

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0325-1577
Lot 74 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: 173479963 thru 173479980

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

North Carolina COA: C-0844

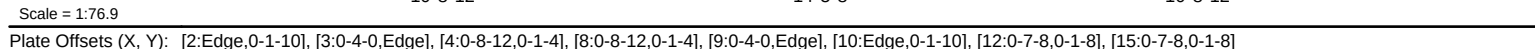


May 15, 2025

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. Wed May 14 09:51:49 Page: 1
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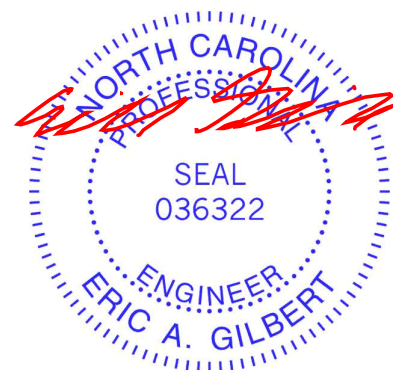
LUMBER 4) Gable studs spaced at 2'-0" oc.

BRACING			7) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-15
TOP CHORD	Structural wood sheathing directly applied.		8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-15
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		9) All bearings are assumed to be SP No.1 crushing
WEBS	2 Rows at 1/3 pts	5-7	

FORCES	(lb) - Maximum Compression/Maximum Tension	bearing plate capable of withstanding 37 lb uplift at joint 2 and 57 lb uplift at joint 10. 12) Attic room checked for L/360 deflection.
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NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft;
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-15 to 3-7-14, Exterior (2N) 3-7-14 to 18-0-0, Corner(3R) 18-0-0 to 22-8-5, Exterior(2N) 22-8-5 to 36-8-15 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/TPJ 1.



May 15, 2025

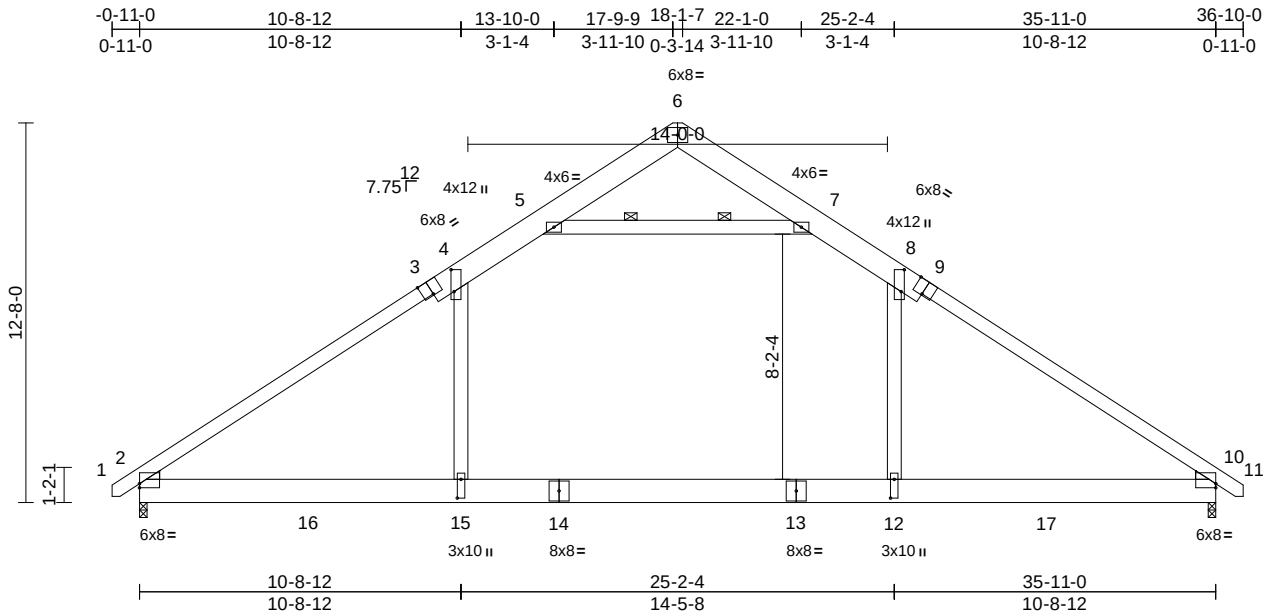
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 DS8-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliat

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	A2	Attic	7	1	173479964
Job Reference (optional)					



Scale = 1:76.9

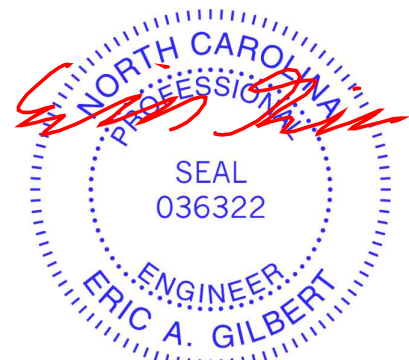
Plate Offsets (X, Y): [2:Edge,0-1-10], [3:0-4-0,Edge], [4:0-8-12,0-1-4], [8:0-8-12,0-1-4], [9:0-4-0,Edge], [10:Edge,0-1-10], [12:0-7-8,0-1-8], [15:0-7-8,0-1-8]

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)	-0.32	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.54	12-15	>791	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.23	2-15	>999	240	Weight: 331 lb	FT = 20%

LUMBER		
TOP CHORD	2x10 SP No.1 *Except* 1-3,9-11:2x6 SP No.1	
BOT CHORD	2x10 SP No.1 *Except* 14-13:2x10 SP 2400F 2.0E	
WEBS	2x6 SP No.1	
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	2 Rows at 1/3 pts 5-7	
REACTIONS (size) 2=0-3-0, 10=0-3-0		
	Max Horiz 2=285 (LC 9)	
	Max Grav 2=2410 (LC 20), 10=2410 (LC 21)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/0, 2-4=-3621/0, 4-5=-2612/142, 5-6=0/770, 6-7=0/770, 7-8=-2611/142, 8-10=-3621/0, 10-11=0/0	
BOT CHORD	2-15=0/2835, 12-15=0/2835, 10-12=0/2835	
WEBS	8-12=0/1320, 4-15=0/1320, 5-7=-3635/186	

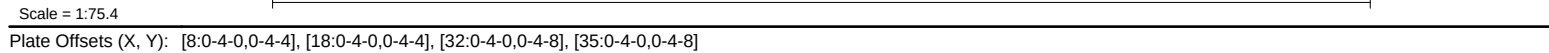
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-15 to 3-7-14, Interior (1) 3-7-14 to 18-0-0, Exterior(2R) 18-0-0 to 22-8-5, Interior (1) 22-8-5 to 36-8-15 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 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, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).8-12, 4-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-15
 - All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



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Comtech, Inc, Fayetteville, NC - 28314, Run: 8.630 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 14 09:51:50 Page: 1
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Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	B1	Common Supported Gable	1	1	I73479965
					Job Reference (optional)

