

RE: J0325-1585  
Cav&Cates/Lot 107 Ducks Landing/Harnett

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: Project Name: J0325-1585  
Lot/Block: Model:  
Address: Subdivision:  
City: State:

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6  
Wind Code: ASCE 7-16 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I72338558	A1	3/28/2025
2	I72338559	A2	3/28/2025
3	I72338560	A2A	3/28/2025
4	I72338561	A3	3/28/2025
5	I72338562	A4GDR	3/28/2025
6	I72338563	B1	3/28/2025
7	I72338564	B1GE	3/28/2025
8	I72338565	B2	3/28/2025
9	I72338566	J03	3/28/2025
10	I72338567	J03A	3/28/2025
11	I72338568	J07	3/28/2025
12	I72338569	J07A	3/28/2025
13	I72338570	J07B	3/28/2025
14	I72338571	J07C	3/28/2025
15	I72338572	LG1	3/28/2025
16	I72338573	LG2	3/28/2025
17	I72338574	M1	3/28/2025
18	I72338575	M1GE	3/28/2025
19	I72338576	P1	3/28/2025
20	I72338577	P1GE	3/28/2025

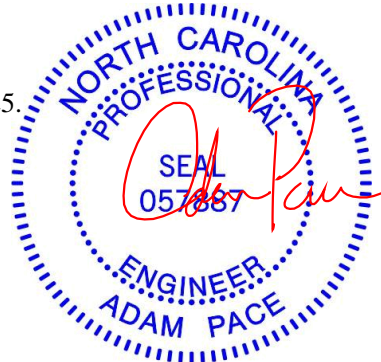
The truss drawing(s) referenced above have been prepared by  
Truss Engineering Co. under my direct supervision  
based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Pace, Adam

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



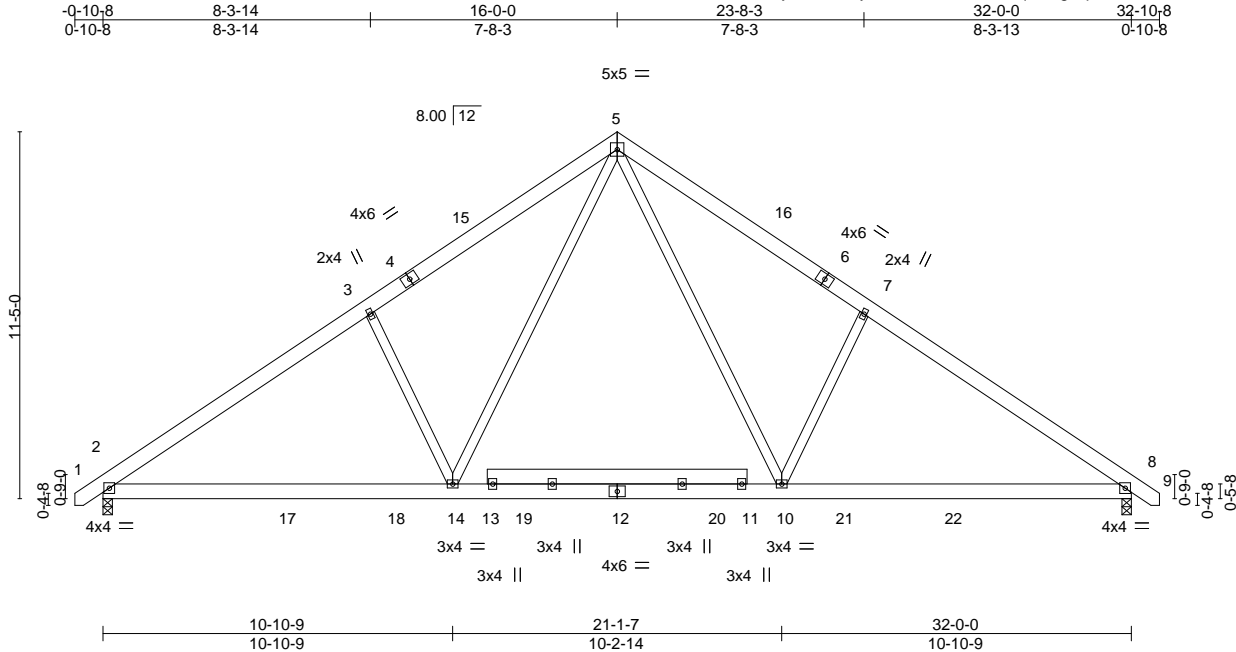
March 28, 2025

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	A1	COMMON	9	1	172338558
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:aDWe9B\_?OPf4LyLdD8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:71.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.15 2-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.26 2-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.05 2-14	>999	240	Weight: 241 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 4-11-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 2=0-3-8, 8=0-3-8  
Max Horz 2=298(LC 11)  
Max Uplift 2=-132(LC 12), 8=-132(LC 13)  
Max Grav 2=1666(LC 19), 8=1666(LC 20)

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

TOP CHORD 2-3=-2220/466, 3-5=-2089/574, 5-7=-2089/574, 7-8=-2220/466  
BOT CHORD 2-14=-249/1950, 10-14=-7/1279, 8-10=-233/1749  
WEBS 5-10=-222/1109, 7-10=-475/358, 5-14=-222/1109, 3-14=-475/358

**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=25ft; 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 16-0-0, Exterior(2R) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2 and 132 lb uplift at joint 8.



March 28,2025

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	A2	HIP	1	1	172338559
Job Reference (optional)					

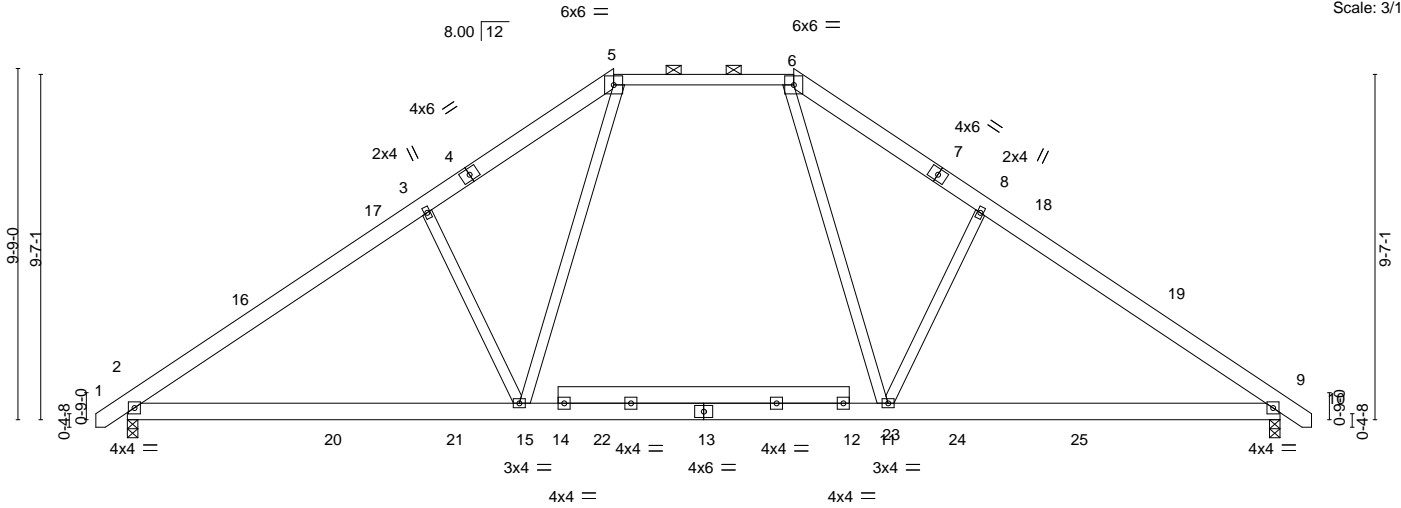
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-0-10-8 8-3-14 13-6-0 18-6-0 23-8-2 32-0-0 32-10-8  
0-10-8 8-3-14 5-2-2 5-0-0 5-2-2 8-3-14 0-10-8

Scale: 3/16"=1'



		10-10-9		21-1-7		32-0-0			
		10-10-9		10-2-14		10-10-9			
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 0.39	Vert(LL)	-0.27 9-11	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.37 9-11	>999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.04 9	n/a n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S	Wind(LL)	0.22 2-15	>999 240	Weight: 228 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x6 SP No.1 \*Except\*  
5-6: 2x4 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
12-14: 2x6 SP No.1

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except  
2-0-0 oc purlins (5-0-15 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 9=0-3-8  
Max Horz 2=253(LC 10)  
Max Uplift 2=121(LC 12), 9=121(LC 13)  
Max Grav 2=1649(LC 19), 9=1649(LC 20)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2177/375, 3-5=-2014/453, 5-6=-1365/399, 6-8=-2014/461, 8-9=-2177/397  
BOT CHORD 2-15=-239/1861, 11-15=-79/1413, 9-11=-176/1718  
WEBS 3-15=-441/306, 5-15=-119/974, 6-11=-122/974, 8-11=-442/309

