

RE: J0224-0915

Weaver Homes/Lot 13 West Preserve

Trenco 818 Soundside Rd Edenton, NC 27932

Truss Name

PB1GE

PB2GE

PB2

Date

2/9/2024

2/9/2024

2/9/2024

**Site Information:** 

Customer: Project Name: J0224-0915

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

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

No.

21

22

23

Seal#

163532539

163532540

163532541

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 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

	:e
1 I63532519 A1 2/9/	/2024
2 I63532520 A1-STR 2/9/	/2024
3 163532521 A2 2/9/	/2024
4 I63532522 A3 2/9/	/2024
5 163532523 A4 2/9/	/2024
6 l63532524 A5 2/9/	/2024
7 163532525 A6 2/9/	/2024
8 163532526 A7 2/9/	/2024
9 163532527 A8 2/9/	/2024
10 l63532528 A9 2/9/	/2024
11 I63532529 A9GE 2/9/	/2024
12 I63532530 B1 2/9/	/2024
13 I63532531 B1GE 2/9/	/2024
14 I63532532 C1 2/9/	/2024
15 I63532533 C1GE 2/9/	/2024
16 163532534 C2 2/9/	/2024
17 I63532535 C3 2/9/	/2024
18 I63532536 C4 2/9/	/2024
19 I63532537 G2GR 2/9/	/2024
20 I63532538 PB1 2/9/	/2024

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

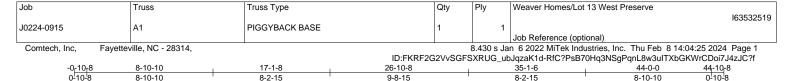
My license renewal date for the state of North Carolina is December 31, 2024

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 fille 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.

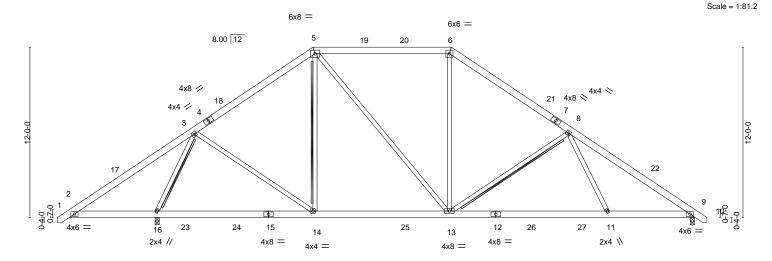


February 09, 2024



9-8-15

8-10-10



6-0-0 11-1-8 9-8-15 10-11-12	6-1-12
LOADING (psf)         SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl         L/d           TCLL         20.0         Plate Grip DOL         1.15         TC         0.50         Vert(LL)         -0.12         11-13         >999         360           TCDL         10.0         Lumber DOL         1.15         BC         0.50         Vert(CT)         -0.24         11-13         >999         240           BCLL         0.0         *         Rep Stress Incr         YES         WB         0.51         Horz(CT)         0.04         9         n/a         n/a           BCDL         10.0         Code IRC2015/TPI2014         Matrix-S         Wind(LL)         0.04         13-14         >999         240	PLATES GRIP MT20 244/190  Weight: 330 lb FT = 20%

LUMBER-**BRACING-**

8-2-15

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

2x6 SP No.1 WFBS 2x4 SP No 2

TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins,

except

2-0-0 oc purlins (5-11-3 max.): 5-6.

8-2-15

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

6-0-0 oc bracing: 2-16. WEBS

T-Brace: 2x4 SPF No.2 - 5-14, 8-13, 3-16

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. (size) 16=0-3-8, 9=0-3-8 Max Horz 16=286(LC 11)

Max Uplift 16=-96(LC 12), 9=-86(LC 13)

8-10-10

Max Grav 16=2183(LC 2), 9=1622(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD  $2\text{-}3\text{=-}429/633, 3\text{-}5\text{=-}1461/373, 5\text{-}6\text{=-}1321/451, 6\text{-}8\text{=-}1708/458, 8\text{-}9\text{=-}2514/415}$ **BOT CHORD** 2-16=-423/468, 14-16=-191/710, 13-14=-45/1170, 11-13=-238/1792, 9-11=-191/1956 **WEBS** 3-14=-65/730, 5-13=-133/429, 6-13=0/490, 8-13=-742/311, 8-11=0/444, 3-16=-2008/762

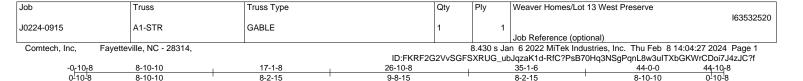
### NOTES-

- 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 17-2-6, Exterior(2) 17-2-6 to 23-5-0, Interior(1) 23-5-0 to 26-9-10, Exterior(2) 26-9-10 to 33-0-5, Interior(1) 33-0-5 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.
- \* 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 96 lb uplift at joint 16 and 86 lb uplift at
- 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.



February 9,2024





9-8-15

Scale = 1:81.2

8-10-10

44-0-0

6-1-12

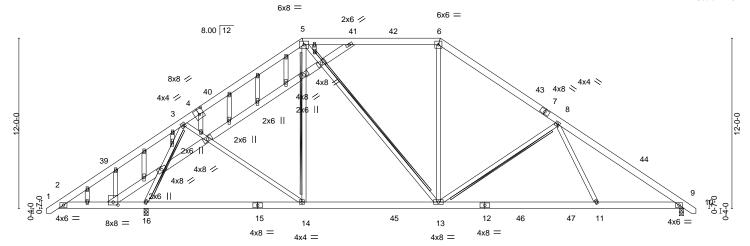


Plate Offsets (X,Y)	[4:0-4-0,0-4-8], [22:0-4-0,0-2-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.13 13-14 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.23 11-13 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.04 9 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 13 >999 240	Weight: 399 lb FT = 20%

26-10-8

9-8-15

LUMBER-**BRACING-**

17-<u>1-8</u>

10-11-12

8-2-15

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

2x4 SP No.2 \*Except\* WEBS

17-18,18-19,19-20,20-21,21-22: 2x6 SP No.1

8-10-10

**OTHERS** 2x4 SP No.2 TOP CHORD

Structural wood sheathing directly applied or 4-9-0 oc purlins, except

2-0-0 oc purlins (5-11-9 max.): 5-6.

37-10-4

10-11-12

8-2-15

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

6-0-0 oc bracing: 2-16.