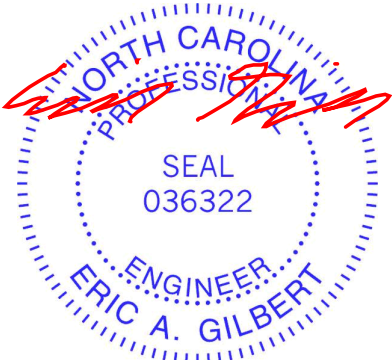
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Page: 2

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2, 48 lb uplift at joint 24, 45 lb uplift at joint 35, 97 lb uplift at joint 36, 86 lb uplift at joint 37, 84 lb uplift at joint 38, 84 lb uplift at joint 39, 87 lb uplift at joint 40, 70 lb uplift at joint 41, 227 lb uplift at joint 42, 31 lb uplift at joint 33, 101 lb uplift at joint 32, 87 lb uplift at joint 31, 84 lb uplift at joint 30, 84 lb uplift at joint 29, 86 lb uplift at joint 28, 73 lb uplift at joint 27 and 199 lb uplift at joint 26.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



May 15,2025

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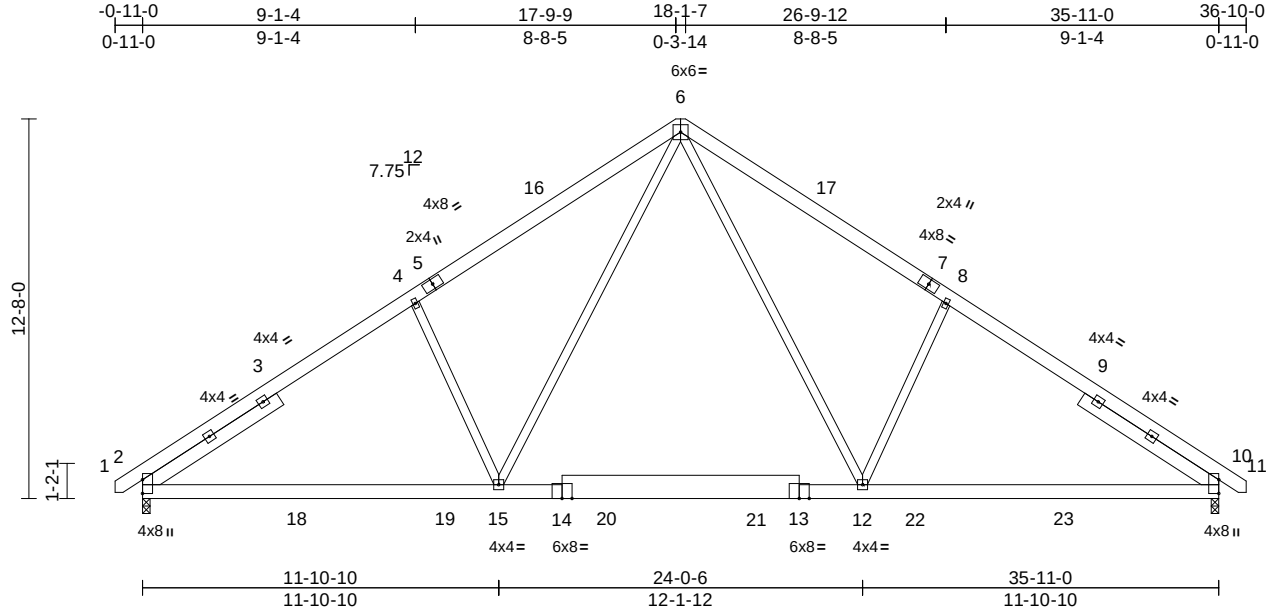
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing	173479966
J0325-1577	B2	Common	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:76.9

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	0.39	Vert(LL)	-0.18	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.29	2-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	2-15	>999	240	Weight: 287 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except* 14-13:2x10 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -- 5-4-15, Right 2x6 SP No.1 -- 5-4-15

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 10=0-3-0
Max Horiz 2=-294 (LC 8)
Max Grav 2=1882 (LC 20), 10=1883 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-10/0, 2-4=-2506/236, 4-6=-2344/346, 6-8=-2345/345, 8-10=-2507/235, 10-11=-10/0
BOT CHORD 2-15=-74/2157, 12-15=0/1454, 10-12=-59/1953
WEBS 4-15=-441/351, 6-15=-75/1182, 6-12=-73/1184, 8-12=-441/351

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) -0-8-15 to 3-7-14, Interior (1) 3-7-14 to 18-0-0, Exterior(2R) 18-0-0 to 22-4-13, Interior (1) 22-4-13 to 36-8-15 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, 18-0-0 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 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



May 15, 2025

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A MiTek Affiliate

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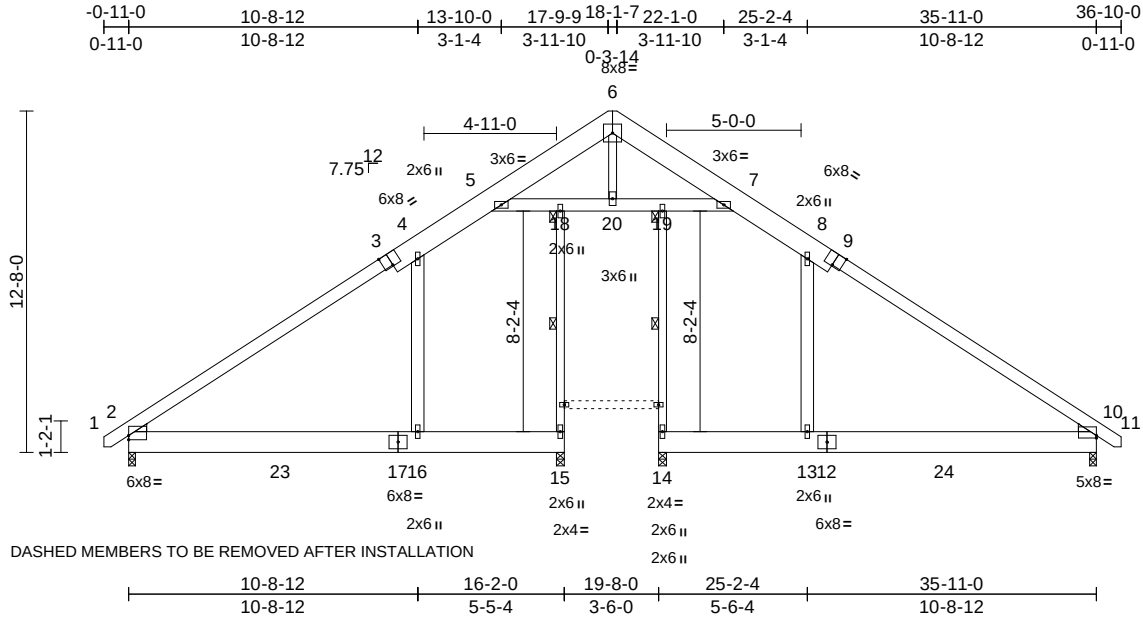
Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	B3	Attic	5	1	173479967
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 14 09:51:50

