

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J0325-1599
Lot 103 Ducks Landing

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: I74088640 thru I74088659

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

North Carolina COA: C-0844

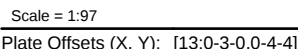


June 11, 2025

Gilbert, Eric

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

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:50 Page: 1
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NOTES

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

June 11.2025

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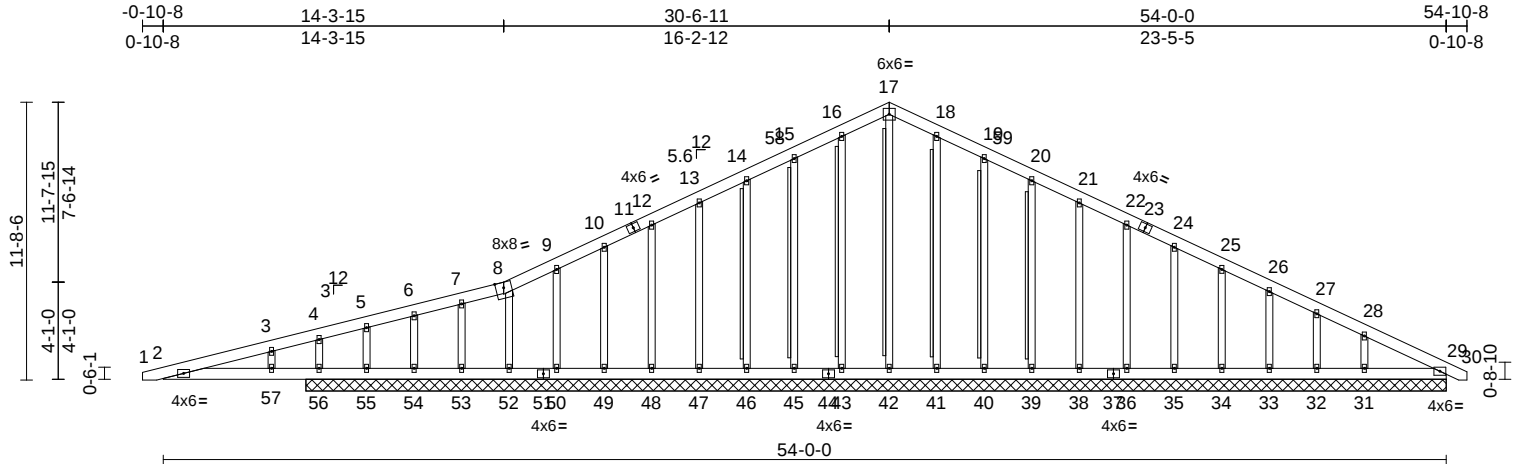
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	174088641
J0325-1599	A1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:97

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.03	29	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 459 lb	FT = 20%

LUMBER

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

Max Grav 29=146 (LC 6), 31=309 (LC 1),
32=123 (LC 1), 33=167 (LC 24),
34=159 (LC 1), 35=160 (LC 24),
36=160 (LC 1), 38=161 (LC 1),
39=159 (LC 24), 40=152 (LC 24),
41=246 (LC 1), 42=591 (LC 1),
43=246 (LC 1), 45=140 (LC 23),
46=157 (LC 1), 47=161 (LC 1),
48=160 (LC 23), 49=147 (LC 23),
50=199 (LC 1), 52=18 (LC 8),
53=166 (LC 1), 54=304 (LC 1),
55=199 (LC 6), 56=1060 (LC 1)

WEBS

3-57=-98/114, 4-56=-514/223, 5-55=-25/184,
6-54=-158/102, 7-53=-155/98, 8-52=0/83,
9-50=-161/113, 10-49=-107/102,
12-48=-121/103, 13-47=-121/103,
14-46=-117/104, 15-45=-100/160,
16-43=-206/147, 17-42=-551/27,
18-41=-206/147, 19-40=-112/160,
20-39=-119/104, 21-38=-121/102,
22-36=-120/103, 24-35=-120/103,
25-34=-120/103, 26-33=-123/105,
27-32=-100/84, 28-31=-228/182

BRACING

TOP CHORD Structural wood sheathing directly applied or
10-0-0 oc purlins.

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

WEBS T-Brace: 2x4 SPF No.2 - 14-46,
15-45, 16-43, 17-42,
18-41, 19-40, 20-39

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) 29=48-0-0, 31=48-0-0, 32=48-0-0,
33=48-0-0, 34=48-0-0, 35=48-0-0,
36=48-0-0, 38=48-0-0, 39=48-0-0,
40=48-0-0, 41=48-0-0, 42=48-0-0,
43=48-0-0, 45=48-0-0, 46=48-0-0,
47=48-0-0, 48=48-0-0, 49=48-0-0,
50=48-0-0, 52=48-0-0, 53=48-0-0,
54=48-0-0, 55=48-0-0, 56=48-0-0
Max Horiz 56=255 (LC 14)
Max Uplift 29=-247 (LC 23), 31=-162 (LC 11),
32=-63 (LC 11), 33=-86 (LC 11),
34=-83 (LC 11), 35=-83 (LC 11),
36=-83 (LC 11), 38=-82 (LC 11),
39=-84 (LC 11), 40=-94 (LC 11),
41=-50 (LC 11), 42=-7 (LC 6),
43=-58 (LC 10), 45=-92 (LC 10),
46=-84 (LC 10), 47=-83 (LC 10),
48=-83 (LC 10), 49=-82 (LC 10),
50=-93 (LC 10), 52=-31 (LC 10),
53=-66 (LC 6), 54=-124 (LC 6),
55=-541 (LC 1), 56=-415 (LC 6)

FORCES

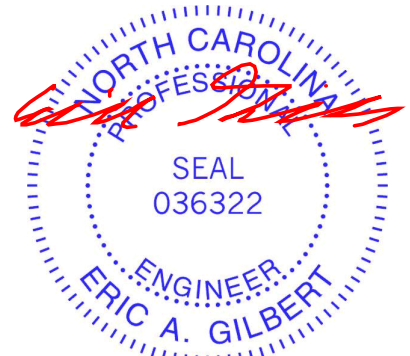
(lb) - Maximum Compression/Maximum
Tension
1-2=0/6, 2-3=-364/663, 3-4=-322/667,
4-5=-274/572, 5-6=-263/646, 6-7=-233/636,
7-8=-208/622, 8-9=-188/696, 9-10=-142/679,
10-12=-119/685, 12-13=-94/685,
13-14=-69/684, 14-15=-44/685,
15-16=-19/694, 16-17=0/658, 17-18=0/656,
18-19=-33/692, 19-20=-67/683,
20-21=-101/682, 21-22=-135/682,
22-24=-169/682, 24-25=-203/682,
25-26=-237/682, 26-27=-271/683,
27-28=-301/675, 28-29=-370/727, 29-30=0/5

BOT CHORD

2-57=-601/381, 56-57=-601/381,
55-56=-601/350, 54-55=-601/350,
53-54=-601/350, 52-53=-601/350,
50-52=-597/350, 49-50=-597/350,
48-49=-597/350, 47-48=-597/350,
46-47=-597/350, 45-46=-597/350,
43-45=-597/350, 42-43=-597/350,
41-42=-597/350, 40-41=-597/350,
39-40=-597/350, 38-39=-597/350,
36-38=-597/350, 35-36=-597/350,
34-35=-597/350, 33-34=-597/350,
32-33=-597/350, 31-32=-597/350,
29-31=-597/350

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
zone and C-C Corner(3E) -0-6-15 to 3-9-14, Exterior
(2N) 3-9-14 to 26-1-14, Corner(3R) 26-1-14 to 34-11-8,
Exterior(2N) 34-11-8 to 50-3-10, Corner(3E) 50-3-10 to
54-8-7 zone; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60



June 11, 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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	A1GE	GABLE	1	1	Job Reference (optional)

I74088641

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:51

Page: 2

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- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 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 40.0psf 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 415 lb uplift at joint 56, 541 lb uplift at joint 55, 124 lb uplift at joint 54, 66 lb uplift at joint 53, 31 lb uplift at joint 52, 93 lb uplift at joint 50, 82 lb uplift at joint 49, 83 lb uplift at joint 48, 83 lb uplift at joint 47, 84 lb uplift at joint 46, 92 lb uplift at joint 45, 58 lb uplift at joint 43, 7 lb uplift at joint 42, 50 lb uplift at joint 41, 94 lb uplift at joint 40, 84 lb uplift at joint 39, 82 lb uplift at joint 38, 83 lb uplift at joint 36, 83 lb uplift at joint 35, 83 lb uplift at joint 34, 86 lb uplift at joint 33, 63 lb uplift at joint 32, 162 lb uplift at joint 31 and 247 lb uplift at joint 29.
- 10) Non Standard bearing condition. Review required.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