#### 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=25ft; 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 13-6-0, Exterior(2E) 13-6-0 to 18-6-0, Exterior(2R) 18-6-0 to 24-8-11, Interior(1) 24-8-11 to 32-8-15 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2 and 121 lb uplift at joint 9.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 28,2025

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	A2A	HIP	1	1	172338560
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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ID:aDW9B\_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

0-10-8 8-3-14 13-6-0 18-6-0 23-8-2 32-0-0  
0-10-8 8-3-14 5-2-2 5-0-0 5-2-2 8-3-14

Scale: 3/16"=1'

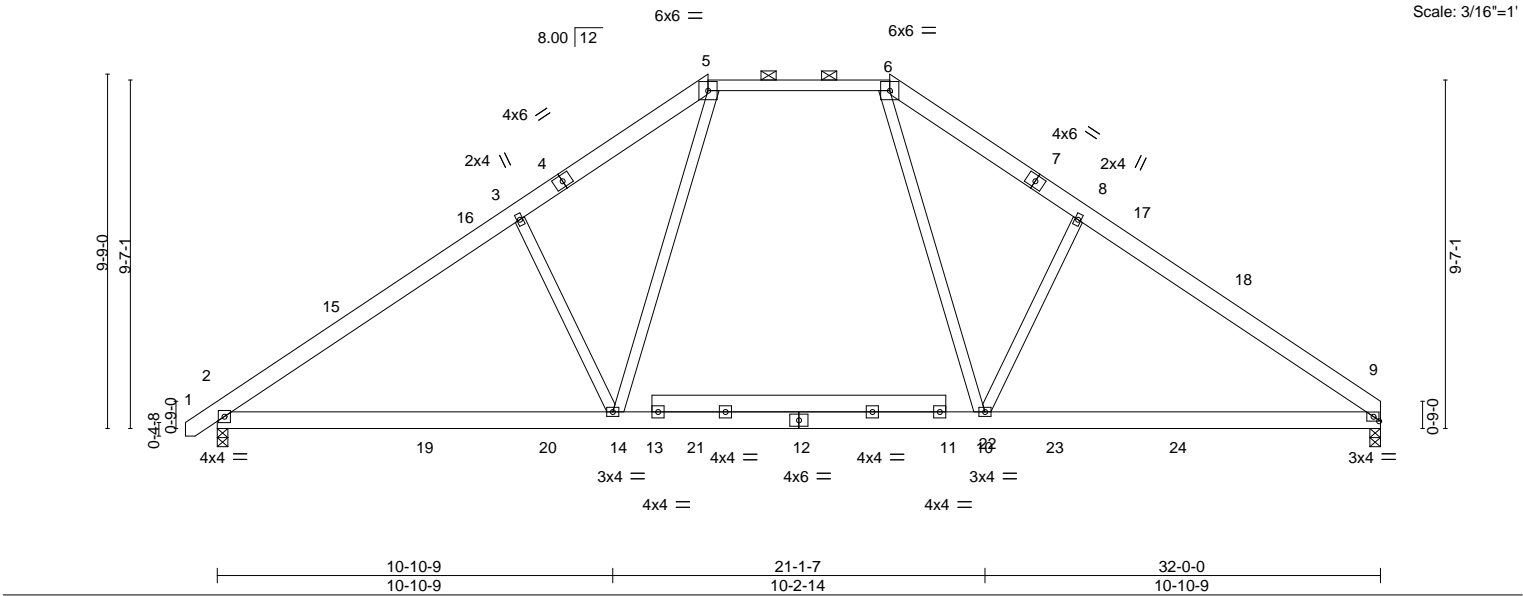


Plate Offsets (X,Y)-- [9-0-1-13,0-1-8]		10-10-9 10-10-9		21-1-7 10-2-14		32-0-0 10-10-9	
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.27 9-10 >999 360
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.38 9-10 >996 240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.04 9 n/a n/a
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.22 2-14 >999 240
						<b>PLATES</b>	<b>GRIP</b>
						MT20	244/190
						Weight: 226 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
5-6: 2x4 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
11-13: 2x6 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except  
2-0-0 oc purlins (5-0-15 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 9=0-3-8, 2=0-3-8  
Max Horz 2=251(LC 9)  
Max Uplift 9=-106(LC 13), 2=-121(LC 12)  
Max Grav 9=1598(LC 20), 2=1649(LC 19)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2178/380, 3-5=-2015/458, 5-6=-1366/403, 6-8=-2017/473, 8-9=-2180/406  
BOT CHORD 2-14=-253/1859, 10-14=-93/1410, 9-10=-201/1720  
WEBS 3-14=-441/305, 5-14=-120/973, 6-10=-123/977, 8-10=-443/313

**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=25ft; 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 13-6-0, Exterior(2E) 13-6-0 to 18-6-0, Exterior(2R) 18-6-0 to 24-8-11, Interior(1) 24-8-11 to 31-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 9 and 121 lb uplift at joint 2.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 28,2025

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ENGINEERING BY  
**TRENCO**  
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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	A3	HIP	2	1	172338561
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

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0-10-8 5-8-6 11-0-0 21-0-0 26-3-11 32-0-0 32-10-8  
0-10-8 5-8-6 5-3-11 10-0-0 5-3-11 5-8-5 0-10-8

Scale = 1:57.8

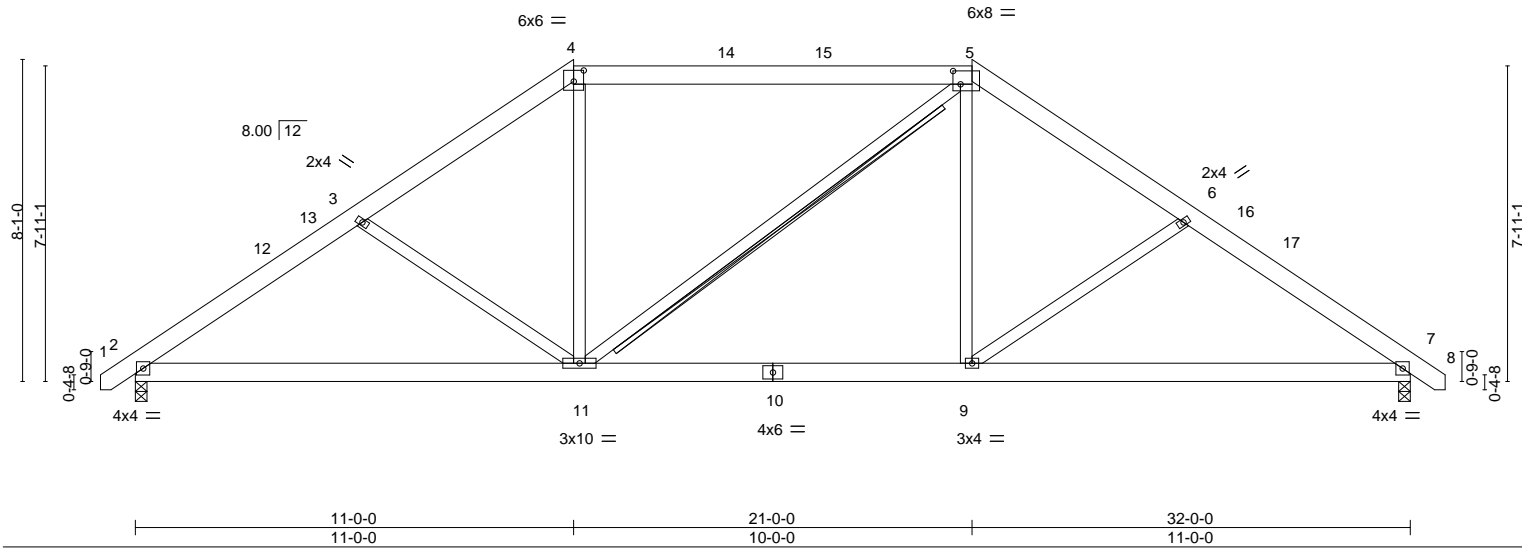


Plate Offsets (X,Y)--		[4:0-3-0,0-3-5], [5:0-2-4,0-4-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55
TCDL 10.0	Lumber DOL	1.15	BC 0.49
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.10 9-11 >999 360
		Vert(CT)	-0.21 7-9 >999 240
		Horz(CT)	0.04 7 n/a n/a
		Wind(LL)	0.03 11 >999 240
		PLATES	GRIP
		MT20	244/190
		Weight: 223 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins, except 2-0-0 oc purlins (5-5-11 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 T-Brace: 2x4 SPF No.2 - 5-11
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS.	(size) 2=0-3-8, 7=0-3-8
	Max Horz 2=207(LC 10)
	Max Uplift 2=107(LC 12), 7=107(LC 13)
	Max Grav 2=1457(LC 19), 7=1480(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1986/437, 3-4=-1789/395, 4-5=-1451/406, 5-6=-1831/395, 6-7=-2026/437
BOT CHORD	2-11=-315/1670, 9-11=-101/1487, 7-9=-275/1602
WEBS	3-11=-277/219, 4-11=0/573, 5-9=0/660, 6-9=-275/219