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Scale = 1:85.5

Plate Offsets (X, Y): [2:Edge,0-1-14], [3:0-4-0,Edge], [9:0-4-0,Edge], [10:Edge,0-1-2]

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	0.88	Vert(LL)	-0.22	2-16	>870	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.35	2-16	>544	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.16	14	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.15	2-16	>999	240	Weight: 351 lb	FT = 20%

LUMBER

TOP CHORD	2x10 SP No.1 *Except* 1-3,9-11:2x6 SP No.1
BOT CHORD	2x10 SP No.1
WEBS	2x6 SP No.1 *Except* 15-18,14-19:2x4 SP No.1, 6-20:2x4 SP No.2
OTHERS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 15-18, 14-19
JOINTS	1 Brace at Jt(s): 18, 19

REACTIONS	(size) 2=0-3-0, 10=0-3-0, 14=0-3-8, 15=0-3-8
	Max Horiz 2=-286 (LC 8)
	Max Uplift 2=-99 (LC 13), 10=-138 (LC 13)
	Max Grav 2=619 (LC 21), 10=672 (LC 21), 14=1844 (LC 21), 15=2035 (LC 20)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/0, 2-4=-401/364, 4-5=-66/652, 5-6=0/2239, 6-7=0/2226, 7-8=0/581, 8-10=-225/223, 10-11=0/0
BOT CHORD	2-16=0/0, 15-16=0/0, 13-14=0/0, 10-13=0/0
WEBS	4-16=-13/584, 8-13=0/560, 5-18=-2042/392, 18-20=-2034/392, 19-20=-2034/392, 7-19=-2046/392, 15-18=-1557/0, 14-19=-1424/0, 6-20=-1810/0

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) -0-8-15 to 3-7-14, Interior (1) 3-7-14 to 18-0-0, Exterior(2R) 18-0-0 to 22-8-5, Interior (1) 22-8-5 to 36-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-18, 18-20, 19-20, 7-19; Wall dead load (5.0psf) on member(s).4-16, 8-13, 15-18, 14-19
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16, 13-14
- 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 99 lb uplift at joint 2 and 138 lb uplift at joint 10.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



May 15,2025

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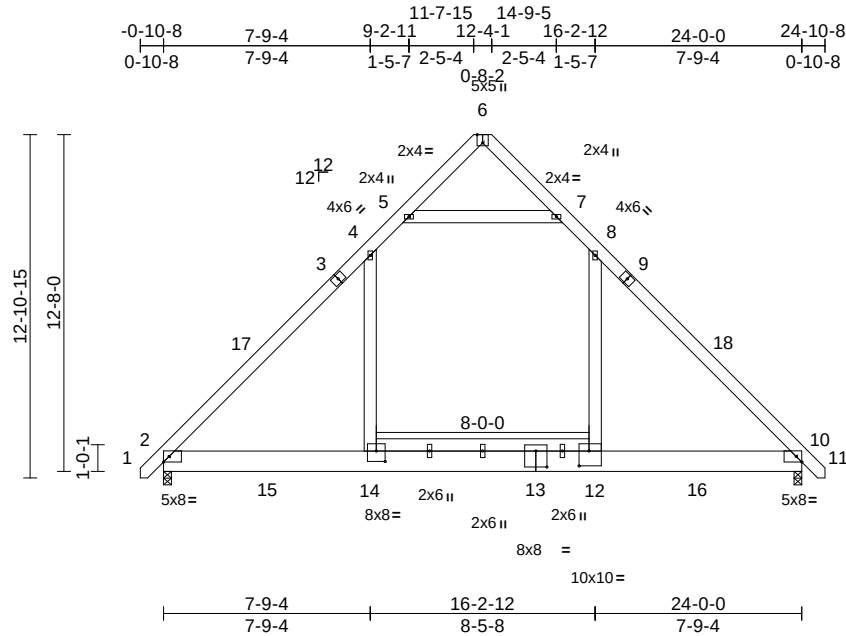
Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	C1	ATTIC	1	1	173479968
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Thu May 15 14:26:15

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Scale = 1:86.7

Plate Offsets (X, Y): [6:0-3-11,Edge], [10:0-2-8,Edge], [12:0-4-8,0-6-12], [13:0-5-0,0-7-4], [14:0-4-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.08	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.14	12-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.10	2-14	>999	240	Weight: 248 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=1251/0-3-8, 10=1251/0-3-8
Max Horiz 2=-377 (LC 10)
Max Grav 2=1571 (LC 20), 10=1571 (LC 21)

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

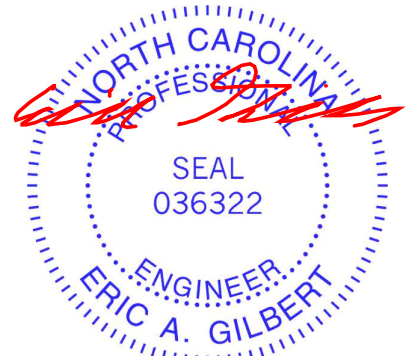
TOP CHORD 2-17=-1962/28, 3-17=-1751/33,
3-4=-1713/66, 4-5=-1040/209,
7-8=-1040/209, 8-9=-1712/66,
9-18=-1751/32, 10-18=-1962/28
BOT CHORD 2-15=0/1263, 14-15=0/1263, 13-14=0/1263,
12-13=0/1263, 12-16=0/1263, 10-16=0/1263
WEBS 5-7=-1357/370, 4-14=-32/831, 8-12=-31/912

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-14 to 3-7-15, Exterior (2N) 3-7-15 to 12-0-0, Corner(3R) 12-0-0 to 16-2-12, Exterior(2N) 16-2-12 to 24-8-14 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) N/A

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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, with BCDL = 10.0psf.
- 7) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 4-14, 8-12
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 9) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



May 15, 2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	C2	ATTIC	3	1	Job Reference (optional)

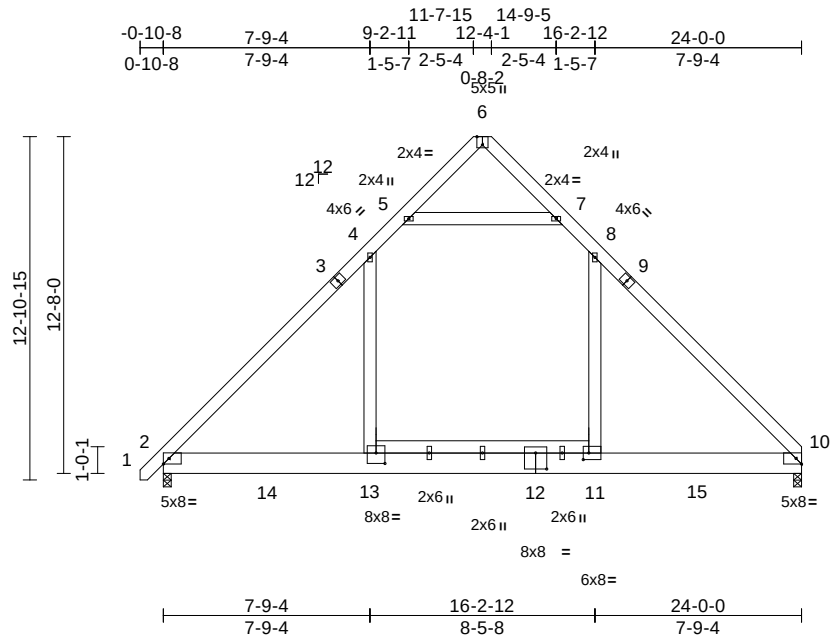
I73479969

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Thu May 15 14:28:08

Page: 1

ID:eo_4ms57ZKhsIxK1jvAQdyiOuh-7FEUjIMx1kTHZgcpjtlZnbnBnmZwdhh?Dv9tdDzGOTr



Scale = 1:86.7

Plate Offsets (X, Y): [6:0-3-11,Edge], [10:0-2-8,Edge], [11:0-2-8,0-3-0], [12:0-5-0,0-7-4], [13:0-4-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.08	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.14	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.07	2-13	>999	240	Weight: 245 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 or 5-1-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