June 11, 2025

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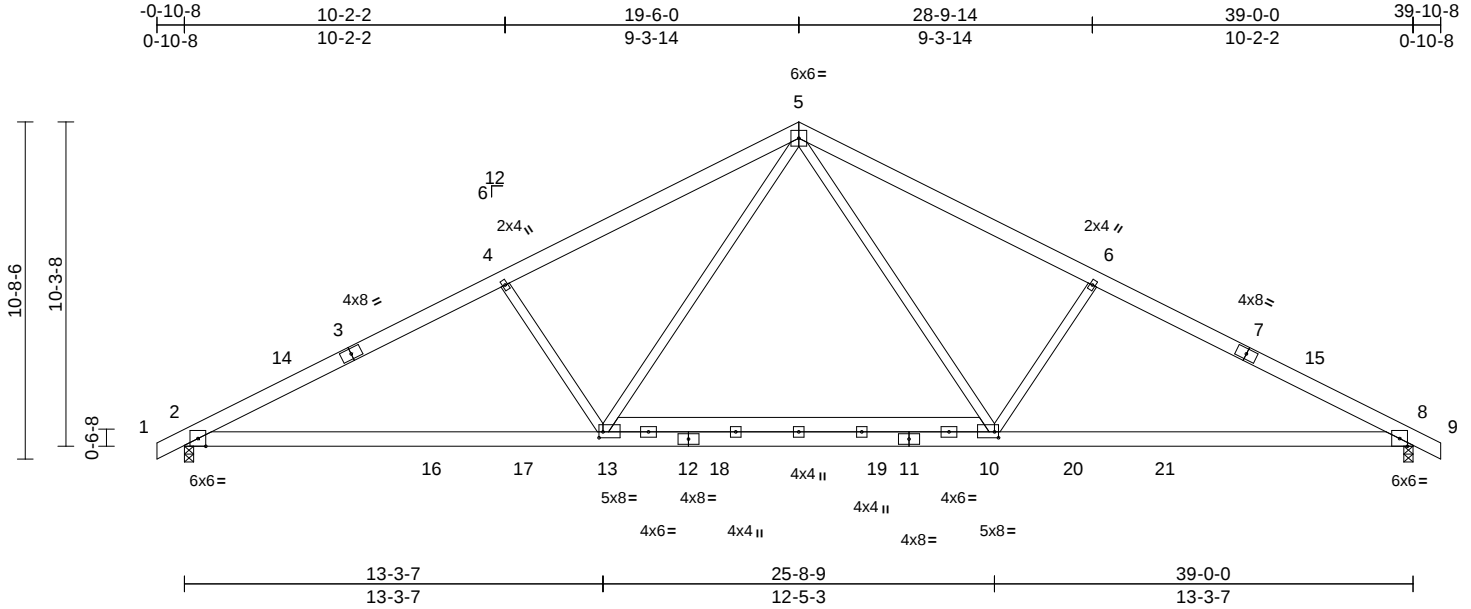
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	174088642
J0325-1599	B1	Common	8	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:52
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Page: 1



Scale = 1:73.1

Plate Offsets (X, Y): [10:0-1-8,0-2-4], [13:0-1-8,0-2-4]

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	0.43	Vert(LL)	-0.26	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.44	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.11	2-13	>999	240	Weight: 277 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except* 12-11:2x6 SP No.1
WEBS 2x4 SP No.2 *Except* 13-10:2x6 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-15 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=-229 (LC 11)
Max Uplift 2=-380 (LC 10), 8=-380 (LC 11)
Max Grav 2=2085 (LC 2), 8=2085 (LC 2)

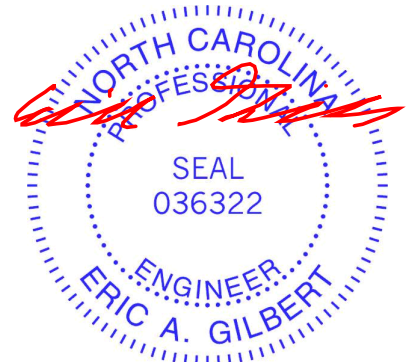
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-4=-3759/1089, 4-5=-3490/1053, 5-6=-3490/1053, 6-8=-3759/1089, 8-9=0/21
BOT CHORD 2-13=-736/3290, 10-13=-220/2199, 8-10=-736/3290
WEBS 5-13=-326/1542, 4-13=-578/595, 5-10=-326/1542, 6-10=-578/595

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=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 15-1-3, Corner(3R) 15-1-3 to 23-10-13, Exterior (2N) 23-10-13 to 35-5-11, Corner(3E) 35-5-11 to 39-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 19-6-0 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 40.0psf 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 2 and 380 lb uplift at joint 8.

LOAD CASE(S) Standard



June 11,2025

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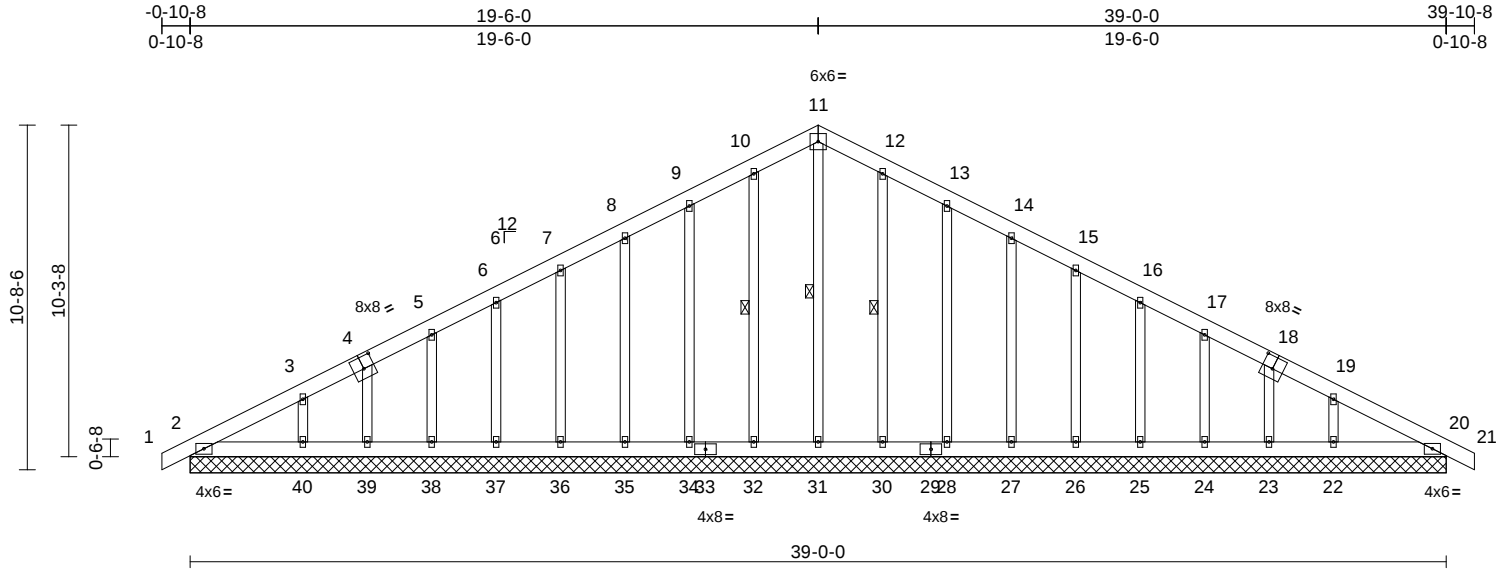
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	B1GE	Common Supported Gable	1	1	174088643
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:71.5

Plate Offsets (X, Y): [4:0-4-0,0-4-8], [18:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	20	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

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 1 Row at midpt 11-31, 10-32, 12-30

REACTIONS

(size) 2=39-0-0, 20=39-0-0, 22=39-0-0, 23=39-0-0, 24=39-0-0, 25=39-0-0, 26=39-0-0, 27=39-0-0, 28=39-0-0, 30=39-0-0, 31=39-0-0, 32=39-0-0, 34=39-0-0, 35=39-0-0, 36=39-0-0, 37=39-0-0, 38=39-0-0, 39=39-0-0, 40=39-0-0
Max Horiz 2=148 (LC 9)
Max Uplift 2=-24 (LC 6), 22=-74 (LC 11), 23=-37 (LC 11), 24=-51 (LC 11), 25=-47 (LC 11), 26=-46 (LC 11), 27=-47 (LC 11), 28=-56 (LC 11), 30=-19 (LC 11), 32=-26 (LC 10), 34=-54 (LC 10), 35=-47 (LC 10), 36=-46 (LC 10), 37=-46 (LC 10), 38=-51 (LC 10), 39=-37 (LC 10), 40=-75 (LC 10)
Max Grav 2=189 (LC 1), 20=189 (LC 1), 22=262 (LC 24), 23=117 (LC 24), 24=175 (LC 1), 25=157 (LC 24), 26=160 (LC 1), 27=160 (LC 1), 28=162 (LC 24), 30=162 (LC 1), 31=169 (LC 20), 32=162 (LC 1), 34=162 (LC 23), 35=160 (LC 1), 36=160 (LC 1), 37=157 (LC 23), 38=175 (LC 1), 39=117 (LC 23), 40=262 (LC 23)

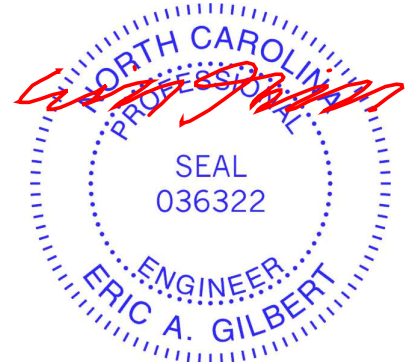
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-0/21, 2-3=-184/102, 3-5=-119/88, 5-6=-90/103, 6-7=-80/158, 7-8=-78/222, 8-9=-100/286, 9-10=-125/357, 10-11=-141/400, 11-12=-141/400, 12-13=-125/357, 13-14=-100/286, 14-15=-78/222, 15-16=-55/158, 16-17=-46/94, 17-19=-78/29, 19-20=-160/66, 20-21=0/21
BOT CHORD 2-40=-55/245, 39-40=-55/245, 38-39=-60/251, 37-38=-60/251, 36-37=-60/251, 35-36=-60/251, 34-35=-60/251, 32-34=-60/251, 31-32=-60/251, 30-31=-60/251, 28-30=-60/251, 27-28=-60/251, 26-27=-60/251, 25-26=-60/251, 24-25=-60/251, 23-24=-60/251, 22-23=-55/245, 20-22=-55/245
WEBS 11-31=-208/25, 10-32=-122/70, 9-34=-122/136, 8-35=-120/121, 7-36=-120/119, 6-37=-118/119, 5-38=-131/130, 4-39=-93/84, 3-40=-184/246, 12-30=-122/70, 13-28=-122/136, 14-27=-120/121, 15-26=-120/119, 16-25=-118/119, 17-24=-131/130, 18-23=-93/84, 19-22=-184/246

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-10-8 to 3-6-0, Exterior(2N) 3-6-0 to 15-1-3, Corner(3R) 15-1-3 to 23-10-13, Exterior(2N) 23-10-13 to 35-5-11, Corner(3E) 35-5-11 to 39-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.



