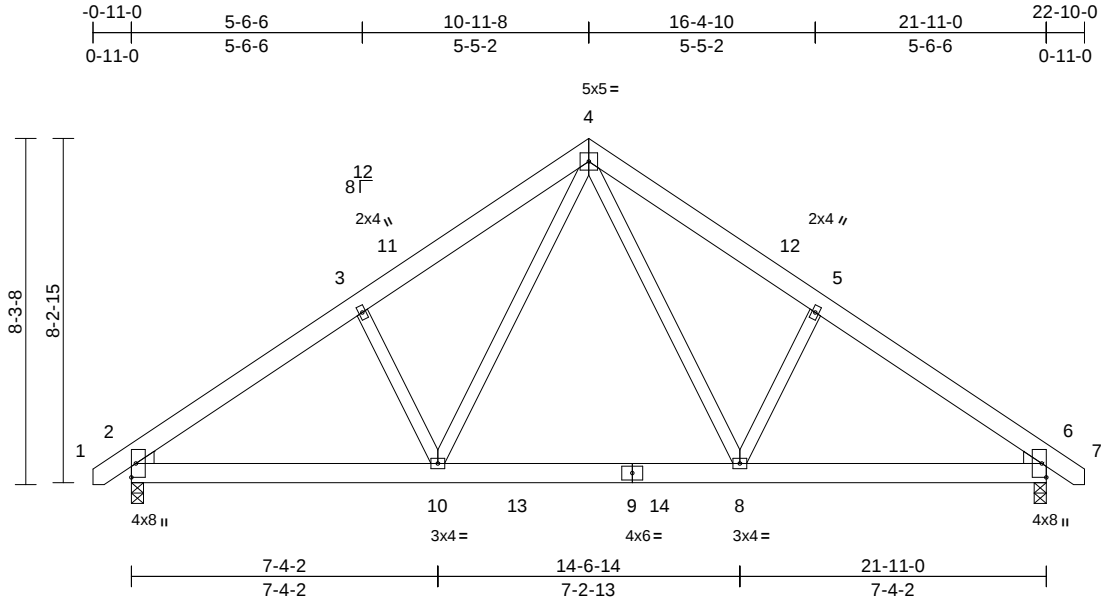
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200428
251075-A	H2	Common	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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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	0.20	Vert(LL)	-0.05	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	2-10	>999	240	Weight: 156 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2
Right: 2x4 SP No.2

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 57 lb uplift at joint 6.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-188 (LC 10)
Max Uplift 2=-57 (LC 12), 6=-57 (LC 13)
Max Grav 2=1068 (LC 19), 6=1068 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/5, 2-3=-1341/250, 3-4=-1242/321, 4-5=-1242/321, 5-6=-1341/250, 6-7=0/5
BOT CHORD 2-10=-128/1145, 8-10=0/773, 6-8=-109/1023
WEBS 4-8=-119/622, 5-8=-255/216, 4-10=-119/622, 3-10=-255/216

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 10-11-8, Exterior(2R) 10-11-8 to 15-4-5, Interior (1) 15-4-5 to 22-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