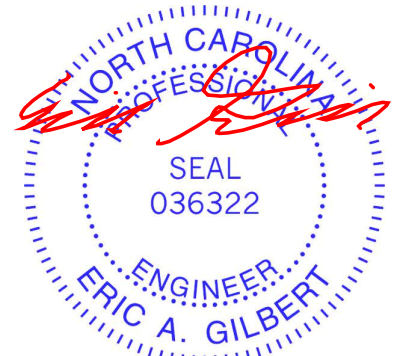
REACTIONS (lb/size) 2=1252/0-3-8, 10=1197/0-3-8
 Max Horiz 2=298 (LC 9)
 Max Grav 2=1577 (LC 20), 10=1530 (LC 20)

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

TOP CHORD 2-3=-1948/0, 3-4=-1698/0, 4-5=-1038/143, 7-8=-1045/151, 8-9=-1683/0, 9-10=-1932/0
 BOT CHORD 2-14=0/1233, 13-14=0/1233, 12-13=0/1233, 11-12=0/1233, 11-15=0/1233, 10-15=0/1233
 WEBS 5-7=-1380/249, 4-13=0/815, 8-11=0/787

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) -0-8-14 to 3-7-15, Interior (1) 3-7-15 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-12, Interior (1) 16-2-12 to 23-10-4 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 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, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s). 4-13, 8-11



May 15, 2025

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

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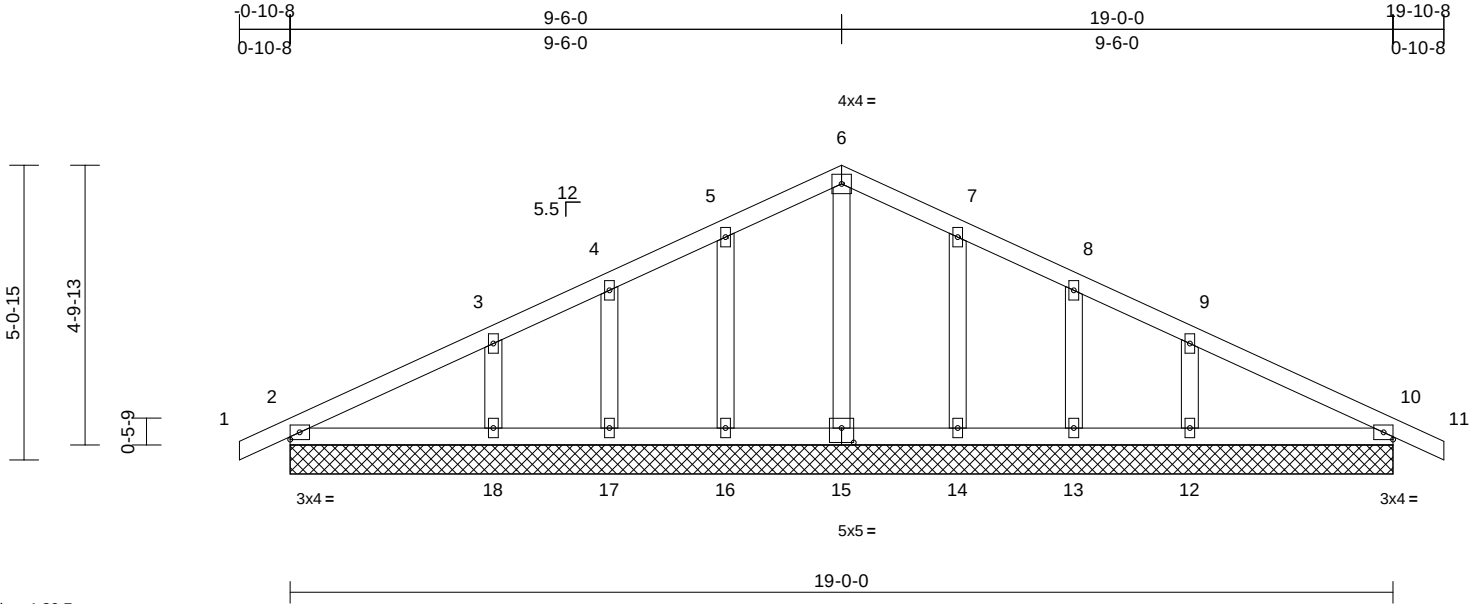
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	G1	Common Supported Gable	1	1	173479970
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. Wed May 14 09:51:51
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Page: 1



Scale = 1:39.7

Plate Offsets (X, Y): [15:0-2-8,0-3-0]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							
Weight: 91 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)	2=19-0-0, 10=19-0-0, 12=19-0-0, 13=19-0-0, 14=19-0-0, 15=19-0-0, 16=19-0-0, 17=19-0-0, 18=19-0-0
Max Horiz	2=-57 (LC 13)
Max Uplift	2=-14 (LC 8), 10=-12 (LC 13), 12=-55 (LC 13), 13=-23 (LC 13), 14=-34 (LC 13), 16=-35 (LC 12), 17=-22 (LC 12), 18=-56 (LC 12)
Max Grav	2=181 (LC 1), 10=181 (LC 1), 12=272 (LC 26), 13=115 (LC 1), 14=180 (LC 26), 15=135 (LC 1), 16=180 (LC 25), 17=115 (LC 1), 18=272 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/14, 2-3=-78/56, 3-4=-46/87, 4-5=-47/133, 5-6=-68/192, 6-7=-68/193, 7-8=-47/132, 8-9=-46/92, 9-10=-60/42, 10-11=0/14
BOT CHORD	2-18=-23/110, 17-18=-23/110, 16-17=-23/110, 14-16=-23/110, 13-14=-23/110, 12-13=-23/110, 10-12=-23/110
WEBS	6-15=-97/0, 5-16=-135/121, 4-17=-91/86, 3-18=-194/229, 7-14=-135/120, 8-13=-91/86, 9-12=-194/228

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-8 to 3-6-0, Exterior(2N) 3-6-0 to 9-6-0, Corner(3R) 9-6-0 to 13-10-13, Exterior(2N) 13-10-13 to 19-10-8 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 14 lb uplift at joint 2, 35 lb uplift at joint 16, 22 lb uplift at joint 17, 56 lb uplift at joint 18, 34 lb uplift at joint 14, 23 lb uplift at joint 13, 55 lb uplift at joint 12 and 12 lb uplift at joint 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

LOAD CASE(S) Standard



May 15,2025

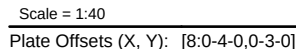
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 14 09:51:51 Page: 1
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LUMBER		6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2 and 60 lb uplift at joint 6.
TOP CHORD	2x4 SP No.1	LOAD CASE(S) Standard
BOT CHORD	2x4 SP No.1	
WEBS	2x4 SP No.2	

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2 and 60 lb uplift at joint 6.

