

RE: J0923-5110

Weaver/Lot 9 West Preserve/Harnett

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0923-5110

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 21 individual, dated Truss Design Drawings and 0 Additional Drawings.

\$ 3	No. 1 1 2 3 4 5 6 7 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11	Seal# 156316675 156316676 156316677 156316678 156316679 156316680 156316681 156316682 156316683 156316684 156316685 156316686 156316687 156316688 156316689 156316690 156316691 156316693	Truss Name A1 A1SE A2 A3 A4 A5 A6 A7 A8 A9 A9GE B1 B1GE C1 C2 C3 G1 G1GE G2	Date 1/26/2023	No. 21	Seal# I56316695	Truss Name PBGE	Date 1/26/2023
	19 20	I56316693 I56316694	G2 PB	1/26/2023 1/26/2023				

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: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023

North Carolina COA: C-0844

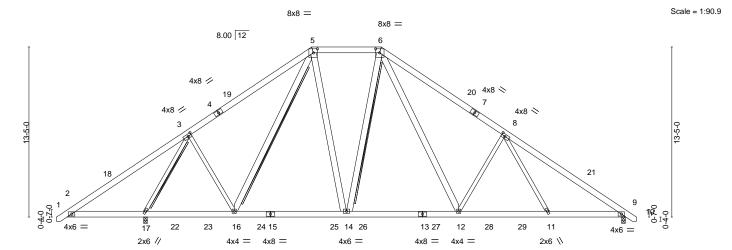
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



January 26, 2023



ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-Bci\_guyx7QQiLqdBC\_tD5Moz1PF5ohN06r6irlzrrqs 34-4-8 44-0-0 44-10-8 0-10-8 9-7-8 9-7-8 19-3-0 -0-10-8 0-10-8 9-7-8 5-5-15 9-7-8 9-7-8



	<sub>1</sub> 6-1-12 <sub>1</sub> 13-1-12	22-0-0	30-10-4	37-10-4	44-0-0	
	6-1-12 7-0-0	8-10-4	8-10-4	7-0-0	6-1-12	
Plate Offsets (X,Y)-	[3:0-3-6,0-2-1], [5:0-3-12,0-3-12], [6:0-3	-12,0-3-12], [8:0-3-6,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc)	I/defl L/d	PLATES 0	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.10 12-14	>999 360	MT20 2	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.17 12-14	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.05 9	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 12	>999 240	Weight: 395 lb	FT = 20%
					· ·	

LUMBER-BRACING-2x6 SP No.1 TOP CHORD TOP CHORD BOT CHORD 2x6 SP No.1

2x6 SP No.1 \*Except\* **BOT CHORD WEBS** 

3-17,3-16,8-12,8-11: 2x4 SP No.2

Structural wood sheathing directly applied or 4-7-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-17.

2x4 SPF No.2 - 3-17 T-Brace: 2x6 SPF No.2 - 5-16, 6-14

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) 17=0-3-8, 9=0-3-8

Max Horz 17=-320(LC 10)

Max Uplift 17=-108(LC 12), 9=-94(LC 13) Max Grav 17=2255(LC 2), 9=1725(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-405/688, 3-5=-1444/385, 5-6=-1256/435, 6-8=-2202/565, 8-9=-2628/426 **BOT CHORD** 2-17=-458/455, 16-17=-181/968, 14-16=-6/1238, 12-14=0/1314, 11-12=-218/1927,

9-11=-190/2042

**WEBS** 3-17=-2295/704, 3-16=-19/655, 8-12=-744/366, 8-11=0/310, 5-16=-278/131,

6-14=-283/186, 5-14=-75/684, 6-12=-236/1034

### NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 19-3-14, Exterior(2) 19-3-14 to 30-10-13, Interior(1) 30-10-13 to 44-8-9 zone; cantilever left exposed ;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 100 lb uplift at joint(s) 9 except (jt=lb) 17=108
- 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.



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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

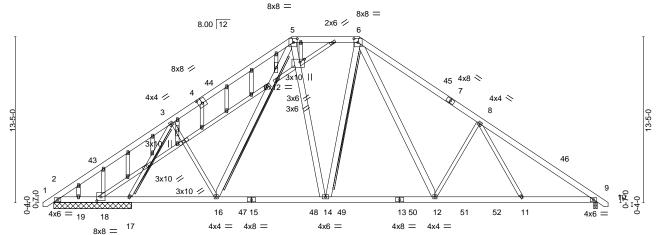
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Weaver/Lot 9 West Preserve/Harnett 156316676 J0923-5110 A1SE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:25 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-7?pl5Z\_Bf1gQa7naJOwhAntKcCxOGbhla9bowezrrqq 44-0-0 44-10-8 0-10-8 24-9-0 34-4-8 -0-10-8 0-10-8 9-7-8 9-7-8 5-5-15 9-7-8 9-7-8

Scale = 1:93.3



		6-1-12	13-1-12	22-0-0	30-10-4	37-10-4	44-0-0	
		6-1-12	7-0-0	8-10-4	8-10-4	7-0-0	6-1-12	
Plate Offs	sets (X,Y)	[4:0-4-0,0-4-8], [5:0-3-1	2,0-3-12], [6:0-3-1	2,0-3-12], [18:0-4-0,0-3-12	?], [21:0-4-4,0-2-12]			
LOADING	G (psf)	SPACING-	2-0-0	CSI.	<b>DEFL.</b> in (loc)	I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL) -0.10 12-14	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.46	Vert(CT) -0.17 12-14	>999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT) 0.05 9	n/a n/a		
BCDL	10.0	Code IRC2015/	ΓPI2014	Matrix-S	Wind(LL) 0.05 12	>999 240	Weight: 455 lb	FT = 20%

LUMBER-**BRACING-**2x6 SP No.1 TOP CHORD TOP CHORD

BOT CHORD 2x6 SP No.1 2x4 SP No.2 \*Except\* **WEBS** 

6-14,5-14,5-16,6-12: 2x6 SP No.1

**OTHERS** 2x4 SP No.2

**BOT CHORD WEBS** 

Structural wood sheathing directly applied or 4-6-15 oc purlins,

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SPF No.2 - 3-17 T-Brace: 2x6 SPF No.2 - 6-14, 5-16

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 6-3-8 except (jt=length) 9=0-3-8.