September 10, 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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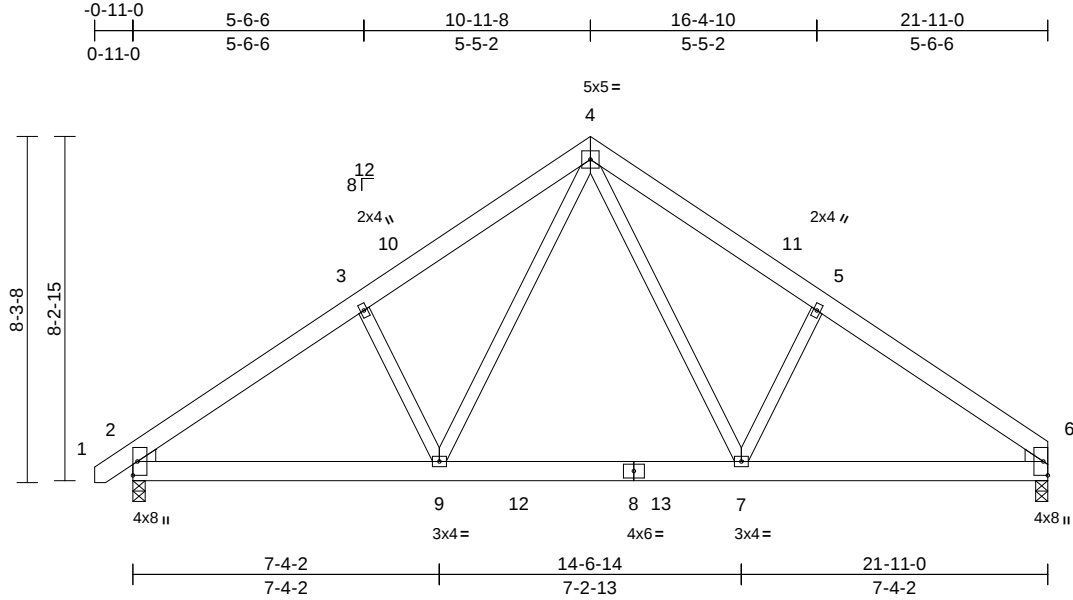
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200429
251075-A	H3	Common	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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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	0.20	Vert(LL)	-0.05	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	7-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	2-9	>999	240	Weight: 154 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2
Right: 2x4 SP No.2

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 44 lb uplift at joint 6.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=187 (LC 11)
Max Uplift 2=-57 (LC 12), 6=-44 (LC 13)
Max Grav 2=1068 (LC 19), 6=1014 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/5, 2-3=-1342/250, 3-4=-1243/322, 4-5=-1247/325, 5-6=-1345/253
BOT CHORD 2-9=-135/1145, 7-9=0/773, 6-7=-118/1025
WEBS 4-7=-121/628, 5-7=-259/220, 4-9=-119/621, 3-9=-255/216

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 10-11-8, Exterior(2R) 10-11-8 to 15-4-5, Interior (1) 15-4-5 to 21-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



September 10, 2025

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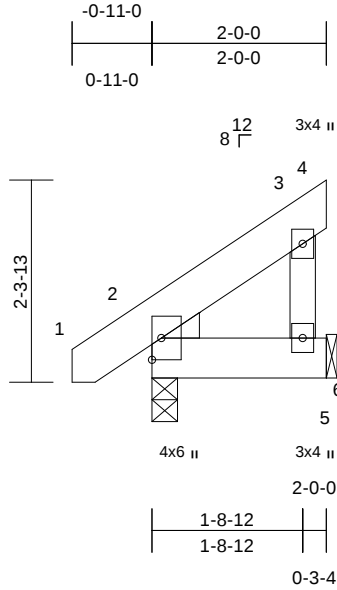
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200430
251075-A	J1	Monopitch	9	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.00	2-6	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.2

BRACING

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

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=59 (LC 12)
Max Uplift 5=-29 (LC 12)
Max Grav 2=137 (LC 1), 5=70 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/5, 2-3=-100/55, 3-4=-3/0, 3-6=-92/128
BOT CHORD 2-6=0/0, 5-6=0/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5.

