

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: J0325-1552  
Lot 8 Graham Mill Lane

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: I72726257 thru I72726282

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

North Carolina COA: C-0844



April 15, 2025

Gilbert, Eric

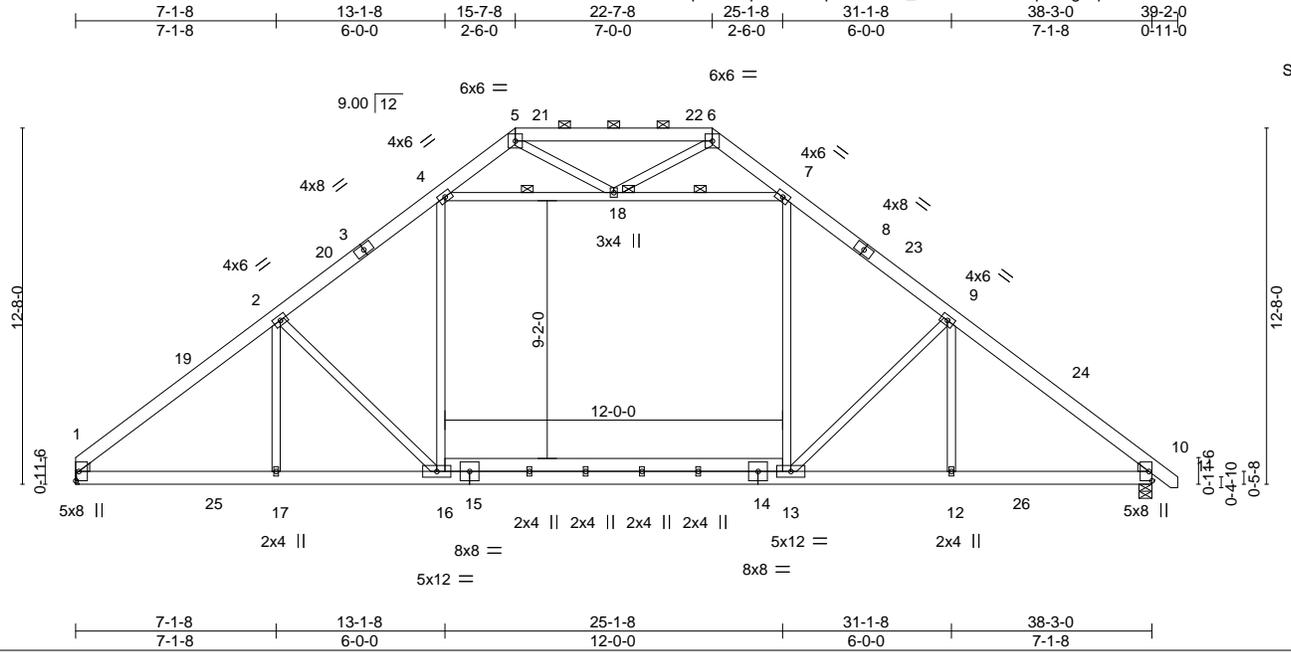
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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.

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726257
J0325-1552	A1	PIGGYBACK BASE	6	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.40 13-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.65	Vert(CT) -0.56 13-16 >814 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 10 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.30 16-17 >999 240	Weight: 328 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-18, 7-18
WEDGE	JOINTS 1 Brace at Jt(s): 18
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

**REACTIONS.** (size) 1=Mechanical, 10=0-5-8  
 Max Horz 1=-295(LC 10)  
 Max Uplift 1=-60(LC 12), 10=-74(LC 13)  
 Max Grav 1=1895(LC 19), 10=1954(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2600/331, 2-4=-2218/407, 4-5=-630/267, 5-6=-479/237, 6-7=-623/266,  
 7-9=-2210/398, 9-10=-2567/329  
 BOT CHORD 1-17=-199/2156, 16-17=-199/2156, 13-16=-44/1749, 12-13=-153/1900, 10-12=-153/1900  
 WEBS 2-17=-21/252, 2-16=-573/261, 9-13=-510/258, 4-16=-1/908, 7-13=0/883,  
 4-18=-1426/247, 7-18=-1445/250

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-7-8, Exterior(2R) 15-7-8 to 21-10-3, Interior(1) 21-10-3 to 22-7-8, Exterior(2R) 22-7-8 to 28-10-3, Interior(1) 28-10-3 to 39-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 1 and 74 lb uplift at joint 10.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



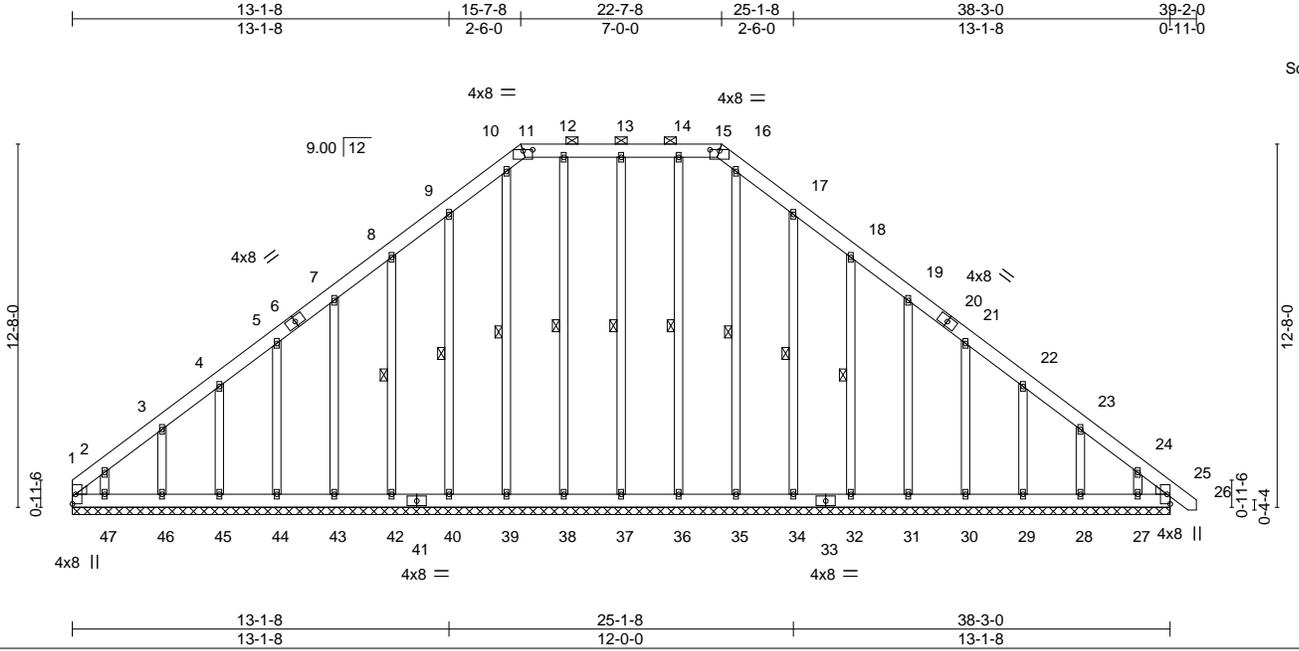
April 15, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726258
J0325-1552	A1GE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RFC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?



Scale = 1:79.9

Plate Offsets (X,Y)-- [11:0-4-0,0-0-7], [15:0-4-0,0-0-7]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00	25	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	25	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	25	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S						
							Weight: 400 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-15.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 13-37, 12-38, 10-39, 9-40, 8-42, 14-36, 16-35, 17-34, 18-32
WEDGE	
Left: 2x4 SP No.2, Right: 2x4 SP No.2	

**REACTIONS.** All bearings 38-3-0.  
 (lb) - Max Horz 1=-369(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 25, 37, 38, 39, 40, 43, 44, 45, 36, 34, 31, 30, 29 except 1=-244(LC 10), 42=-105(LC 12), 46=-106(LC 12), 47=-207(LC 12), 32=-106(LC 13), 28=-106(LC 13), 27=-172(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 25, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27 except 1=356(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-484/358, 2-3=-331/279, 3-4=-251/242, 8-9=-174/287, 9-10=-220/338, 10-11=-201/304, 11-12=-196/316, 12-13=-196/316, 13-14=-196/316, 14-15=-196/316, 15-16=-201/304, 16-17=-220/338, 17-18=-174/258, 24-25=-371/197  
 BOT CHORD 1-47=-140/284, 46-47=-140/284, 45-46=-140/284, 44-45=-140/284, 43-44=-140/284, 42-43=-140/284, 40-42=-140/284, 39-40=-140/284, 38-39=-140/284, 37-38=-140/284, 36-37=-140/284, 35-36=-140/284, 34-35=-140/284, 32-34=-140/284, 31-32=-140/284, 30-31=-140/284, 29-30=-140/284, 28-29=-140/284, 27-28=-140/284, 25-27=-140/284

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 4-4-13, Exterior(2N) 4-4-13 to 15-8-7, Corner(3R) 15-8-7 to 20-1-3, Exterior(2N) 20-1-3 to 22-6-9, Corner(3R) 22-6-9 to 27-1-8, Exterior(2N) 27-1-8 to 39-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 37, 38, 39, 40, 43, 44, 36, 34, 31, 30, 29 except (jt=lb) 1=244, 42=105, 46=106, 47=207, 32=106, 28=106, 27=172.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 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/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)

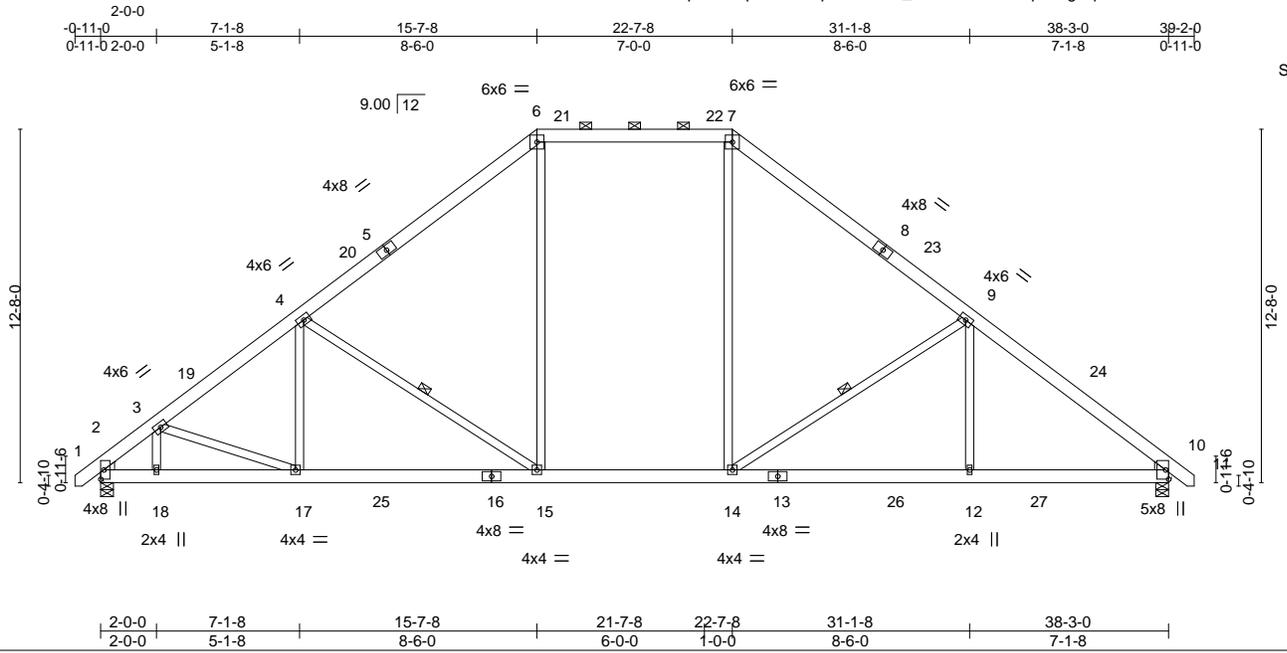


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726259
J0325-1552	A2	PIGGYBACK BASE	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:30 2025 Page 1  
 ID:tpZlv46Jpk9SvtrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?#