- 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=25ft; 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 11-0-0, Exterior(2R) 11-0-0 to 17-2-11, Interior(1) 17-2-11 to 21-0-0, Exterior(2R) 21-0-0 to 27-2-11, Interior(1) 27-2-11 to 32-8-15 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2 and 107 lb uplift at joint 7.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 28,2025

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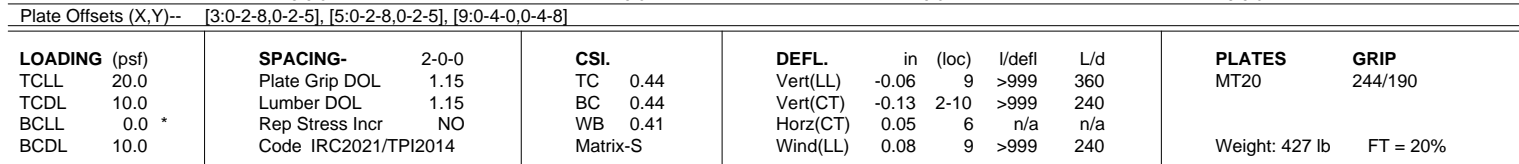


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-0-10-8	8-6-0	16-0-0	23-6-0	32-0-0	32-10-8
0-10-8	8-6-0	7-6-0	7-6-0	8-6-0	0-10-8

Scale = 1:57.8



**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
 Max Horz 2=-163(LC 6)  
 Max Uplift 2=-770(LC 8), 6=-770(LC 9)  
 Max Grav 2=2870(LC 35), 6=2870(LC 36)

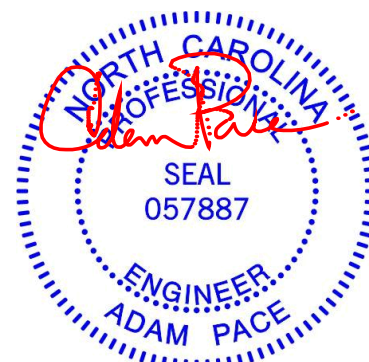
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4145/1259, 3-4=-3358/1097, 4-5=-3358/1097, 5-6=-4145/1259  
 BOT CHORD 2-10=-1071/3367, 9-10=-1498/4390, 8-9=-1498/4390, 6-8=-982/3322  
 WEBS 3-10=-191/1494, 4-10=-1314/652, 4-9=0/578, 4-8=-1314/651, 5-8=-190/1494

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - 3) Unbalanced roof live loads have been considered for this design.
  - 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - 5) Provide adequate drainage to prevent water ponding.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 770 lb uplift at joint 2 and 770 lb uplift at joint 6.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 114 lb up at 2-6-12, 151 lb down and 106 lb up at 4-6-12, 150 lb down and 125 lb up at 6-6-12, 178 lb down and 189 lb up at 8-6-0, 183 lb down and 185 lb up at 10-6-12, 183 lb down and 185 lb up at 12-6-12, 183 lb down and 185 lb up at 14-6-12, 183 lb down and 185 lb up at 16-0-0, 183 lb down and 185 lb up at 17-5-4, 183 lb down and 185 lb up at 19-5-4, 183 lb down and 185 lb up at 21-5-4, 178 lb down and 189 lb up at 23-6-0, 150 lb down and 125 lb up at 25-5-4, and 151 lb down and 106 lb up at 27-5-4, and 116 lb down and 114 lb up at 29-5-4 on top chord, and 118 lb down at 2-6-12, 82 lb down at 4-6-12, 83 lb down at 6-6-12, 88 lb down at 8-6-12, 88 lb down at 10-6-12, 88 lb down at 12-6-12, 88 lb down at 14-6-12, 88 lb down at 16-0-0, 88 lb down at 17-5-4, 88 lb down at 19-5-4, 88 lb down at 21-5-4, 88 lb down at 23-5-4, 83 lb down at 25-5-4, and 82 lb down at 27-5-4, and 118 lb down at 29-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Hamett
J0325-1585	A4GDR	HIP GIRDER	2	2	172338562
					Job Reference (optional)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20
- Concentrated Loads (lb)
- Vert: 3=-128(F) 5=-128(F) 10=-44(F) 9=-44(F) 8=-44(F) 4=-128(F) 11=-76(F) 12=-111(F) 13=-110(F) 14=-128(F) 15=-128(F) 16=-128(F) 17=-128(F) 18=-128(F) 19=-128(F) 20=-110(F) 21=-111(F) 22=-76(F) 23=-97(F) 24=-61(F) 26=-62(F) 27=-44(F) 28=-44(F) 30=-44(F) 31=-44(F) 33=-44(F) 34=-44(F) 35=-62(F) 37=-61(F) 38=-97(F)

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	B1	COMMON	7	1	172338563
Job Reference (optional)					

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8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:24 2025 Page 1  
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-0-10-8 6-6-0 11-0-0 15-6-0 22-0-0 22-10-8  
0-10-8 6-6-0 4-6-0 4-6-0 6-6-0 0-10-8

4x6 =

Scale = 1:59.9

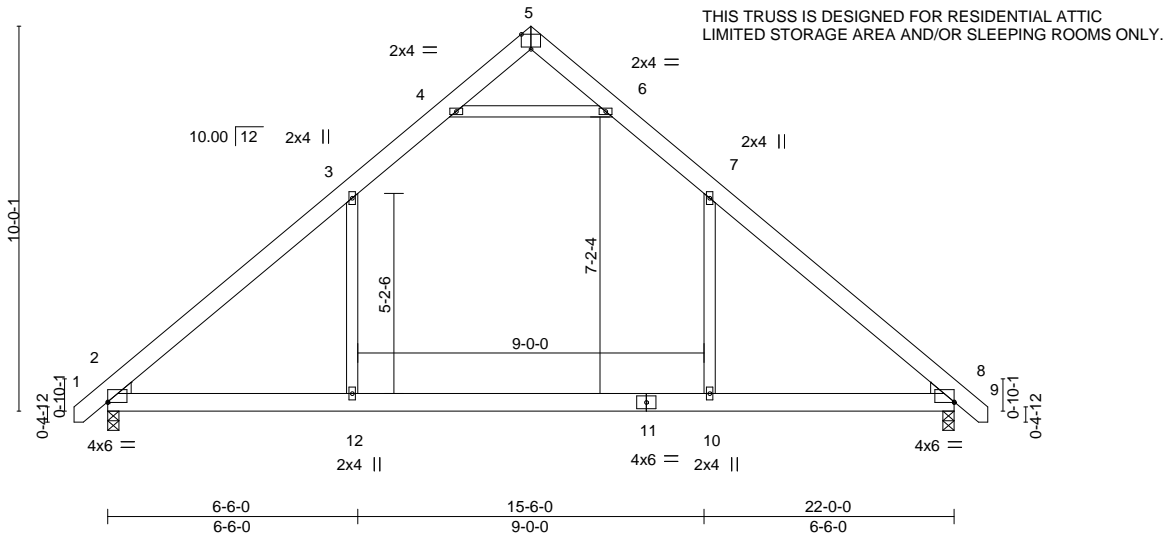


Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [5:0-3-0,Edge], [8:Edge,0-0-3]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.23 10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.34 10-12	>772	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02 8	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.16 2-12	>999	240	Weight: 148 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 8=0-3-8  
Max Horz 2=-262(LC 10)  
Max Uplift 2=-85(LC 12), 8=-85(LC 13)  
Max Grav 2=1150(LC 19), 8=1150(LC 20)

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

TOP CHORD 2-3=-1431/252, 3-4=-865/326, 4-5=-100/395, 5-6=-100/396, 6-7=-865/326,  
7-8=-1431/252  
BOT CHORD 2-12=-22/963, 10-12=-22/963, 8-10=-22/963  
WEBS 3-12=0/585, 7-10=0/585, 4-6=-1353/522

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 11-0-0, Exterior(2R) 11-0-0 to 15-7-12, Interior(1) 15-7-12 to 22-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 2 and 85 lb uplift at joint 8.