WEBS T-Brace: 2x4 SPF No.2 - 5-14, 5-13, 8-13, 3-16

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. (size) 16=0-3-8, 9=0-3-8

Max Horz 16=358(LC 11)

Max Uplift 16=-378(LC 12), 9=-303(LC 13) Max Grav 16=2083(LC 1), 9=1576(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-222/633, 3-5=-1407/428, 5-6=-1299/481, 6-8=-1681/492, 8-9=-2455/450 **BOT CHORD**  $2\text{-}16\text{=-}453/300,\ 14\text{-}16\text{=-}284/641,\ 13\text{-}14\text{=-}164/1110,\ 11\text{-}13\text{=-}267/1768,\ 9\text{-}11\text{=-}220/1930}$ 

**WEBS** 3-14=-94/738, 5-13=-164/478, 6-13=-22/480, 8-13=-760/427, 8-11=0/444,

3-16=-2008/617

### 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 17-2-6, Exterior(2) 17-2-6 to 23-5-0, Interior(1) 23-5-0 to 26-9-10, Exterior(2) 26-9-10 to 33-0-5, Interior(1) 33-0-5 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 378 lb uplift at joint 16 and 303 lb uplift at joint 9.
- 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.



February 9,2024



Job Qty Ply Weaver Homes/Lot 13 West Preserve Truss Truss Type 163532521 J0224-0915 Α2 PIGGYBACK BASE 5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:29 2024 Page 1

8-0-4

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.

8-1-12

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

5-14, 3-16, 5-13, 6-13

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0<mark>-10-8</mark> 0-10-8 8-7-5 17-1-8 26-10-8 35-8-8 44-0-0 44-10-8 0-10-8 8-7-5 8-6-4 9-8-15 8-10-0 8-3-8

Scale = 1:81.8

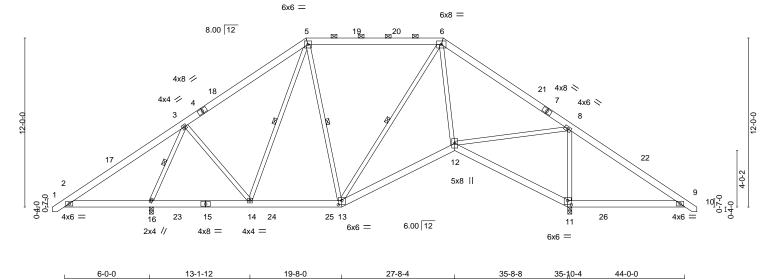


Plate Offsets (X,Y)	[11:0-3-0,0-3-8], [13:0-3-0,0-3-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.04 12-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.10 12-13 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT) 0.03 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.02 11-12 >999 240	Weight: 336 lb FT = 20%

8-0-4

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 WEBS

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

6-0-0

Max Horz 16=-286(LC 10)

Max Uplift 11=-109(LC 13), 16=-104(LC 12) Max Grav 11=1939(LC 1), 16=1667(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-399/643, 3-5=-806/204, 5-6=-661/248, 6-8=-916/46, 8-9=-465/701 TOP CHORD

**BOT CHORD** 2-16=-431/441, 14-16=-213/469, 13-14=-100/663, 12-13=-53/849, 11-12=-588/587,

7-1-12

9-11=-461/491

WEBS 3-14=-38/482, 8-12=-69/1128, 8-11=-1512/479, 3-16=-1590/568, 6-12=-116/562,

6-13=-296/79

### 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 17-2-6, Exterior(2) 17-2-6 to 23-5-0, Interior(1) 23-5-0 to 26-9-10, Exterior(2) 26-9-10 to 33-0-5, Interior(1) 33-0-5 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 DOL=1.60

6-6-4

- 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 109 lb uplift at joint 11 and 104 lb uplift
- 7) 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 Qty Ply Weaver Homes/Lot 13 West Preserve Truss Type Truss 163532522 J0224-0915 АЗ PIGGYBACK BASE Job Reference (optional) Comtech, Inc, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:30 2024 Page 1

Fayetteville, NC - 28314,

6-6-4

17-1-8

8-6-4

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 26-10-8 35-8-8 44-0-0 44-10-8 0-10-8 9-8-15

8-3-8

8-1-12

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

5-14, 6-13

8-10-0

8-0-4

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.

Scale = 1:81.5

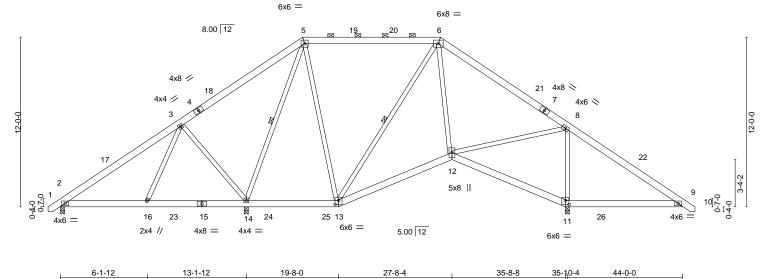


Plate Offsets (X,Y)-[11:0-3-0,0-3-8], [13:0-3-0,0-3-8] SPACING-**DEFL PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.45 Vert(LL) -0.04 12-13 >999 360 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 вс 0.20 Vert(CT) -0.09 12-13 >999 240 **BCLL** Rep Stress Incr YES WB 0.66 Horz(CT) 0.02 0.0 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Wind(LL) 0.02 2-16 Weight: 336 lb FT = 20% Matrix-S >999 240

8-0-4

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

-0<u>-10-8</u> 0-10-8

8-7-5

8-7-5

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

6-1-12

Max Horz 2=-286(LC 10)

Max Uplift 2=-56(LC 8), 11=-126(LC 13), 14=-229(LC 9) Max Grav 2=549(LC 23), 11=1716(LC 1), 14=1428(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-583/281, 3-5=-137/260, 5-6=-372/181, 6-8=-569/36, 8-9=-465/701 TOP CHORD

**BOT CHORD** 2-16=-196/409, 14-16=-156/367, 13-14=-114/283, 12-13=-86/496, 11-12=-561/565,

7-0-0

9-11=-461/490 WEBS

3-14=-668/501, 5-14=-828/187, 8-12=-44/844, 8-11=-1332/462, 6-12=-173/499,

5-13=0/298, 3-16=-268/309

### 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 17-2-6, Exterior(2) 17-2-6 to 23-5-0, Interior(1) 23-5-0 to 26-9-10, Exterior(2) 26-9-10 to 33-0-5, Interior(1) 33-0-5 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
- 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 56 lb uplift at joint 2, 126 lb uplift at joint 11 and 229 lb uplift at joint 14.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord





Job Qty Weaver Homes/Lot 13 West Preserve Truss Truss Type Ply 163532523 COMMON J0224-0915 Α4 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:31 2024 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 5-10-12 oc purlins,

1-8.3-8

Rigid ceiling directly applied or 9-1-6 oc bracing.

except end verticals.