LOAD CASE(S) Standard



September 10, 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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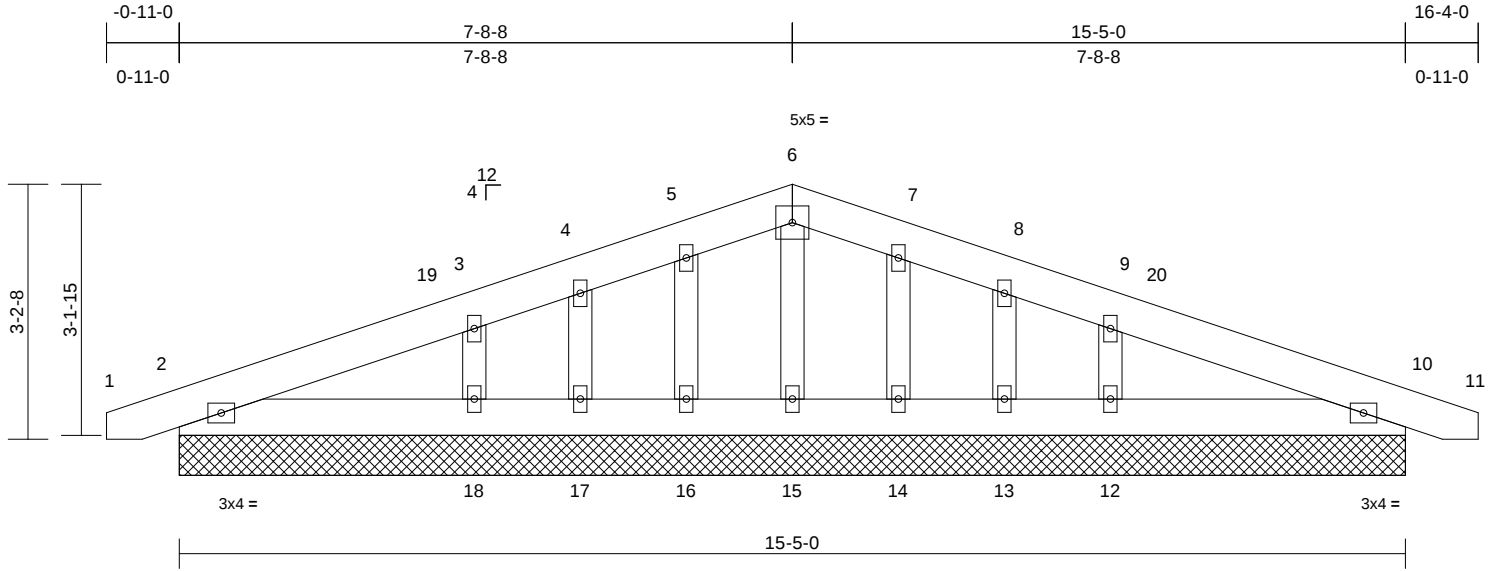
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	176200431
251075-A	P1-GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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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	0.05	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 95 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 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) 2=15-5-0, 10=15-5-0, 12=15-5-0, 13=15-5-0, 14=15-5-0, 15=15-5-0, 16=15-5-0, 17=15-5-0, 18=15-5-0
Max Horiz 2=57 (LC 12)
Max Uplift 2=-63 (LC 8), 10=-70 (LC 9), 12=-101 (LC 13), 13=-20 (LC 9), 14=-30 (LC 13), 16=-32 (LC 12), 17=-19 (LC 8), 18=-102 (LC 12)
Max Grav 2=170 (LC 1), 10=170 (LC 1), 12=297 (LC 1), 13=24 (LC 26), 14=121 (LC 1), 15=93 (LC 1), 16=121 (LC 1), 17=24 (LC 25), 18=297 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/7, 2-3=-56/55, 3-4=-36/94, 4-5=-34/114, 5-6=-42/144, 6-7=-42/142, 7-8=-34/108, 8-9=-35/89, 9-10=-43/36, 10-11=0/7
BOT CHORD 2-18=-11/60, 17-18=-11/60, 16-17=-11/60, 15-16=-11/60, 14-15=-11/60, 13-14=-11/60, 12-13=-11/60, 10-12=-11/60
WEBS 6-15=-72/13, 5-16=-84/96, 4-17=-34/59, 3-18=-204/234, 7-14=-84/95, 8-13=-34/59, 9-12=-204/234

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-5 to 3-8-8, Exterior(2N) 3-8-8 to 7-8-8, Corner(3R) 7-8-8 to 12-1-5, Exterior(2N) 12-1-5 to 16-1-5 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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 63 lb uplift at joint 2, 70 lb uplift at joint 10, 32 lb uplift at joint 16, 19 lb uplift at joint 17, 102 lb uplift at joint 18, 30 lb uplift at joint 14, 20 lb uplift at joint 13 and 101 lb uplift at joint 12.