Scale = 1:82.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.23 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.30 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 10 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.22 15-17 >999 240	Weight: 295 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 9-14
WEDGE	
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

**REACTIONS.** (size) 2=0-5-8, 10=0-5-8  
 Max Horz 2=296(LC 11)  
 Max Uplift 2=-74(LC 12), 10=-74(LC 13)  
 Max Grav 2=1885(LC 19), 10=1934(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2302/283, 3-4=-2397/326, 4-6=-1925/404, 6-7=-1438/390, 7-9=-1928/407, 9-10=-2628/327  
 BOT CHORD 2-18=-149/1736, 17-18=-149/1736, 15-17=-206/2088, 14-15=-5/1492, 12-14=-162/1933, 10-12=-162/1933  
 WEBS 4-17=0/302, 4-15=-727/249, 9-12=0/521, 6-15=-36/735, 7-14=-42/746, 9-14=-797/254, 3-17=-61/377

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 15-7-8, Exterior(2R) 15-7-8 to 21-10-3, Interior(1) 21-10-3 to 22-7-8, Exterior(2R) 22-7-8 to 28-10-3, Interior(1) 28-10-3 to 39-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726260
J0325-1552	A3	PIGGYBACK BASE	7	1		

Comtech, Inc., Fayetteville, NC - 28314,

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 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

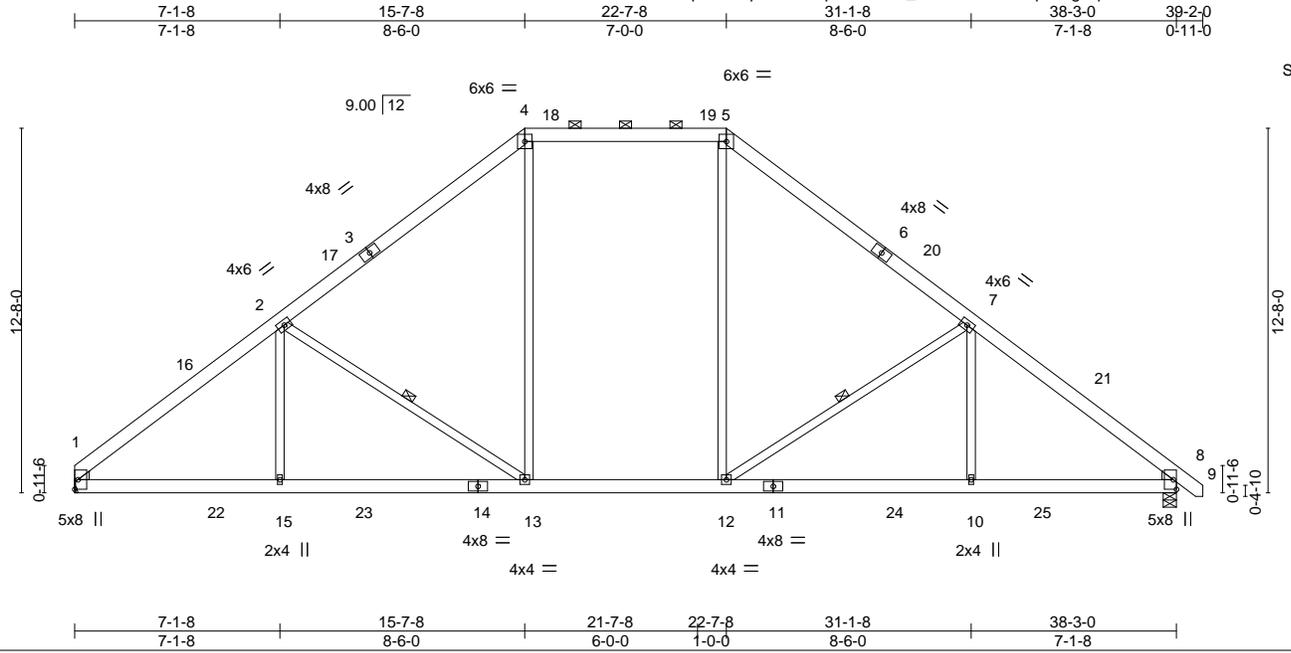


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.24 13-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.31 13-15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 8 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.23 13-15 >999 240	Weight: 283 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 2-13, 7-12
WEDGE	
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

**REACTIONS.** (size) 1=Mechanical, 8=0-5-8  
 Max Horz 1=-295(LC 8)  
 Max Uplift 1=-60(LC 12), 8=-74(LC 13)  
 Max Grav 1=1895(LC 19), 8=1953(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2662/331, 2-4=-1966/414, 4-5=-1468/394, 5-7=-1964/409, 7-8=-2654/331  
 BOT CHORD 1-15=-211/2211, 13-15=-211/2211, 12-13=-7/1523, 10-12=-165/1954, 8-10=-165/1954  
 WEBS 2-15=0/525, 2-13=-838/256, 4-13=-49/768, 5-12=-42/760, 7-10=0/512, 7-12=-787/254

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-7-8, Exterior(2R) 15-7-8 to 21-10-3, Interior(1) 21-10-3 to 22-7-8, Exterior(2R) 22-7-8 to 28-10-3, Interior(1) 28-10-3 to 39-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 15, 2025

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726261
J0325-1552	B1	ATTIC	5	1	Job Reference (optional)	

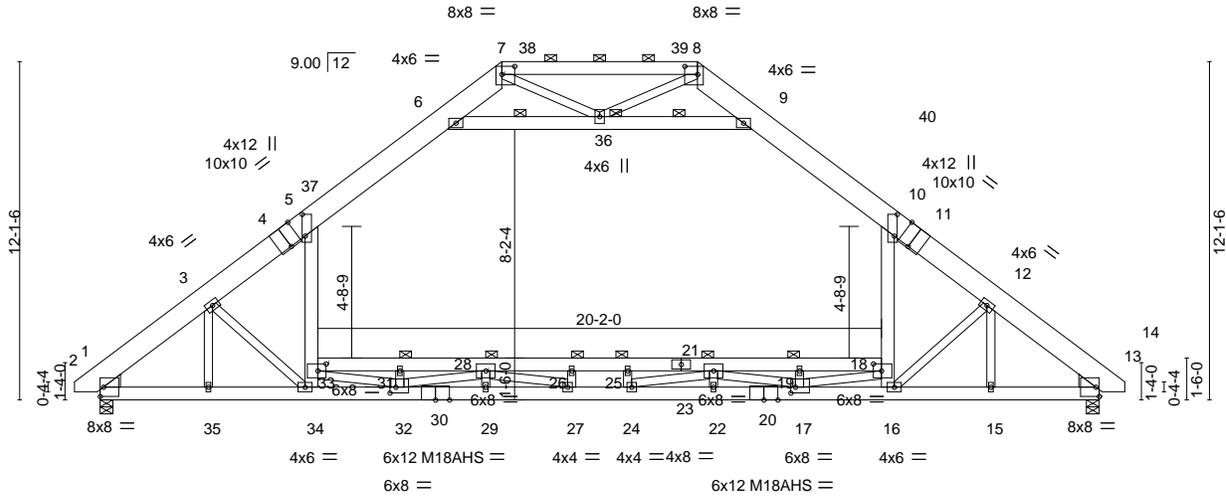
Comtech, Inc., Fayetteville, NC - 28314,

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ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

-0-11-0	3-10-8	7-6-12	12-8-12	14-4-8	21-4-8	23-0-4	28-2-4	31-10-8	35-9-0	36-8-0
0-11-0	3-10-8	3-8-4	5-2-0	1-7-12	7-0-0	1-7-12	5-2-0	3-8-4	3-10-8	0-11-0

Scale = 1:82.0



3-10-8	7-6-12	10-8-11	13-9-9	16-10-8	18-10-8	21-11-7	25-0-5	28-2-4	31-10-8	35-9-0
3-10-8	3-8-4	3-1-15	3-0-15	3-0-15	2-0-0	3-0-15	3-0-15	3-1-15	3-8-4	3-10-8

Plate Offsets (X,Y)-- [4:0-5-0,Edge], [5:0-9-5,0-1-4], [7:0-5-8,0-3-8], [8:0-5-8,0-3-8], [10:0-9-5,0-1-4], [11:0-5-0,Edge], [17:0-2-0,0-2-8], [18:0-3-8,0-3-0], [32:0-2-8,0-2-8], [33:0-3-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.40 25-26 >999 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.77 25-26 >549 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.10 13 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.11 34 >999 240		
				Weight: 418 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x10 SP 2400F 2.0E \*Except\*  
7-8: 2x6 SP No.1  
BOT CHORD 2x6 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
5-34,10-16,6-9: 2x6 SP No.1

**WEDGE**

Left: 2x6 SP No.1 , Right: 2x6 SP No.1

**REACTIONS.**

(size) 2=0-5-8, 13=0-5-8  
Max Horz 2=276(LC 9)  
Max Grav 2=2564(LC 20), 13=2564(LC 21)

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

TOP CHORD 2-3=-3511/0, 3-5=-3374/0, 5-6=-2291/40, 6-7=-117/737, 7-8=0/872, 8-9=-117/737,  
9-10=-2291/0, 10-12=-3374/0, 12-13=-3514/0  
BOT CHORD 2-35=0/2746, 34-35=0/2743, 32-34=0/2025, 29-32=0/6324, 27-29=0/6324, 24-27=0/7412,  
22-24=0/6324, 17-22=0/6324, 16-17=0/1833, 15-16=0/2543, 13-15=0/2546,  
31-33=-2214/0, 28-31=-2214/0, 26-28=-5341/0, 25-26=-5341/0, 21-25=-5341/0,  
19-21=-2214/0, 18-19=-2214/0  
WEBS 33-34=0/863, 5-33=0/2002, 16-18=0/868, 10-18=0/2002, 6-36=-3356/0, 9-36=-3359/0,  
26-27=-311/0, 24-25=-311/0, 31-32=-439/0, 17-19=-439/0, 32-33=0/2981,  
28-32=-2153/0, 27-28=0/1148, 21-24=0/1156, 17-21=-2153/0, 17-18=0/2981,  
7-36=-31/382, 8-36=-31/382, 3-34=-631/108, 12-16=-635/111

**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) -0-6-2 to 3-9-8, Interior(1) 3-9-8 to 14-4-8, Exterior(2R) 14-4-8 to 20-7-3, Interior(1) 20-7-3 to 21-4-8, Exterior(2R) 21-4-8 to 27-7-3, Interior(1) 27-7-3 to 36-3-2 zone:C:C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 9-10, 6-36, 9-36; Wall dead load (5.0psf) on member(s).5-33, 10-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 31-33, 28-31, 26-28, 25-26, 21-25, 19-21, 18-19

Construction page representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**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)



April 15, 2025



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726261
J0325-1552	B1	ATTIC	5	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:32 2025 Page 2  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

**NOTES-**

11) Attic room checked for L/360 deflection.