(lb) -Max Horz 2=-400(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2 except 17=-365(LC 12), 9=-324(LC

13), 18=-120(LC 1), 19=-200(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 18 except 17=1945(LC 19),

9=1735(LC 20), 19=350(LC 19)

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

TOP CHORD 2-3=-170/365, 3-5=-1480/491, 5-6=-1288/476, 6-8=-2209/608, 8-9=-2635/468 **BOT CHORD** 

2-19=-272/297, 18-19=-272/297, 17-18=-272/297, 16-17=-226/1062, 14-16=-76/1251,

12-14=0/1309, 11-12=-266/1937, 9-11=-238/2046

**WEBS** 3-17=-2059/467, 3-16=-25/580, 8-12=-743/486, 8-11=0/309, 6-14=-272/221,

5-16=-258/131, 5-14=-110/687, 6-12=-350/1055

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 19-3-14, Exterior(2) 19-3-14 to 30-10-13, Interior(1) 30-10-13 to 44-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=365, 9=324, 18=120, 19=200.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



January 26,2023

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 overal 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316677 J0923-5110 A2 PIGGYBACK BASE 5 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:27 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

3-16, 5-13, 6-12, 8-11, 5-14, 6-13

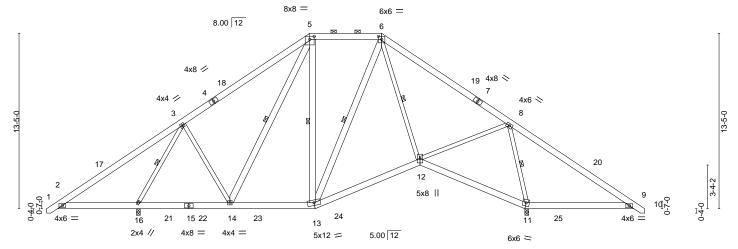
2-0-0 oc purlins (6-0-0 max.): 5-6.

1 Row at midpt

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

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-4OxVWF?RAfw8qRxzRpy9GCyff0htkYZb1S4v\_Xzrrqo 34-4-8 44-0-0 44-10-8 0-10-8 -0<sub>-</sub>10<sub>-</sub>8 0-10-8 9-7-8 5-5-15 9-7-8 9-7-8

Scale = 1:88.1



<b>⊢</b>	6-0-0 6-1 <sub>1</sub> 12 13-1-12 6-0-0 0-1-12 7-0-0	19-3-0 19-8-0 6-1-4 0-5-0	27-8-4 8-0-4	35-8-8 8-0-4	35-10-4 0-1-12	44-0-0 8-1-12	
Plate Offsets (X,Y)	[5:0-4-0,0-2-13], [6:0-3-0,0-2-12]	014 000	0 0 4	0 0 4	0 1 12	0 1 12	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES G	BRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL)	-0.04 13-14 >999	360	MT20 2	44/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT)	-0.09 12-13 >999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Horz(CT)	0.03 11 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.02 13-14 >999	240	Weight: 381 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 \*Except\*

5-13,5-14,6-13: 2x6 SP No.1

(size) 11=0-3-8, 16=0-3-8

Max Horz 16=-320(LC 10) Max Uplift 11=-118(LC 13), 16=-112(LC 12)

Max Grav 11=1938(LC 1), 16=1673(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-408/688, 3-5=-889/255, 5-6=-703/289, 6-8=-853/102, 8-9=-484/769 TOP CHORD **BOT CHORD** 2-16=-459/457, 14-16=-211/657, 13-14=-60/673, 12-13=-29/726, 11-12=-306/483,

9-11=-511/519

**WEBS** 3-16=-1650/574, 8-12=-6/825, 6-12=-53/432, 3-14=-37/358, 8-11=-1687/540

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 19-3-0, Exterior(2) 19-3-0 to 30-11-10, Interior(1) 30-11-10 to 44-8-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- 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.
- \* 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 100 lb uplift at joint(s) except (jt=lb) 11=118, 16=112.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26,2023

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

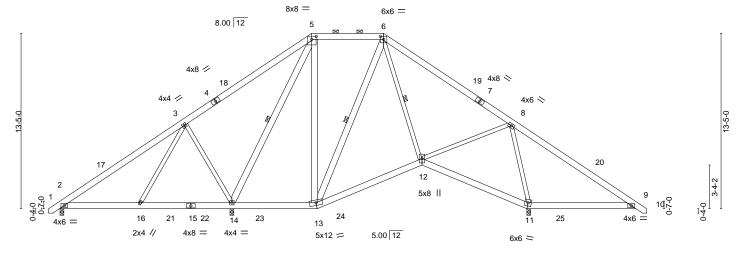
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ID:FKRF2G2VvSGFSXRUG\_ubJgzaK1d-0m3Gxx1iiGAs3l5LYE\_dLd2\_7pMOCJ5uVmZ03Pzrrqm 44-0-0 44-10-8 0-10-8 -0<sub>-</sub>10<sub>-</sub>8 0-10-8 9-7-8 5-5-15 9-7-8 9-7-8

Scale = 1:88.1



_	6-1-12   13-0-0	13-1-12	19-3-0 19 <sub>-</sub> 8-0	27-8-4	35-8-8	35-10-4	44-0-0	
	6-1-12 6-10-4	0-1"-12	6-1-4 0-5-0	8-0-4	8-0-4	0-1'-12	8-1-12	
Plate Offsets (X,Y)	[5:0-4-0,0-2-13], [6:0-3-0,0-2-	2]						
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 0.51	Vert(LL)	-0.04 12-13 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.	15	BC 0.20	Vert(CT)	-0.08 12-13 >999	240		
BCLL 0.0 *	Rep Stress Incr Y	S	WB 0.99	Horz(CT)	0.01 11 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI201	4	Matrix-S	Wind(LL)	0.02 2-16 >999	240	Weight: 381 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 \*Except\*

5-13,5-14,6-13: 2x6 SP No.1

(size) 2=0-3-8, 11=0-3-8, 14=0-3-8

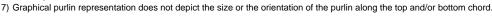
Max Horz 14=-320(LC 10)

Max Uplift 2=-56(LC 9), 11=-121(LC 13), 14=-141(LC 9) Max Grav 2=483(LC 23), 11=1674(LC 1), 14=1546(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $2-3=-455/240,\ 3-5=-59/369,\ 5-6=-384/210,\ 6-8=-493/69,\ 8-9=-484/769$ **BOT CHORD** 2-16=-71/274, 13-14=-121/314, 12-13=-125/434, 11-12=-361/496, 9-11=-511/519 **WEBS** 3-16=-292/330, 8-12=0/547, 5-13=-30/367, 6-12=-87/438, 3-14=-745/533, 8-11=-1400/466, 5-14=-859/143, 6-13=-255/25

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 19-3-0, Exterior(2) 19-3-0 to 30-11-10, Interior(1) 30-11-10 to 44-8-9 zone; cantilever right exposed; porch left exposed; 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.
- 4) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=121, 14=141.