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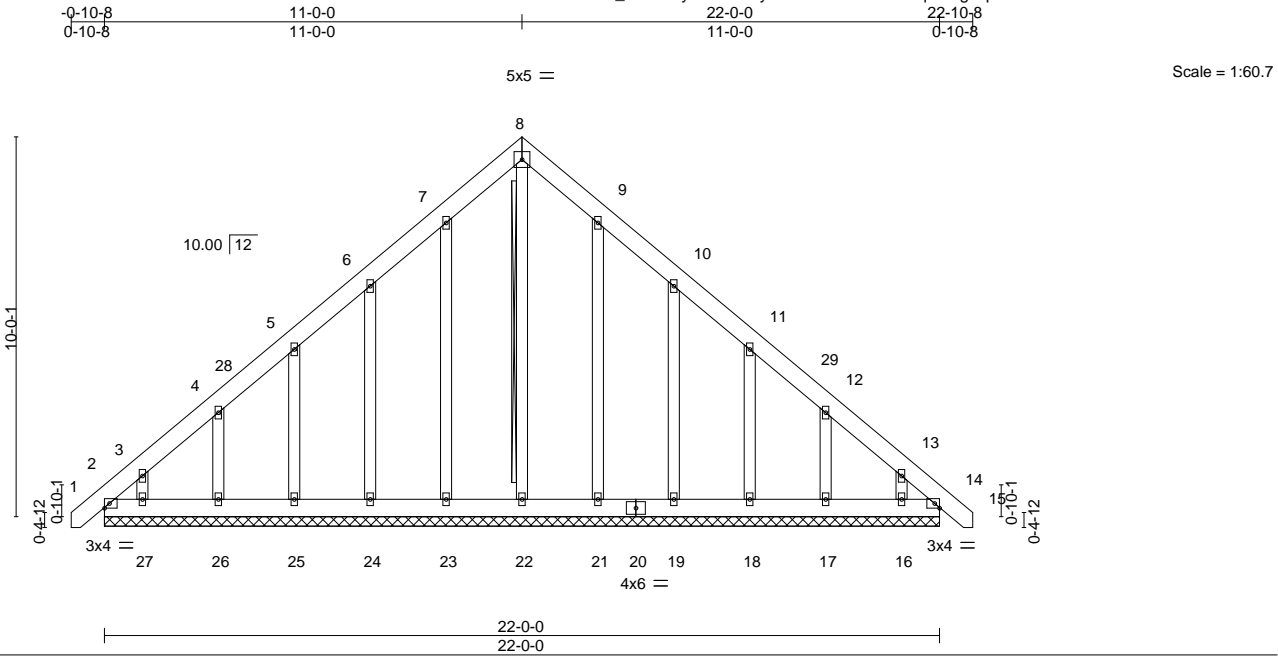


Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	B1GE	GABLE	1	1	172338564
Job Reference (optional)					

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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)	-0.00	14	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	14	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	14	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 199 lb	FT = 20%

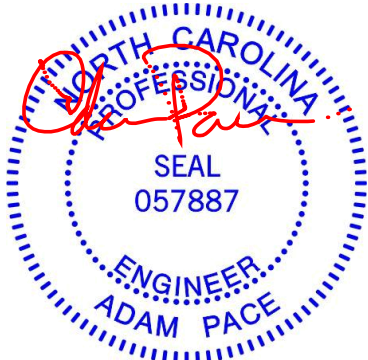
**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS T-Brace: 2x4 SPF No.2 - 8-22  
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
Brace must cover 90% of web length.

**REACTIONS.** All bearings 22-0-0.  
(lb) - Max Horz 2=327(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 14, 23, 21 except 2=157(LC 10), 24=142(LC 12), 25=127(LC 12), 26=137(LC 12), 27=185(LC 12), 19=145(LC 13), 18=127(LC 13), 17=136(LC 13), 16=172(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 14, 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16 except 2=291(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-434/274, 3-4=-295/216, 7-8=-164/271, 8-9=-164/271, 13-14=-370/179  
BOT CHORD 2-27=-130/290, 26-27=-130/290, 25-26=-130/290, 24-25=-130/290, 23-24=-130/290, 22-23=-130/290, 21-22=-130/290, 19-21=-130/290, 18-19=-130/290, 17-18=-130/290, 16-17=-130/290, 14-16=-130/290

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-1 to 3-7-12, Exterior(2N) 3-7-12 to 11-0-0, Corner(3R) 11-0-0 to 15-4-13, Exterior(2N) 15-4-13 to 22-9-1 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) 14, 23, 21 except (it=lb) 2=157, 24=142, 25=127, 26=137, 27=185, 19=145, 18=127, 17=136, 16=172.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	B2	COMMON	4	1	172338565
Job Reference (optional)					

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4x6 =

Scale = 1:59.9

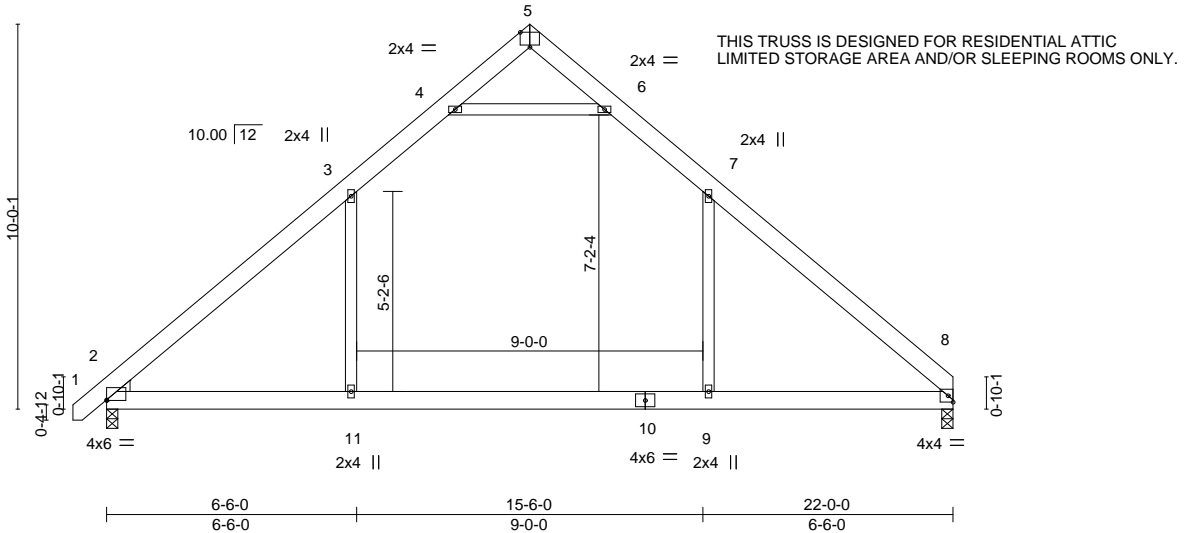


Plate Offsets (X,Y)--		[2:0-0-0,0-0-3], [5:0-3-0,Edge]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b> <b>GRIP</b>			
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.23 9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.34 9-11	>765	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02 8	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.16 2-11	>999	240	Weight: 145 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 8=0-3-8, 2=0-3-8  
Max Horz 2=259(LC 9)  
Max Uplift 8=69(LC 13), 2=-85(LC 12)  
Max Grav 8=1098(LC 20), 2=1151(LC 19)

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

TOP CHORD 2-3=-1434/254, 3-4=-866/326, 4-5=-104/399, 5-6=-102/399, 6-7=-867/328,  
7-8=-1425/249  
BOT CHORD 2-11=-45/960, 9-11=-45/960, 8-9=-45/960  
WEBS 3-11=0/587, 7-9=0/576, 4-6=-1361/529

**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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 11-0-0, Exterior(2R) 11-0-0 to 15-7-12, Interior(1) 15-7-12 to 21-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 8, 2.



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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	J03	JACK-OPEN	8	1	172338566
					Job Reference (optional)

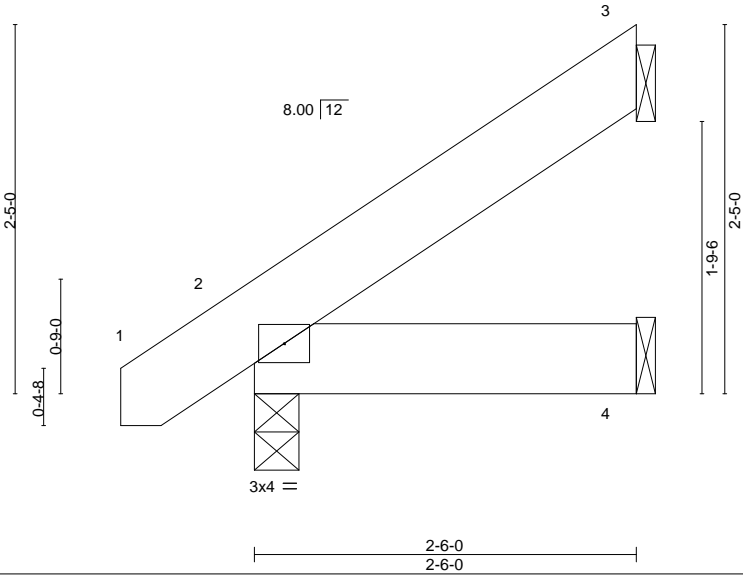
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8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:25 2025 Page 1

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Scale = 1:15.1



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	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 16 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=75(LC 12)  
Max Uplift 3=-52(LC 12), 2=-5(LC 12)  
Max Grav 3=71(LC 19), 2=155(LC 1), 4=46(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 3, 2.