June 11, 2025

Continued on page 2

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ENGINEERING BY
TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	B1GE	Common Supported Gable	1	1	I74088643
					Job Reference (optional)

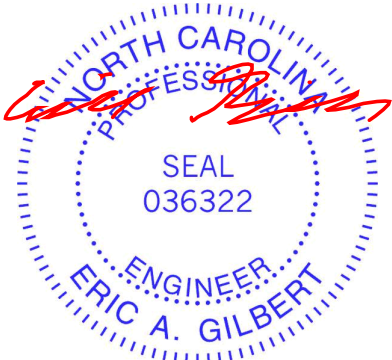
Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:52
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Page: 2

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 26 lb uplift at joint 32, 54 lb uplift at joint 34, 47 lb uplift at joint 35, 46 lb uplift at joint 36, 46 lb uplift at joint 37, 51 lb uplift at joint 38, 37 lb uplift at joint 39, 75 lb uplift at joint 40, 19 lb uplift at joint 30, 56 lb uplift at joint 28, 47 lb uplift at joint 27, 46 lb uplift at joint 26, 47 lb uplift at joint 25, 51 lb uplift at joint 24, 37 lb uplift at joint 23 and 74 lb uplift at joint 22.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

LOAD CASE(S) Standard



June 11,2025

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ENGINEERING BY

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818 Soundside Road
Edenton, NC 27932

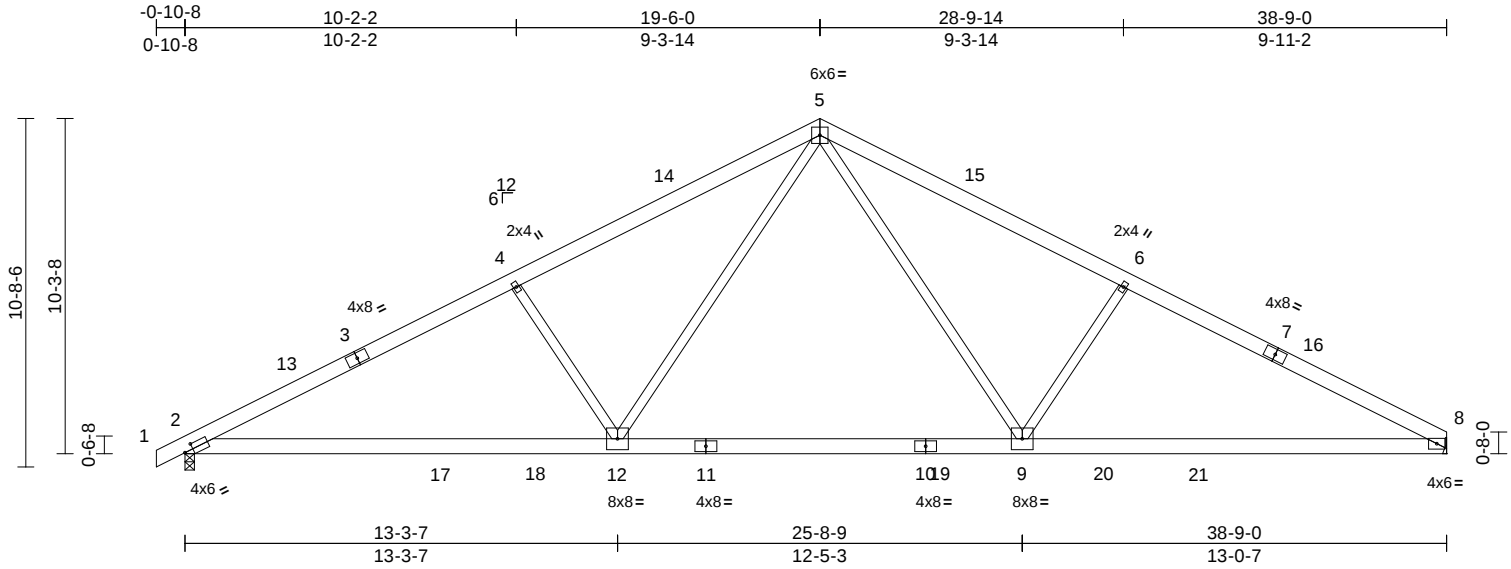
Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	
J0325-1599	B2	Common	6	1	Job Reference (optional)	I74088644

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:70.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.40	9-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.51	9-12	>899	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.09	2-12	>999	240	Weight: 245 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8= Mechanical
Max Horiz 2=149 (LC 9)
Max Uplift 2=-212 (LC 10), 8=-194 (LC 11)
Max Grav 2=1981 (LC 2), 8=1933 (LC 2)

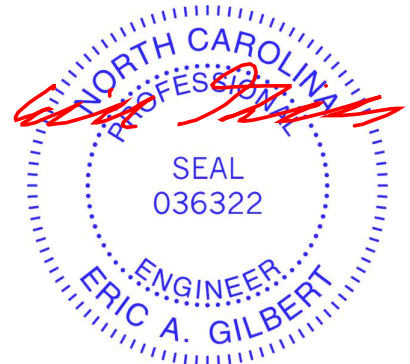
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/21, 2-4=-3408/868, 4-5=-3158/878, 5-6=-3137/880, 6-8=-3383/870
BOT CHORD 2-12=-633/3023, 9-12=-293/2001, 8-9=-637/2938
WEBS 5-12=-242/1403, 4-12=-586/393, 5-9=-244/1373, 6-9=-566/398

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 15-1-3, Exterior(2R) 15-1-3 to 23-10-13, Interior (1) 23-10-13 to 34-3-7, Exterior(2E) 34-3-7 to 38-8-4 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 40.0psf 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.

- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 194 lb uplift at joint 8.

LOAD CASE(S) Standard



June 11,2025

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Edenton, NC 27932

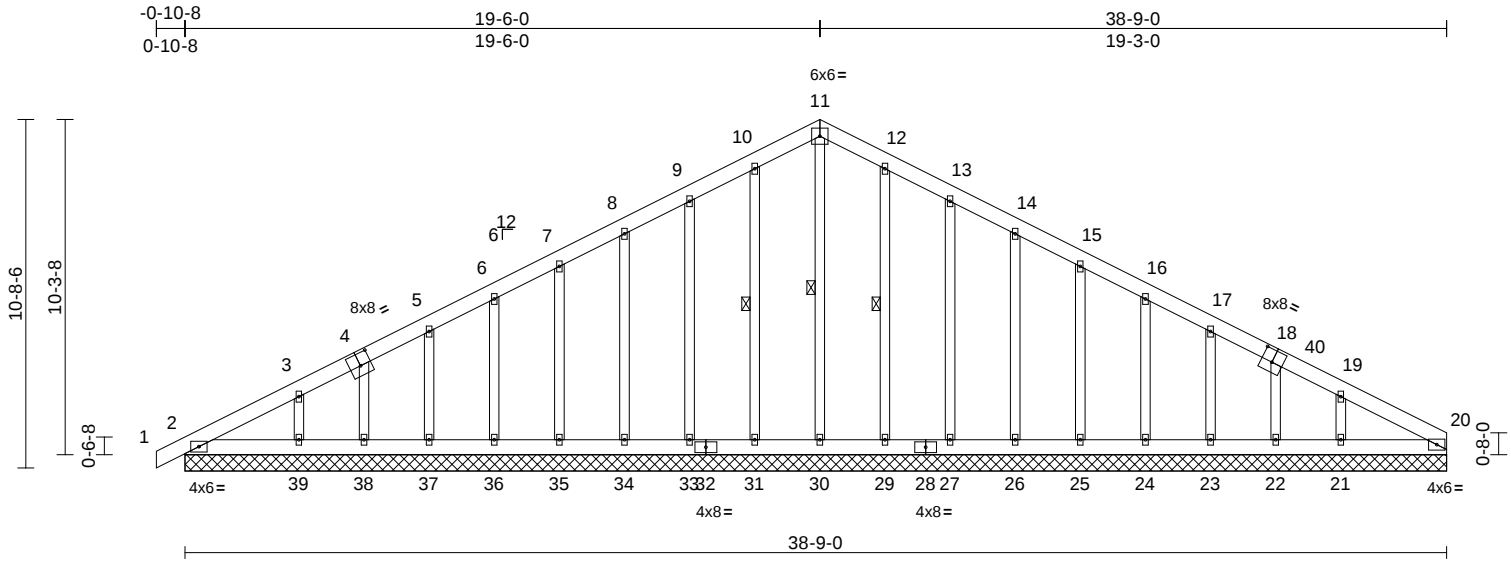
Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	B2GE	Common Supported Gable	1	1	174088645
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

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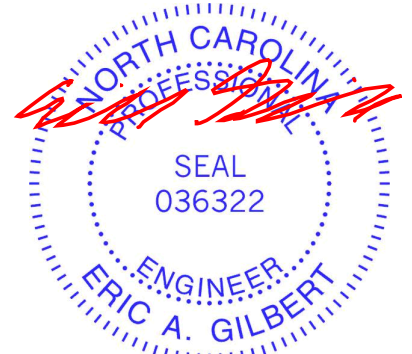


Scale = 1:70.8									
Plate Offsets (X, Y): [4:0-4-0,0-4-8], [18:0-4-0,0-4-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	999
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	20	n/a
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S					
Weight: 325 lb FT = 20%									