Structural wood sheathing directly applied or 6-0-0 oc purlins, except

6-12, 5-14, 6-13

2-0-0 oc purlins (6-0-0 max.): 5-6.

1 Row at midpt

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

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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Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 9 West Preserve/Harnett
					I56316679
J0923-5110	A4	ROOF SPECIAL	2	1	
					Job Reference (optional)

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

10-12, 3-10, 3-12

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:92.8

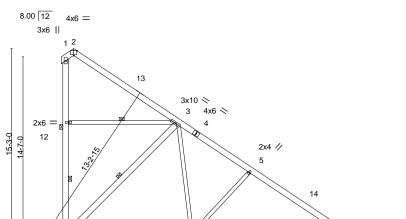
ID:FKRF2G2VvSGFSXRUG\_ubJgzaK1d-Uzde8H2KTaljhufY6yVstraCNDd5xuh2jQIZbszrrql 23-0-0 7-10-6 23-10-8 0-10-8 5-10-2

18

except end verticals.

1 Brace at Jt(s): 12

1 Row at midpt



6x6 = 10-6-0 23-0-0 10-6-0 12-6-0

8 16

3x4 =

15

10 11

9

4x6 =

Plate Offsets (X,Y)	[2:0-3-0,Edge]			
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) -0.13 6-8 >999 360 MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.28 6-8 >970 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.02 6 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 6-8 >999 240 Weight: 219 lb FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

**JOINTS** 

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 \*Except\*

1-10,3-10: 2x6 SP No.1

(size) 10=0-3-8, 6=0-3-8 Max Horz 10=-482(LC 13)

Max Uplift 10=-236(LC 13)

Max Grav 10=1177(LC 20), 6=1071(LC 20)

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

3-5=-1052/0, 5-6=-1298/0, 10-12=-259/166, 1-12=-259/166 TOP CHORD

**BOT CHORD** 8-10=0/743. 6-8=0/987

**WEBS** 5-8=-424/234, 3-10=-1116/335, 3-8=-26/850

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 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 100 lb uplift at joint(s) except (jt=lb) 10=236.





Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 9 West Preserve/Harnett
					I56316680
J0923-5110	A5	ROOF SPECIAL	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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Structural wood sheathing directly applied or 5-11-14 oc purlins,

12-14, 3-12

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Brace at Jt(s): 14

1 Row at midpt

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-QLkOZz3a?BYRwCpwENYKzGgXX1KZPoEKBknggkzrrqj

1 <sub>1</sub> -0-Q	9-3-8	, 15-1-10 <sub>i</sub>	23-0-0	23-10-8
1-0-0	8-3-8	5-10-2	7-10-6	0-10-8

Scale = 1:92.8

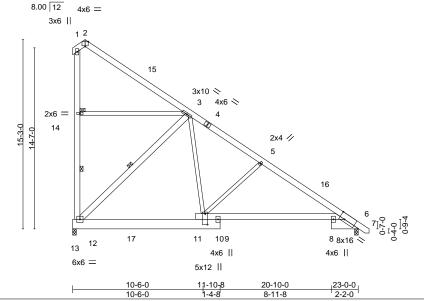


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [6:0-5-0,Edge], [10:0-10-8,0-2-8]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL)	-0.12 6-10	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.49	Vert(CT)	-0.30 6-10	>887 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT)	0.08 6	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 6-10	>999 240	Weight: 245 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

**JOINTS** 

LUMBER-

WEBS

2x6 SP No.1 TOP CHORD

**BOT CHORD** 2x10 SP No.1 \*Except\*

6-11: 2x6 SP No.1 2x4 SP No.2 \*Except\*

1-12,3-12: 2x6 SP No.1

REACTIONS. (size) 6=0-3-8, 12=0-3-8

Max Horz 12=-481(LC 13) Max Uplift 12=-233(LC 13)

Max Grav 6=979(LC 20), 12=1127(LC 20)

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

TOP CHORD 3-5=-1079/0, 5-6=-1350/0, 12-14=-256/166, 1-14=-257/166

**BOT CHORD** 10-12=0/827, 6-10=0/1044

**WEBS** 5-10=-432/206, 3-12=-1146/302, 3-10=0/874

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 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.
- \* 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 100 lb uplift at joint(s) except (jt=lb) 12=233.





Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316681 J0923-5110 A6 **ROOF SPECIAL** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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2-0-0 oc purlins (6-0-0 max.), except end verticals

Rigid ceiling directly applied or 10-0-0 oc bracing.

12-14

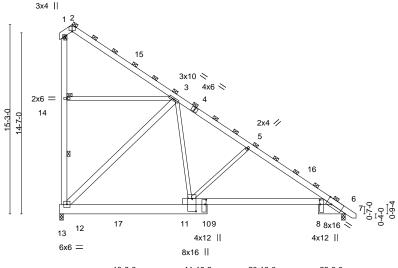
(Switched from sheeted: Spacing > 2-8-0).

1 Row at midpt

1 Brace at Jt(s): 2, 1, 14

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-uXlmnl4CmVgIYMO6n43ZVTCiERg48COUPOXDCAzrrqi 23-0-0 7-10-6 23-10-8 0-10-8 15-1-10 8-3-8 5-10-2

8.00 12 4x6 = Scale = 1:92.8



10-6-0 11-10-8 20-10-0 23-0-0 10-6-0 8-11-8

Plate Offsets (X,Y)	[2:0-3-0,Edge], [6:0-5-0,Edge]	, [8:0-4-4,0-0-12], [9:0-4-8,0-1-	-0], [10:1-0-4,0-4-0]

LOADING	(psf)	SPACING-	3-6-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.11	6-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.27	6-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S	Wind(LL)	0.05	6-10	>999	240	Weight: 490 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

**JOINTS** 

LUMBER-

2x6 SP No.1 TOP CHORD

**BOT CHORD** 2x10 SP No.1 \*Except\*

6-11: 2x6 SP No.1 **WEBS** 2x4 SP No.2 \*Except\*

1-12,3-12: 2x6 SP No.1

REACTIONS. (size) 6=0-3-8, 12=0-3-8

Max Horz 12=-842(LC 13) Max Uplift 12=-407(LC 13)

Max Grav 6=1713(LC 20), 12=1971(LC 20)

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

TOP CHORD 1-2=-333/223, 2-3=-379/107, 3-5=-1889/0, 5-6=-2362/0, 12-14=-448/290,

1-14=-449/291

**BOT CHORD** 10-12=0/1448, 6-10=0/1827

5-10=-757/361, 3-12=-2006/528, 3-10=0/1529 **WEBS** 

### 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: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=407
- 8) Graphical purlin 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316682 J0923-5110 A7 **ROOF SPECIAL** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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2-0-0 oc purlins (6-0-0 max.), except end verticals

Rigid ceiling directly applied or 10-0-0 oc bracing.