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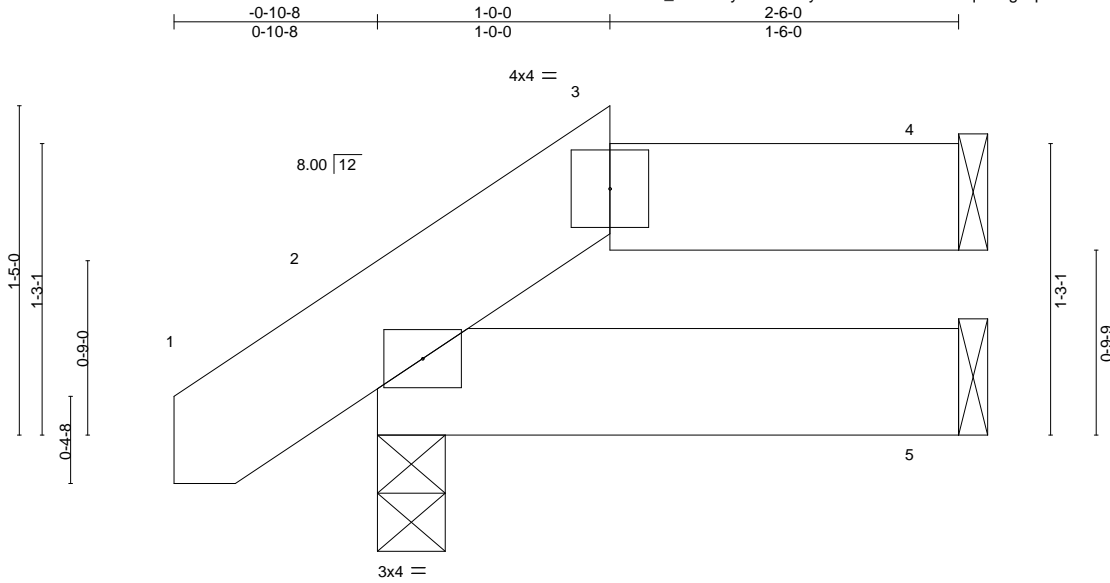
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	J03A	JACK-OPEN	4	1	172338567
Job Reference (optional)					

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ID:aDWe9B\_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:9.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	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)	-0.00	2	>999	240	Weight: 15 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
Max Horz 2=37(LC 12)  
Max Uplift 4=23(LC 9), 2=21(LC 12)  
Max Grav 4=58(LC 1), 2=155(LC 1), 5=42(LC 3)

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

#### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 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) 4, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 28,2025

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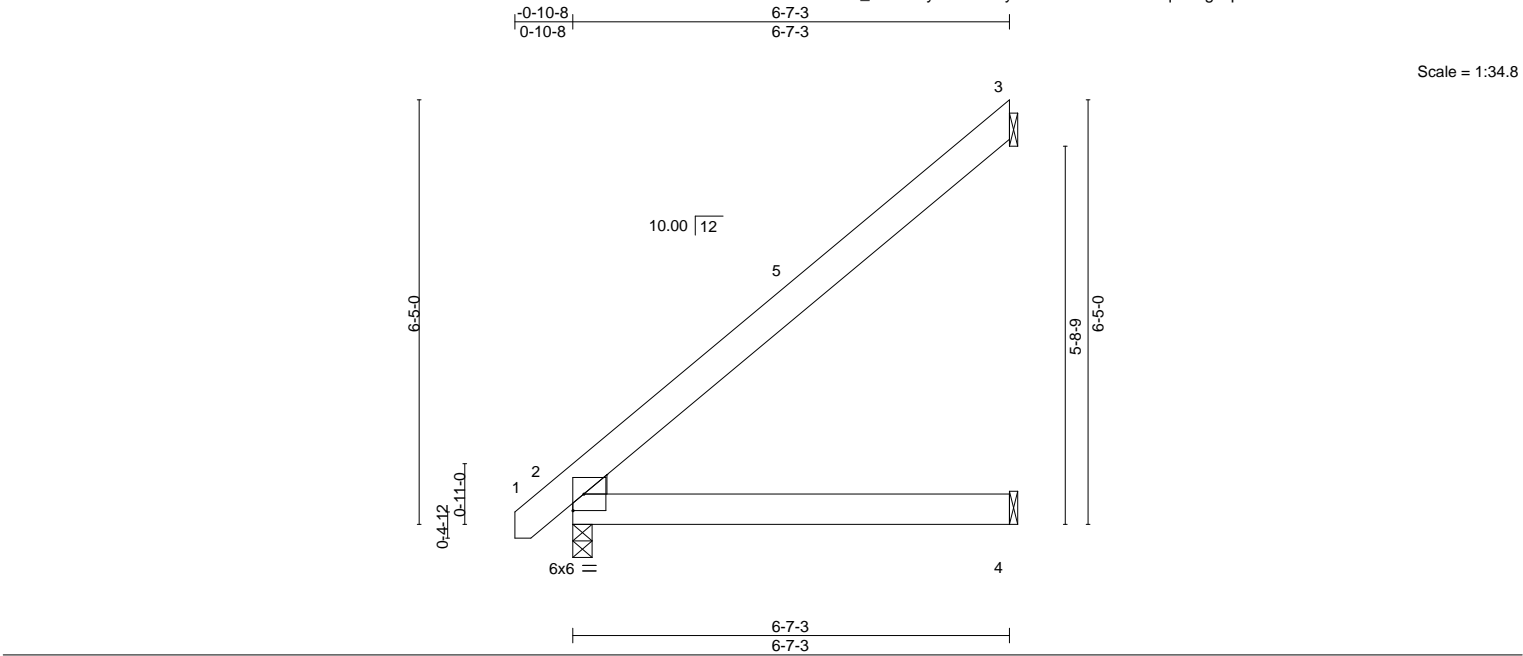
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	J07	JACK-OPEN	18	1	172338568
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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ID:aDWe9B\_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f



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 0.46	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 39 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=219(LC 12)  
Max Uplift 3=173(LC 12)  
Max Grav 3=228(LC 19), 2=313(LC 1), 4=128(LC 3)

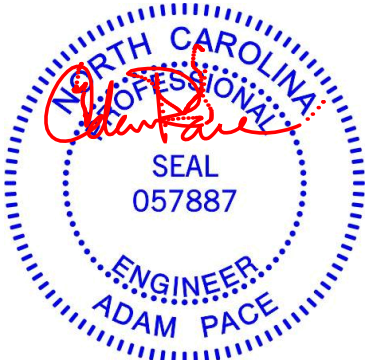
FORCES.

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

TOP CHORD 2-3=-348/163

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 6-6-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-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) 3=173.



March 28,2025

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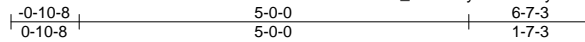
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	J07A	HALF HIP	4	1	172338569
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:aDWe9B\_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f



Scale = 1:29.6

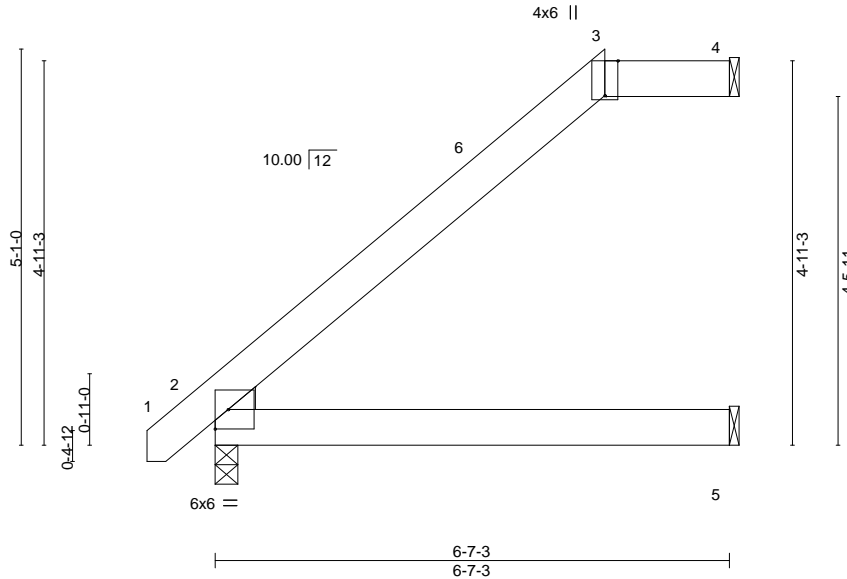


Plate Offsets (X,Y)--		[3:0-5-6,Edge]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28
TCDL 10.0	Lumber DOL	1.15	BC 0.25
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P
			<b>DEFL.</b> in (loc) l/defl L/d
			Vert(LL) -0.02 2-5 >999 360
			Vert(CT) -0.04 2-5 >999 240
			Horz(CT) -0.06 4 n/a n/a
			Wind(LL) 0.04 2-5 >999 240
			<b>PLATES</b> MT20
			<b>GRIP</b> 244/190
			Weight: 38 lb FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
Max Horz 2=169(LC 12)  
Max Uplift 4=89(LC 12)  
Max Grav 4=170(LC 1), 2=313(LC 1), 5=123(LC 3)

**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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 5-0-0, Exterior(2E) 5-0-0 to 6-6-7 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.
- 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) 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 28, 2025