**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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))



818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726262
J0325-1552	B1GE	ATTIC	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:33 2025 Page 2  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

- NOTES-**
- 8) Ceiling dead load (10.0 psf) on member(s). 7-8, 16-17, 8-52, 51-52, 49-51, 49-50, 50-53, 16-53; Wall dead load (5.0psf) on member(s).7-44, 17-29
  - 9) Bearing at joint(s) 44 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 46, 26 except (jt=lb) 2=113, 45=394, 27=175, 44=249, 48=185, 47=100, 25=101, 24=180.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 12) Attic room checked for L/360 deflection.

**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 8 Graham Mill Lane	172726263
J0325-1552	B2	ATTIC	6	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:34 2025 Page 2  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

**NOTES-**

11) Attic room checked for L/360 deflection.

**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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))



818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726265
J0325-1552	C1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:36 2025 Page 1

ID:tpZlv46Jpk9SvtrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

0-11-0 13-7-12 15-2-11 19-9-4 23-1-8 24-0-5 39-3-0 40-2-0  
 0-11-0 13-7-12 1-6-15 4-6-9 3-4-4 0-10-13 15-2-11 0-11-0

Scale = 1:93.0

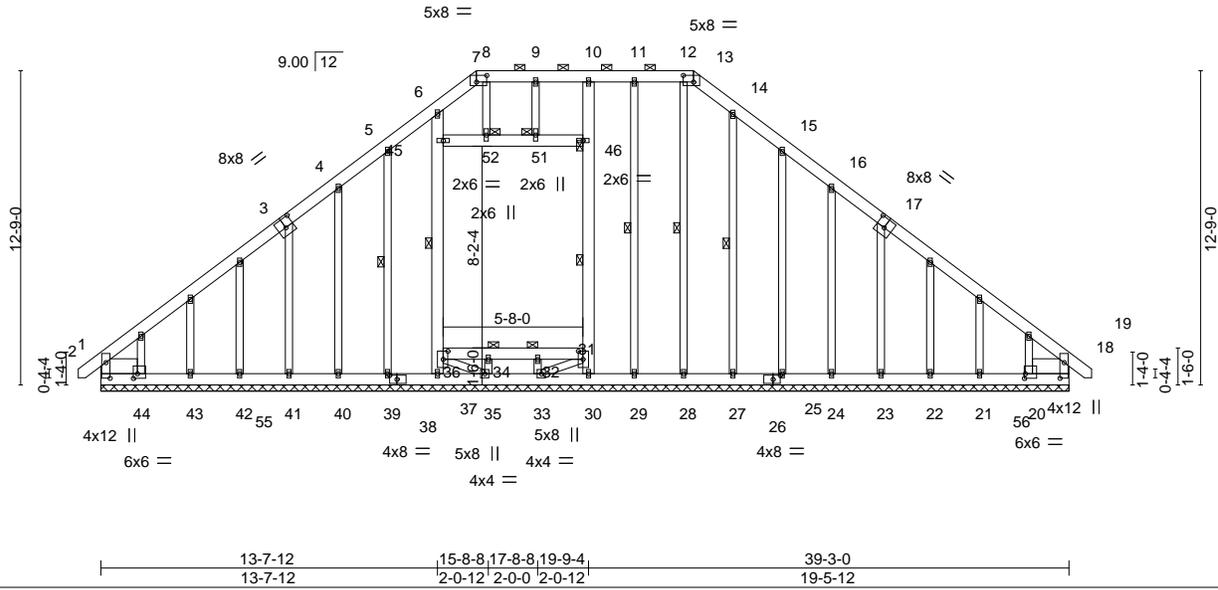


Plate Offsets (X,Y)-- [2:0-7-10,0-2-0], [3:0-4-0,0-4-8], [7:0-5-0,0-3-4], [13:0-5-0,0-3-4], [17:0-4-0,0-4-8], [18:0-7-10,0-2-0], [20:0-0-8,0-2-4], [26:0-3-8,0-2-0], [31:0-4-0,0-2-4], [36:0-4-0,0-2-4], [38:0-3-8,0-2-0], [44:0-2-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(LL) 0.00 19 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Vert(CT) 0.01 19 n/r 120		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Horz(CT) 0.01 18 n/a n/a		
				Weight: 456 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-13.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-37,10-30,45-46: 2x6 SP No.1	WEBS 1 Row at midpt 36-45, 31-46, 5-39, 11-29, 12-28, 14-27
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 46, 34, 32, 51, 52
SLIDER Left 2x8 SP No.1 1-5-12, Right 2x8 SP No.1 1-5-12	

**REACTIONS.** All bearings 39-3-0.  
 (lb) - Max Horz 2=367(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 42, 29, 28, 27, 25, 23, 22 except 2=-106(LC 8), 39=-126(LC 12), 41=-403(LC 12), 43=-111(LC 12), 24=-546(LC 13), 21=-219(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 39, 40, 42, 29, 28, 27, 25, 23, 22 except 2=424(LC 21), 37=493(LC 23), 30=512(LC 28), 18=368(LC 1), 35=356(LC 18), 33=359(LC 18), 41=552(LC 20), 43=285(LC 20), 24=702(LC 21), 21=399(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-487/265, 3-4=-353/245, 4-5=-289/266, 5-6=-314/342, 6-7=-357/331, 7-8=-296/326, 8-9=-296/326, 9-10=-296/326, 10-11=-296/332, 11-12=-296/332, 12-13=-296/332, 13-14=-334/355, 14-15=-322/317, 15-16=-386/344, 16-18=-416/100  
 BOT CHORD 2-43=-87/281, 42-43=-87/281, 41-42=-87/281, 40-41=-85/272, 39-40=-85/272, 37-39=-85/272, 35-37=-87/274, 30-33=-83/277, 29-30=-85/274, 28-29=-85/274, 27-28=-85/274, 25-27=-85/274, 24-25=-85/274, 23-24=-85/274, 22-23=-85/274, 21-22=-85/274, 18-21=-85/274  
 WEBS 36-37=-390/0, 36-45=-362/95, 30-31=-419/21, 31-46=-424/121, 10-46=-277/121, 3-41=-432/413, 16-24=-611/576

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-4 to 3-7-9, Exterior(2N) 3-7-9 to 15-2-11, Corner(3R) 15-2-11 to 19-9-4, Exterior(2N) 19-9-4 to 24-0-5, Corner(3R) 24-0-5 to 28-5-2, Exterior(2N) 28-5-2 to 40-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.



April 15, 2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726265
J0325-1552	C1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:36 2025 Page 2  
ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

**NOTES-**

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Ceiling dead load (10.0 psf) on member(s). 45-52, 51-52, 46-51; Wall dead load (5.0psf) on member(s).36-45, 31-46
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 42, 29, 28, 27, 25, 23, 22 except (jt=lb) 2=106, 39=126, 41=403, 43=111, 24=546, 21=219.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

**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

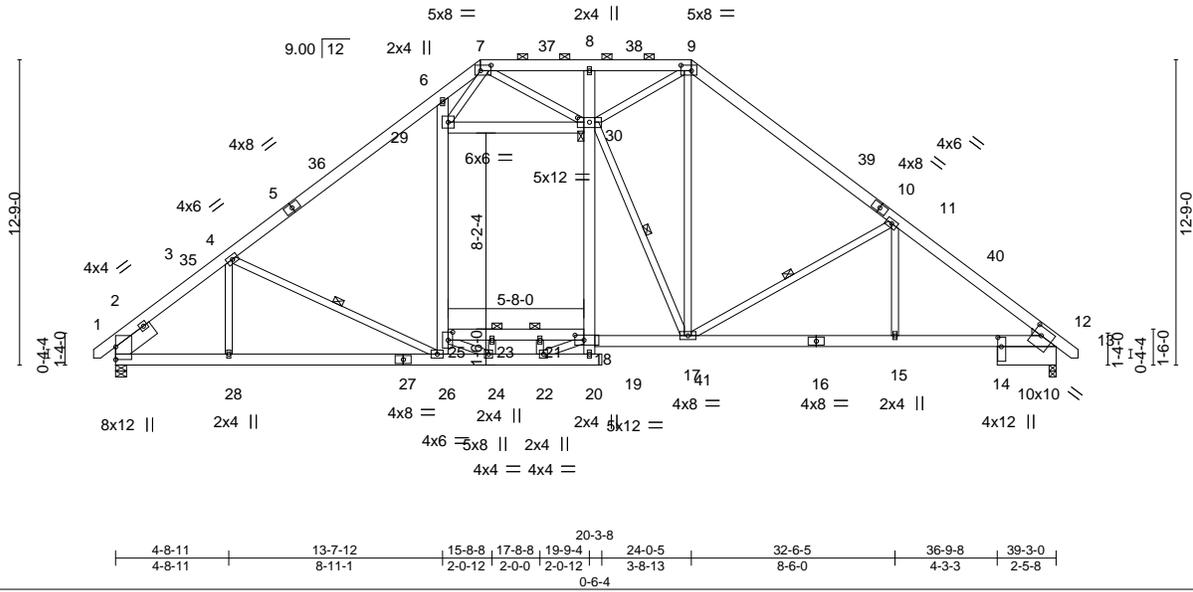
Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726266
J0325-1552	C2	ATTIC	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:36 2025 Page 1

ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-11-0	4-8-11	13-7-12	15-2-11	19-9-4	24-0-5	32-6-5	39-3-0	40-2-0
0-11-0	4-8-11	8-11-1	1-6-15	4-6-9	4-3-1	8-6-0	6-8-11	0-11-0



Scale: 1/8"=1'