LOAD CASE(S) Standard



September 10, 2025

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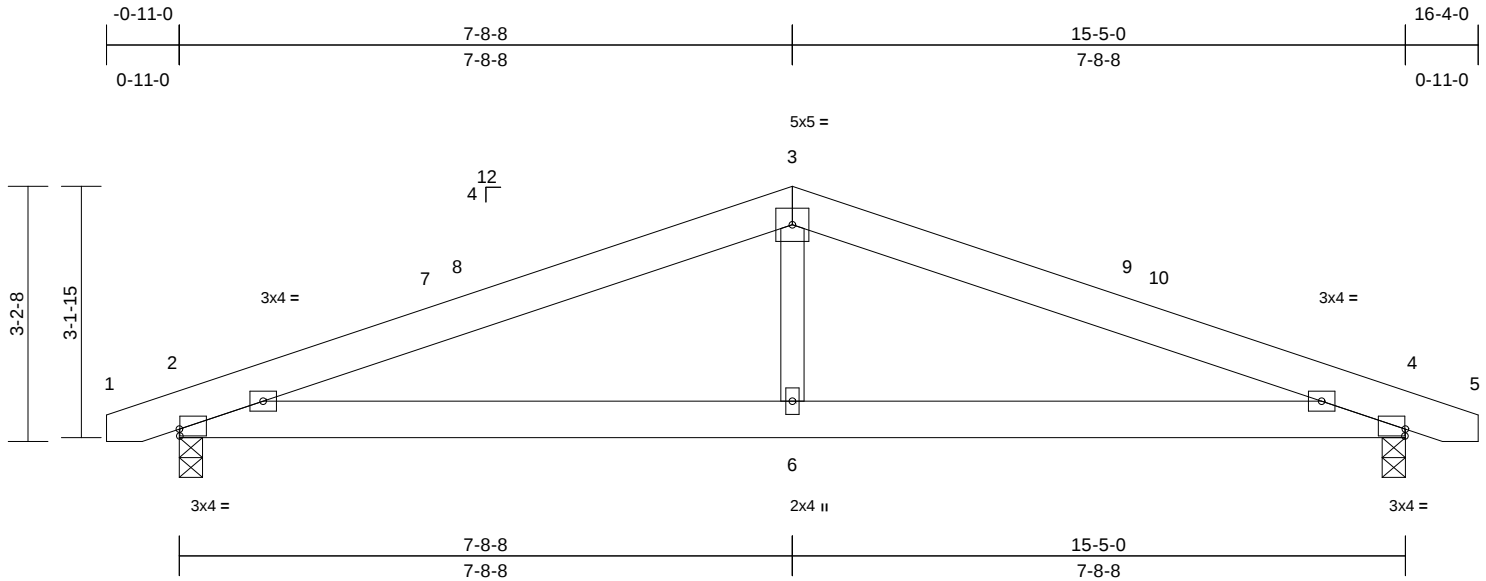
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	176200432
251075-A	P2	Common	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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Page: 1



Scale = 1:29

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

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	0.27	Vert(LL)	-0.02	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.02	2-6	>999	240	Weight: 82 lb	FT = 20%

LUMBER

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 78 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 2=0-3-8, 4=0-3-8

Max Horiz 2=34 (LC 16)
Max Uplift 2=-78 (LC 8), 4=-78 (LC 9)
Max Grav 2=655 (LC 1), 4=655 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/7, 2-3=-1101/445, 3-4=-1101/445, 4-5=0/7

BOT CHORD 2-6=-326/969, 4-6=-326/969

WEBS 3-6=0/361

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior (1) 3-8-8 to 7-8-8, Exterior(2R) 7-8-8 to 12-1-5, Interior (1) 12-1-5 to 16-1-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