LUMBER		FORCES	(lb) - Maximum Compression/Maximum Tension	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.
TOP CHORD	2x6 SP No.1	TOP CHORD	1-2=0/21, 2-3=-186/99, 3-5=-122/85, 5-6=-92/98, 6-7=-82/150, 7-8=-80/214, 8-9=-103/279, 9-10=-128/349, 10-11=-143/393, 11-12=-143/393, 12-13=-128/349, 13-14=-103/279, 14-15=-80/214, 15-16=-58/150, 16-17=-48/86, 17-19=-79/26, 19-20=-201/72	4)	All plates are 2x4 MT20 unless otherwise indicated.
BOT CHORD	2x6 SP No.1	BOT CHORD	2-39=-57/229, 38-39=-57/229, 37-38=-62/236, 36-37=-62/236, 35-36=-62/236, 34-35=-62/236, 33-34=-62/236, 31-33=-62/236, 30-31=-62/236, 29-30=-62/236, 27-29=-62/236, 26-27=-62/236, 25-26=-62/236, 24-25=-62/236, 23-24=-62/236, 22-23=-62/236, 21-22=-63/236, 20-21=-63/236	5)	Gable requires continuous bottom chord bearing.
OTHERS	2x4 SP No.2	WEBS	11-30=-202/27, 10-31=-122/71, 9-33=-122/136, 8-34=-120/121, 7-35=-120/119, 6-36=-118/119, 5-37=-131/130, 4-38=-93/84, 3-39=-184/246, 12-29=-122/71, 13-27=-122/136, 14-26=-120/121, 15-25=-120/119, 16-24=-120/120, 17-23=-122/122, 18-22=-99/97, 19-21=-188/292	6)	Gable studs spaced at 2-0-0 oc.
BRACING				7)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.			8)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			9)	All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
WEBS	1 Row at midpt 11-30, 10-31, 12-29				
REACTIONS	(size)				
	2=38-9-0, 20=38-9-0, 21=38-9-0, 22=38-9-0, 23=38-9-0, 24=38-9-0, 25=38-9-0, 26=38-9-0, 27=38-9-0, 29=38-9-0, 30=38-9-0, 31=38-9-0, 33=38-9-0, 34=38-9-0, 35=38-9-0, 36=38-9-0, 37=38-9-0, 38=38-9-0, 39=38-9-0				
Max Horiz	2=149 (LC 7)				
Max Uplift	2=-23 (LC 6), 21=-85 (LC 11), 22=-37 (LC 11), 23=-48 (LC 11), 24=-47 (LC 11), 25=-46 (LC 11), 26=-47 (LC 11), 27=-56 (LC 11), 29=-20 (LC 11), 31=-26 (LC 10), 33=-54 (LC 10), 34=-47 (LC 10), 35=-46 (LC 10), 36=-46 (LC 10), 37=-51 (LC 10), 38=-37 (LC 10), 39=-75 (LC 10)				
Max Grav	2=189 (LC 1), 20=116 (LC 1), 21=262 (LC 24), 22=125 (LC 24), 23=166 (LC 24), 24=159 (LC 24), 25=160 (LC 1), 26=160 (LC 1), 27=162 (LC 24), 29=162 (LC 1), 30=166 (LC 20), 31=162 (LC 1), 33=162 (LC 23), 34=160 (LC 1), 35=160 (LC 1), 36=157 (LC 23), 37=175 (LC 1), 38=117 (LC 23), 39=262 (LC 23)				

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-8 to 3-6-0, Exterior(2N) 3-6-0 to 15-1-3, Corner(3R) 15-1-3 to 23-10-13, Exterior(2N) 23-10-13 to 34-4-3, Corner(3E) 34-4-3 to 38-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



June 11,2025

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	B2GE	Common Supported Gable	1	1	I74088645
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 2

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2, 26 lb uplift at joint 31, 54 lb uplift at joint 33, 47 lb uplift at joint 34, 46 lb uplift at joint 35, 46 lb uplift at joint 36, 51 lb uplift at joint 37, 37 lb uplift at joint 38, 75 lb uplift at joint 39, 20 lb uplift at joint 29, 56 lb uplift at joint 27, 47 lb uplift at joint 26, 46 lb uplift at joint 25, 47 lb uplift at joint 24, 48 lb uplift at joint 23, 37 lb uplift at joint 22 and 85 lb uplift at joint 21.

LOAD CASE(S) Standard



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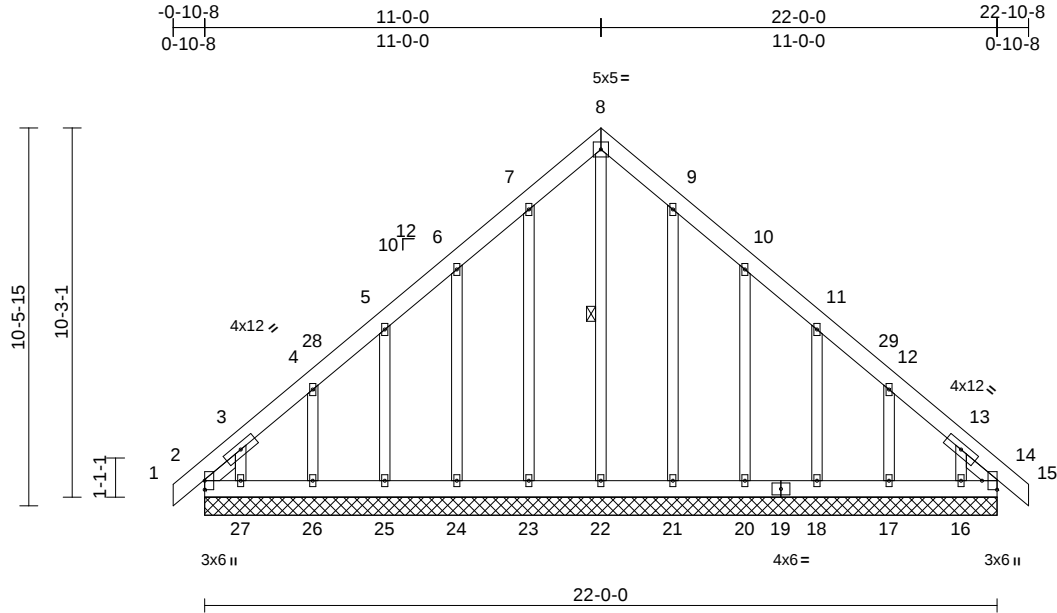
Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	C1GE	Common Supported Gable	1	1	174088646
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:52

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Scale = 1:64

Plate Offsets (X, Y): [14:Edge,0-5-0]

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	0.03	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	14	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 207 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 -- 1-1-9, Right 2x4 SP No.2 -- 1-1-9

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 1 Row at midpt 8-22
REACTIONS (size) 2=22-0-0, 14=22-0-0, 16=22-0-0, 17=22-0-0, 18=22-0-0, 20=22-0-0, 21=22-0-0, 22=22-0-0, 23=22-0-0, 24=22-0-0, 25=22-0-0, 26=22-0-0, 27=22-0-0

Max Horiz 2=264 (LC 9)
Max Uplift 2=-155 (LC 8), 14=-85 (LC 9), 16=-159 (LC 11), 17=-84 (LC 11), 18=-78 (LC 11), 20=-91 (LC 11), 21=-49 (LC 11), 23=-55 (LC 10), 24=-89 (LC 10), 25=-78 (LC 10), 26=-85 (LC 10), 27=-172 (LC 10)
Max Grav 2=270 (LC 7), 14=218 (LC 11), 16=165 (LC 18), 17=187 (LC 18), 18=180 (LC 18), 20=186 (LC 18), 21=175 (LC 18), 22=162 (LC 11), 23=183 (LC 17), 24=184 (LC 17), 25=180 (LC 17), 26=188 (LC 17), 27=184 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension

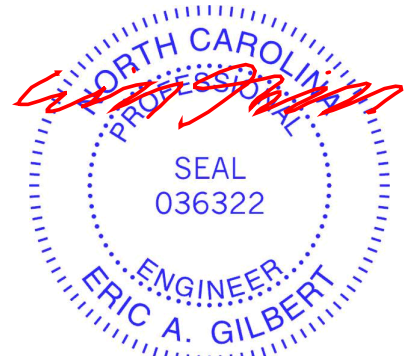
TOP CHORD 1-2=0/10, 2-3=-374/249, 3-4=-221/177, 4-5=-163/137, 5-6=-146/119, 6-7=-131/192, 7-8=-165/275, 8-9=-165/275, 9-10=-124/192, 10-11=-96/69, 11-12=-113/70, 12-13=-192/109, 13-14=-374/188, 14-15=0/10
BOT CHORD 2-27=-121/287, 26-27=-121/287, 25-26=-121/287, 24-25=-121/287, 23-24=-121/287, 22-23=-121/287, 21-22=-121/287, 20-21=-121/287, 18-20=-121/287, 17-18=-121/287, 16-17=-121/287, 14-16=-121/287
WEBS 8-22=-222/82, 7-23=-143/102, 6-24=-147/171, 5-25=-140/151, 4-26=-148/184, 3-27=-162/239, 9-21=-135/102, 10-20=-147/171, 11-18=-140/151, 12-17=-146/184, 13-16=-162/239

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 6-7-3, Corner(3R) 6-7-3 to 15-4-13, Exterior(2N) 15-4-13 to 18-5-11, Corner(3E) 18-5-11 to 22-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2, 55 lb uplift at joint 23, 89 lb uplift at joint 24, 78 lb uplift at joint 25, 85 lb uplift at joint 26, 172 lb uplift at joint 27, 49 lb uplift at joint 21, 91 lb uplift at joint 20, 78 lb uplift at joint 18, 84 lb uplift at joint 17, 159 lb uplift at joint 16 and 85 lb uplift at joint 14.