Plate Offsets (X,Y)-- [7:0-5-4,0-2-12], [9:0-5-4,0-2-12], [12:0-4-0,0-4-0], [14:0-4-10,0-1-12], [18:0-4-8,0-2-8], [25:0-4-0,0-2-4], [30:0-6-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(LL) -0.10 26-28 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Vert(CT) -0.22 26-28 >999 240		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Horz(CT) 0.08 12 n/a n/a		
			Wind(LL) 0.05 26-28 >999 240	Weight: 400 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 12-14: 2x10 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 6-26,8-20,29-30: 2x6 SP No.1  
 WEDGE  
 Right: 2x4 SP No.2  
 SLIDER Left 2x8 SP No.1 1-11-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except  
 2-0-0 oc purlins (5-0-7 max.): 7-9.  
 Rigid ceiling directly applied.  
 BOT CHORD  
 WEBS 1 Row at midpt 4-26, 11-17, 17-30  
 JOINTS 1 Brace at Jt(s): 30, 23, 21

**REACTIONS.**

(size) 2=0-5-8, 12=0-3-8  
 Max Horz 2=289(LC 11)  
 Max Grav 2=2246(LC 20), 12=2130(LC 21)

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

TOP CHORD 2-4=-2834/51, 4-6=-2639/25, 6-7=-2679/305, 7-8=-2348/48, 8-9=-2334/46,  
 9-11=-2529/114, 11-12=-3127/70  
 BOT CHORD 2-28=0/2342, 26-28=0/2342, 24-26=0/2051, 22-24=0/1413, 23-25=0/746, 21-23=0/746,  
 18-21=0/746, 17-18=0/2168, 15-17=0/2432, 12-15=0/2433  
 WEBS 25-26=0/571, 25-29=0/539, 6-29=-624/465, 18-30=0/942, 9-17=-30/960, 11-17=-737/225,  
 11-15=0/321, 29-30=-788/158, 9-30=-68/615, 17-30=-554/102, 24-25=-714/19,  
 21-22=-354/0, 18-22=0/1393, 7-29=-323/1371, 7-30=-4/1154

**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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 15-2-11, Exterior(2R) 15-2-11 to 21-5-6, Interior(1) 21-5-6 to 24-0-5, Exterior(2R) 24-0-5 to 30-3-0, Interior(1) 30-3-0 to 40-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 29-30; Wall dead load (5.0psf) on member(s).25-29, 18-30
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-25, 21-23, 18-21
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



April 15, 2025

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726267
J0325-1552	D1GE	COMMON SUPPORTED GAB	2	1	Job Reference (optional)	

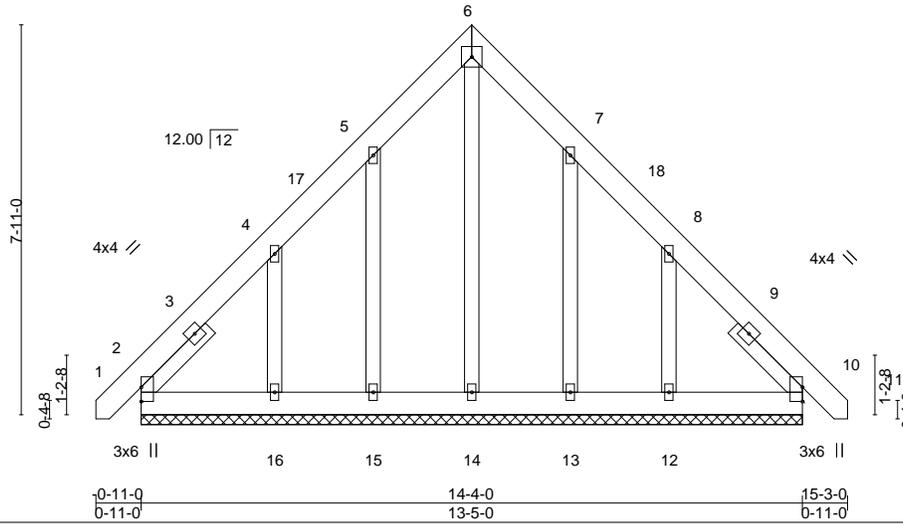
Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:37 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFZu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



5x5 =

Scale = 1:46.5



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	0.00 10	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	0.00 10	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Horz(CT)	0.00 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 122 lb	FT = 20%
	Code IRC2021/TPI2014							

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

- All bearings 13-5-0.
- (lb) - Max Horz 2=224(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=263(LC 12), 12=258(LC 13)
- Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=274(LC 19), 12=268(LC 20)

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

- TOP CHORD 5-6=161/270, 6-7=161/271
- WEBS 4-16=226/385, 8-12=226/384

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-6 to 3-7-7, Exterior(2N) 3-7-7 to 6-8-8, Corner(3R) 6-8-8 to 11-1-5, Exterior(2N) 11-1-5 to 14-2-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=263, 12=258.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 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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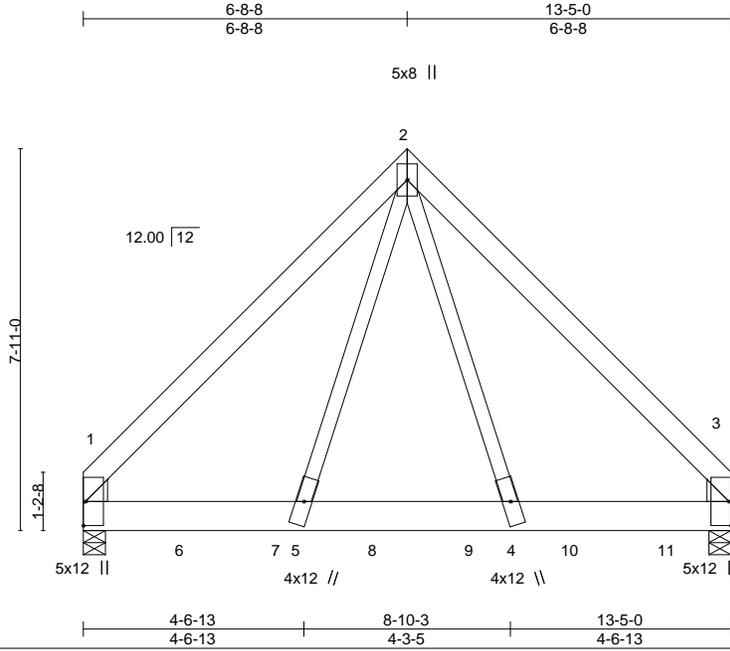


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726268
J0325-1552	D1GR	Common Girder	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:38 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:47.5

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.05	-0.05	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.09	-0.09	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.58	Horz(CT) 0.01	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.02	0.02	4-5	>999	240		
								Weight: 222 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x8 SP 2400F 2.0E  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x6 SP No.1 , Right: 2x6 SP No.1

**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=0-5-8, 3=0-5-8  
 Max Horz 1=-175(LC 25)  
 Max Uplift 1=-227(LC 9), 3=-251(LC 8)  
 Max Grav 1=5689(LC 2), 3=6295(LC 2)

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

TOP CHORD 1-2=-6172/300, 2-3=-6221/301  
 BOT CHORD 1-5=-160/4054, 4-5=-115/2728, 3-4=-143/4088  
 WEBS 2-4=-162/4648, 2-5=-157/4532

**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 0-5-0 oc.  
 Webs 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; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=227, 3=251.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1846 lb down and 80 lb up at 2-0-12, 1846 lb down and 80 lb up at 4-0-12, 1846 lb down and 80 lb up at 6-0-12, 1846 lb down and 80 lb up at 8-0-12, and 1846 lb down and 80 lb up at 10-0-12, and 1846 lb down and 80 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-3=-60, 1-3=-20



April 15, 2025

Continued on page 2

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

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726268
J0325-1552	D1GR	Common Girder	1	<b>2</b>	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:38 2025 Page 2  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 6=-1498(B) 7=-1498(B) 8=-1498(B) 9=-1498(B) 10=-1498(B) 11=-1498(B)

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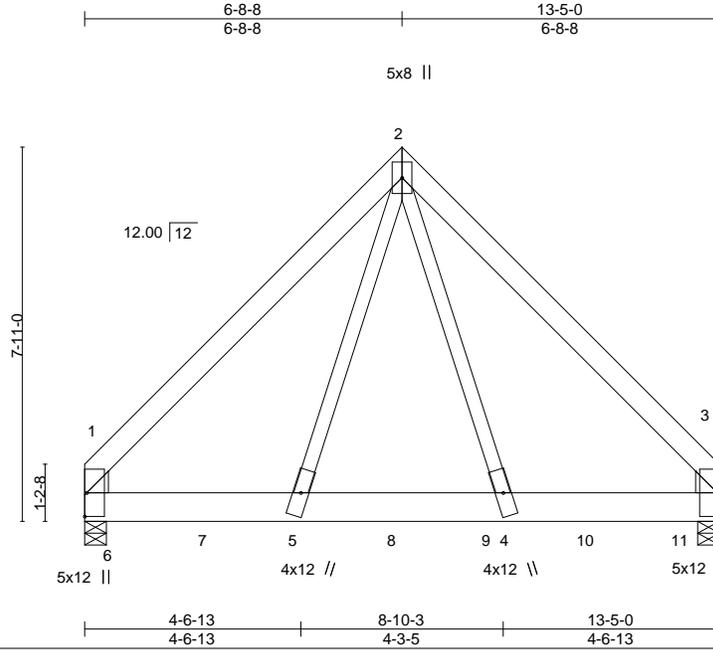


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726269
J0325-1552	D2GRD	Common Girder	1	2	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:38 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale: 1/4"=1'

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.05	-0.05	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.09	-0.09	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.01	0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.02	0.02	4-5	>999	240		
								Weight: 222 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x8 SP 2400F 2.0E  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x6 SP No.1 , Right: 2x6 SP No.1

**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=0-5-8, 3=0-5-8  
 Max Horz 1=175(LC 5)  
 Max Uplift 1=-279(LC 9), 3=-268(LC 8)  
 Max Grav 1=7078(LC 2), 3=6758(LC 2)

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

TOP CHORD 1-2=-6186/300, 2-3=-6194/300  
 BOT CHORD 1-5=-160/4065, 4-5=-115/2726, 3-4=-142/4071  
 WEBS 2-4=-160/4594, 2-5=-159/4574

**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 0-4-0 oc.  
 Webs 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; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=279, 3=268.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1850 lb down and 76 lb up at 0-6-12, 1846 lb down and 80 lb up at 2-6-12, 1846 lb down and 80 lb up at 4-6-12, 1846 lb down and 80 lb up at 6-6-12, 1846 lb down and 80 lb up at 8-6-12, and 1846 lb down and 80 lb up at 10-6-12, and 1848 lb down and 79 lb up at 12-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-3=-60, 1-3=-20



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Continued on page 2

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726269
J0325-1552	D2GRD	Common Girder	1	<b>2</b>	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:38 2025 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 5--1498(B) 6--1502(B) 7--1498(B) 8--1498(B) 9--1498(B) 10--1498(B) 11--1499(B)

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726270
J0325-1552	G1	MONOPITCH	12	1		