12-14

(Switched from sheeted: Spacing > 2-8-0).

1 Row at midpt

1 Brace at Jt(s): 2, 1, 14

Scale = 1:92.8

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-rwQXC\_5Tl6x?ngYVvV51aul2kELYc6unti0KG3zrrqg 15-1-10 23-0-0 8-3-8 5-10-2 7-10-6

8.00 12 4x6 = 3x4 || 3x10 ╲ 3 4x6 < 2x6 =15-3-0 2x4 // 11 109 8 8x16 12 13 4x12 || 4x12 ||

ı	10-6-0	11-10-8	20-10-0	23-0-0
	10-6-0	ነ-4-8	8-11-8	2-2-0

8x16 ||

Plate Offsets (X,Y)	[2:0-3-0,Edge], [6:0-5-0,Edge], [8:0-4-4	,0-1-0], [9:0-4-4,0-1-4], [1	0:1-0-4,0-4-0]		V	
LOADING (psf)	SPACING- 3-6-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL)	-0.11 <b>6</b> -10	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT)	-0.27 6-10	>999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT)	0.07 6	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 6-10	>999 240	Weight: 490 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

**JOINTS** 

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x10 SP No.1 \*Except\*

6-11: 2x6 SP No.1 2x4 SP No.2 \*Except\* WEBS

1-12,3-12: 2x6 SP No.1

REACTIONS. (size) 6=0-3-8, 12=0-3-8

Max Horz 12=-842(LC 13) Max Uplift 12=-407(LC 13)

Max Grav 6=1713(LC 20), 12=1971(LC 20)

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

TOP CHORD 1-2=-333/223, 2-3=-379/107, 3-5=-1889/0, 5-6=-2362/0, 12-14=-448/290,

1-14=-449/291

10-12=0/1448, 6-10=0/1827 **BOT CHORD** 

5-10=-757/361, 3-12=-2006/528, 3-10=0/1529 **WEBS** 

### 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: 2x10 2 rows staggered at 0-9-0 oc, 2x6 2 rows staggered at 0-9-0 oc.

6x6 =

- Webs connected as follows: 2x4 1 row at 0-9-0 oc, 2x6 2 rows staggered 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=407
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26,2023



Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316683 J0923-5110 **A8 ROOF TRUSS** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:36 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-J6\_vPK653Q3sPp7hTCcG76q7tej5Lcmw6MlupVzrrqf

Structural wood sheathing directly applied or 6-0-0 oc purlins,

12-14

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Brace at Jt(s): 14

1 Row at midpt

10-5-3 7-10-6

Scale = 1:89.8 6x8 =

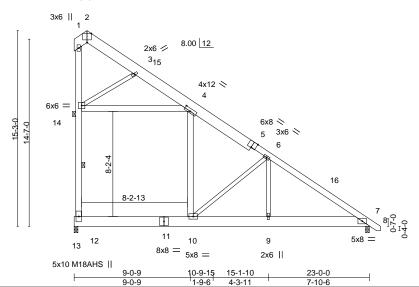


Plate Offsets (X,Y)	[2:0-4-0,Edge], [4:0-6-0,0-2-8], [5:0-4-0,Edge]

LOADING (psf)	SPACING- 2-8-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GI	RIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL)	-0.21	10	>999	360	MT20 24	14/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT)	-0.46	10	>587	240	M18AHS 18	36/179
BCLL 0.0 *	Rep Stress Incr NO	WB 0.48	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.17	10	>999	240	Weight: 563 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

**JOINTS** 

LUMBER-

2x10 SP No.1 \*Except\* TOP CHORD

5-8: 2x6 SP No.1 **BOT CHORD** 2x10 SP 2400F 2.0E WEBS 2x6 SP No.1 \*Except\* 6-9,6-10,3-14: 2x4 SP No.2

REACTIONS. (size) 12=0-3-8, 7=0-3-8

Max Horz 12=-633(LC 13) Max Uplift 12=-7(LC 13)

Max Grav 12=2288(LC 21), 7=1482(LC 21)

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

TOP CHORD 3-4=-808/104, 4-6=-829/128, 6-7=-2233/92, 12-14=-1091/133

**BOT CHORD** 10-12=-119/629, 9-10=0/1720, 7-9=0/1720

**WEBS** 4-14=-184/957, 6-9=0/1086, 4-10=0/833, 6-10=-2198/295, 3-14=-1790/225

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) 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.
- 8) Ceiling dead load (10.0 psf) on member(s). 4-14; Wall dead load (5.0psf) on member(s).4-10
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 11) Attic room checked for L/360 deflection.



January 26,2023



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 9 West Preserve/Harnett
10000 5440		DOOF TRUING			I56316684
J0923-5110	A9	ROOF TRUSS	3	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:38 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-FV6fq08Lb1Jae7H4adfkCXwQuSOipUPDZgE\_tOzrrqd

Structural wood sheathing directly applied, except end verticals.

12-14, 6-10

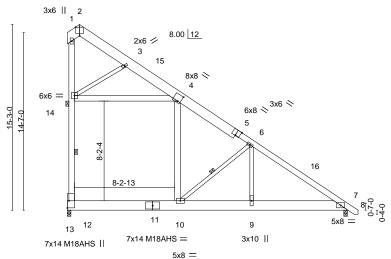
Rigid ceiling directly applied or 8-6-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 14

23-10-8 0-10-8 15-1-10 3-8-6 10-5-4 7-10-6

Scale = 1:94.6



10-9-15 15-1-10 23-0-0 4-3-11

_Plate Offs	sets (X,Y)	[2:0-4-0,Edge], [4:0-2-12,	0-6-8], [5:0-4	-0,Edge]									
LOADING	· ·	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.32	10	>844	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.69	10	>392	240	M18AHS	186/179	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.01	7	n/a	n/a			
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S	Wind(LL)	0.26	10	>999	240	Weight: 282 lb	FT = 20%	

BRACING-

WEBS

**JOINTS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

WEBS

REACTIONS.

2x10 SP No.1 \*Except\* TOP CHORD

5-8: 2x6 SP No.1 **BOT CHORD** 2x10 SP 2400F 2.0E 2x6 SP No.1 \*Except\*

6-9,6-10,3-14: 2x4 SP No.2

(size) 12=0-3-8, 7=0-3-8 Max Horz 12=-475(LC 13) Max Uplift 12=-5(LC 13)

Max Grav 12=1716(LC 21), 7=1111(LC 21)

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

TOP CHORD 3-4=-606/78, 4-6=-622/96, 6-7=-1675/69, 12-14=-818/100

**BOT CHORD** 10-12=-89/471, 9-10=0/1290, 7-9=0/1290

**WEBS** 4-14=-138/718, 6-9=0/815, 4-10=0/624, 6-10=-1648/221, 3-14=-1342/169

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-4-13, Interior(1) 5-4-13 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

6x8 =

- 3) All plates are MT20 plates unless otherwise indicated.
- 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) Ceiling dead load (10.0 psf) on member(s). 4-14; Wall dead load (5.0psf) on member(s).4-10
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 9) Attic room checked for L/360 deflection.