LOAD CASE(S) Standard



June 11,2025

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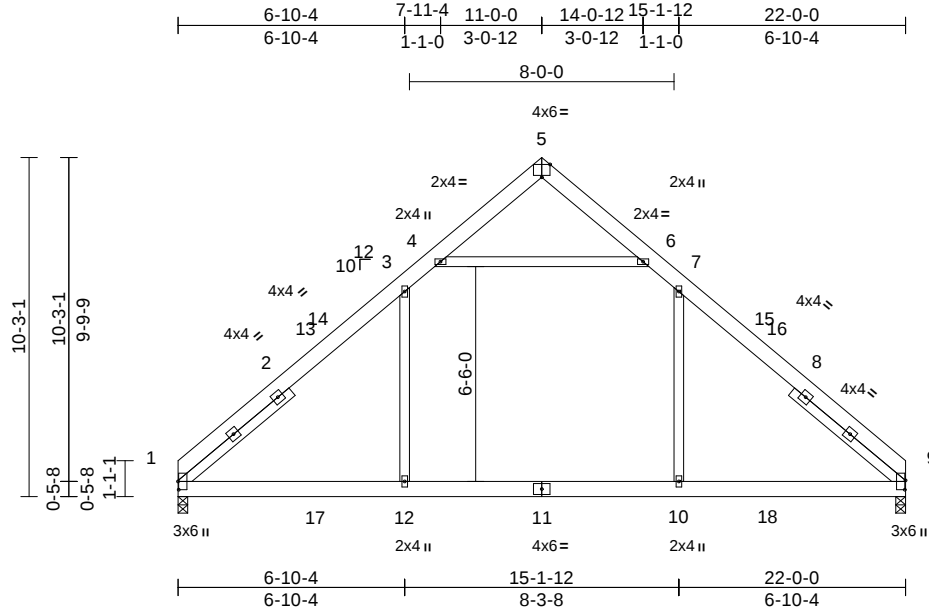
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	C2	HIP	6	1	174088647
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:52
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Page: 1



Scale = 1:69.7

Plate Offsets (X, Y): [1:0-3-0,0-0-4], [5:0-3-0,Edge], [9:0-3-6,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.11	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.13	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.14	1-12	>999	240	Weight: 160 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 4-4-10, Right 2x4 SP No.2 -- 4-4-10

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.

REACTIONS

(size)	1=0-3-8, 9=0-3-8
Max Horiz	1=-260 (LC 6)
Max Uplift	1=-92 (LC 10), 9=-92 (LC 11)
Max Grav	1=1176 (LC 17), 9=1176 (LC 18)

FORCES

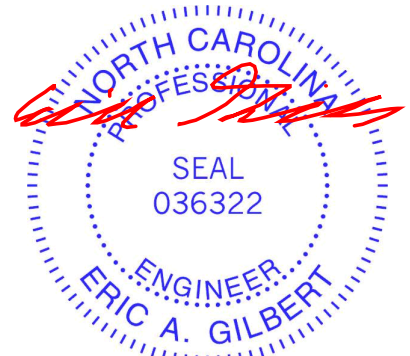
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-1490/331, 3-4=-916/381, 4-5=-146/52, 5-6=-146/52, 6-7=-916/381, 7-9=-1490/331
BOT CHORD	1-12=-90/1051, 10-12=-90/1051, 9-10=-90/1051
WEBS	3-12=-13/608, 7-10=-13/608, 4-6=-1003/474

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 4-4-13, Interior (1) 4-4-13 to 4-9-5, Exterior(2R) 4-9-5 to 17-2-11, Interior (1) 17-2-11 to 17-7-3, Exterior(2E) 17-7-3 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 1 and 92 lb uplift at joint 9.

LOAD CASE(S) Standard



June 11,2025

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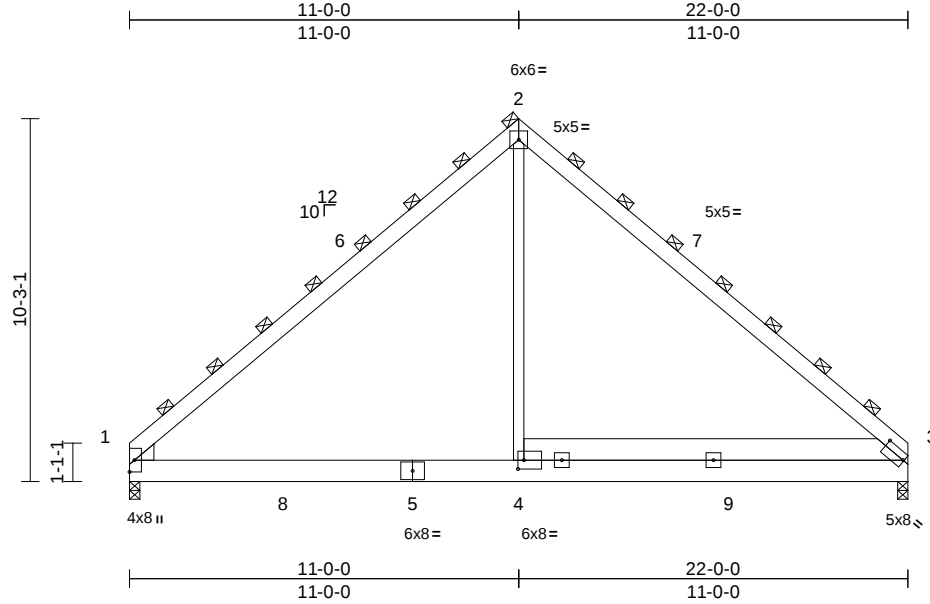
Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	
J0325-1599	C3	COMMON TRUSS	1	2	Job Reference (optional)	I74088648

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1

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Scale = 1:65.1

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

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.07	1-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.11	1-4	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	1-4	>999	240	Weight: 368 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP No.1
WEBS	2x4 SP No.2
WEDGE	Left: 2x6 SP No.1
SLIDER	Right 2x8 SP No.1 -- 10-8-10

BRACING

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size) 1=0-3-8, 3=0-3-8
	Max Horiz 1=-387 (LC 8)
	Max Uplift 1=-135 (LC 10), 3=-135 (LC 11)
	Max Grav 1=1717 (LC 17), 3=1613 (LC 18)

FORCES

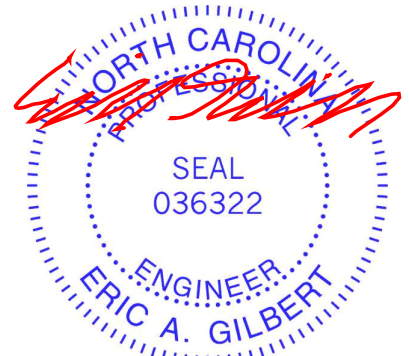
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-1941/451, 2-3=-1964/456
BOT CHORD	1-4=-16/1336, 3-4=-16/1336
WEBS	2-4=0/1431

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior (1) 4-6-9 to 6-7-3, Exterior(2R) 6-7-3 to 15-4-13, Interior (1) 15-4-13 to 17-5-7, Exterior(2E) 17-5-7 to 21-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 3 and 135 lb uplift at joint 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 11,2025

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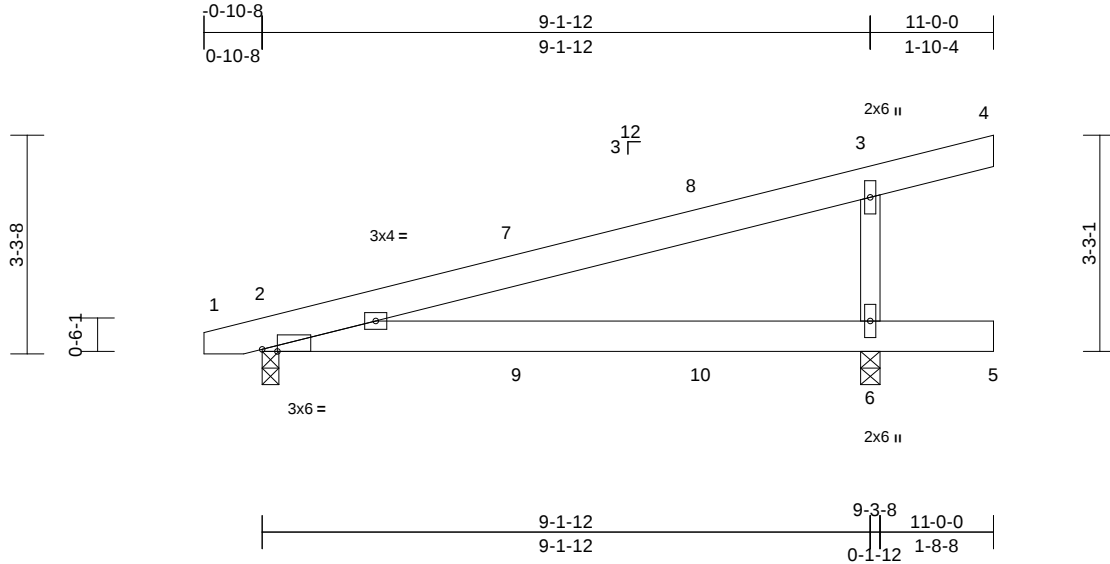
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	
J0325-1599	D1	MONOPITCH TRUSS	3	1	Job Reference (optional)	I74088649

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Scale = 1:34.7

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	0.43	Vert(LL)	0.27	2-6	>402	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.14	2-6	>755	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 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 9'-11'-1 oc
bracing.

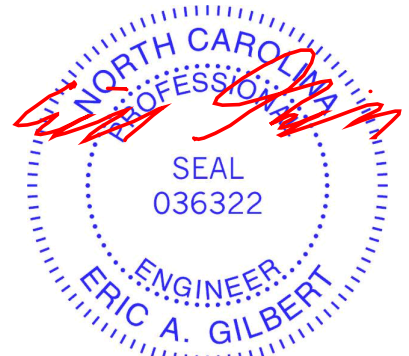
REACTIONS (size) 2=0-3-0, 6=0-3-8
Max Horiz 2=103 (LC 6)
Max Uplift 2=-191 (LC 6), 6=-204 (LC 6)
Max Grav 2=389 (LC 1), 6=523 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/6, 2-3=-148/53, 3-4=-27/0
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-377/477

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) -0-6-15 to 3-9-14, Interior (1) 3-9-14 to
6-7-3, Exterior(2E) 6-7-3 to 11-0-0 zone; porch left
exposed;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 40.0psf
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.
- 4) All bearings are assumed to be SP No.1 crushing
capacity of 565 psi.
- 5) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 191 lb uplift at
joint 2 and 204 lb uplift at joint 6.