1 Row at midpt

1-0-0 1-0-0 12-0-0 23-0-0 23-10-8 0-10-8 11-0-0 11-0-0

Scale = 1:88.5

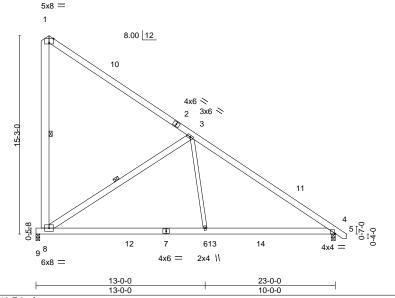


Plate Offsets (X,Y)-- [1:0-4-0,Edge], [4:0-0-10,Edge]

LOADIN	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 0.56	Vert(LL) -	-0.22 6-8	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -	-0.40 6-8	>680 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.58	Horz(CT)	0.02 4	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 6-8	>999 240	Weight: 205 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

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

1-8: 2x8 SP No.1, 3-6: 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 4=0-3-8

Max Horz 9=-497(LC 13)

Max Uplift 9=-246(LC 13)

Max Grav 9=1141(LC 20), 4=1135(LC 20)

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

TOP CHORD 1-3=-280/136, 3-4=-1489/0, 1-8=-318/224 **BOT CHORD** 8-9=-561/594, 6-8=0/987, 4-6=0/1087

WEBS 3-8=-1313/388, 3-6=0/794

### NOTES-

- 1) 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) 0-8-6 to 5-1-3, Interior(1) 5-1-3 to 23-8-9 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.
- \* 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 9.





Job Qty Weaver Homes/Lot 13 West Preserve Truss Type Ply Truss 163532524 J0224-0915 Α5 COMMON Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:33 2024 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-0-0 12-0-0 23-0-0 11-0-0

Scale = 1:93.9

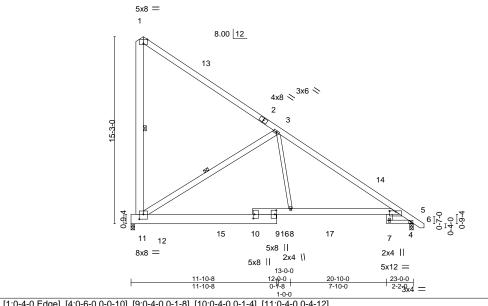


Plate Offs	Flate Offsets (A, 1) [1.0-4-0,Edge], [4.0-6-0,0-0-10], [3.0-4-0,0-1-6], [10.0-4-0,0-4-12]								
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP					
TCLL	20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.14 7 >999 360 MT20 244/190					
TCDL	10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.27 7 >999 240					
BCLL	0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.14 5 n/a n/a					
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 7 >999 240 Weight: 228 lb FT = 20%					

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1

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

9-12: 2x10 SP No.1, 5-7: 2x4 SP No.1

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

1-11: 2x8 SP No.1, 3-8: 2x4 SP No.2

REACTIONS. (size) 12=0-3-8, 5=0-3-8

Max Horz 12=-498(LC 13)

Max Uplift 12=-242(LC 13)

Max Grav 12=1123(LC 20), 5=1113(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-259/155, 3-4=-1494/0, 4-5=-710/26, 1-11=-326/229

**BOT CHORD** 11-12=-561/593, 8-11=0/1111, 4-8=0/1164 **WEBS** 3-11=-1407/356, 3-8=0/778

### NOTES-

- 1) 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) 0-8-6 to 5-1-3, Interior(1) 5-1-3 to 23-8-9 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, with BCDL = 10.0psf.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 12.



Structural wood sheathing directly applied or 5-3-13 oc purlins,

1-11, 3-11

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

except end verticals.

6-0-0 oc bracing: 5-7.

1 Row at midpt

Job Weaver Homes/Lot 13 West Preserve Truss Type Plv Truss Qty 163532525 J0224-0915 A6 COMMON Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:34 2024 Page 1

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

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

1-11, 3-11

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

6-0-0 oc bracing: 5-7.

1 Row at midpt

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-0-0 12-0-0 23-0-0

Scale = 1:93.9

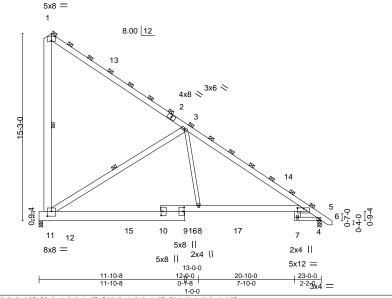


Plate Offsets (X,Y) [1:0-4-0,Edge], [4:0-6-0,0-0-10], [9:0-4-0,0-1-5], [10:0-4-0,0-1-6], [11:0-4-0,0-4-12]												
LOADIN	G (psf)	SPACING-	4-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.14	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.27	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.14	5	n/a	n/a		
BCDI.	10.0	Code IRC2015/T	212014	Matrix	.0	Wind(LL)	0.00	7	~000	240	Weight: 455 lb	FT - 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1

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

9-12: 2x10 SP No.1, 5-7: 2x4 SP No.1

2x6 SP No.1 \*Except\* WERS

1-11: 2x8 SP No.1, 3-8: 2x4 SP No.2

REACTIONS. (size) 12=0-3-8, 5=0-3-8

Max Horz 12=-996(LC 13) Max Uplift 12=-484(LC 13)

Max Grav 12=2245(LC 20), 5=2226(LC 20)

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

1-3=-518/310, 3-4=-2988/0, 4-5=-1419/52, 1-11=-652/457 TOP CHORD

**BOT CHORD** 11-12=-1122/1185, 8-11=0/2221, 4-8=0/2329

WFBS 3-11=-2814/711, 3-8=0/1557

### 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, 2x8 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, 2x4 - 1 row at 0-9-0
- 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) 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) 0-8-6 to 5-1-3, Interior(1) 5-1-3 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 484 lb uplift at joint 12.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 9,2024



Job Qty Weaver Homes/Lot 13 West Preserve Truss Truss Type Plv 163532526 J0224-0915 Α7 COMMON Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:35 2024 Page 1

Scale = 1:93.9

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-0-0 12-0-0 23-0-0

5x12 =

 $\frac{|23-0-0|}{|2-23\times4|} =$ 

6-0-0 oc bracing: 5-7.