September 10,2025

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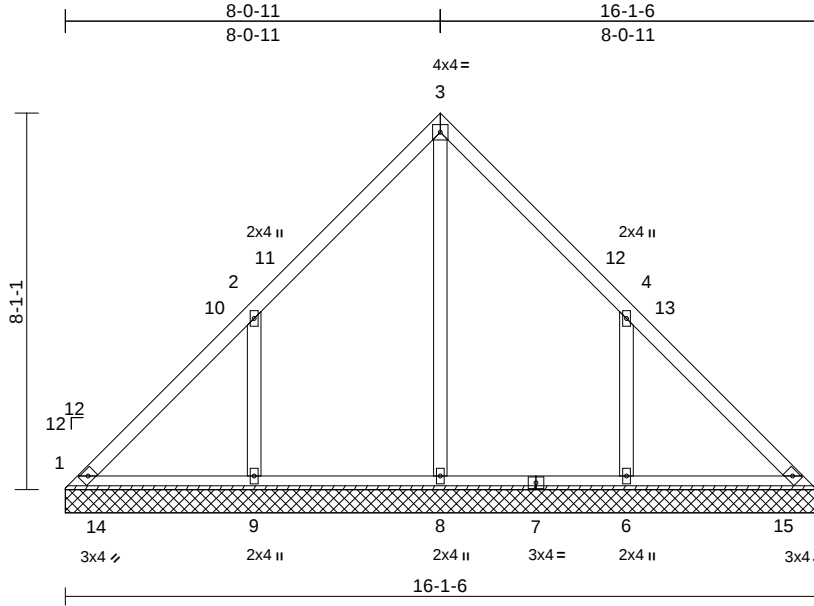
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200433
251075-A	VC-1	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 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=16-1-6, 5=16-1-6, 6=16-1-6, 8=16-1-6, 9=16-1-6
	Max Horiz	1=-185 (LC 8)
	Max Uplift	1=-27 (LC 8), 6=-193 (LC 13), 9=-194 (LC 12)
	Max Grav	1=201 (LC 20), 5=178 (LC 19), 6=543 (LC 20), 8=407 (LC 22), 9=543 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-179/148, 2-3=-170/174, 3-4=-152/165, 4-5=-150/105
BOT CHORD	1-9=-74/160, 8-9=-74/160, 6-8=-74/160, 5-6=-74/160
WEBS	3-8=-137/2, 2-9=-327/346, 4-6=-326/346

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior (1) 4-9-0 to 8-1-1, Exterior(2R) 8-1-1 to 12-5-14, Interior (1) 12-5-14 to 15-9-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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 27 lb uplift at joint 1, 194 lb uplift at joint 9 and 193 lb uplift at joint 6.
- LOAD CASE(S)** Standard



September 10, 2025

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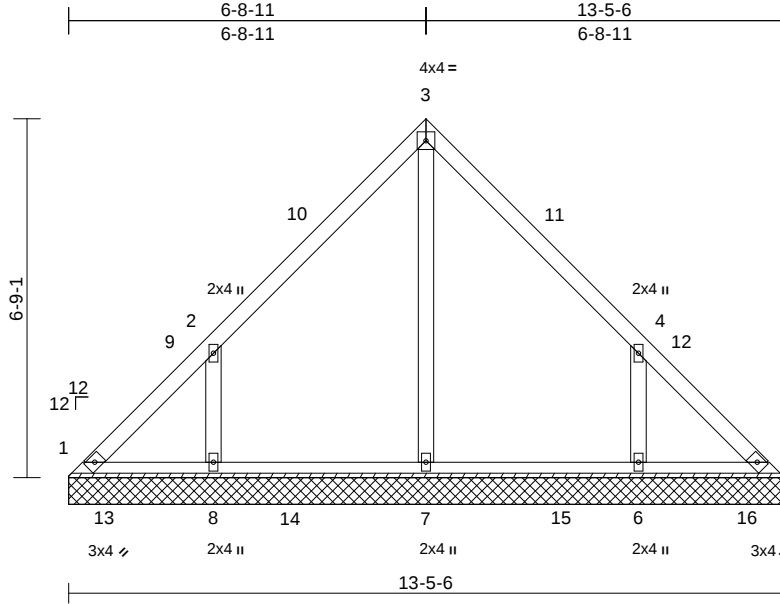
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200434
251075-A	VC-2	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 63 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=13-5-6, 5=13-5-6, 6=13-5-6, 7=13-5-6, 8=13-5-6
	Max Horiz	1=-153 (LC 8)
	Max Uplift	1=-38 (LC 8), 5=-13 (LC 9), 6=-166 (LC 13), 8=-166 (LC 12)
	Max Grav	1=141 (LC 20), 5=123 (LC 19), 6=429 (LC 20), 7=398 (LC 19), 8=429 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-174/127, 2-3=-166/166, 3-4=-152/156, 4-5=-163/91
BOT CHORD	1-8=-56/140, 7-8=-56/140, 6-7=-56/140, 5-6=-56/140
WEBS	3-7=-138/0, 2-8=-296/359, 4-6=-296/359

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior (1) 4-9-0 to 6-9-1, Exterior(2R) 6-9-1 to 11-1-14, Interior (1) 11-1-14 to 13-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 38 lb uplift at joint 1, 13 lb uplift at joint 5, 166 lb uplift at joint 8 and 166 lb uplift at joint 6.