January 26,2023

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)



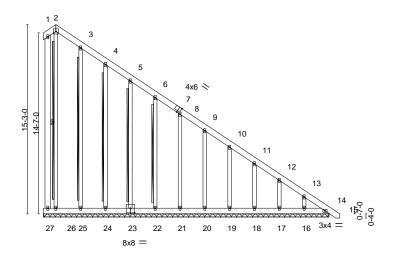
Job Truss Truss Type Qty Weaver/Lot 9 West Preserve/Harnett 156316685 J0923-5110 A9GE COMMON SUPPORTED GAB Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:40 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-BuDQFi9b7eZluRQTi2hCHy?\_LFAAHVmW0\_j5yGzrrqb

23-0-0 22-0-0

8.00 12 Scale = 1:92.8 5x5 =



23-0-0

Plate Off	fsets (X,Y)	[7:0-2-9,Edge], [23:0-4-0	,0-4-8]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	14	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	14	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 280 lb	FT = 20%

BRACING-LUMBER-TOP CHORD 2x6 SP No.1 TOP CHORD

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

**BOT CHORD WEBS** 

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1-27 1 Row at midpt

2x4 SPF No.2 - 3-25, 4-24, 5-23, 6-22 T-Brace:

2x6 SPF No.2 - 2-26

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 23-0-0.

(lb) -Max Horz 27=-695(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 27, 26, 25, 24, 23, 22, 21, 20, 19,

18, 17 except 16=-116(LC 13), 14=-100(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 27, 26, 25, 24, 23, 22, 21, 20,

19, 18, 17, 16 except 14=414(LC 13)

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

5-6=-254/197, 6-8=-329/256, 8-9=-404/314, 9-10=-479/373, 10-11=-554/432,

11-12=-629/491, 12-13=-705/550, 13-14=-794/626

BOT CHORD 26-27=-536/694, 25-26=-536/694, 24-25=-536/694, 23-24=-536/694, 22-23=-536/694,

21-22=-536/694, 20-21=-536/694, 19-20=-536/694, 18-19=-536/694, 17-18=-536/694,

16-17=-536/694. 14-16=-536/694

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-4-4 to 5-4-13, Exterior(2) 5-4-13 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17 except (jt=lb) 16=116, 14=100.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



January 26,2023

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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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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Weaver/Lot 9 West Preserve/Harnett 156316686 J0923-5110 **B1** COMMON SUPPORTED GAB 5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:42 2023 Page 1

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-7GLAgNBseGp07karpTjgNN4Hw3eDIGBpUICC09zrrqZ 40-0-0 20-0-0 26-0-0 . 32-9-15 40-10-8 7-2-2 7-2-2 6-9-15 6-0-0 6-0-0 6-9-15 7-2-1 0-10-8

> Scale = 1:88.5 5x8 =

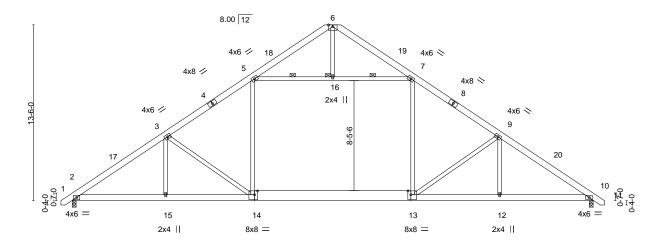
> > Structural wood sheathing directly applied or 4-7-8 oc purlins.

5-16, 7-16

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 16



		7-2-2	14-0-0	26-0-0	32-9-15	40-0-0
		7-2-2	6-9-15	12-0-0	6-9-15	7-2-1
Plate Offsets (X,Y)	[8:0-0-0,0	0-0-0], [13:0-2-12,0-3-8]	[, [14:0-2-12,0-3-8]			

BRACING-

WEBS

**JOINTS** 

TOP CHORD

**BOT CHORD** 

1 1010 0110010 (71)										
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL. in (loc) I/defl L/d P	LATES GRIP							
TCLL 20.0	Plate Grip DOL 1.15	TC 0.25 Vert(LL) -0.38 14-15 >999 360 M	IT20 244/190							
TCDL 10.0	Lumber DOL 1.15	BC 0.86 Vert(CT) -0.44 12-13 >999 240								
BCLL 0.0	Rep Stress Incr YES	WB 0.74 Horz(CT) 0.06 10 n/a n/a								
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S Wind(LL) 0.33 14-15 >999 240 W	/eight: 316 lb FT = 20%							

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 \*Except\*

13-14: 2x10 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=331(LC 11)

Max Uplift 2=-96(LC 12), 10=-96(LC 13) Max Grav 2=1796(LC 19), 10=1796(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2750/460, 3-5=-2355/477, 5-6=-484/192, 6-7=-484/192, 7-9=-2357/477,

9-10=-2751/460

2-15=-245/2414, 14-15=-245/2414, 13-14=-82/1966, 12-13=-247/2167, 10-12=-247/2167

**BOT CHORD** 5-14=-6/763, 7-13=-6/764, 5-16=-1571/395, 7-16=-1571/395, 3-15=-43/260,

3-14=-642/238, 9-12=-48/260, 9-13=-642/240

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 20-0-0, Exterior(2) 20-0-0 to 24-4-13, Interior(1) 24-4-13 to 40-8-9 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 100 lb uplift at joint(s) 2, 10



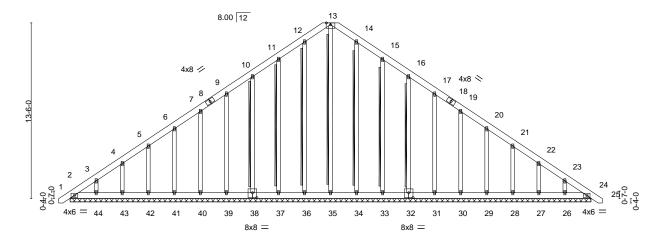


Job Truss Truss Type Qty Weaver/Lot 9 West Preserve/Harnett 156316687 J0923-5110 B1GE COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:44 2023 Page 1

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-4fTw43C6At3kM2kExul8So9fLsXbDll5xchJ52zrrqX 40-10-8 0-10-8 -0<sub>7</sub>10<sub>7</sub>8 0-10-8 20-0-0 20-0-0

> Scale = 1:88.5 5x8 =



40-0-0

Plate Off	fsets (X,Y)	[32:0-4-0,0-4-8], [38:0-4-	0,0-4-8]									
LOADIN	\( \( \)	SPACING-	2-0-0	CSI.	0.00	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	24	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	24	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 399 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD WEBS** 

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 13-35, 12-36, 11-37, 10-38 14-34, 15-33, 16-32

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 40-0-0.