1 Row at midpt

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

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

1-11, 3-11

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

8.00 12 4x8 < 3x6 < \ 5-3-0 9-9-4 15 10 9168 17 11 12 5x8 || 8x8 = 2x4 || 2x4 \\

Plate Off	Plate Offsets (X,Y) [1:0-4-0,Edge], [4:0-6-0,0-0-10], [9:0-4-0,0-1-8], [10:0-4-0,0-1-7], [11:0-4-0,0-4-12]											
LOADING	G (psf)	SPACING-	4-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.14	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.27	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.14	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	Wind(LL)	0.09	7	>999	240	Weight: 455 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

13-0-0 12-0-0 0-1-8

1-0-0

20-10-0 7-10-0

5x8 ||

LUMBER-

TOP CHORD 2x6 SP No.1

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

9-12: 2x10 SP No.1, 5-7: 2x4 SP No.1

WERS 2x6 SP No.1 \*Except\*

1-11: 2x8 SP No.1, 3-8: 2x4 SP No.2

REACTIONS. (size) 12=0-3-8, 5=0-3-8

Max Horz 12=-996(LC 13)

Max Uplift 12=-484(LC 13)

Max Grav 12=2245(LC 20), 5=2226(LC 20)

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

1-3=-518/310, 3-4=-2988/0, 4-5=-1419/52, 1-11=-652/457 TOP CHORD

**BOT CHORD** 11-12=-1122/1185, 8-11=0/2221, 4-8=0/2329

WFBS 3-11=-2814/711, 3-8=0/1557

### 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, 2x8 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, 2x4 - 1 row at 0-9-0
- 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) 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) 0-8-6 to 5-1-3, Interior(1) 5-1-3 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 484 lb uplift at joint 12.

5x8 =

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 9,2024



Job Qty Weaver Homes/Lot 13 West Preserve Truss Truss Type Plv 163532527 **ROOF TRUSS** J0224-0915 Α8 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:36 2024 Page 1  $ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

1-0-0 4-10-14 1-0-0 3-10-14 8-9-12 15-7-4 23-10-8 0-10-8 3-10-14 6-9-8 7-4-12

8.00 12 Scale = 1:91.0 6x8 =

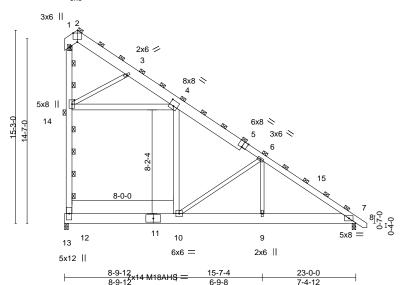


Plate Offsets (X,Y)	[2:0-4-0,Edge], [4:0-4-0,0-5-0], [5:0-4-0,Edge], [14:0-4-0,0-2-4]

LOADIN	G (psf)	SPACING- 3-6-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0	).27 10	>984 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.82	Vert(CT) -0	0.60 10	>454 240	M18AHS 186/179
BCLL	0.0 *	Rep Stress Incr NO	WB 0.63	Horz(CT) 0	0.01 7	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0	0.23 9-10	>999 240	Weight: 564 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**JOINTS** 

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

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

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

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

LUMBER-

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

5-8: 2x6 SP No.1 2x10 SP No.1

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

4-10,4-14: 2x6 SP No.1 **OTHERS** 2x6 SP 2400F 2.0E

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

Max Horz 12=-831(LC 13) Max Uplift 12=-12(LC 13)

Max Grav 12=2979(LC 21), 7=1926(LC 21)

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

1-2=0/327, 2-3=-95/457, 3-4=-1061/123, 4-6=-1151/162, 6-7=-2953/132,

12-14=-1489/169

BOT CHORD 10-12=-96/820, 9-10=0/2299, 7-9=0/2299

**WEBS** 4-10=0/944, 6-10=-2609/392, 6-9=0/1143, 4-14=-232/1267, 3-14=-2514/285

### 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 5-3-1, Interior(1) 5-3-1 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.
- 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.
- 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 12 lb uplift at joint 12.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.



February 9,2024

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 Weaver Homes/Lot 13 West Preserve Truss Truss Type Qty Ply 163532528 **ROOF TRUSS** J0224-0915 Α9 3 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:38 2024 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 1-7-8 oc purlins.

6-10, 12-14

Rigid ceiling directly applied or 5-3-9 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 14

1-0-0 4-10-14 1-0-0 3-10-14 8-9-12 15-7-4 23-0-0 23-10-8 0-10-8 3-10-14 6-9-8 7-4-12

8.00 12 Scale = 1:91.0 6x8 =

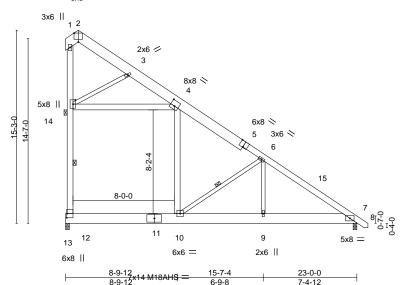


Plate Offsets (X,Y)	[2:0-4-0,Edge],	[4:0-4-0,0-5-0]	, [5:0-4-0,Edge],	[12:0-4-0,0-0-8],	[14:0-4-0,0-2-4]
---------------------	-----------------	-----------------	-------------------	-------------------	------------------

LOADIN	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 0.95	Vert(LL) -	-0.31 10	>861 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -	-0.68 10	>397 240	M18AHS 186/179
BCLL	0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT)	0.01 7	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.26 9-10	>999 240	Weight: 282 lb FT = 20%

**BRACING-**

WEBS

JOINTS

TOP CHORD

**BOT CHORD** 

LUMBER-

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

5-8: 2x6 SP No.1 2x10 SP No.1

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

4-10,4-14: 2x6 SP No.1

**OTHERS** 2x6 SP 2400F 2.0E

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

Max Horz 12=-475(LC 13) Max Uplift 12=-7(LC 13)

Max Grav 12=1702(LC 21), 7=1101(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-54/261, 3-4=-606/70, 4-6=-658/93, 6-7=-1688/75, 12-14=-851/96

BOT CHORD 10-12=-55/468, 9-10=0/1314, 7-9=0/1314

WFBS 4-10=0/539, 6-10=-1491/224, 6-9=0/653, 4-14=-133/724, 3-14=-1437/163

### 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 5-3-1, Interior(1) 5-3-1 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) 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 7 lb uplift at joint 12.
- 9) Attic room checked for L/360 deflection.