June 11,2025

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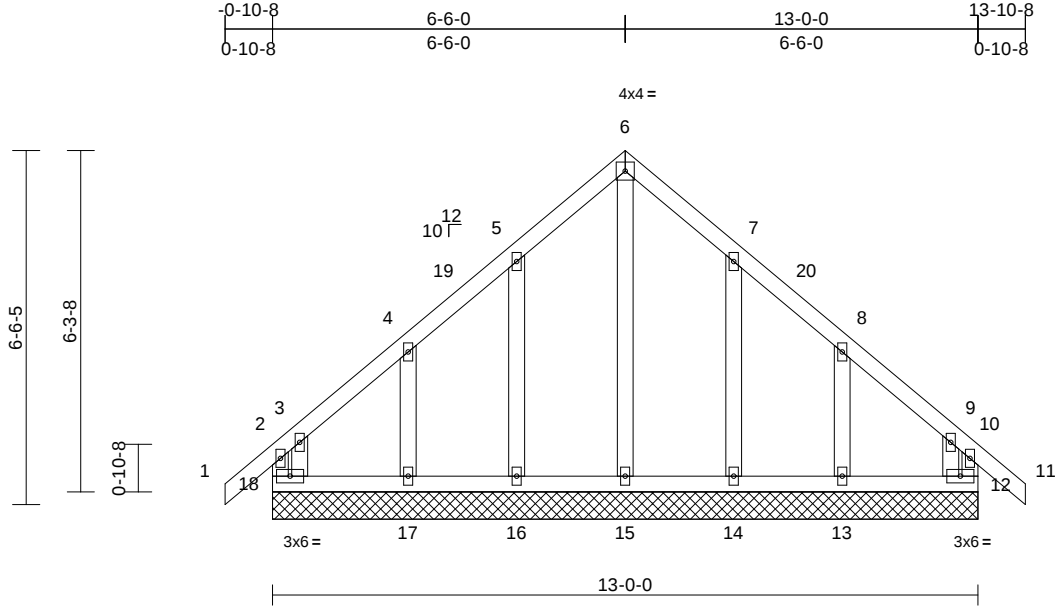
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	174088650
J0325-1599	E1GE	Common Supported Gable	1	1	Job Reference (optional)	

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 80 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	12=13-0-0, 13=13-0-0, 14=13-0-0, 15=13-0-0, 16=13-0-0, 17=13-0-0, 18=13-0-0
	Max Horiz	18=164 (LC 9)
	Max Uplift	12=-54 (LC 7), 13=-119 (LC 11), 14=-69 (LC 11), 16=-68 (LC 10), 17=-123 (LC 10), 18=-68 (LC 6)
	Max Grav	12=170 (LC 17), 13=216 (LC 18), 14=181 (LC 18), 15=185 (LC 20), 16=180 (LC 17), 17=222 (LC 17), 18=182 (LC 18)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-18=-107/235, 1-2=0/39, 2-3=-12/34, 3-4=-114/109, 4-5=-135/233, 5-6=-202/373, 6-7=-202/373, 7-8=-135/233, 8-9=-95/92, 9-10=-10/33, 10-11=0/39, 10-12=-100/235
BOT CHORD	17-18=-71/144, 16-17=-71/144, 15-16=-71/144, 14-15=-71/144, 13-14=-71/144, 12-13=-71/144
WEBS	6-15=-356/138, 5-16=-145/194, 4-17=-174/277, 3-18=-156/86, 7-14=-146/194, 8-13=-174/277, 9-12=-140/68

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-8 to 3-6-5, Corner(3R) 3-6-5 to 9-5-11, Corner(3E) 9-5-11 to 13-10-8 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 18, 54 lb uplift at joint 12, 68 lb uplift at joint 16, 123 lb uplift at joint 17, 69 lb uplift at joint 14 and 119 lb uplift at joint 13.

LOAD CASE(S) Standard



June 11, 2025

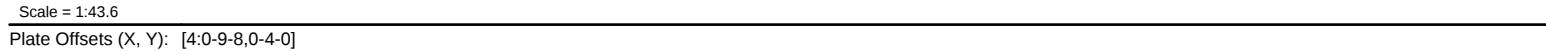
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LUMBER		5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x6 SP No.1	6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BOT CHORD	2x12 SP 2400F 2.0E	7) All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
WEBS	2x4 SP No.2	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 611 lb uplift at joint 1 and 718 lb uplift at joint 3.
BRACING		9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1913 lb down and 204 lb up at 2-0-12, 1913 lb down and 204 lb up at 4-0-12, 1913 lb down and 204 lb up at 6-0-12, 1913 lb down and 204 lb up at 8-0-12, and 1913 lb down and 204 lb up at 10-0-12, and 1915 lb down and 203 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 1=0-3-8, 3=0-3-8 Max Horiz 1=148 (LC 7) Max Uplift 1=-611 (LC 8), 3=-718 (LC 9) Max Grav 1=5676 (LC 2), 3=6694 (LC 2)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-5703/660, 2-3=-5702/660	
BOT CHORD	1-4=-427/4279, 3-4=-427/4279	
WEBS	2-4=-689/7017	

- 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: 2x12 - 2 rows staggered at 0-3-0 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.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

LOAD CASE(S) Standard

 - 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 1-3=-20
Concentrated Loads (lb)
Vert: 5=-1521 (F), 6=-1521 (F), 7=-1521 (F), 8=-1521 (F), 9=-1521 (F), 10=-1523 (F)

responsibility of others.





June 11, 2025

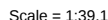
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Bakersfield, CA 93309

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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=11-3-9, 5=11-3-9, 6=11-3-9, 7=11-3-9, 8=11-3-9
Max Horiz 1=117 (LC 7)
Max Uplift 1=-78 (LC 8), 5=-56 (LC 9), 6=-158 (LC 11), 8=-158 (LC 10)
Max Grav 1=93 (LC 7), 5=74 (LC 11), 6=340 (LC 18), 7=241 (LC 1), 8=340 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-136/113, 2-3=-148/128, 3-4=-136/128, 4-5=-121/80
BOT CHORD 1-8=-35/72, 7-8=-35/72, 6-7=-35/72, 5-6=-35/72
WEBS 3-7=-155/34, 2-8=-302/325, 4-6=-302/325

- 5) Gable studs spaced at 0-0-0 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 40.0psf 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 1, 56 lb uplift at joint 5, 158 lb uplift at joint 8 and 158 lb uplift at joint 6.

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; TCDF=6.0psf; BCDF=5.0psf; h=25ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C
Exterior(2E) 0-4-13 to 4-9-10, Exterior(2R) 4-9-10 to
6-5-15, Exterior(2E) 6-5-15 to 10-10-11 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) Gable requires continuous bottom chord bearing.



June 11.2025

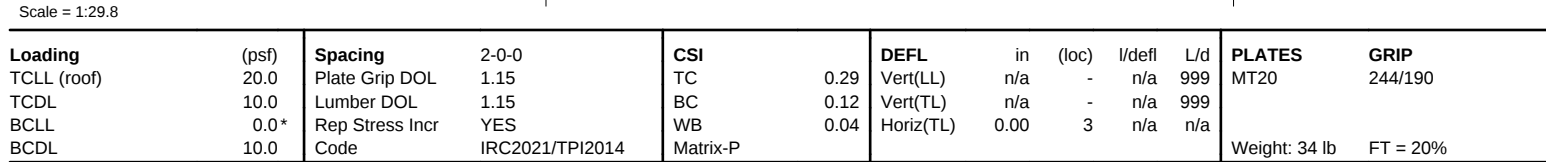


Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road
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Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:53 Page: 1
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?i



- 7) * This truss has been designed for a live load of 40.0psf 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) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1 and 48 lb uplift at joint 3.

LOAD CASE(S) Standard

LOAD CASE(S) Standard

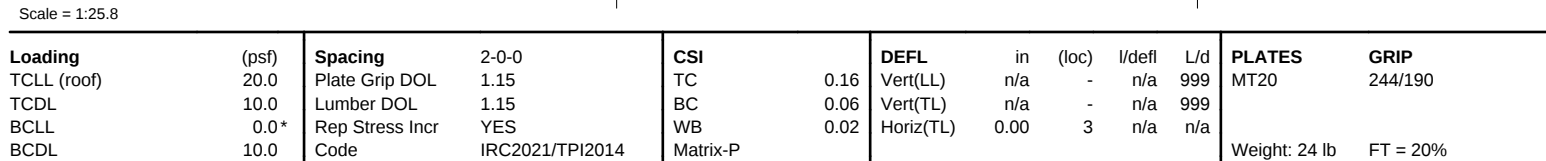
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hg3NSgPqnL8w3uITXbGKWRCdoi7J4zJC?f



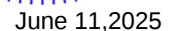
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1 and 34 lb uplift at joint 3.

LOAD CASE(S) Standard

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; 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
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2'-0" oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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.sbccomponents.com)

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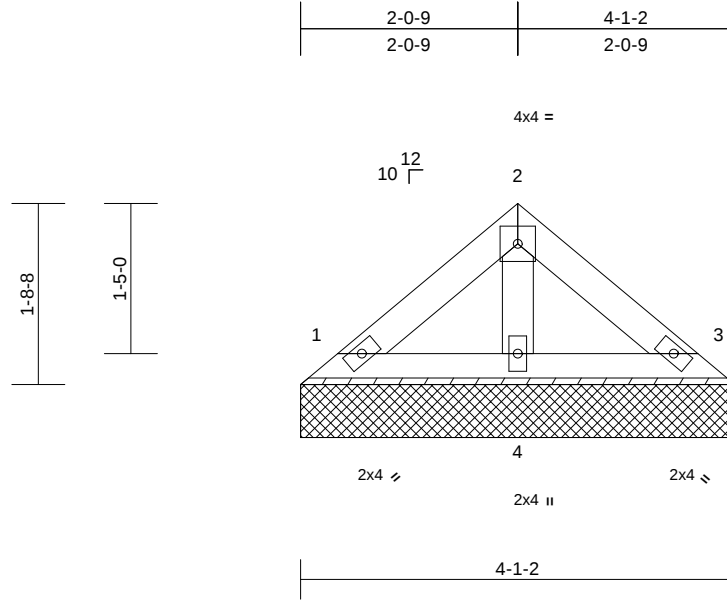
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	VE4	Valley	1	1	Job Reference (optional)
					I74088655

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:53
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Page: 1



Scale = 1:21.7

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

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-1-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=4-1-2, 3=4-1-2, 4=4-1-2
Max Horiz	1=-37 (LC 6)
Max Uplift	1=-16 (LC 11), 3=-20 (LC 11)
Max Grav	1=76 (LC 1), 3=76 (LC 1), 4=111 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

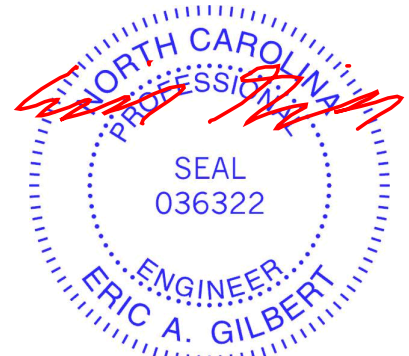
TOP CHORD	1-2=-54/49, 2-3=-48/49
BOT CHORD	1-4=-9/25, 3-4=-9/25
WEBS	2-4=-70/63

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=5.0psf; h=25ft; 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 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 40.0psf 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.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 20 lb uplift at joint 3.