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:15.4

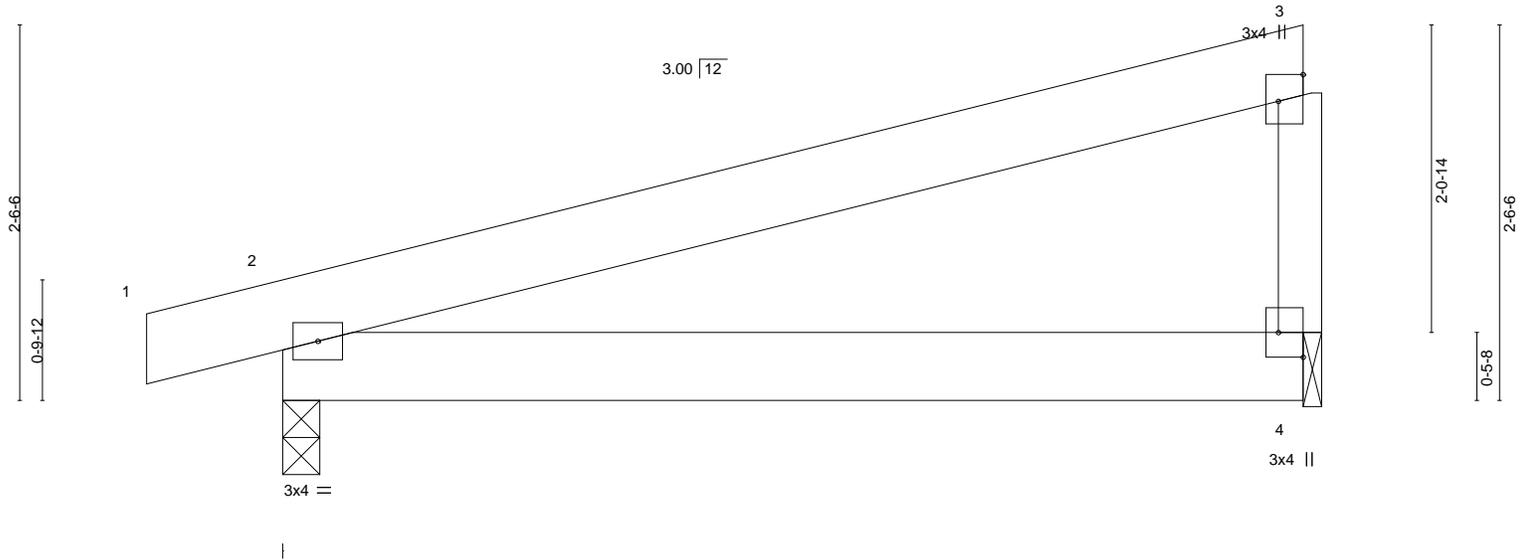


Plate Offsets (X,Y)-- [3:Edge,0-2-0], [4:Edge,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.56	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.06	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P	Wind(LL)	0.09	2-4	>888	240	Weight: 37 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, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 2=0-3-0, 4=0-1-8  
 Max Horz 2=64(LC 12)  
 Max Uplift 2=-134(LC 8), 4=-111(LC 8)  
 Max Grav 2=337(LC 1), 4=264(LC 1)

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

TOP CHORD 3-4=-197/255

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-10-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=134, 4=111.



April 15, 2025

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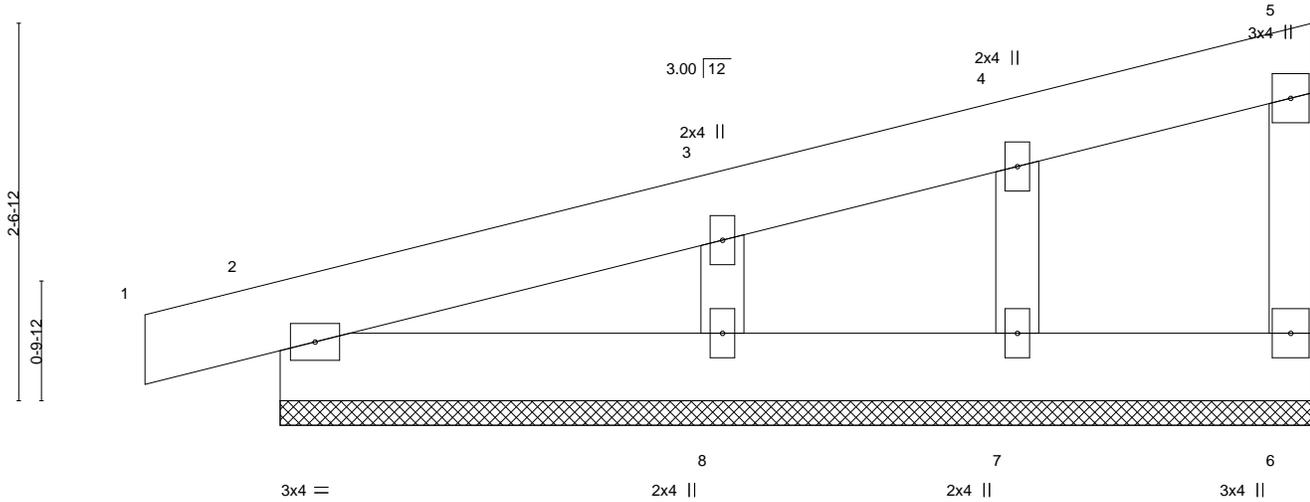
Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726271
J0325-1552	G1GE	MONOPITCH SUPPORTED	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:39 2025 Page 1  
 ID:tpZlv46Jpk9SvtrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:15.6



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 41 lb	FT = 20%

**LUMBER-**

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

**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.**

All bearings 7-0-0.  
 (lb) - Max Horz 2=92(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8  
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

WEBS 3-8=-167/316

**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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 6-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



April 15, 2025

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818 Soundside Road  
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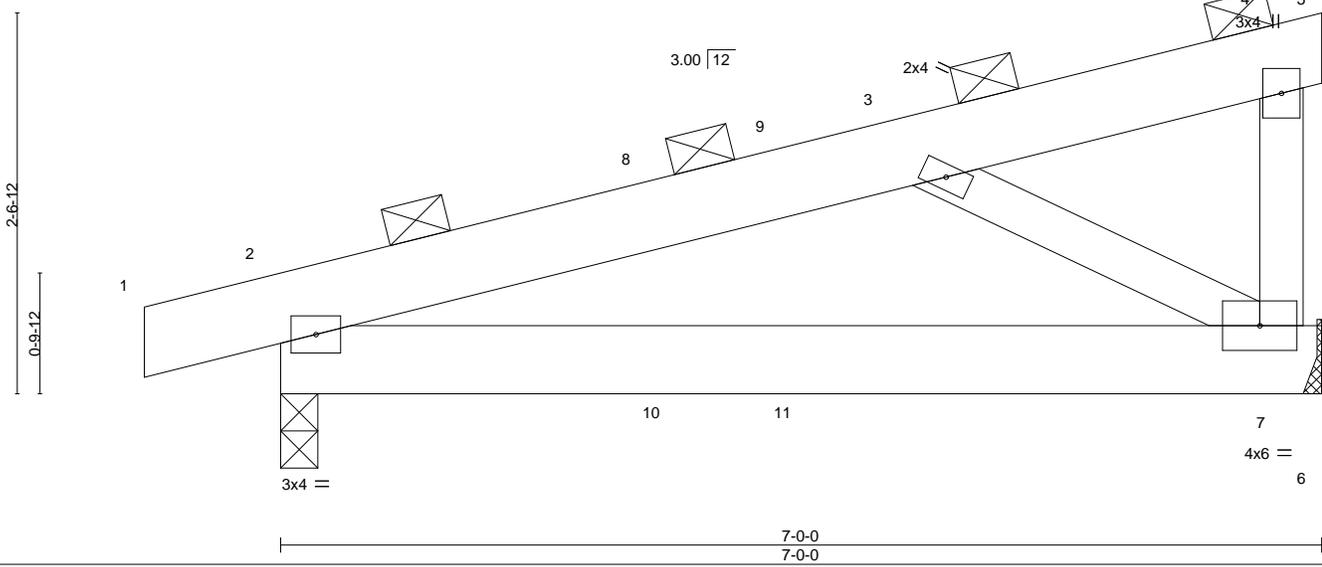
Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726272
J0325-1552	G2	MONOPITCH	2	2	Job Reference (optional)	

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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:39 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:15.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	5-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.03	2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.06	2-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.09	2-7	>856	240	Weight: 84 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 7=Mechanical, 2=0-3-0  
 Max Horz 2=162(LC 12)  
 Max Uplift 7=-275(LC 8), 2=-330(LC 8)  
 Max Grav 7=676(LC 1), 2=828(LC 1)

**FORCES.**

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

TOP CHORD 2-3=-771/447  
 BOT CHORD 2-7=-631/641  
 WEBS 3-7=-731/720

**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, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs 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.
- 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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 7-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=275, 2=330.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 15, 2025

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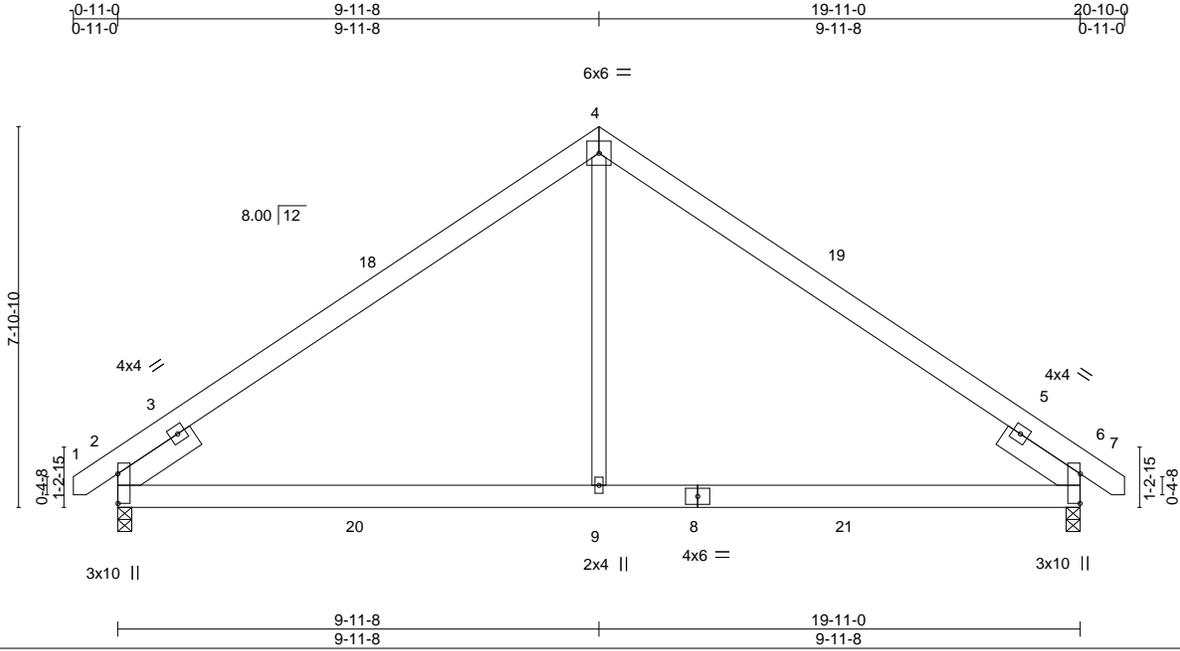