February 9,2024



Job Qty Ply Weaver Homes/Lot 13 West Preserve Truss Truss Type 163532529 J0224-0915 A9GE GABLE Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:39 2024 Page 1  $ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

23-0-0 23-10-8 0-10-8 22-0-0

Scale = 1:87.9

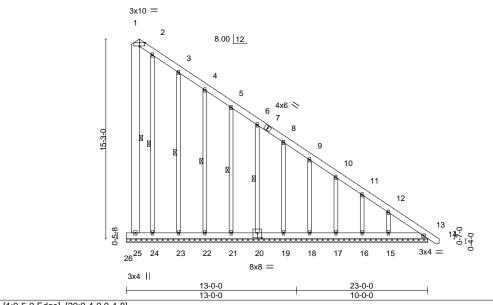


Plate Off	Plate Offsets (X,Y) [1:0-5-0,Eage], [20:0-4-0,0-4-8]											
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP								
TCLL	20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) 0.00 13 n/r 120 MT20 244/190								
TCDL	10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00 13 n/r 120								
BCLL	0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 13 n/a n/a								
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 278 lb FT = 20%								

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x6 SP No.1 except end verticals.

2x8 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS

2x4 SP No.2 OTHERS WEBS 1 Row at midpt 1-25, 2-24, 3-23, 4-22, 5-21, 6-20

REACTIONS. All bearings 23-0-0.

Dieta Offesta (V V)

Max Horz 26=-716(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 26, 25, 13, 24, 23, 22, 21, 20, 19, 18, 17, 16 except 15=-144(LC

Max Grav All reactions 250 lb or less at joint(s) 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16 except 13=402(LC

13), 15=265(LC 20)

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

TOP CHORD 5-6=-316/253, 6-8=-391/312, 8-9=-466/371, 9-10=-541/430, 10-11=-617/490,

11-12=-686/540. 12-13=-800/641

**BOT CHORD** 25-26=-561/716, 24-25=-559/714, 23-24=-559/714, 22-23=-559/714, 21-22=-559/714,

20-21=-559/714, 19-20=-559/714, 18-19=-559/714, 17-18=-559/714, 16-17=-559/714,

15-16=-559/714, 13-15=-559/714

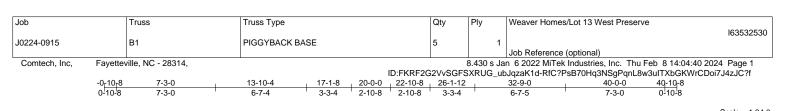
### NOTES-

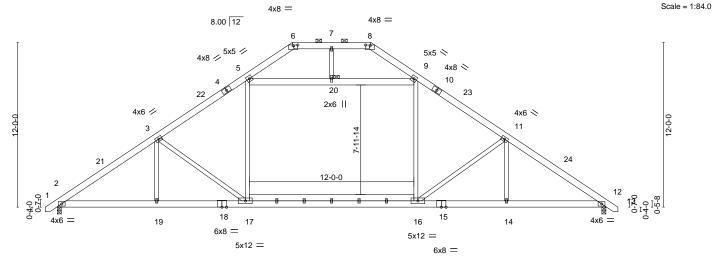
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-8-6 to 5-1-3, Exterior(2) 5-1-3 to 23-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 26, 25, 13, 24, 23, 22, 21, 20, 19, 18, 17, 16 except (jt=lb) 15=144.



February 9,2024







		7-3-0	6-7	7-4		12-3-8	·	6-7-5		7-3-0	
Plate Off	sets (X,Y)	[6:0-4-0,0-0-10], [8:0-4-0,	0-0-10]								
	<b>a</b> / <b>a</b>	001000	0.00			5		1/1 0		DI 4750	
LOADING	G (pst)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.47 14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.58 16-17	>815	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.07 12	n/a	n/a		
BCDI	10.0	Code IRC2015/TP	12014	Matrix	c-S	Wind(LL)	0.40.17-19	>999	240	Weight: 331 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**JOINTS** 

LUMBER-

REACTIONS.

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

2x4 SP No.2 \*Except\* WEBS

5-9: 2x6 SP No.1

(size) 2=0-3-8, 12=0-3-8 Max Horz 2=286(LC 11)

Max Uplift 2=-85(LC 12), 12=-85(LC 13)

Max Grav 2=1765(LC 19), 12=1765(LC 20)

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

TOP CHORD 2-3=-2673/524, 3-5=-2292/539, 5-6=-656/300, 6-7=-501/275, 7-8=-501/275,

8-9=-656/300, 9-11=-2292/539, 11-12=-2674/524

BOT CHORD 2-19=-314/2320, 17-19=-314/2320, 16-17=-122/1893, 14-16=-316/2106, 12-14=-316/2106 **WEBS** 

3-17=-641/250, 5-17=-16/780, 9-16=-16/781, 11-16=-641/251, 5-20=-1389/314,

9-20=-1389/314

### 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 17-2-6, Exterior(2) 17-2-6 to 29-0-5, Interior(1) 29-0-5 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 2, 12.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-8-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-8.

1 Brace at Jt(s): 20

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

February 9,2024

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)

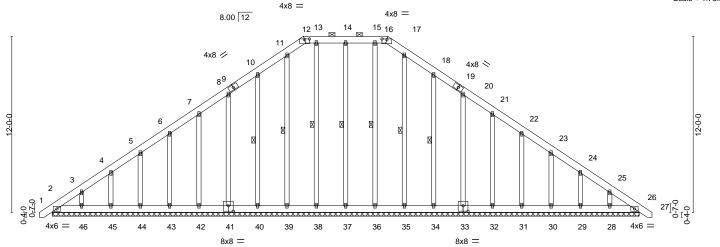


Job Qty Ply Weaver Homes/Lot 13 West Preserve Truss Truss Type 163532531 J0224-0915 B1GE GABLE Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:43 2024 Page 1

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10<sub>-8</sub> 17-1-8 20-0-0 22-10-8 40-0-0 40-10-8 0-10-8 17-1-8 2-10-8 2-10-8

Scale = 1:78.5



40-0-0 40-0-0 [12.0 4 0 0 0 10] [16.0 4 0 0 0 10] [22.0 4 0 0 4 9] [41.0 4 0 0 4 9]

Flate Offsets (A, 1) [12.0-4-0,0-0-10], [10.0-4-0,0-0-10], [55.0-4-0,0-4-0], [41.0-4-0,0-4-0]												
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	26	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	26	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 393 lb	FT = 20%

LUMBER-**BRACING-**

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

TOP CHORD

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

2-0-0 oc purlins (6-0-0 max.): 12-16.

BOT CHORD WFRS

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

14-37, 13-38, 11-39, 10-40, 15-36, 17-35, 18-34

REACTIONS. All bearings 40-0-0.