LOAD CASE(S) Standard



September 10, 2025

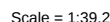
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27 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=10-9-6, 5=10-9-6, 6=10-9-6,
7=10-9-6, 8=10-9-6
Max Horiz 1=122 (LC 8)
Max Uplift 1=108 (LC 10), 5=88 (LC 11),
6=170 (LC 13), 8=171 (LC 12)
Max Grav 1=121 (LC 9), 5=109 (LC 13),
6=355 (LC 20), 7=221 (LC 1),
8=356 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=261/133, 2-3=163/155, 3-4=153/143,
4-5=248/112
BOT CHORD 1-8=40/120, 7-8=40/120, 6-7=40/120,
5-6=40/120
WEBS 3-7=135/13, 2-8=332/471, 4-6=332/471

- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 1, 88 lb uplift at joint 5, 171 lb uplift at joint 8 and 170 lb uplift at joint 6.

LOAD CASE(S) Standard

September 10, 2025

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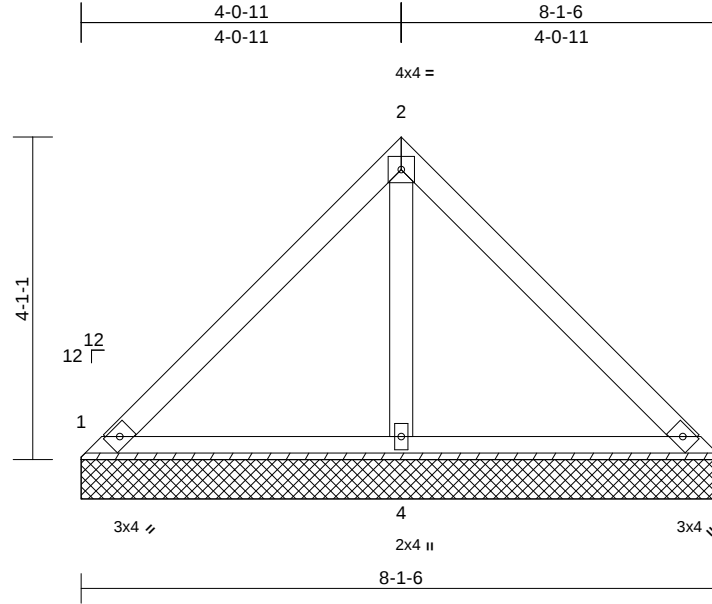
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200436
251075-A	VC-4	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:27
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Page: 1



Scale = 1:29.2

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							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 or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=8-1-6, 3=8-1-6, 4=8-1-6
Max Horiz	1=-90 (LC 8)
Max Uplift	1=-32 (LC 13), 3=-32 (LC 13)
Max Grav	1=182 (LC 1), 3=182 (LC 1), 4=234 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-137/88, 2-3=-123/112
BOT CHORD	1-4=-26/61, 3-4=-26/61
WEBS	2-4=-140/100

NOTES

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

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 32 lb uplift at joint 3.

LOAD CASE(S) Standard



September 10, 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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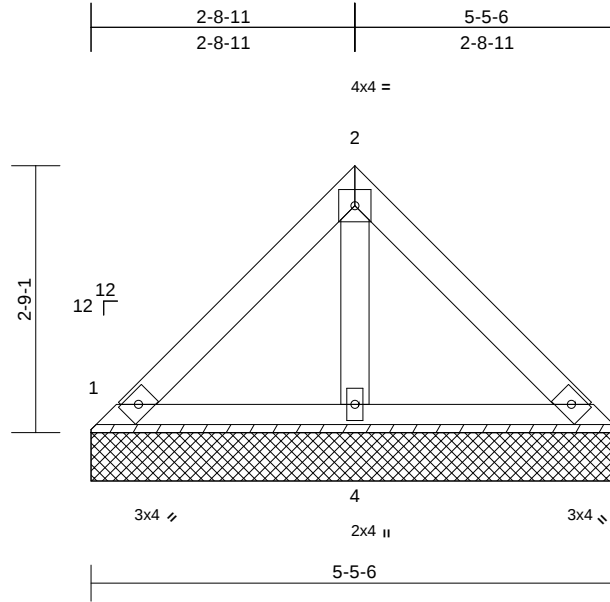
Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200437
251075-A	VC-5	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:28

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Scale = 1:23.8

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 21 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 5-6-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=5-5-6, 3=5-5-6, 4=5-5-6
Max Horiz	1=58 (LC 9)
Max Uplift	1=-21 (LC 13), 3=-21 (LC 13)
Max Grav	1=117 (LC 1), 3=117 (LC 1), 4=150 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-88/68, 2-3=-79/86
BOT CHORD	1-4=-17/46, 3-4=-17/46
WEBS	2-4=-90/80

NOTES

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

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.