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726273
J0325-1552	H1	COMMON	22	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:40 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?F



Scale = 1:47.4

Plate Offsets (X,Y)-- [2:0-7-6,0-0-1], [6:0-7-6,0-0-1]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.31	Vert(LL) -0.08	9-12	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.46	Vert(CT) -0.12	9-12	>999	240			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.17	Horz(CT) 0.03	2	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL) 0.05	9-16	>999	240			
									Weight: 128 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 6=0-3-8, 2=0-3-8  
 Max Horz 2=-172(LC 10)  
 Max Uplift 6=-50(LC 13), 2=-50(LC 12)  
 Max Grav 6=1082(LC 20), 2=1082(LC 19)

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

TOP CHORD 2-4=-1166/230, 4-6=-1166/230  
 BOT CHORD 2-9=-10/910, 6-9=-10/910  
 WEBS 4-9=0/737

**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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 9-11-8, Exterior(2R) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 20-8-7 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
- This truss requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 15, 2025

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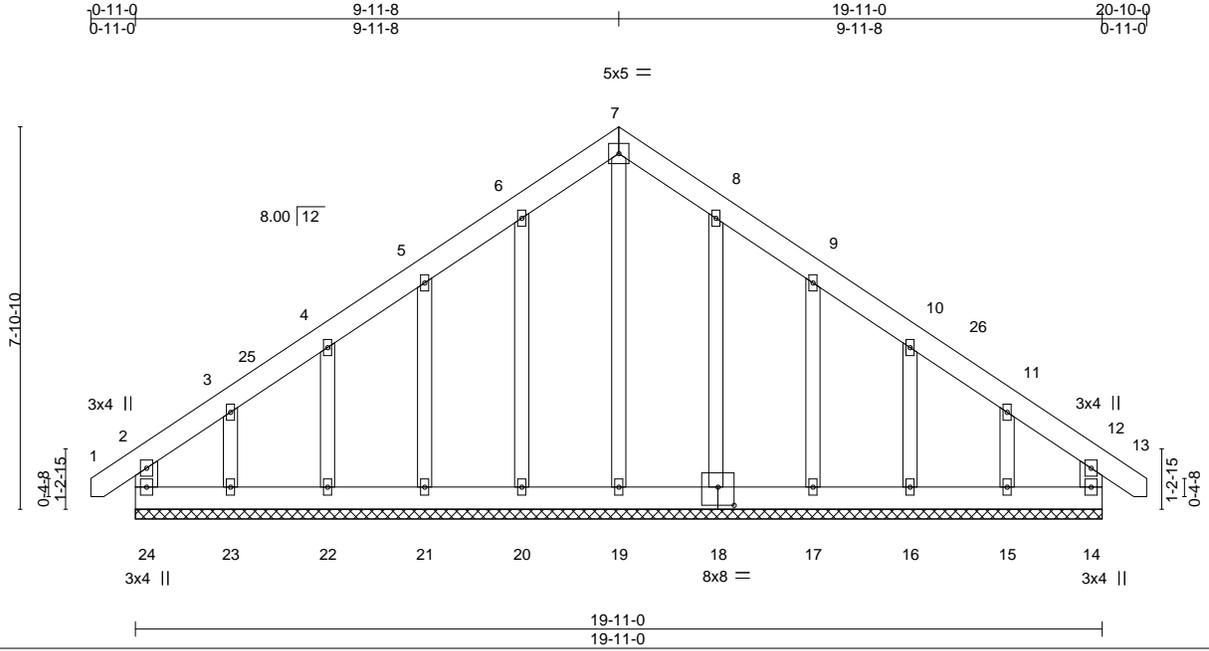


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726274
J0325-1552	H1GE	COMMON SUPPORTED GAB	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:40 2025 Page 1  
 ID:tpZlv46Jpk9SvtrZpWkKFZu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



Scale = 1:47.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-R							
									Weight: 165 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

All bearings 19-11-0.  
 (lb) - Max Horz 24--215(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 22, 18, 16 except 24--103(LC 8), 21--101(LC 12), 23--183(LC 12), 17--103(LC 13), 15--167(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

TOP CHORD 6-7--150/279, 7-8--150/279

**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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 9-11-8, Corner(3R) 9-11-8 to 14-4-5, Exterior(2N) 14-4-5 to 20-8-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 22, 18, 16 except (jt=lb) 24=103, 21=101, 23=183, 17=103, 15=167.



April 15, 2025

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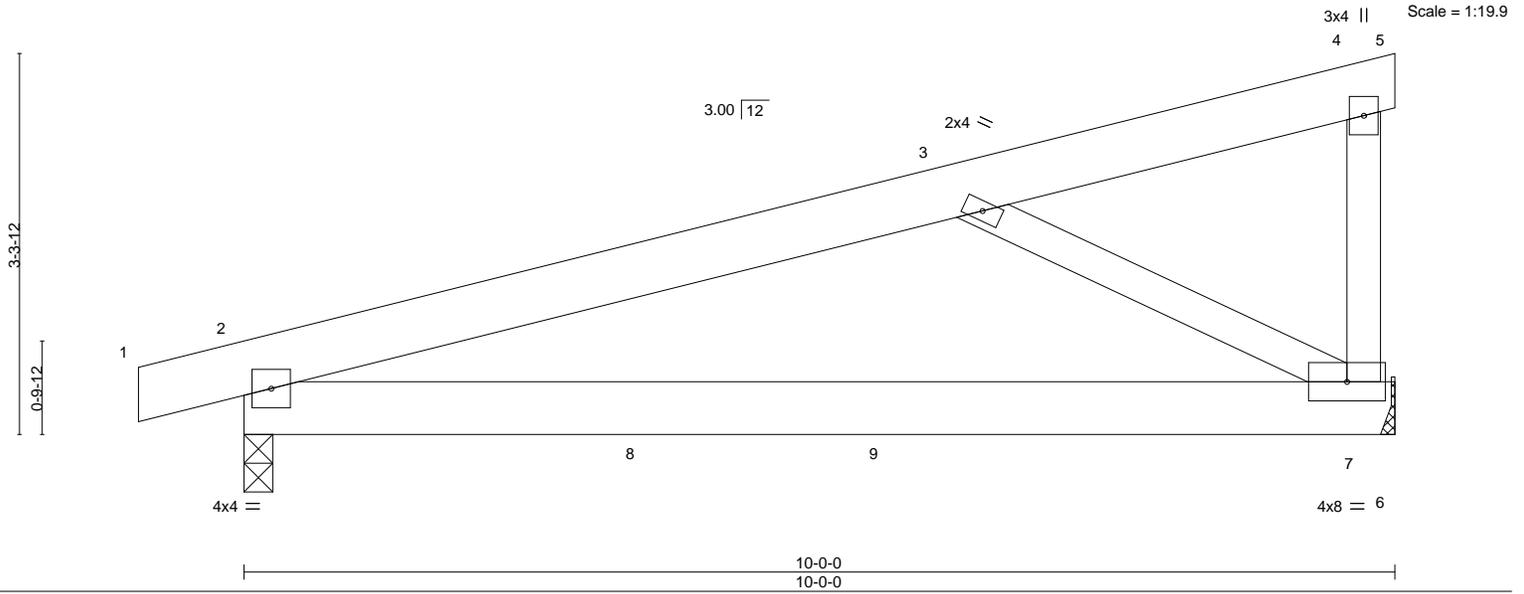


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726275
J0325-1552	J1	MONOPITCH	10	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:41 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.07	2-7	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.15	2-7	>784	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) -0.00	7	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.22	2-7	>532	240		Weight: 59 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, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 8-1-10 oc bracing.

**REACTIONS.**

(size) 7=Mechanical, 2=0-3-0  
 Max Horz 2=89(LC 12)  
 Max Uplift 7=160(LC 8), 2=174(LC 8)  
 Max Grav 7=392(LC 1), 2=450(LC 1)

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

TOP CHORD 2-3=-515/459  
 BOT CHORD 2-7=-570/458  
 WEBS 3-7=-483/533

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=160, 2=174.



April 15, 2025

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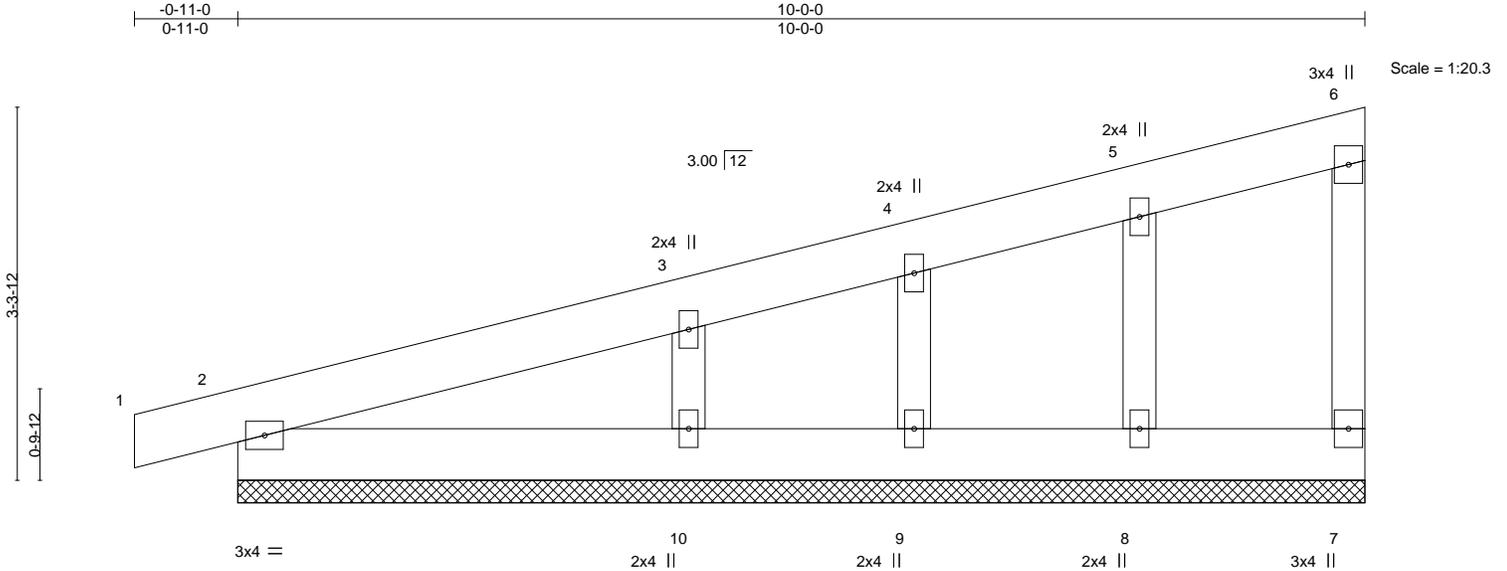
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726276
J0325-1552	J1GE	MONOPITCH SUPPORTED	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:41 2025 Page 1

ID:tpZlv46Jpk9SvtrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f  
10-0-0  
10-0-0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 60 lb	FT = 20%

**LUMBER-**

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

**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.**

All bearings 10-0-0.  
(lb) - Max Horz 2=127(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9 except 10=110(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=310(LC 1)

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

WEBS 3-10=220/325

**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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 9-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9 except (jt=lb) 10=110.