Max Horz 2=358(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 26, 37, 38, 39, 40, 41, 42, 43, 44, 45, 36, 34, 33, 32, 31, 30,

29, 28 except 2=-106(LC 8), 46=-103(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 26, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34,

33, 32, 31, 30, 29, 28

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

2-3=-363/289, 3-4=-279/255, 8-10=-211/272, 10-11=-275/318, 11-12=-282/324, TOP CHORD

12-13=-268/316, 13-14=-268/316, 14-15=-268/316, 15-16=-268/316, 16-17=-282/324,

17-18=-275/314, 25-26=-268/186

 $2\text{-}46\text{=-}168/263,\ 45\text{--}46\text{=-}168/263,\ 44\text{--}45\text{=-}168/263,\ 43\text{--}44\text{=-}168/263,\ 42\text{--}43\text{=-}168/263,\ 43\text{--}44\text{=-}168/263,\ 42\text{--}43\text{=-}168/263,\ 42\text{--$ 41-42=-168/263, 40-41=-168/263, 39-40=-168/263, 38-39=-168/263, 37-38=-168/263,

36-37=-168/263, 35-36=-168/263, 34-35=-168/263, 33-34=-168/263, 32-33=-168/263,

31-32=-168/263, 30-31=-168/263, 29-30=-168/263, 28-29=-168/263, 26-28=-168/263

### NOTES-

**BOT CHORD** 

- 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 17-2-6, Corner(3) 17-2-6 to 21-7-2, Exterior(2) 21-7-2 to 22-9-10, Corner(3) 22-9-10 to 27-2-7, Exterior(2) 27-2-7 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 37, 38, 39, 40, 41, 42, 43, 44, 45, 36, 34, 33, 32, 31, 30, 29, 28 except (jt=lb) 2=106, 46=103.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 9,2024



Job Qty Ply Weaver Homes/Lot 13 West Preserve Truss Type Truss 163532532 J0224-0915 C1 ATTIC Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:45 2024 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-11-0 0-11-0 5-4-12 8-2-13 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 = 1:78.5 6x8 =

> > Structural wood sheathing directly applied or 5-9-4 oc purlins,

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

except end verticals.

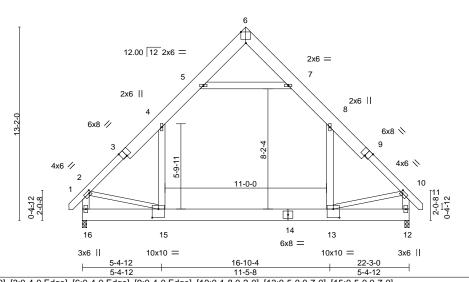


Plate Offsets (X,Y)--[2:0-1-8,0-2-0], [3:0-4-0,Edge], [6:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-8,0-2-0], [13:0-5-0,0-7-0], [15:0-5-0,0-7-0] LOADING (psf) 2-0-0 **PLATES** GRIP SPACING-CSI. DEFL in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.12 13-15 >999 360 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 вс 0.58 Vert(CT) -0.19 13-15 >999 240 **BCLL** WB 0.31 Horz(CT) 0.01 0.0 Rep Stress Incr YES 12 n/a n/a BCDL Code IRC2015/TPI2014 Matrix-S Wind(LL) 15 >999 Weight: 267 lb FT = 20% 10.0 0.05 240

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

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

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

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 2-4=-1676/22, 4-5=-1046/187, 7-8=-1045/187, 8-10=-1675/22, 2-16=-1615/65,

10-12=-1616/65

BOT CHORD 15-16=-426/556, 13-15=0/1123

WFBS 5-7=-1196/266, 4-15=0/744, 8-13=0/744, 2-15=-2/1037, 10-13=-11/1043

### 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.



February 9,2024



Job Truss Truss Type Qty Weaver Homes/Lot 13 West Preserve 163532533 J0224-0915 GABLE C1GE Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 9 11:49:55 2024 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-2C2U2ZRspLQNZRS8TxBLWe6Bt8NDqptlqEzNaezmuXA -0-10-8 0-10-8 12-0-0 24-0-0 24-10-8 0-10-8 12-0-0 Scale = 1:53.4 5x5 =8 8.00 12 10 11 5 12 13 3x4 26 25 16 24 23 22 21 20 19 18 17 8x8 = 24-0-0 Plate Offsets (X,Y)--[20:0-4-0,0-4-8] LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP 2-0-0 CSI. I/defl in (loc)

**BCDL** 10.0

**TCLL** 

TCDL

**BCLL** 

LUMBER-

**OTHERS** 

**BRACING-**

Vert(LL)

Vert(CT)

Horz(CT)

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

20.0

10.0

0.0

TOP CHORD **BOT CHORD** 

0.00

0.00

0.00

14

14

14

n/r

n/r

n/a

120

120

n/a

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

MT20

Weight: 195 lb

REACTIONS. All bearings 24-0-0.

2x4 SP No.2

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

> 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

0.03

0.02

0.16

TC

BC

WB

Matrix-S

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.

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

- 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.

1.15

1.15

YES

- 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
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



244/190

FT = 20%

February 9,2024



Job Qty Ply Weaver Homes/Lot 13 West Preserve Truss Type Truss 163532534 J0224-0915 C2 ATTIC Job Reference (optional)

6x8 =

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:47 2024 Page 1

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

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

except end verticals.

Scale = 1:78.5

ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 8-2-13 11-1-8 14-0-3 2-10-11 16-10-4 22-3-0 2-10-11 5-4-12 2-10-1 2-10-1 5-4-12

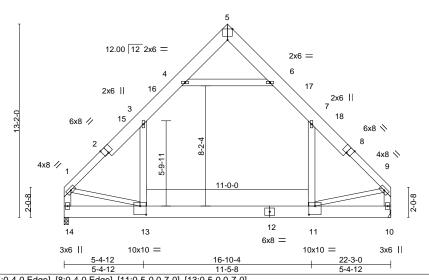


Plate Offsets (A, 1) [2.0-4-0, Edge], [5.0-4-0, Edge], [6.0-4-0, Edge], [11.0-5-0, 0-7-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.12 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.20 11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01 10	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-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

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=256(LC 9)

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=-1043/150, 6-7=-1043/150, 7-9=-1657/0, 1-14=-1567/0, 9-10=-1568/0

**BOT CHORD** 13-14=-285/369, 11-13=0/1080

WEBS 4-6=-1228/196, 3-13=0/728, 7-11=0/728, 1-13=0/1035, 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
- Refer to girder(s) for truss to truss connections.
- 8) Attic room checked for L/360 deflection.