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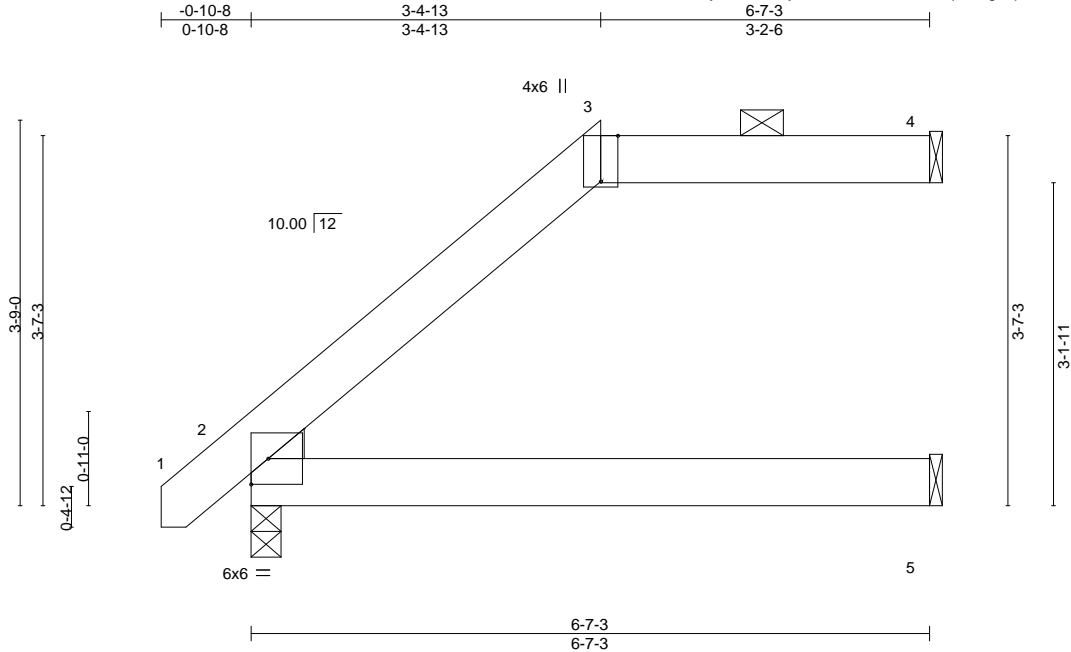


Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	J07B	HALF HIP	4	1	172338570
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID:aDWe9B\_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:22.4

Plate Offsets (X,Y)--		[3:0-5-6,Edge]										
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	0.21	Vert(LL)	-0.02	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.04	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.07	4	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-P		Wind(LL)	0.03	2-5	>999	240	Weight: 37 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
Max Horz 2=121(LC 12)  
Max Uplift 4=-70(LC 9), 2=-17(LC 12)  
Max Grav 4=171(LC 1), 2=313(LC 1), 5=122(LC 3)

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

**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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 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) 4, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 28,2025

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	J07C	HALF HIP GIRDER	4	1	172338571
Job Reference (optional)					

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:27 2025 Page 1  
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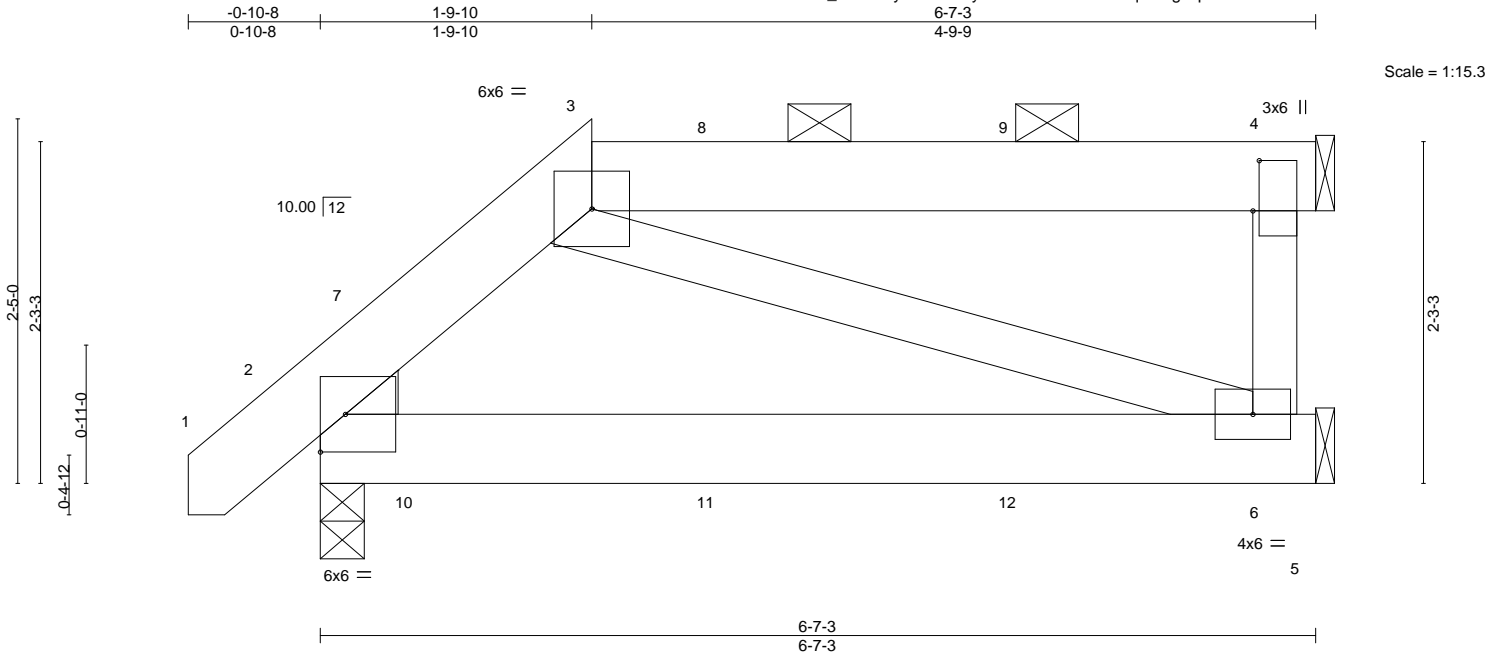


Plate Offsets (X,Y)--		[4:0-4-0,0-0-8]															
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.15		TC 0.14		Vert(LL) -0.02		2-6		>999		360		MT20		244/190	
TCDL	10.0	Lumber DOL 1.15		BC 0.18		Vert(CT) -0.04		2-6		>999		240					
BCLL	0.0 *	Rep Stress Incr NO		WB 0.05		Horz(CT) 0.00		4		n/a		n/a					
BCDL	10.0	Code IRC2021/TPI2014		Matrix-P		Wind(LL) -0.00		2		>999		240		Weight: 45 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 6=Mechanical, 2=0-3-8  
Max Horz 2=73(LC 8)  
Max Uplift 4=-78(LC 4), 2=-54(LC 8)  
Max Grav 4=136(LC 22), 6=158(LC 3), 2=318(LC 1)

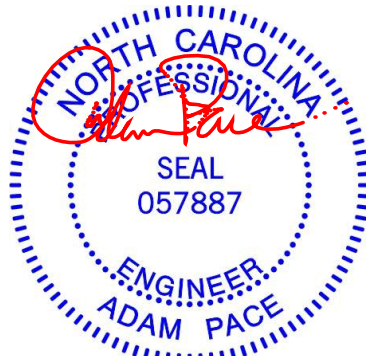
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- 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) 4, 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 38 lb down and 50 lb up at 0-7-15, and 77 lb down and 56 lb up at 2-7-15, and 78 lb down and 56 lb up at 4-7-15 on top chord, and 14 lb down at 0-7-15, and 11 lb down at 2-7-15, and 11 lb down at 4-7-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-60, 2-5=-20  
Concentrated Loads (lb)  
Vert: 7=-1(F) 10=-10(F) 11=-3(F) 12=-3(F)



March 28,2025

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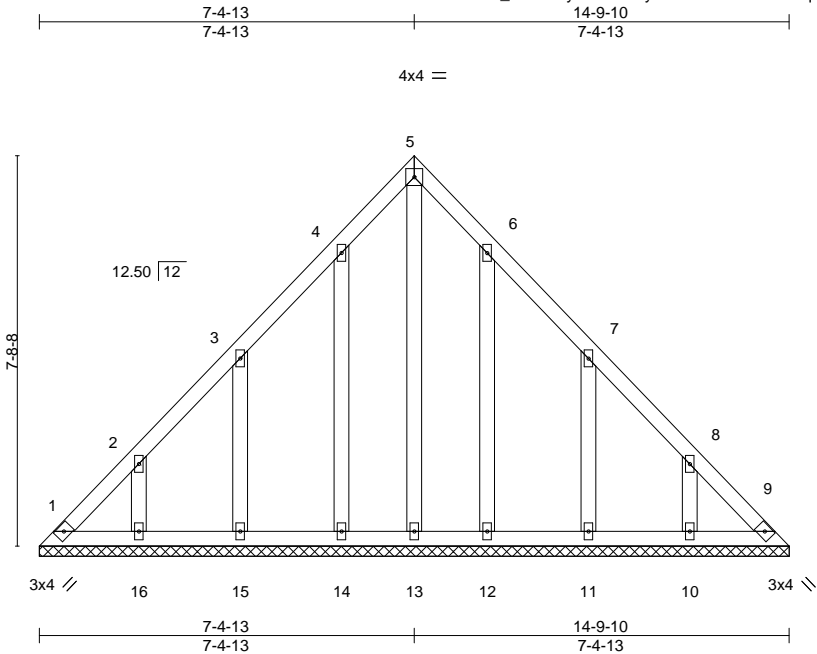
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	LG1	GABLE	2	1	172338572
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:28 2025 Page 1  
ID:aDWe9B\_?OPf4LylDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f



Scale = 1:45.5

Plate Offsets (X,Y)--		[6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	n/a - n/a 999
		Vert(CT)	n/a - n/a 999
		Horz(CT)	0.00 9 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 95 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 10-0-0 oc bracing.