April 15, 2025

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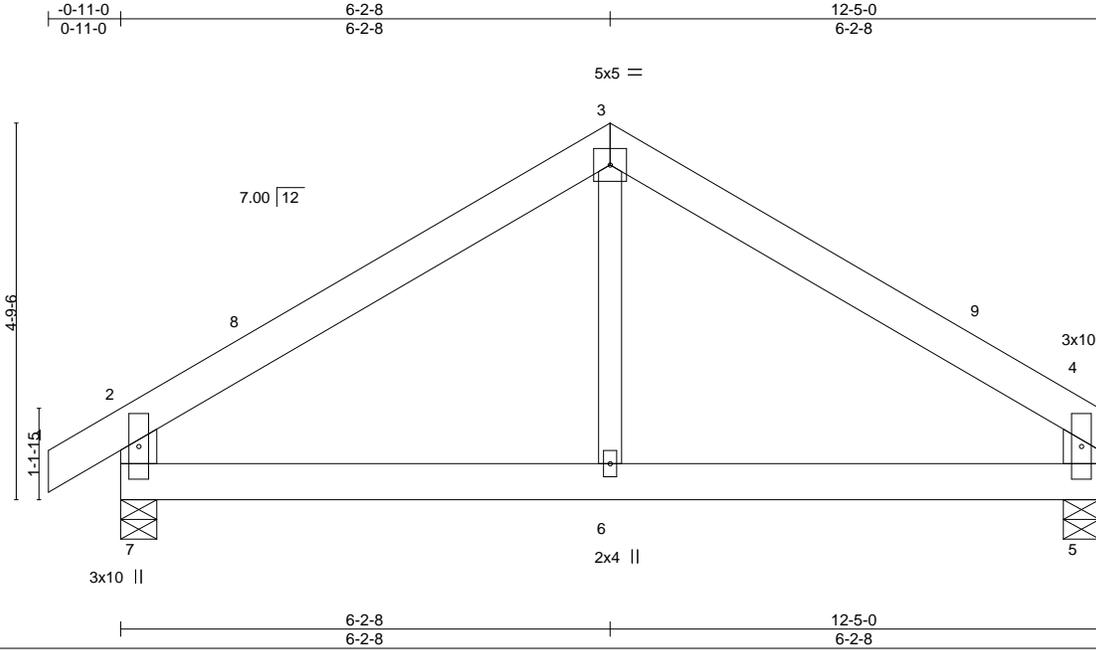


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726277
J0325-1552	K1	Common	5	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:41 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



Scale = 1:29.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01	6-7	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02	6-7	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	5	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014	Matrix-R	Wind(LL) 0.01	6-7	>999	240		Weight: 74 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 3-6: 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) 7=0-5-8, 5=0-5-8  
 Max Horz 7=94(LC 9)  
 Max Uplift 7=-41(LC 12), 5=-25(LC 13)  
 Max Grav 7=550(LC 1), 5=475(LC 1)

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

TOP CHORD 2-3=-510/173, 3-4=-504/172, 2-7=-480/251, 4-5=-399/179  
 BOT CHORD 6-7=-52/351, 5-6=-52/351

**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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 6-2-8, Exterior(2R) 6-2-8 to 10-7-5, Interior(1) 10-7-5 to 12-2-4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



April 15, 2025

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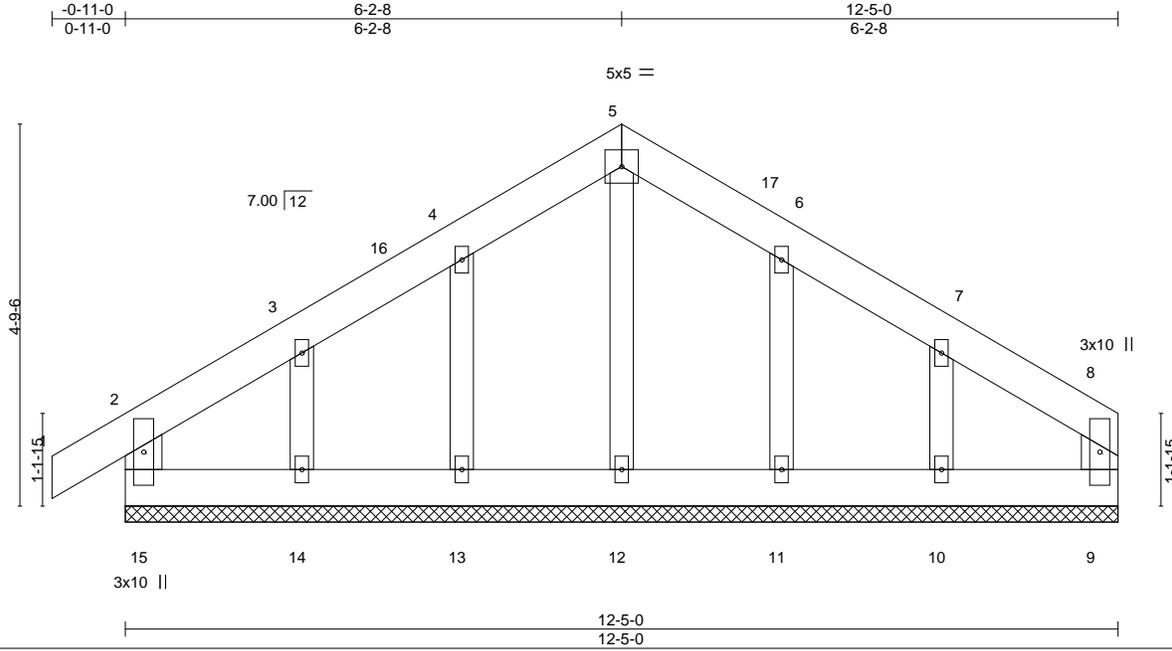


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726278
J0325-1552	K1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:42 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



Scale = 1:28.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 9 n/a n/a	Weight: 87 lb	FT = 20%
	Code IRC2021/TPI2014				

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.2	

**REACTIONS.** All bearings 12-5-0.  
 (lb) - Max Horz 15=118(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 15, 9, 13, 11 except 14=120(LC 12), 10=116(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 15, 9, 12, 13, 14, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-0 to 3-5-13, Exterior(2N) 3-5-13 to 6-2-8, Corner(3R) 6-2-8 to 10-7-5, Exterior(2N) 10-7-5 to 12-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9, 13, 11 except (jt=lb) 14=120, 10=116.



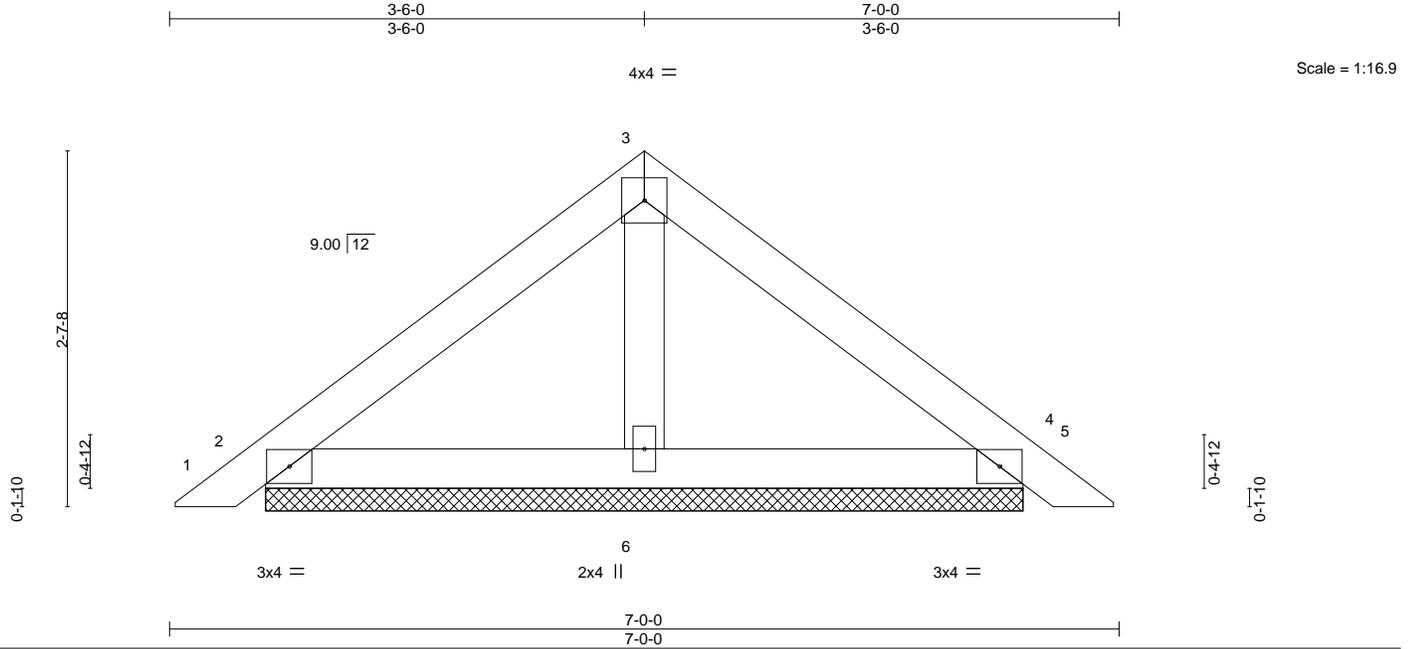
April 15, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	 <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726279
J0325-1552	PB1	PIGGYBACK	31	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:42 2025 Page 1  
ID:tpZlv46Jpk9SvtrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 24 lb	FT = 20%
	Code IRC2021/TPI2014							

**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=5-7-0, 4=5-7-0, 6=5-7-0  
Max Horz 2=58(LC 11)  
Max Uplift 2=-27(LC 12), 4=-32(LC 13)  
Max Grav 2=154(LC 1), 4=154(LC 1), 6=191(LC 1)