LOAD CASE(S) Standard



June 11,2025

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

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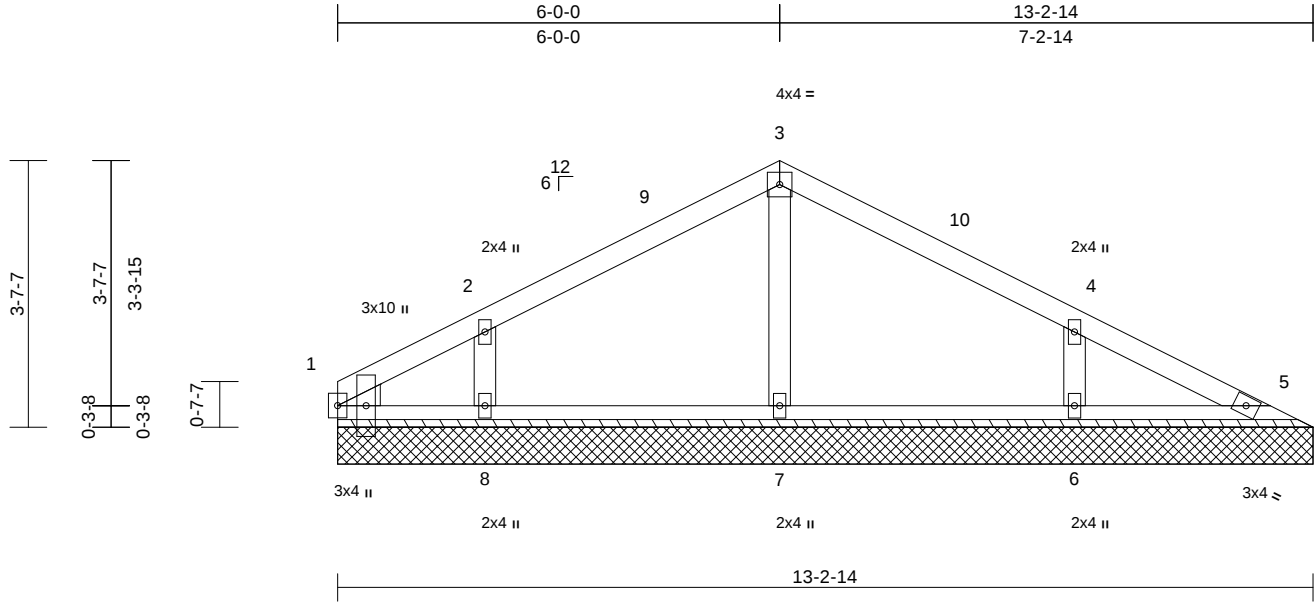
Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing
J0325-1599	VW1	Valley	1	1	174088656
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:53

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Scale = 1:31.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
OTHERS	2x4 SP No.2
WEDGE	Left: 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=13-2-14, 5=13-2-14, 7=13-2-14, 8=13-2-14
	Max Horiz	1=-48 (LC 8)
	Max Uplift	1=-10 (LC 11), 6=-98 (LC 11), 8=-102 (LC 10)
	Max Grav	1=57 (LC 18), 5=80 (LC 1), 6=316 (LC 24), 7=281 (LC 1), 8=295 (LC 23)

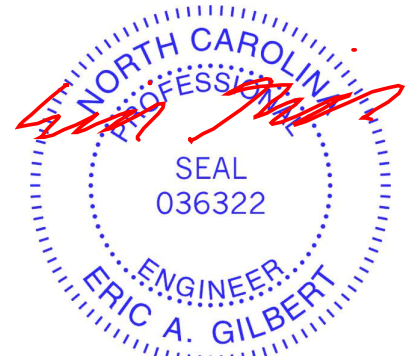
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-63/43, 2-3=-88/137, 3-4=-89/136, 4-5=-51/29
BOT CHORD	1-8=-6/48, 7-8=-6/48, 6-7=-6/48, 5-6=-6/48
WEBS	3-7=-197/121, 2-8=-229/275, 4-6=-243/287

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-0-1 to 4-4-12, Exterior(2R) 4-4-12 to 8-2-10, Exterior(2E) 8-2-10 to 12-7-7 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.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 0-0-0 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 40.0psf 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.
 - All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 102 lb uplift at joint 8 and 98 lb uplift at joint 6.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- LOAD CASE(S)** Standard



June 11, 2025

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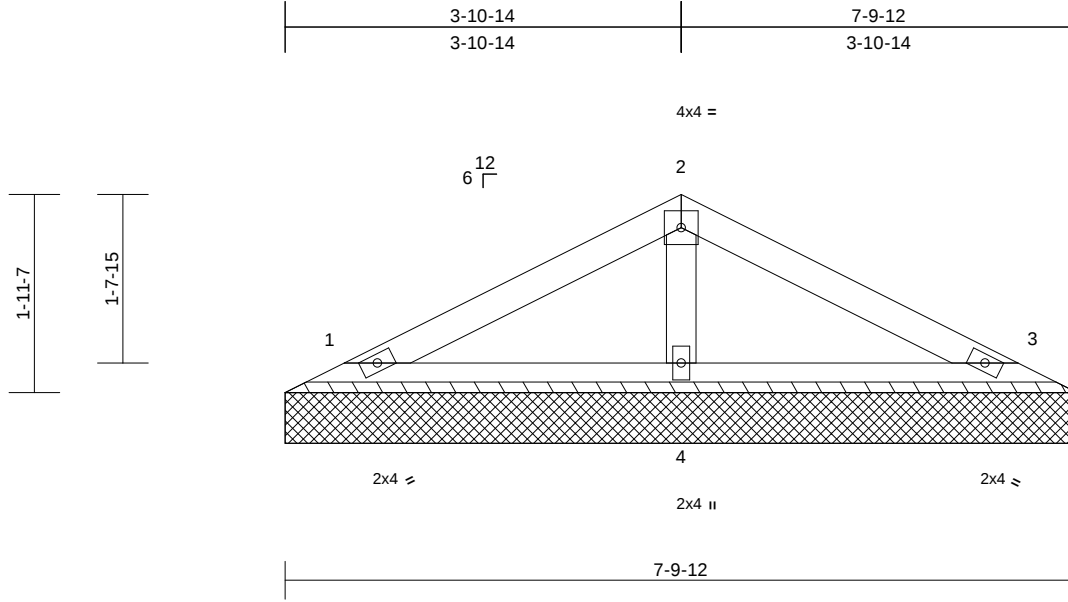
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	
J0325-1599	VW2	Valley	1	1	Job Reference (optional)	I74088657

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:53
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Page: 1



Scale = 1:22.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P						Weight: 25 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=7-9-12, 3=7-9-12, 4=7-9-12
Max Horiz	1=24 (LC 7)
Max Uplift	1=-30 (LC 10), 3=-35 (LC 11), 4=-6 (LC 10)
Max Grav	1=134 (LC 1), 3=134 (LC 1), 4=258 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

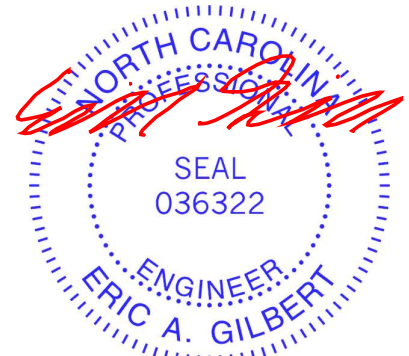
TOP CHORD	1-2=-59/62, 2-3=-59/62
BOT CHORD	1-4=0/24, 3-4=0/24
WEBS	2-4=-176/178

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=5.0psf; h=25ft; 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 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 40.0psf 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.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 35 lb uplift at joint 3 and 6 lb uplift at joint 4.