February 9,2024



Job Qty Weaver Homes/Lot 13 West Preserve Truss Type Plv Truss 163532535 J0224-0915 СЗ ATTIC Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:49 2024 Page 1

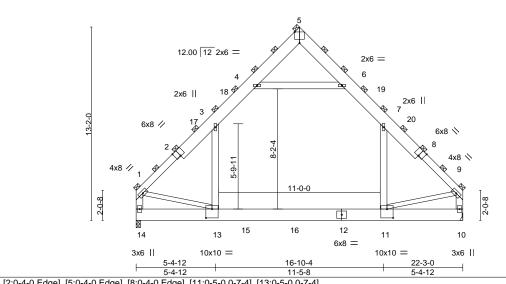
ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-4-12 8-2-13 11-1-8 14-0-3 2-10-11 16-10-4 22-3-0 5-4-12 2-10-1 2-10-11 2-10-1 5-4-12

> Scale = 1:78.5 6x8 =

> > 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).



1 1010 011	1 late Cheste (X, 1) [2.5 + 6,2ago], [6.6 + 6,2ago], [6.6 + 6,2ago], [1.6 + 6,2ago]											
LOADIN	G (psf)	SPACING- 3-	-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.14 11-13	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL 1	1.15	BC	0.76	Vert(CT)	-0.22 11-13	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01 10	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI20	)14	Matri	x-S	Wind(LL)	0.04 11-13	>999	240	Weight: 524 lb	FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

1-2,8-9: 2x6 SP No.1 2x10 SP No.1

BOT CHORD 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 9)

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=-3252/47, 3-4=-1860/268, 4-5=-57/486, 5-6=-59/420, 6-7=-1926/278, 7-9=-3168/41,

1-14=-3093/67, 9-10=-3004/54 13-14=-426/580, 11-13=0/2086 BOT CHORD

4-6=-2516/391, 3-13=0/1662, 7-11=0/1480, 1-13=0/1969, 9-11=0/2075 WFBS

### 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.
- 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) 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



February 9,2024

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 Qty Weaver Homes/Lot 13 West Preserve Truss Truss Type Ply 163532535 J0224-0915 СЗ ATTIC Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Feb 8 14:04:49 2024 Page 2 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

### 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 Weaver Homes/Lot 13 West Preserve 163532536 J0224-0915 6 C4 FINK Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 9 11:50:08 2024 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-AiKPn0b0lL2XdRyekAwPYN8H\_Nj6NguDpldZWOzmuWz 7-9-12 12-0-0 16-2-4 4-2-4 24-0-0 7-9-12 24-10-8 0-10-8 4-2-4 Scale = 1:52.2 4x6 =5 2x4 = 2x4 = 2x4 || 2x4 || 8.00 12 9-0-0 4-10-9 14 13 8-1-0 • 11 12 10 4×4 4x6 = 2x4 II 2x4 || 7-9-12 16-2-4 24-0-0 7-9-12 [2:0-0-10,Edge], [5:0-3-0,Edge], [8:0-0-10,Edge] Plate Offsets (X,Y)--LOADING (psf) DEFL. L/d **PLATES** GRIP SPACING-2-0-0 CSI. in (loc) I/defl Plate Grip DOL TC 0.59 244/190 **TCLL** 20.0 1.15 Vert(LL) -0.17 10-12 >999 360 MT20 ВС TCDL 10.0 Lumber DOL 1.15 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

Wind(LL)

**BRACING-**TOP CHORD

**BOT CHORD** 

0.15 2-12 >999

240

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

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

Weight: 155 lb

FT = 20%

LUMBER-

**BCDL** 

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

10.0

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.

Code IRC2015/TPI2014

TOP CHORD 2-3=-1548/251, 3-4=-1077/310, 4-5=-98/433, 5-6=-98/433, 6-7=-1077/310, 7-8=-1548/251

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

Matrix-S

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 Homes/Lot 13 West Preserve 163532537 J0224-0915 G2GR FINK Job Reference (optional) Comtech, Inc., Favetteville, NC 28309 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 9 11:59:40 2024 Page 1 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-QlueqbWp257MFLhaEIBXk?q4xyvvODVPLlBrcEzmuO1 6-6-11 6-6-11 17-5-6 24-0-0 24-10-8 0-10-8 6-6-10 Scale = 1:51.3 8x8 =8.00 12 2x4 \\ 2x4 // 0-2-0 10 11 12 13 9 15 16 17 8 18 7 19 5x8 = 5x8 = 5x12 || 6x8 = 4x12 ||15-7-9 24-0-0 8-4-7 [7:0-8-0,0-1-8], [9:0-7-12,0-2-4] Plate Offsets (X,Y)--DEFL L/d GRIP SPACING-2-0-0 CSI. I/defl **PLATES** in (loc) 244/190 20.0 Plate Grip DOL 1.15 TC 0 44 Vert(LL) -0.127-9 >999 360 MT20 Vert(CT) -0.24 7-9 >999 240

LOADING (psf)

TCLL TCDL 10.0 Lumber DOL 1.15 BC 0.54 BCLL 0.0 Rep Stress Incr NO WB 0.87 **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S

Horz(CT) Wind(LL) **BRACING-**

TOP CHORD **BOT CHORD** 

0.04

0.01

5

9 >999

n/a

n/a

240

Structural wood sheathing directly applied or 4-6-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

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

(size) 1=0-3-8 (req. 0-3-11), 5=0-3-8 REACTIONS.

Max Horz 1=-199(LC 4)

Max Grav 1=8971(LC 2), 5=6412(LC 2)

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

TOP CHORD 1-2=-11386/0, 2-3=-11248/0, 3-4=-10554/0, 4-5=-10720/0

**BOT CHORD** 1-9=0/9418, 7-9=0/6365, 5-7=0/8820

**WEBS** 2-9=-346/216, 3-9=0/7114, 3-7=0/5738, 4-7=-315/224

### 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.
- 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); 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.
- 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, with BCDL = 10.0psf.
- 7) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) 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: 1-5=-20, 1-3=-60, 3-6=-60



Weight: 403 lb

FT = 20%

February 9,2024

Continued on page 2

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 Homes/Lot 13 West Preserve	
J0224-0915	G2GR	FINK	1	2	Job Reference (optional)	63532537