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

**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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 15, 2025

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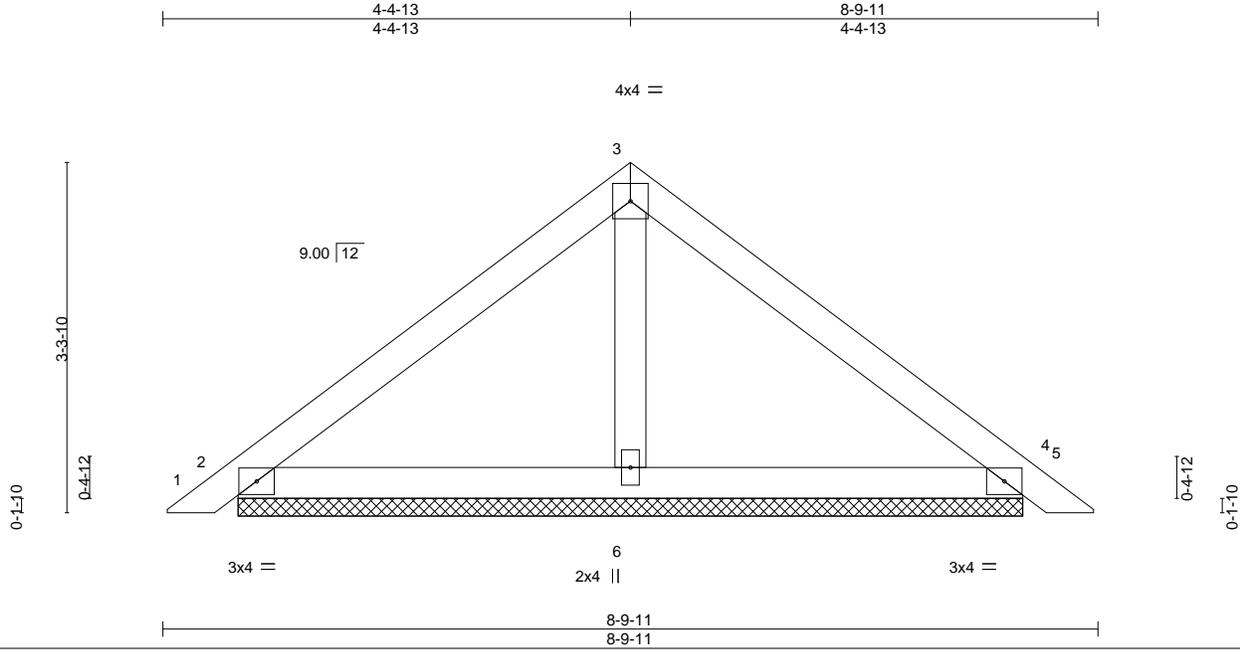


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726280
J0325-1552	PB2	Piggyback	7	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:43 2025 Page 1  
 ID:tpZlv46Jpk9SvtrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



Scale = 1:21.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.01 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) 0.01 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 31 lb	FT = 20%
	Code IRC2021/TPI2014				

**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=7-4-11, 4=7-4-11, 6=7-4-11  
 Max Horz 2=-74(LC 10)  
 Max Uplift 2=-33(LC 12), 4=-40(LC 13)  
 Max Grav 2=195(LC 1), 4=195(LC 1), 6=255(LC 1)

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

**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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



April 15, 2025

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818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726281
J0325-1552	PB2GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:43 2025 Page 1  
 ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?F

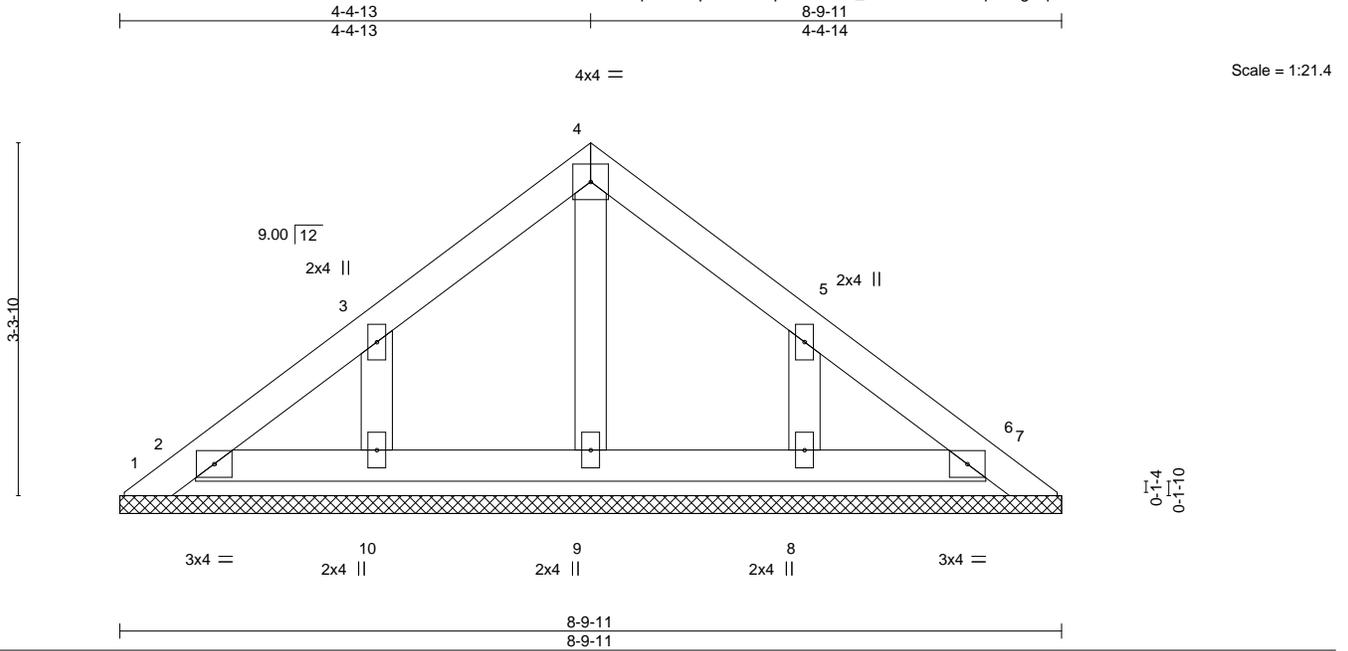


Plate Offsets (X,Y)--	[5:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P					Weight: 34 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

**REACTIONS.** All bearings 8-9-11.  
 (lb) - Max Horz 1=93(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except 10=110(LC 12), 8=109(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6 except (jt=lb) 10=110, 8=109.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

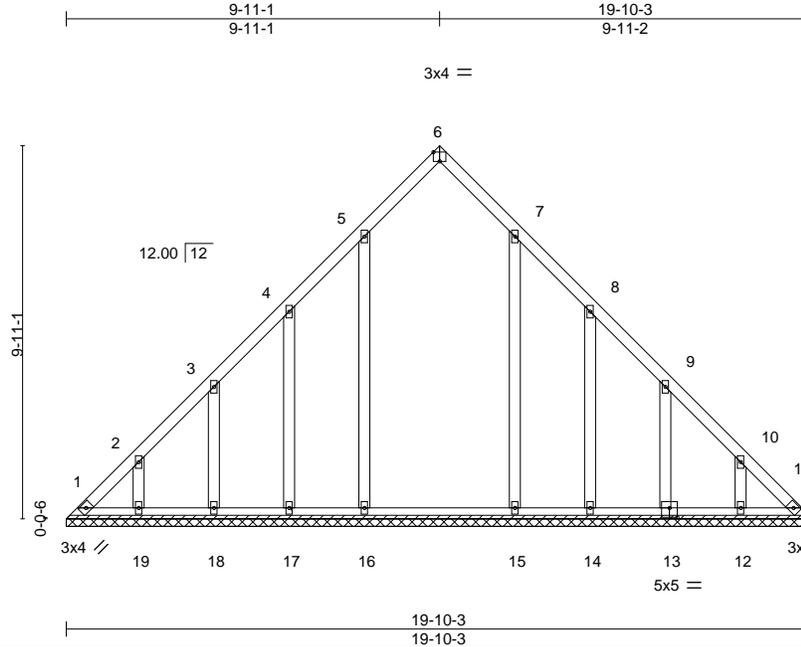


April 15, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 8 Graham Mill Lane	172726282
J0325-1552	VB1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 14 00:33:44 2025 Page 1  
ID:tpZlv46Jpk9SvtxrZpWkKFzu5\_4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F



Scale = 1:60.9

Plate Offsets (X,Y)-- [6:0-2-0,Edge], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [13:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S					Weight: 122 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.**

All bearings 19-10-3.  
(lb) - Max Horz 1=-287(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 16=-107(LC 12), 17=-156(LC 12), 18=-136(LC 12), 19=-139(LC 12), 15=-100(LC 13), 14=-159(LC 13), 13=-139(LC 13), 12=-142(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 14, 13, 12 except 1=336(LC 12), 11=337(LC 13), 16=368(LC 19), 15=359(LC 20)

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

TOP CHORD 1-2=-495/228, 2-3=-372/159, 9-10=-372/165, 10-11=-496/234  
BOT CHORD 1-19=-168/372, 18-19=-168/372, 17-18=-168/372, 16-17=-168/372, 15-16=-168/372, 14-15=-168/372, 13-14=-168/372, 12-13=-172/377, 11-12=-172/377

**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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-11-1, Exterior(2R) 9-11-1 to 14-3-14, Interior(1) 14-3-14 to 19-5-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 16=107, 17=156, 18=136, 19=139, 15=100, 14=159, 13=139, 12=142.



April 15, 2025

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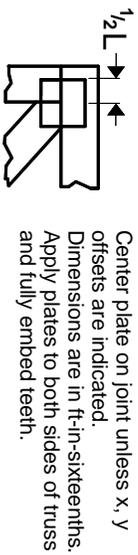
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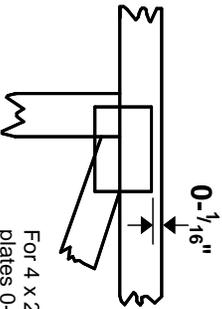
818 Soundside Road  
Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16\" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

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

## PLATE SIZE

4 X 4

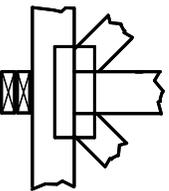
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

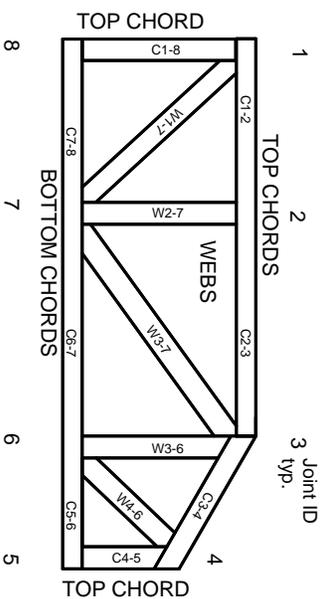


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: 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 section 6.3. These truss designs rely on Lumber values established by others.

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**MITek**

ENGINEERING BY  
**TRENGO**  
A MITek Affiliate

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

# 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.