Max Horz 2=414(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 35, 36, 38, 39, 40, 41, 42, 43, 34,

32, 31, 30, 29, 28, 27, 24 except 2=-110(LC 8), 37=-102(LC 12), 44=-105(LC

12), 33=-106(LC 13), 26=-102(LC 13)

All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 39, 40, 41, 42, 43, Max Grav 44, 34, 33, 32, 31, 30, 29, 28, 27, 26, 24 except 35=277(LC 13)

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

TOP CHORD 2-3=-441/318, 3-4=-357/284, 4-5=-292/257, 10-11=-216/283, 11-12=-284/333, 12-13=-310/354, 13-14=-310/354, 14-15=-284/319, 22-23=-263/167, 23-24=-346/238

**BOT CHORD** 2-44=-212/326, 43-44=-212/326, 42-43=-212/326, 41-42=-212/326, 40-41=-212/326,

39-40=-212/326, 38-39=-212/326, 37-38=-212/326, 36-37=-212/326, 35-36=-212/326,

34-35=-212/326, 33-34=-212/326, 32-33=-212/326, 31-32=-212/326, 30-31=-212/326,

29-30=-212/326, 28-29=-212/326, 27-28=-212/326, 26-27=-212/326, 24-26=-212/326

WEBS 13-35=-256/167

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-9 to 3-8-4, Exterior(2) 3-8-4 to 20-0-0, Corner(3) 20-0-0 to 24-4-13, Exterior(2) 24-4-13 to 40-8-9 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 36, 38, 39, 40, 41, 42, 43, 34, 32, 31, 30, 29, 28, 27, 24 except (jt=lb) 2=110, 37=102, 44=105, 33=106, 26=102.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



January 26,2023

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Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316688 J0923-5110 C<sub>1</sub> **ATTIC** 

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:46 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-02bhVIEMiUJScMuc2JocXDFweg5XhAvOPwAQ9wzrrqV

11-1-8 14-0-3 16-10-4 22-3-0 5-4-12 2-10-1 2-10-11 2-10-11 2-10-1

> Scale = 1:77.9 6x8 =

> > Structural wood sheathing directly applied or 5-9-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

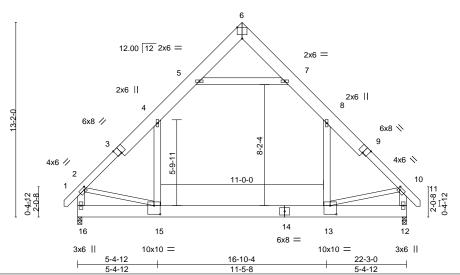


Plate Offsets (X,Y)-- [2:0-1-8,0-2-0], [3:0-4-0,Edge], [6:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-8,0-2-0], [13:0-5-0,0-7-0], [15:0-5-0,0-7-0]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL)	-0.12 13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.58	Vert(CT)	-0.19 13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT)	0.01 12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 15	>999	240	Weight: 268 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

**BOT CHORD** 

2x10 SP No.1 \*Except\* TOP CHORD

1-3,9-11: 2x6 SP No.1 2x10 SP No.1

WEBS 2x6 SP No.1 \*Except\* 2-15,10-13: 2x4 SP No.2

REACTIONS. (size) 16=0-3-8, 12=0-3-8

Max Horz 16=-419(LC 10)

Max Grav 16=1469(LC 21), 12=1469(LC 20)

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

TOP CHORD  $2\text{-}4\text{=-}1675/22,\ 4\text{-}5\text{=-}1045/187,\ 7\text{-}8\text{=-}1045/187,\ 8\text{-}10\text{=-}1675/21,\ 2\text{-}16\text{=-}1615/65,}$ 

10-12=-1616/65

**BOT CHORD** 15-16=-425/555, 13-15=0/1123

**WEBS** 5-7=-1194/265, 4-15=0/744, 8-13=0/744, 2-15=-1/1037, 10-13=-10/1044

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-0 to 3-7-13, Exterior(2) 3-7-13 to 11-2-0, Corner(3) 11-2-0 to 15-6-13, Exterior(2) 15-6-13 to 23-1-0 zone; end vertical 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 7) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316689 J0923-5110 C2 **ATTIC** 8 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:48 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-yQiRwRFcE6Z9rf1?Akq4ceKGxUlz94JhsEfWEpzrrqT

16-10-4 14-0-3 22-3-0 5-4-12 2-10-1 2-10-11 2-10-11 2-10-1

> Scale = 1:77.9 6x8 =

> > Structural wood sheathing directly applied or 5-8-7 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

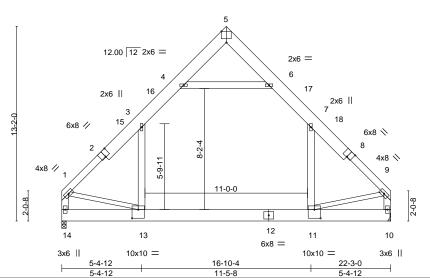


Plate Offsets (X,Y)	[2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [11:0-5-0,0-7-0], [1:0-5-0,0-7-0]	3:0-5-0,0-7-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (	loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.12 11	-13	>999	360	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.20 11	-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	10	n/a	n/a		
BCDL 10	0.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.04	13	>999	240	Weight: 262 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

2x10 SP No.1 \*Except\* TOP CHORD

1-2,8-9: 2x6 SP No.1 **BOT CHORD** 2x10 SP No.1 WEBS 2x6 SP No.1 \*Except\* 1-13,9-11: 2x4 SP No.2

REACTIONS. (size) 14=0-3-8, 10=Mechanical

Max Horz 14=-256(LC 8)

Max Grav 14=1434(LC 21), 10=1434(LC 20)

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

TOP CHORD 1-3=-1657/0, 3-4=-1042/150, 6-7=-1042/150, 7-9=-1657/0, 1-14=-1567/0, 9-10=-1568/0

**BOT CHORD** 13-14=-284/368, 11-13=0/1079

**WEBS** 4-6=-1225/195, 3-13=0/728, 7-11=0/728, 1-13=0/1036, 9-11=0/1039

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-2-0, Exterior(2) 11-2-0 to 15-6-13, Interior(1) 15-6-13 to 22-0-12 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.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 7) Refer to girder(s) for truss to truss connections. 8) Attic room checked for L/360 deflection.