LOAD CASE(S) Standard

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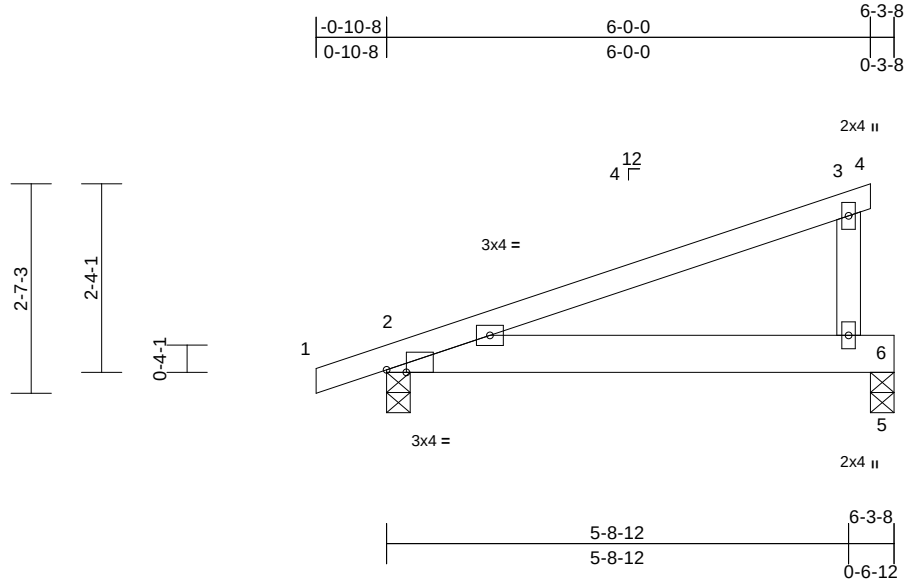
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing	
J0325-1577	M1	Monopitch	1	1	Job Reference (optional)	I73479972

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:28.6

Plate Offsets (X, Y): [2:0-2-15,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	0.49	Vert(LL)	0.07	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0'-0 oc bracing.

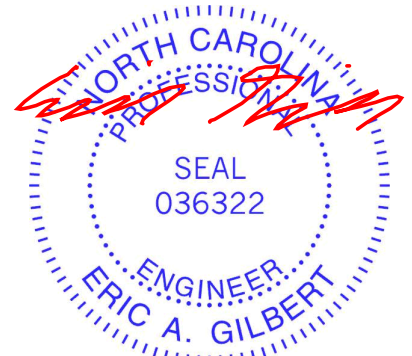
REACTIONS (size) 2=0-3-8, 5=0-3-8
Max Horiz 2=112 (LC 8)
Max Uplift 2=-177 (LC 8), 5=-138 (LC 8)
Max Grav 2=306 (LC 1), 5=216 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-94/46, 3-4=-2/0, 3-6=-167/233
BOT CHORD 2-6=0/0, 5-6=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) exterior zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 6-0-0 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 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.
- 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 177 lb uplift at joint 2 and 138 lb uplift at joint 5.

LOAD CASE(S) Standard



May 15,2025

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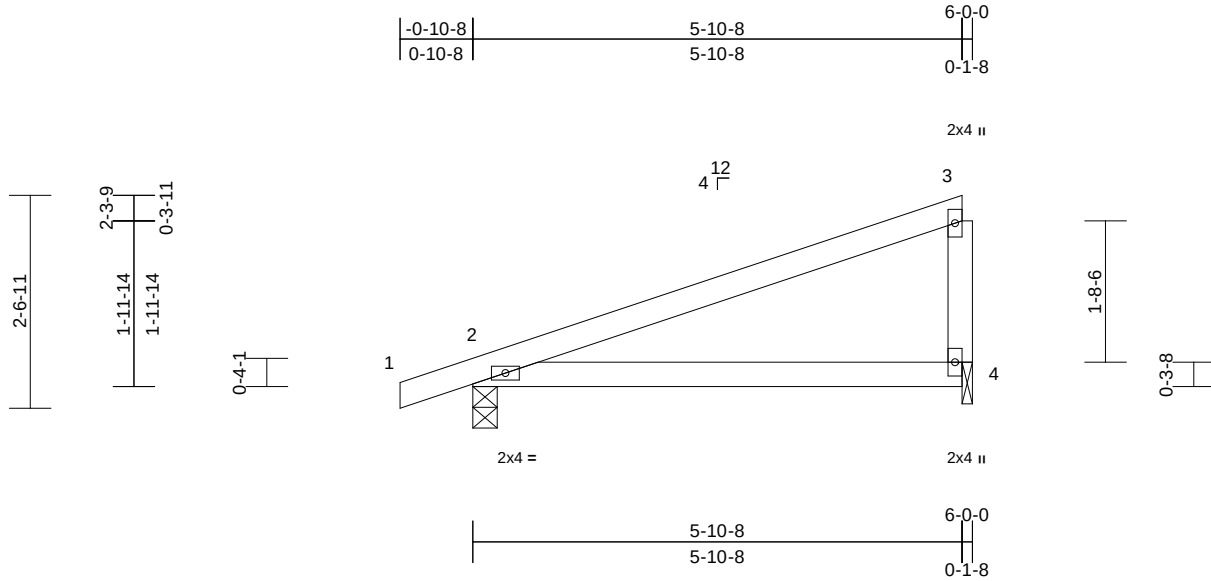
Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing	173479973
J0325-1577	M2	GABLE	4	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 14 09:51:51

Page: 1

ID:eo_4ms57ZKhsIxK1jvAQdyiOuh-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f



Scale = 1:27.7

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	0.52	Vert(LL)	-0.06	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.11	2-4	>615	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	0.18	2-4	>375	240	Weight: 22 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2 and 95 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=0-3-8, 4=0-1-8

Max Horiz 2=77 (LC 8)
Max Uplift 2=-117 (LC 8), 4=-95 (LC 8)
Max Grav 2=295 (LC 1), 4=221 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-90/46, 3-4=-164/219
BOT CHORD 2-4=-3/2

NOTES

- 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) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 5-9-15 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 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.
- Bearings are assumed to be: Joint 4 SP No.2 crushing capacity of 565 psi, Joint 2 SP No.1 crushing capacity of 565 psi.
- 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.