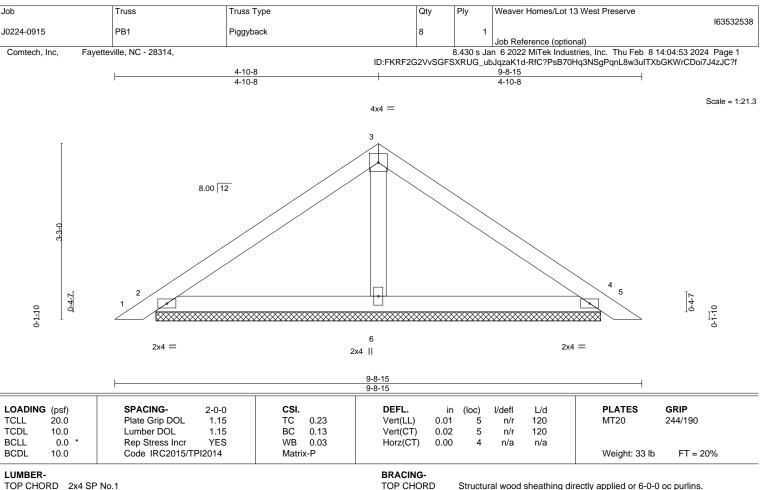
Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 9 11:59:40 2024 Page 2 ID:FKRF2G2VvSGFSXRUG\_ubJqzaK1d-QlueqbWp257MFLhaElBXk?q4xyvvODVPLlBrcEzmuO1

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=-1147(F) 11=-1146(F) 12=-1146(F) 13=-1146(F) 14=-1146(F) 16=-1146(F) 17=-1146(F) 18=-1146(F) 19=-1961(F)





**BOT CHORD** 

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

**BOT CHORD** OTHERS

2x4 SP No.1 2x4 SP No.2

REACTIONS.

(size) 2=8-2-11, 4=8-2-11, 6=8-2-11

Max Horz 2=-74(LC 10)

Max Uplift 2=-36(LC 12), 4=-44(LC 13)

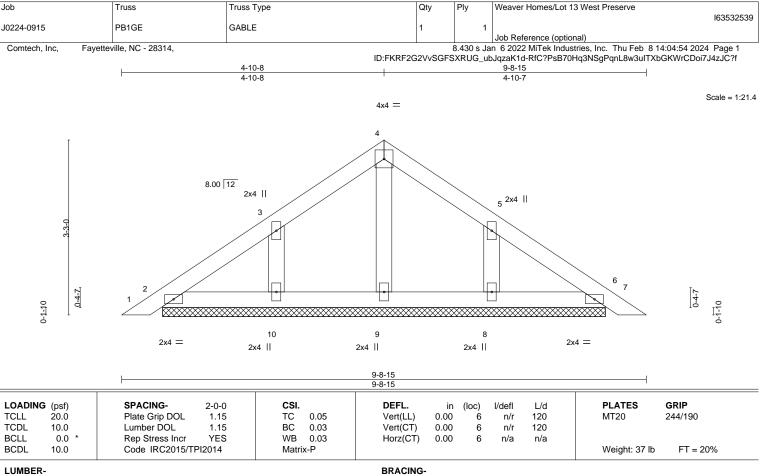
Max Grav 2=211(LC 1), 4=211(LC 1), 6=297(LC 1)

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

- 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.







TOP CHORD

**BOT CHORD** 

LUMBER-

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

OTHERS 2x4 SP No 2

REACTIONS. All bearings 8-2-11. (lb) -Max Horz 2=-92(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-112(LC 12), 8=-111(LC 13)

All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 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, 6 except (jt=lb) 10=112, 8=111,
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

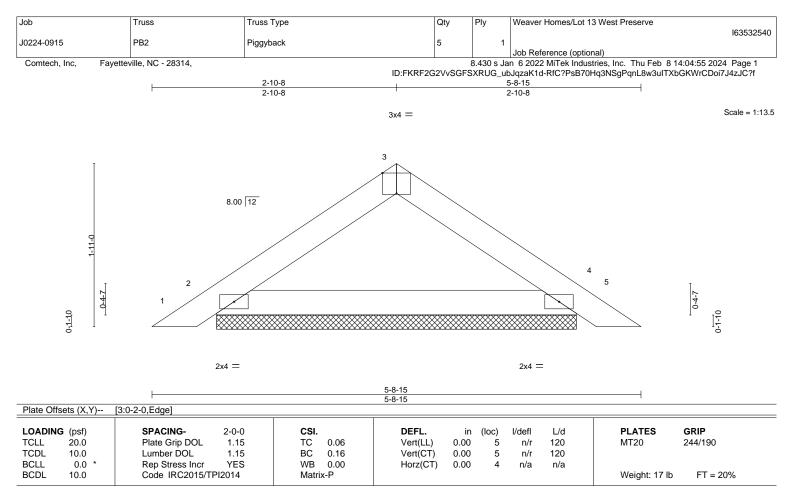
February 9,2024

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)





**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

> (size) 2=4-2-11, 4=4-2-11 Max Horz 2=42(LC 11)

Max Uplift 2=-16(LC 12), 4=-16(LC 13) Max Grav 2=199(LC 1), 4=199(LC 1)

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

- 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.



Structural wood sheathing directly applied or 5-8-15 oc purlins.

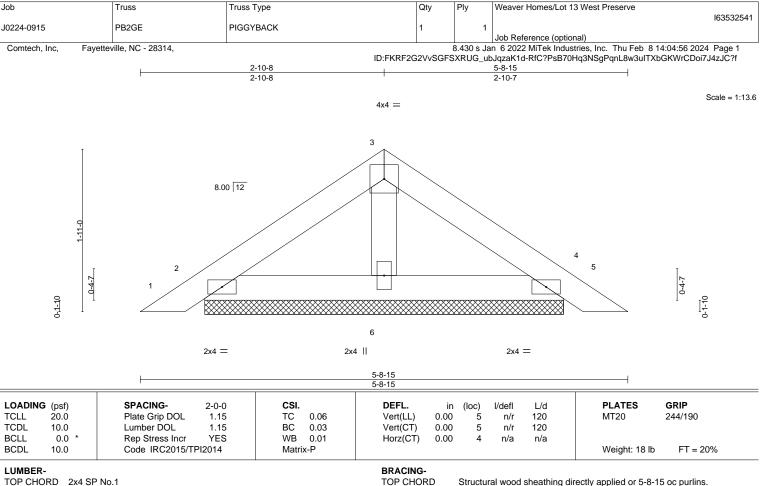
Rigid ceiling directly applied or 10-0-0 oc bracing.

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)





**BOT CHORD** 

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

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

REACTIONS.

(size) 2=4-2-11, 4=4-2-11, 6=4-2-11

Max Horz 2=-52(LC 10)

Max Uplift 2=-47(LC 12), 4=-54(LC 13), 6=-1(LC 12) Max Grav 2=125(LC 1), 4=125(LC 1), 6=148(LC 1)

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

- 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





### 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.

₹

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: ANSI/TPI1: National Design Specification for Metal

DSB-22:

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.

## 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.

© 2023 MiTek® All Rights Reserved

### MITOK



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.
- 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.
- 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.

œ

- 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.