**REACTIONS.**

All bearings 14-9-10.  
(lb) - Max Horz 1=199(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 12, 13 except 15=110(LC 12), 16=102(LC 12), 11=111(LC 13), 10=102(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 12, 11, 10, 13

**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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-2 to 4-8-15, Interior(1) 4-8-15 to 7-4-13, Exterior(2R) 7-4-13 to 11-9-10, Interior(1) 11-9-10 to 14-5-8 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 12, 13 except (jt=lb) 15=110, 16=102, 11=111, 10=102.



March 28,2025

**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	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	LG2	GABLE	4	1	172338573
					Job Reference (optional)

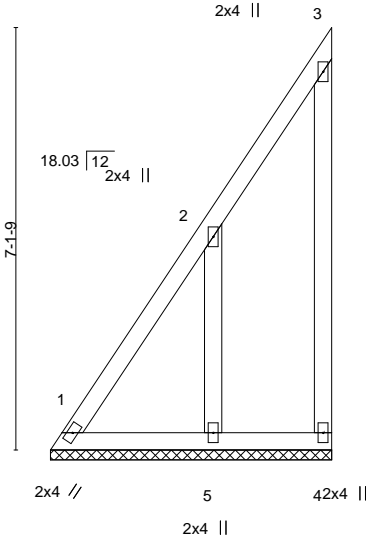
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:28 2025 Page 1

ID:aDWe9B\_?OPf4LyIdd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDdoi7J4zJC?f

4-8-15  
4-8-15

Scale = 1:38.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	-	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  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 1=4-8-15, 4=4-8-15, 5=4-8-15  
Max Horz 1=236(LC 12)  
Max Uplift 1=-90(LC 10), 4=-58(LC 12), 5=-256(LC 12)  
Max Grav 1=260(LC 12), 4=72(LC 19), 5=324(LC 19)

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

TOP CHORD 1-2=-602/469  
WEBS 2-5=-490/551

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=256.



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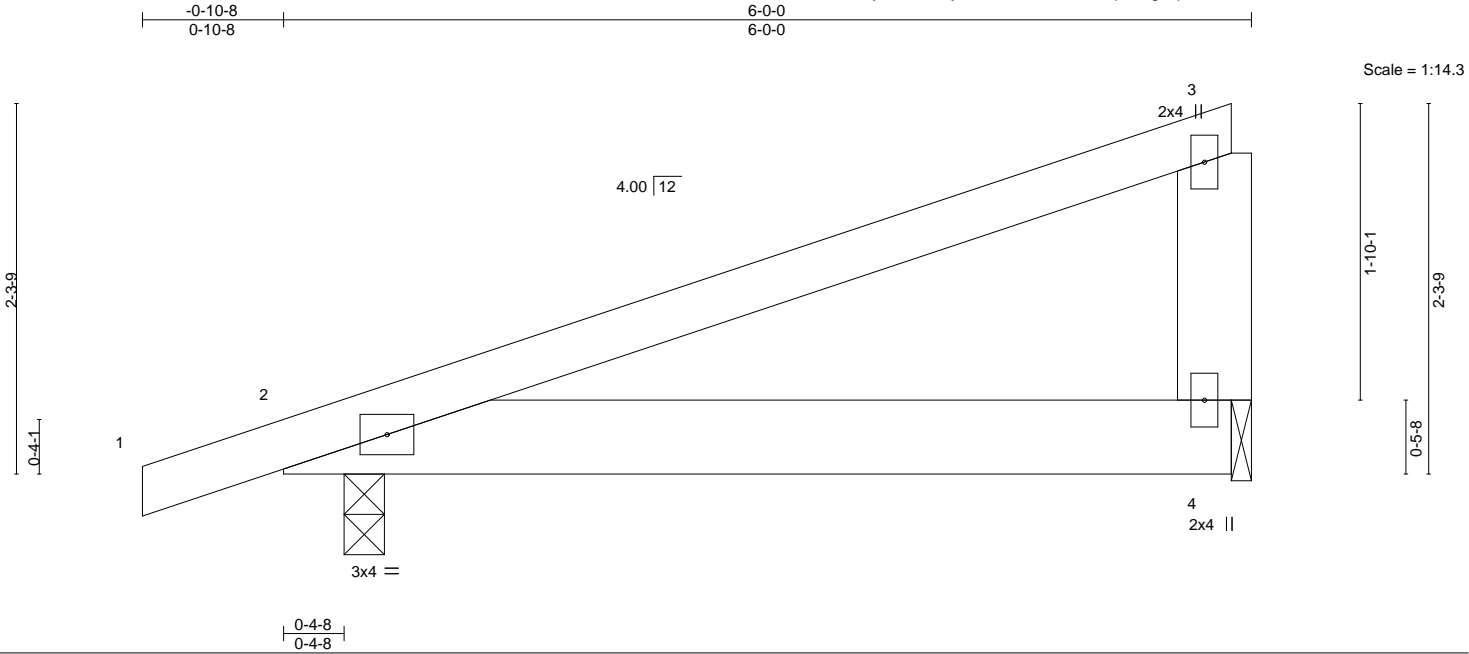
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	M1	MONOPITCH	9	1	172338574
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:28 2025 Page 1

ID:aDWe9B\_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f



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 0.47	Vert(LL)	-0.01 2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.03 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)	0.05 2-4	>999	240	Weight: 28 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 4=0-1-8, 2=0-3-0  
Max Horz 2=86(LC 8)  
Max Uplift 4=112(LC 8), 2=139(LC 8)  
Max Grav 4=221(LC 1), 2=291(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-9-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4=112, 2=139.



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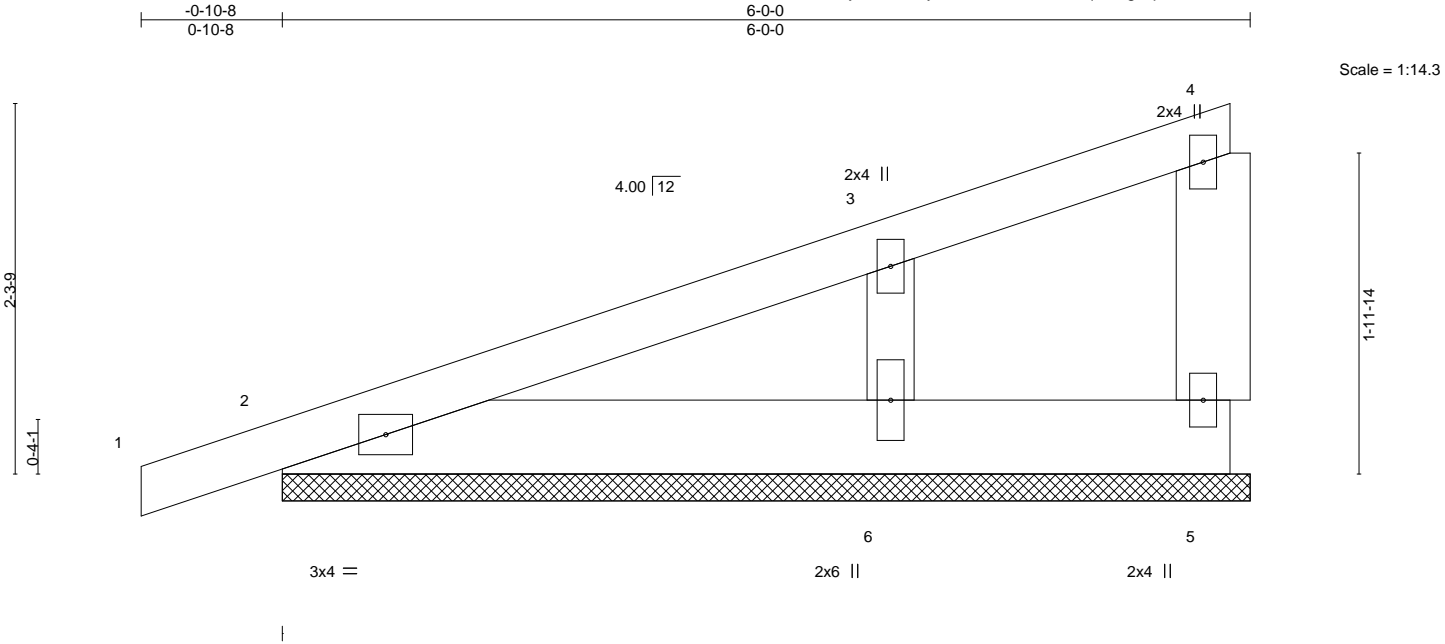
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Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	M1GE	GABLE	1	1	172338575
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:29 2025 Page 1  
ID:aDWe9B\_?OPf4LyIdD8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