January 26,2023



Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316690 J0923-5110 C3 ATTIC Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:52 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-rByymoJ7IK4bKHLmPZv0nUVxP5525vVHnrdkNazrrqF

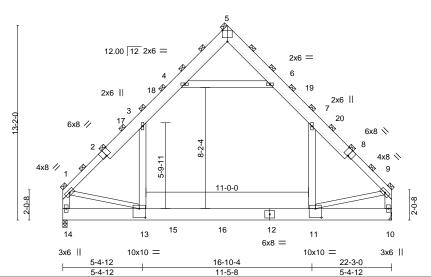
2-0-0 oc purlins (6-0-0 max.), except end verticals

Rigid ceiling directly applied or 10-0-0 oc bracing.

(Switched from sheeted: Spacing > 2-8-0).

14-0-3 16-10-4 22-3-0 5-4-12 2-10-1 2-10-11 2-10-11 2-10-1

> Scale = 1:77.9 6x8 =



LOADIN	IG (psf)	SPACING- 3-0-	0 0	SI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	5 T	C 0.44	Vert(LL)	-0.14 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	5 B	C 0.76	Vert(CT)	-0.22 11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr N	v   c	/B 0.24	Horz(CT)	0.01 10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	. N	latrix-S	Wind(LL)	0.04 11-13	>999	240	Weight: 525 lb	FT = 20%

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

2x10 SP No.1 \*Except\* TOP CHORD 1-2,8-9: 2x6 SP No.1

**BOT CHORD** 2x10 SP No.1 2x6 SP No.1 \*Except\* **WEBS** 

1-13,9-11: 2x4 SP No.2

REACTIONS. (size) 14=0-3-8, 10=Mechanical

Max Horz 14=-384(LC 8)

Max Grav 14=2783(LC 21), 10=2577(LC 20)

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

TOP CHORD  $1-3=-3251/46,\ 3-4=-1860/268,\ 4-5=-57/484,\ 5-6=-61/417,\ 6-7=-1926/277,\ 7-9=-3167/41,\ 5-6=-61/417,\ 6-7=-1926/277,\ 7-9=-3167/41,\ 7-9=-1926/277,\ 7-9=-3167/41,\ 7-9=-1926/277,\ 7-9=-3167/41,\ 7-9=-1926/277,\ 7-9=-3167/41,\ 7-9=-1926/277,\ 7-9=-3167/41,\ 7-9=-1926/277,\ 7-9=-3167/41,\ 7-9=-1926/277,\ 7-9=-3167/41,\ 7-$ 

1-14=-3094/67. 9-10=-3003/54 13-14=-426/576, 11-13=0/2085

**BOT CHORD WEBS** 4-6=-2511/389, 3-13=0/1662, 7-11=0/1480, 1-13=0/1970, 9-11=0/2076

### 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, 2x10 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.

- Webs connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-2-0, Exterior(2) 11-2-0 to 15-6-13, Interior(1) 15-6-13 to 22-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 9) Refer to girder(s) for truss to truss connections.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 529 lb down and 76 lb up at 7-4-8, and 529 lb down and 76 lb up at 10-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Attic room checked for L/360 deflection.

### LOAD CASE(S) Standard

Continued on page 2

### MARNING - 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/TP11 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)



ORTH



Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316690 C3 ATTIC J0923-5110 Z | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:52 2023 | Page 2

Fayetteville, NC - 28314, Comtech, Inc,

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### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 13-14=-30, 11-13=-60, 10-11=-30, 1-3=-90, 3-4=-120, 4-5=-90, 5-6=-90, 6-7=-120, 7-9=-90, 4-6=-30

Drag: 3-13=-15, 7-11=-15

Concentrated Loads (lb)

Vert: 15=-300(B) 16=-300(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316691 J0923-5110 G1 FINK 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:53 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

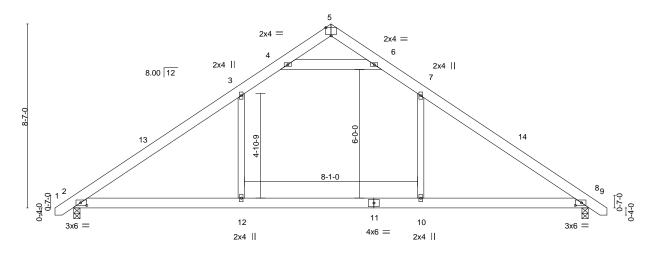
ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-JOWKz8Jl3eCSxRwyyHQFJh13uVWiqLqQ0VNHv0zrrqO 7-9-12 7-9-12 24-10-8 0-10-8 12-0-0 16-2-4 24-0-0 4-2-4 4-2-4 7-9-12

> Scale = 1:53.7 4x6 =

> > 24-0-0

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 5-8-12 oc purlins.



7-9-12 Plate Offsets (X,Y)--[2:0-3-6,0-1-8], [5:0-3-0,Edge], [8:0-3-6,0-1-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP

-0.17 10-12 TCLL 20.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.41 Vert(CT) -0.24 10-12 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.30 Horz(CT) 0.02 8 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 0.15 2-12 >999 240 Weight: 155 lb FT = 20%Matrix-S

BRACING-

TOP CHORD

**BOT CHORD** 

16-2-4

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 \*Except\*

4-6: 2x6 SP No.1

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

Max Horz 2=-203(LC 10)

Max Uplift 2=-62(LC 12), 8=-62(LC 13) Max Grav 2=1118(LC 19), 8=1118(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1548/251, 3-4=-1077/310, 4-5=-98/433, 5-6=-98/433, 6-7=-1077/310,

7-9-12

7-8=-1548/251

**BOT CHORD** 2-12=-54/1187, 10-12=-54/1187, 8-10=-54/1187 **WEBS** 3-12=0/469, 7-10=0/469, 4-6=-1618/472

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 12-0-0, Exterior(2) 12-0-0 to 16-2-4, Interior(1) 16-2-4 to 24-8-9 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.
- \* 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 100 lb uplift at joint(s) 2, 8.