May 15,2025

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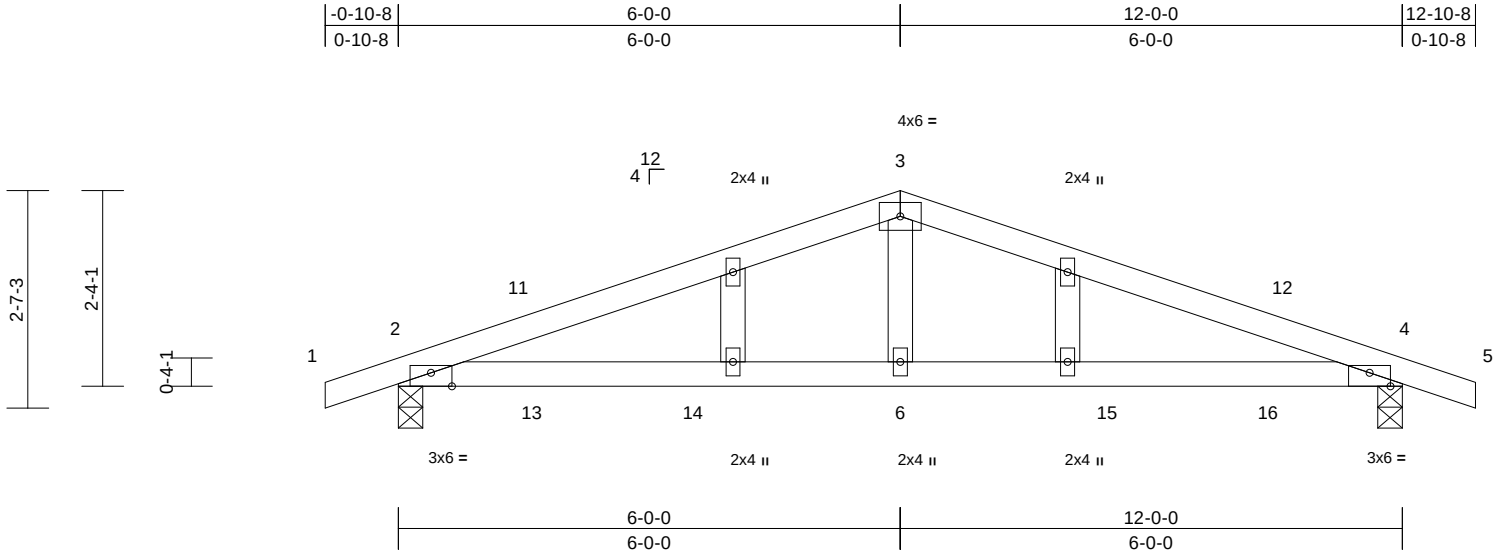
Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	P1	GABLE	1	1	173479974
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed May 14 09:51:51

Page: 1

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Scale = 1:27.5

Plate Offsets (X, Y): [2:0-3-0,Edge], [4:0-3-0,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	0.60	Vert(LL)	0.16	2-6	>901	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.07	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 46 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-4-9 oc bracing.

REACTIONS

(size)	2=0-3-8, 4=0-3-8
Max Horiz	2=-46 (LC 13)
Max Uplift	2=-293 (LC 8), 4=-293 (LC 9)
Max Grav	2=530 (LC 1), 4=530 (LC 1)

FORCES

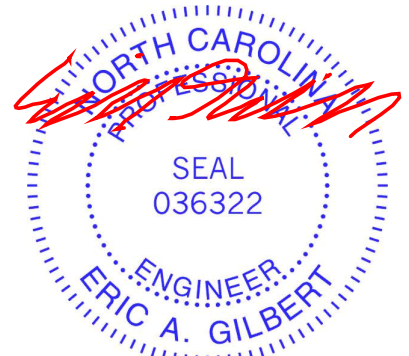
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/15, 2-3=-859/1828, 3-4=-859/1828, 4-5=0/15
BOT CHORD	2-6=-1611/759, 4-6=-1611/759
WEBS	3-6=-703/281

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to 12-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 293 lb uplift at joint 2 and 293 lb uplift at joint 4.

LOAD CASE(S) Standard



May 15,2025

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

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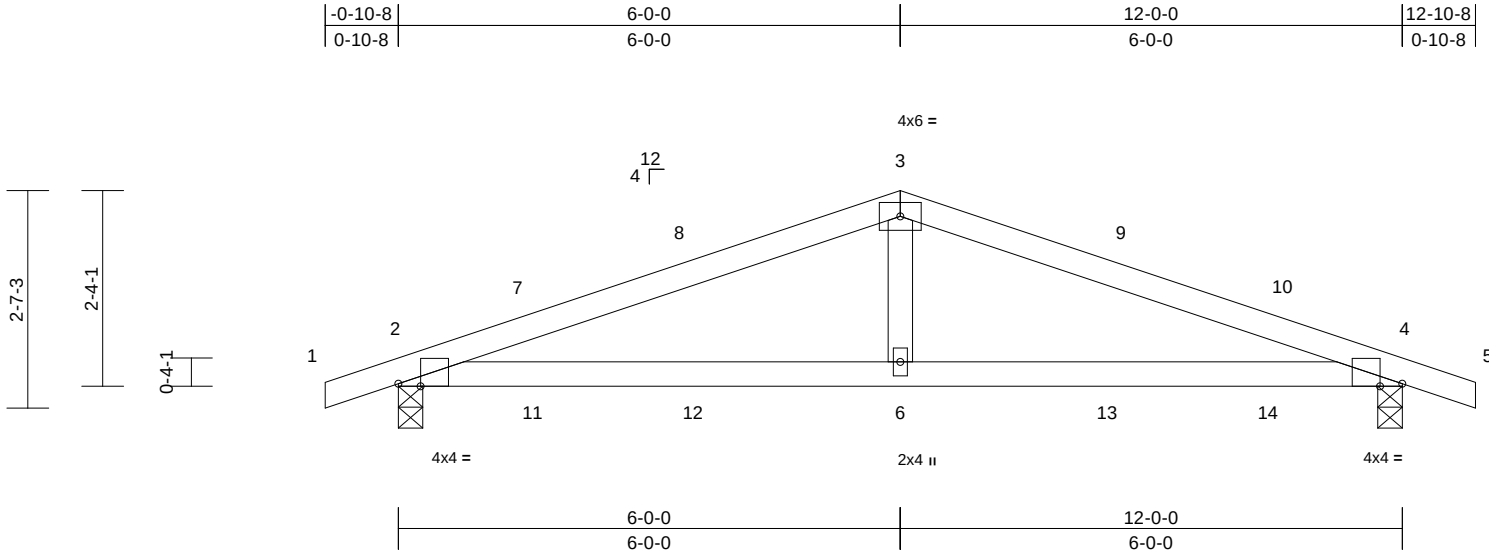
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing	173479975
J0325-1577	P2	Common	4	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. Wed May 14 09:51:51
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Page: 1



Scale = 1:27.5

Plate Offsets (X, Y): [2:0-3-3,Edge], [4:0-3-3,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	0.50	Vert(LL)	0.14	2-6	>995	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.07	2-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 42 lb	FT = 20%

LUMBER

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2 and 205 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 5-0-10 oc bracing.