LOAD CASE(S) Standard



September 10,2025

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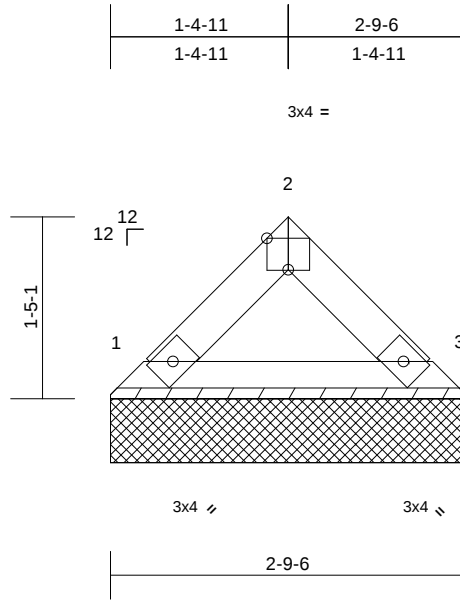
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	861 Mann Road	I76200438
251075-A	VC-6	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Aug 20 2025 Print: 25.3.0 S Aug 20 2025 MiTek Industries, Inc. Tue Sep 09 07:25:28
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Page: 1



Scale = 1:18

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 9 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 2-10-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-9-6, 3=2-9-6
Max Horiz 1=26 (LC 9)
Max Uplift 1=-3 (LC 12), 3=-3 (LC 13)
Max Grav 1=86 (LC 1), 3=86 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-64/62, 2-3=-64/74
BOT CHORD 1-3=-6/36

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1 and 3 lb uplift at joint 3.

LOAD CASE(S) Standard



September 10, 2025

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

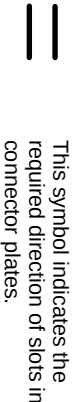
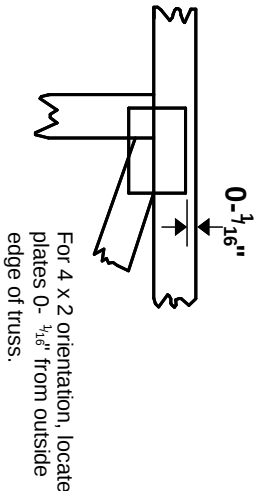
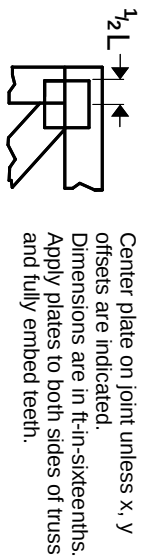
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



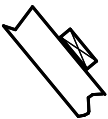
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

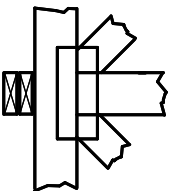
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

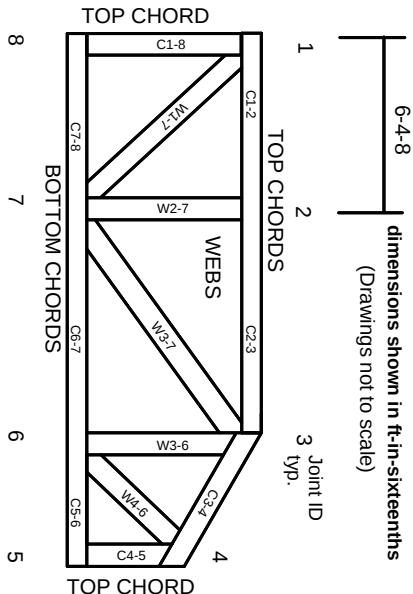


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI.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/TPI 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 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