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)



Job Truss Truss Type Qty Weaver/Lot 9 West Preserve/Harnett 156316692 J0923-5110 G1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:55 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-Fmd5OqL?aFSABk4L4iSjO67Y\_IHKIHXjTpsO\_vzrrqM 24-10-8 0-10-8

5x5 =

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12-0-0

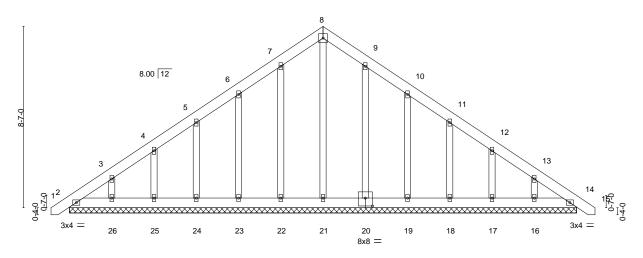


Plate Offsets (X,Y)--[20:0-4-0,0-4-8] SPACING-**GRIP** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/defI L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) 0.00 14 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) 0.00 14 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 14 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 195 lb Matrix-S

24-0-0

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x6 SP No.1 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 24-0-0.

(lb) -Max Horz 2=-254(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16

12-0-0

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-9 to 3-8-4, Exterior(2) 3-8-4 to 12-0-0, Corner(3) 12-0-0 to 16-4-13, Exterior(2) 16-4-13 to 24-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16.



January 26,2023

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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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)



Job Truss Truss Type Qty Ply Weaver/Lot 9 West Preserve/Harnett 156316693 FINK J0923-5110 G2 
 ▲
 Job Reference (optional)

 8.430 s Jan
 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:57 2023
 Page 1
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5-5-5

5-5-5

Scale = 1:50.6 8x8 =

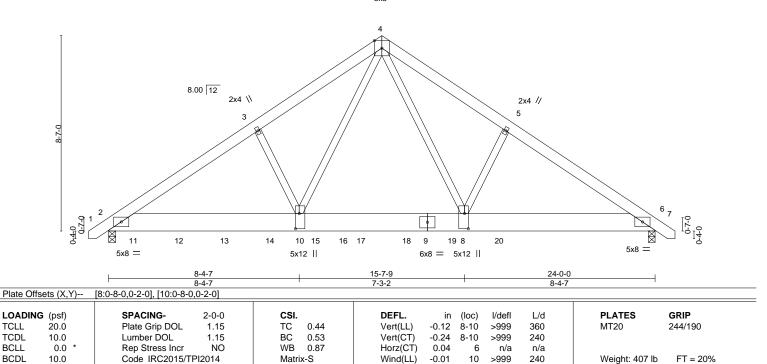
24-0-0

6-6-11

Structural wood sheathing directly applied or 4-6-6 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

24-10-8 0-10-8



BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

2x6 SP No.1 TOP CHORD 2x10 SP 2400F 2.0E **BOT CHORD** WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-12, 6=0-3-8 Max Horz 2=-203(LC 25)

Max Grav 2=9019(LC 2), 6=6408(LC 2)

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

6-6-10

2-3=-11364/0, 3-4=-11231/0, 4-5=-10548/0, 5-6=-10714/0 TOP CHORD

**BOT CHORD** 2-10=0/9409, 8-10=0/6355, 6-8=0/8815

WEBS 3-10=-342/199, 4-10=0/7095, 4-8=0/5752, 5-8=-315/247

### 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: 2x10 - 2 rows staggered at 0-3-0 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1382 lb down at 1-0-12, 1381 lb down at 3-0-12, 1381 lb down at 5-0-12, 1381 lb down at 7-0-12, 1381 lb down at 9-0-12, 1381 lb down at 11-0-12, 1381 lb down at 13-0-12, and 1381 lb down at 15-0-12, and 2464 lb down at 17-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 2-6=-20, 1-4=-60, 4-7=-60

Concentrated Loads (lb)

Vert: 11=-1147(F) 12=-1146(F) 13=-1146(F) 14=-1146(F) 15=-1146(F) 17=-1146(F) 18=-1146(F) 19=-1146(F) 20=-1961(F)



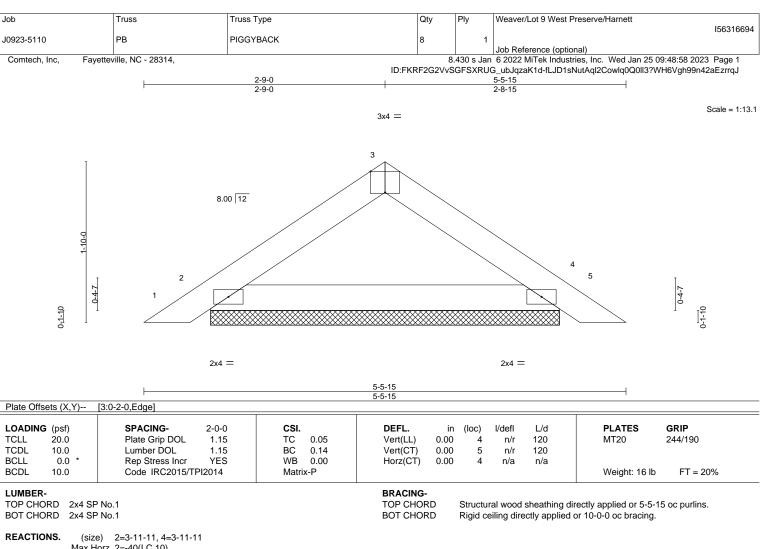
January 26,2023

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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Max Horz 2=-40(LC 10) Max Uplift 2=-16(LC 12), 4=-16(LC 13) Max Grav 2=189(LC 1), 4=189(LC 1)

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty Weaver/Lot 9 West Preserve/Harnett 156316695 J0923-5110 **PBGE GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:48:59 2023 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-8YtbEBOWeUybfMN6JXXfZyHDlvf6E7nJORqc7gzrrqI 2-9-0 2-8-15 Scale = 1:13.1 4x4 = 3 8.00 12 0-4-7 0-1-10 6 2x4 = 2x4 || 2x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL TC Vert(LL) 0.00 120 244/190 **TCLL** 1.15 0.05 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) 0.00 5 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 17 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

**OTHERS** 2x4 SP No.2

REACTIONS. 2=3-11-11, 4=3-11-11, 6=3-11-11 (size) Max Horz 2=50(LC 11) Max Uplift 2=-45(LC 12), 4=-52(LC 13)

Max Grav 2=119(LC 1), 4=119(LC 1), 6=139(LC 1)

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



Structural wood sheathing directly applied or 5-5-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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)



### 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-  $\frac{1}{16}$  from outside edge of truss.

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

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

### PLATE SIZE

4 × 4

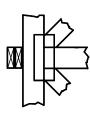
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

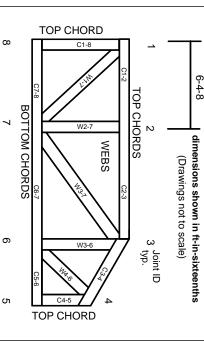
### Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

## **Numbering System**



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

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

# **Product Code Approvals**

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

# Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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## MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# ▲ General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.