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-27 (LC 13)
Max Uplift 2=-205 (LC 8), 4=-205 (LC 9)
Max Grav 2=530 (LC 1), 4=530 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-859/1410, 3-4=-859/1410, 4-5=0/15

BOT CHORD 2-6=-1245/759, 4-6=-1245/759

WEBS 3-6=-555/281

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) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior (1) 10-4-13 to 12-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



May 15,2025

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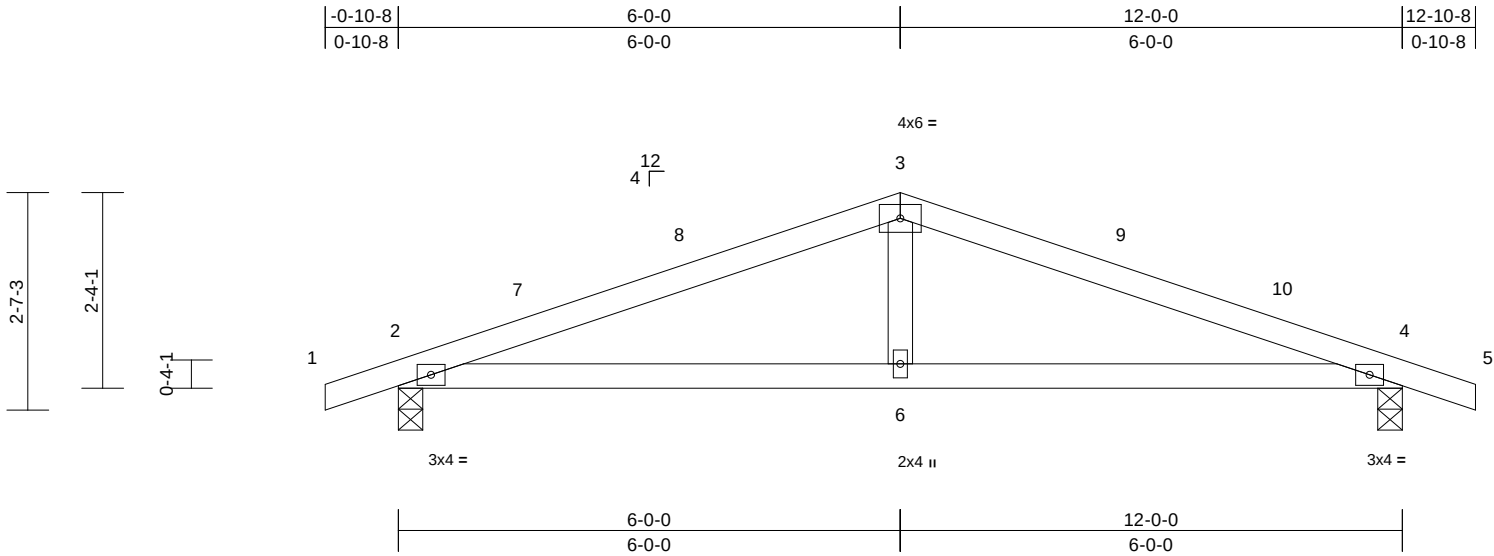
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing	173479976
J0325-1577	P3	Common	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:27.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.03	4-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	4-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	2-6	>999	240	Weight: 42 lb	FT = 20%

LUMBER

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

- 6) 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 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.

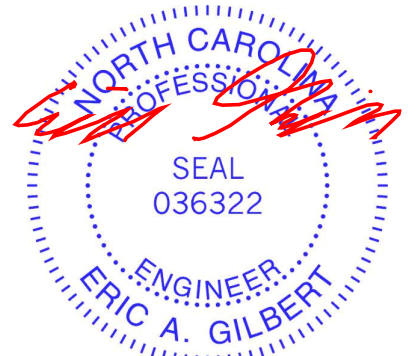
REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=27 (LC 16)
Max Uplift 2=-75 (LC 8), 4=-75 (LC 9)
Max Grav 2=530 (LC 1), 4=530 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-859/449, 3-4=-859/449, 4-5=0/15
BOT CHORD 2-6=-334/759, 4-6=-334/759
WEBS 3-6=0/281

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) 0-10-8 to 3-6-5, Interior (1) 3-6-5 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior (1) 10-4-13 to 12-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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.



May 15,2025

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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. Wed May 14 09:51:51 Page: 1
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LUMBER

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=10-10-8, 7=10-10-8, 8=10-10-8, 9=10-10-8, 10=10-10-8, 11=10-10-8, 12=10-10-8
Max Horiz	1=-123 (LC 8)
Max Uplift	1=-48 (LC 10), 7=-27 (LC 11), 8=-72 (LC 13), 9=-88 (LC 13), 11=-89 (LC 12), 12=-72 (LC 12)
Max Grav	1=94 (LC 9), 7=80 (LC 13), 8=160 (LC 20), 9=198 (LC 20), 10=120 (LC 22), 11=199 (LC 19), 12=159 (LC 19)

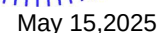
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-219/104, 2-3=-107/73, 3-4=-106/161, 4-5=-106/149, 5-6=-85/44, 6-7=-207/92
BOT CHORD	1-12=-68/161, 11-12=-68/161, 10-11=-68/161, 9-10=-68/161, 8-9=-68/161, 7-8=-68/161
WEBS	4-10=-121/32, 3-11=-176/246, 2-12=-144/194, 5-9=-176/246, 6-8=-144/194

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=130mph; TCFL=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 5-5-12, Exterior(2R) 5-5-12 to 9-10-9, Interior (1) 9-10-9 to 10-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

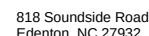
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1, 27 lb uplift at joint 7, 89 lb uplift at joint 11, 72 lb uplift at joint 12, 88 lb uplift at joint 9 and 72 lb uplift at joint 8.

LOAD CASE(S) Standard



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-15169: 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 design, 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

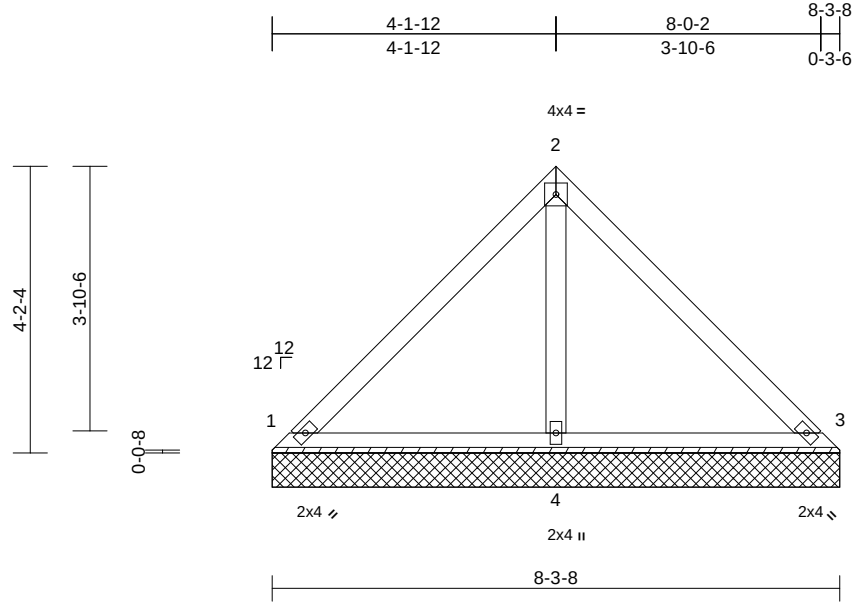


Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing	
J0325-1577	V2	Valley	1	1	Job Reference (optional)	I73479978

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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=8-3-8, 3=8-3-8, 4=8-3-8
Max Horiz 1=92 (LC 9)
Max Uplift 1=-33 (LC 13), 3=-33 (LC 13)
Max Grav 1=187 (LC 1), 3=187 (LC 1), 4=240 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-140/89, 2-3=-126/114
BOT CHORD 1-4=-26/63, 3-4=-26/63
WEBS 2-4=-144/101

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 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 33 lb uplift at joint 1 and 33 lb uplift at joint 3.