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 0.18	Vert(LL)	-0.00	1	n/r	120	MT20
BCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00		n/a	n/a	
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						
									Weight: 29 lb FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 5=6-0-0, 2=6-0-0, 6=6-0-0  
Max Horz 2=121(LC 8)  
Max Uplift 5=16(LC 8), 2=-79(LC 8), 6=-123(LC 12)  
Max Grav 5=31(LC 1), 2=183(LC 1), 6=300(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 3-6=-232/478

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-9-4, Exterior(2N) 3-9-4 to 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 5, 2 except (jt=lb) 6=123.



March 28, 2025

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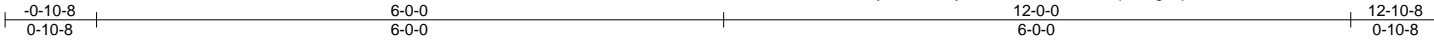


Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Hamett
J0325-1585	P1	COMMON	5	1	172338576
Job Reference (optional)					

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8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:29 2025 Page 1

ID:aDWe9B\_?OPf4LyLDd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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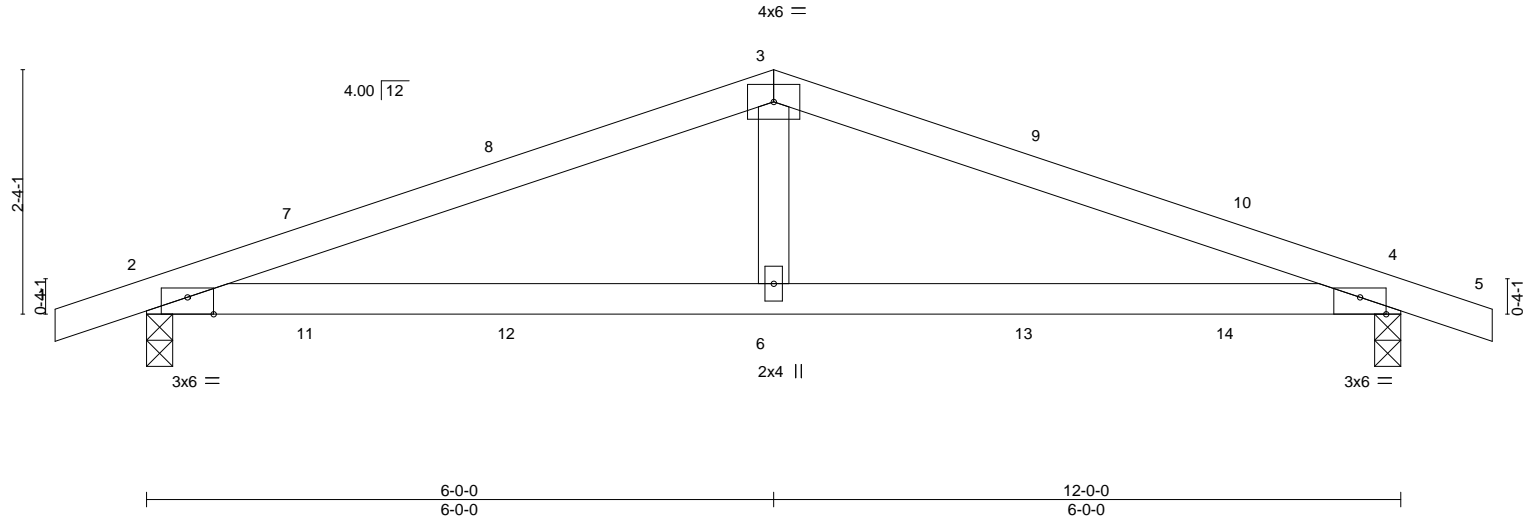


Plate Offsets (X,Y)--		[2:0-3-0,Edge], [4:0-3-0,Edge]		[6:0-0,Edge], [12:0-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL) 0.16	2-6 >892 240
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT) -0.07	2-6 >999 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT) -0.02	4 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S		
					Weight: 42 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 4-7-6 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size) 2=0-3-0, 4=0-3-0
	Max Horz 2=31(LC 16)
	Max Uplift 2=-246(LC 8), 4=-246(LC 9)
	Max Grav 2=530(LC 1), 4=530(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-866/1623, 3-4=-866/1623
BOT CHORD	2-6=-1434/765, 4-6=-1434/765
WEBS	3-6=-636/282

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 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
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=246, 4=246.



March 28,2025

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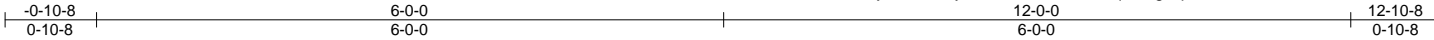
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cav&Cates/Lot 107 Ducks Landing/Harnett
J0325-1585	P1GE	GABLE	1	1	172338577
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 27 11:09:30 2025 Page 1

ID:aDWe9B\_?OPf4LyIdd8dOtsyuGQ3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDdoi7J4zJC?f



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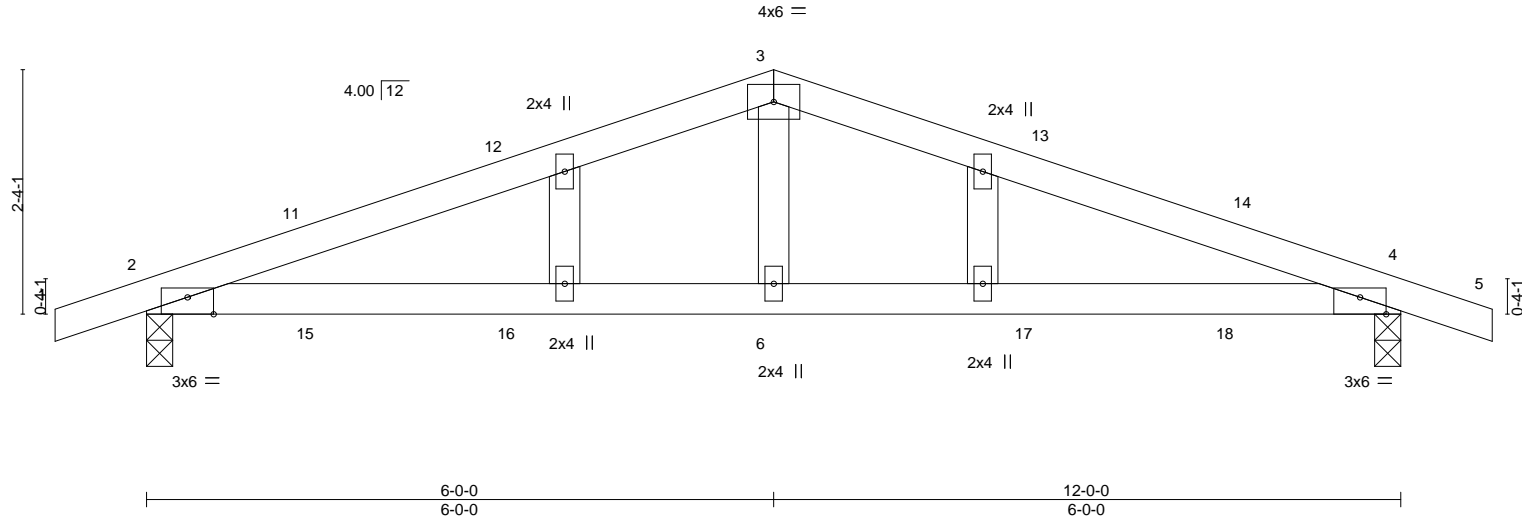


Plate Offsets (X,Y)--		[2:0-3-0,Edge], [4:0-3-0,Edge]											
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d				<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.16	2-6	>892	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-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-	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 4-7-6 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS.	(size) 2=0-3-0, 4=0-3-0
	Max Horz 2=52(LC 12)
	Max Uplift 2=-343(LC 8), 4=-343(LC 9)
	Max Grav 2=530(LC 1), 4=530(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-866/1623, 3-4=-866/1623
BOT CHORD	2-6=-1434/765, 4-6=-1434/765
WEBS	3-6=-636/282

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2=343, 4=343.



March 28,2025

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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: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: 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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# 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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