LOAD CASE(S) Standard



June 11,2025

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

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

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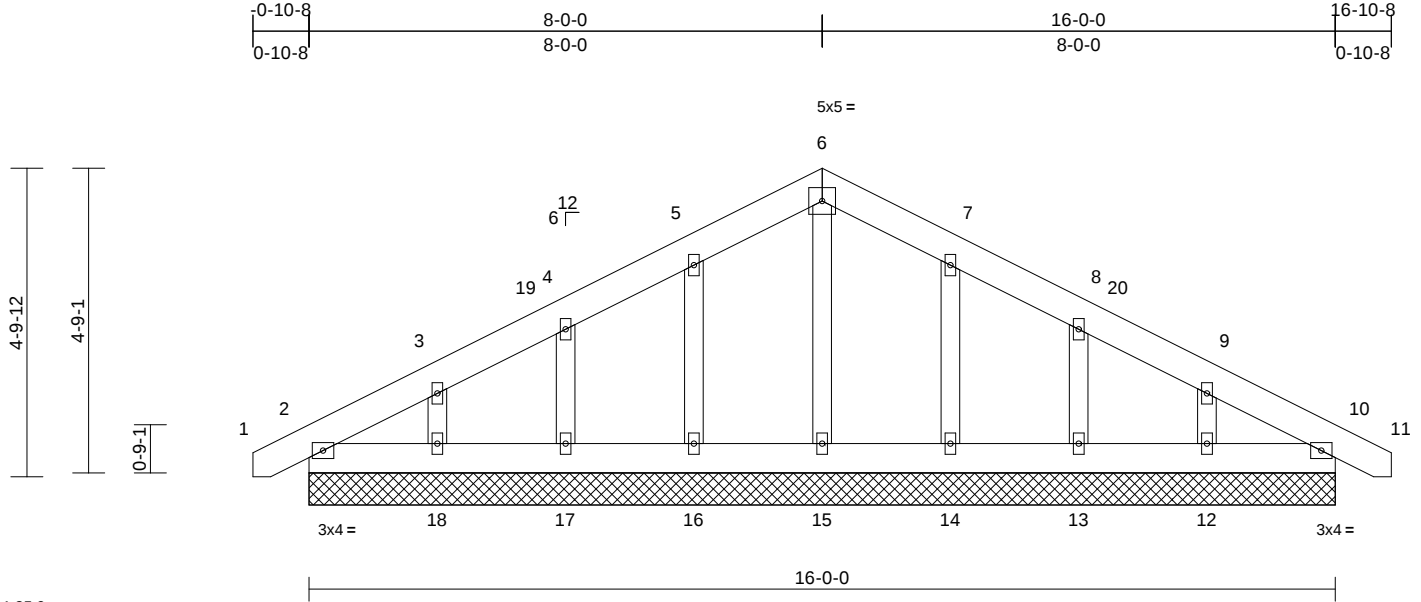
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	174088658
J0325-1599	W1	Common Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:53
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Page: 1



Scale = 1:35.9

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	0.03	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
										Weight: 107 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=16-0-0, 10=16-0-0, 12=16-0-0, 13=16-0-0, 14=16-0-0, 15=16-0-0, 16=16-0-0, 17=16-0-0, 18=16-0-0
Max Horiz 2=98 (LC 10)
Max Uplift 2=-31 (LC 11), 10=-16 (LC 11), 12=-102 (LC 11), 13=-89 (LC 11), 14=-81 (LC 11), 16=-84 (LC 10), 17=-88 (LC 10), 18=-106 (LC 10)
Max Grav 2=130 (LC 1), 10=130 (LC 1), 12=166 (LC 24), 13=158 (LC 24), 14=166 (LC 24), 15=135 (LC 20), 16=166 (LC 23), 17=158 (LC 23), 18=166 (LC 23)

FORCES

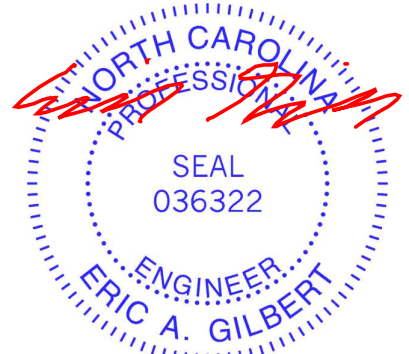
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/6, 2-3=-111/53, 3-4=-68/74, 4-5=-51/135, 5-6=-74/207, 6-7=-74/207, 7-8=-51/135, 8-9=-49/51, 9-10=-81/23, 10-11=0/6
BOT CHORD 2-18=-20/116, 17-18=-20/116, 16-17=-20/116, 15-16=-20/116, 14-15=-20/116, 13-14=-20/116, 12-13=-20/116, 10-12=-20/116
WEBS 6-15=-95/0, 5-16=-126/136, 4-17=-120/165, 3-18=-120/196, 7-14=-126/136, 8-13=-120/165, 9-12=-120/196

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-14 to 3-7-15, Corner(3R) 3-7-15 to 12-4-1, Corner(3E) 12-4-1 to 16-8-14 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf 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.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 16 lb uplift at joint 10, 84 lb uplift at joint 16, 88 lb uplift at joint 17, 106 lb uplift at joint 18, 81 lb uplift at joint 14, 89 lb uplift at joint 13 and 102 lb uplift at joint 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.

LOAD CASE(S) Standard



June 11, 2025

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

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

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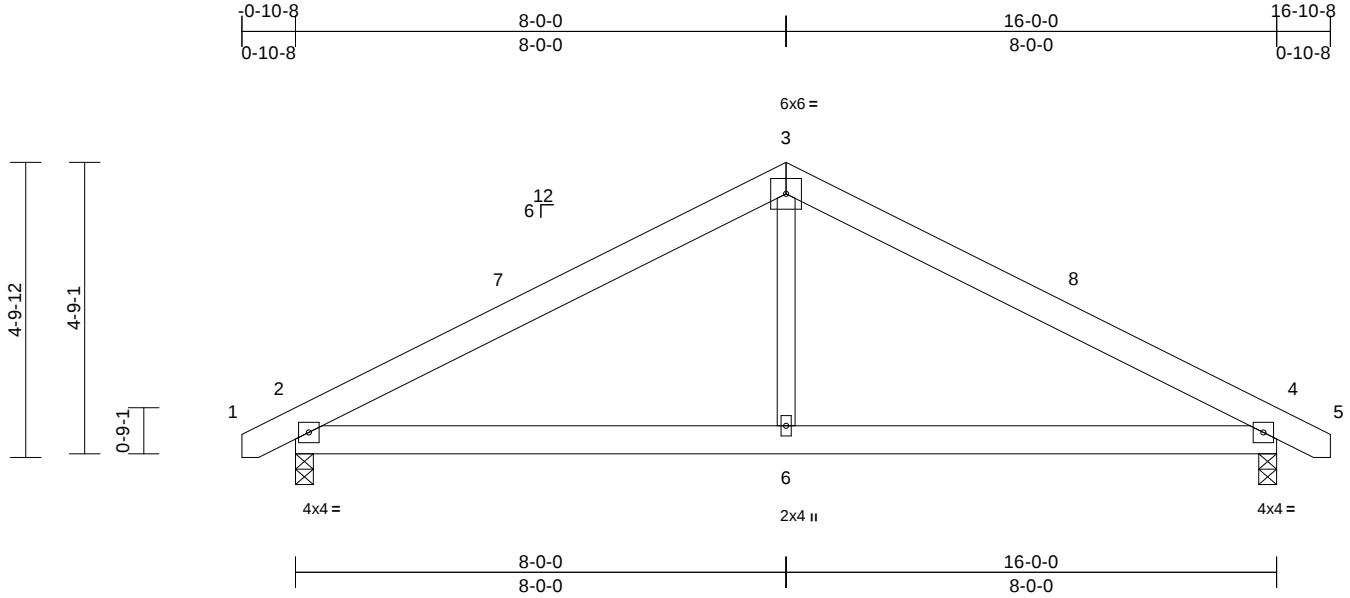
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 103 Ducks Landing	174088659
J0325-1599	W2	Common	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jun 10 07:25:53
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Page: 1



Scale = 1:37.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	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: 90 lb	FT = 20%

LUMBER

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 93 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=63 (LC 9)
Max Uplift 2=93 (LC 10), 4=93 (LC 11)
Max Grav 2=681 (LC 1), 4=681 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

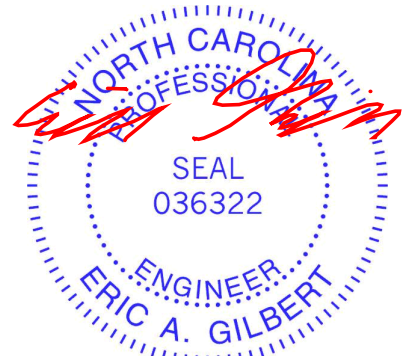
TOP CHORD 1-2=0/6, 2-3=-867/455, 3-4=-867/455, 4-5=0/6

BOT CHORD 2-6=-238/667, 4-6=-238/667

WEBS 3-6=0/381

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=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-14 to 3-7-15, Exterior(2R) 3-7-15 to 12-4-1, Exterior(2E) 12-4-1 to 16-8-14 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 40.0psf 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.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.



June 11,2025

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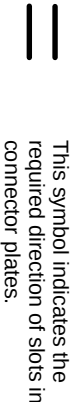
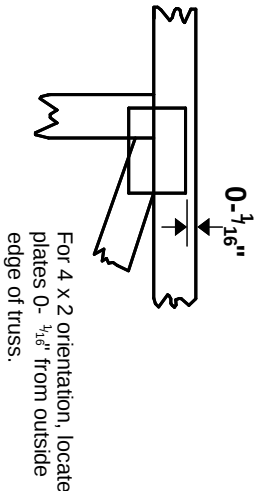
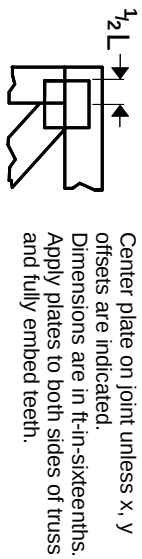
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Symbols

PLATE LOCATION AND ORIENTATION



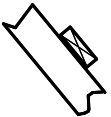
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

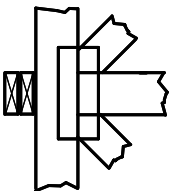
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

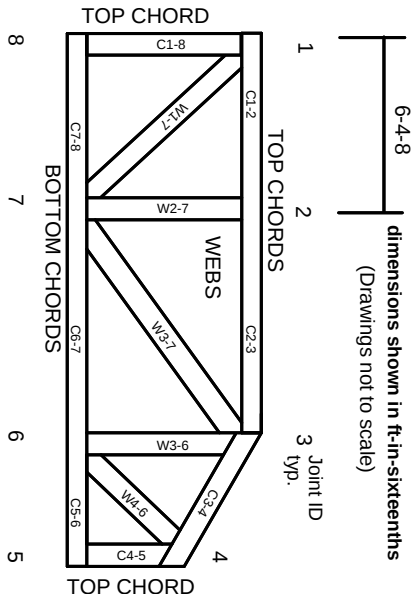
BEARING



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

Industry Standards:
ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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