LOAD CASE(S) Standard



May 15,2025

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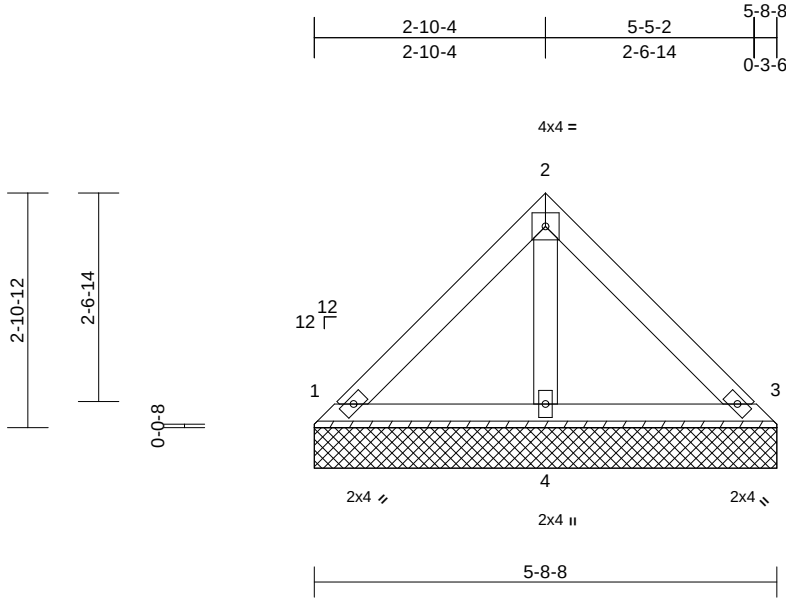
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing	
J0325-1577	V3	Valley	1	1	Job Reference (optional)	I73479979

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:28.4

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	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: 23 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 5-9-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	1=5-8-8, 3=5-8-8, 4=5-8-8
Max Horiz	1=-61 (LC 8)
Max Uplift	1=-22 (LC 13), 3=-22 (LC 13)
Max Grav	1=124 (LC 1), 3=124 (LC 1), 4=159 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-93/71, 2-3=-83/90
BOT CHORD	1-4=-18/48, 3-4=-18/48
WEBS	2-4=-96/84

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 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 22 lb uplift at joint 1 and 22 lb uplift at joint 3.

LOAD CASE(S) Standard



May 15, 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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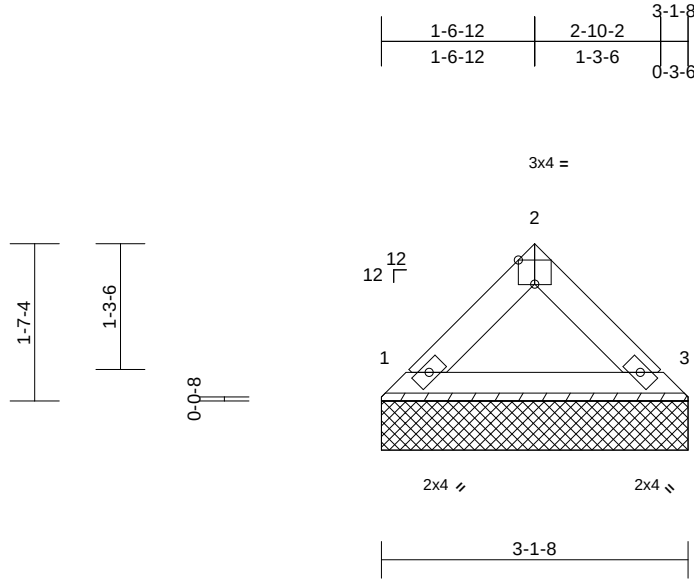
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 74 Ducks Landing
J0325-1577	V4	Valley	1	1	173479980
					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. Wed May 14 09:51:52
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Page: 1



Scale = 1:23.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	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: 10 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-1-8, 3=3-1-8
Max Horiz 1=-30 (LC 8)
Max Uplift 1=-3 (LC 13), 3=-3 (LC 13)
Max Grav 1=100 (LC 1), 3=100 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-74/70, 2-3=-74/85
BOT CHORD 1-3=-7/43

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

LOAD CASE(S) Standard



May 15, 2025

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

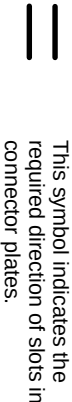
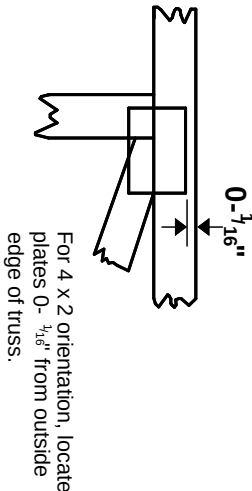
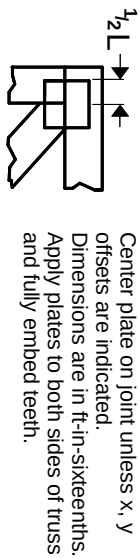
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

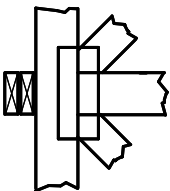
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

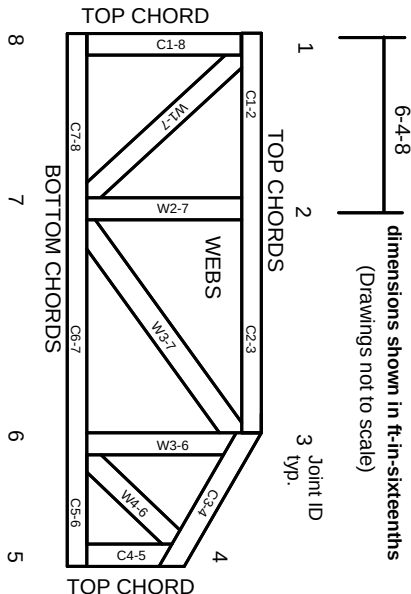
BEARING



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

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

Numbering System



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

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

Product Code Approvals

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

Design General Notes

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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