

### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: B0318-0840 Freelance A

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

Pages or sheets covered by this seal: E11513721 thru E11513738

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



March 5,2018

Lassiter, Frank

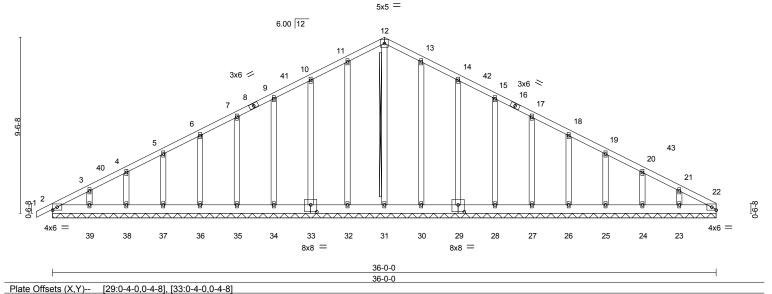
**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job Truss Truss Type Qty Freelance A PΙν E11513721 B0318-0840 Α1 COMMON SUPPORTED GAB

Job Reference (optional) Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:24 2018 Page 1

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Scale = 1:62.5



LOADING (psf) SPACING-2-0-0 CSI. DEFI in (loc) I/defl I/d **PLATES** GRIP Plate Grip DOL TC 0.09244/190 TCLL 20.0 1.15 Vert(LL) -0.00 n/r 120 MT20 BC TCDL 10.0 Lumber DOL 1.15 0.03 Vert(TL) -0.00n/r 120 **BCLL** 0.0 WB 0.16 0.01 22 Rep Stress Incr YES Horz(TL) n/a n/a Ode IRC2009/TPI2007 BCDL 10.0 Matrix-S Weight: 262 lb FT = 20%

LUMBER-

Comtech. Inc.,

TOP CHORD 2x4 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No 3 OTHERS

BRACING-

TOP CHORD **BOT CHORD** WFBS

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 - 12-31 T-Brace:

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 36-0-0

Max Horz 2=178(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 2, 32, 34, 35, 36, 37, 38, 30, 28, 27, 26, 25, 24 except

33=-100(LC 6), 39=-107(LC 6), 29=-101(LC 7), 23=-126(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 2, 31, 32, 33, 34, 35, 36, 37, 38, 39, 30, 29, 28, 27, 26,

25, 24, 23, 22

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

2-3=-281/27, 10-11=-43/337, 11-12=-46/442, 12-13=-46/442, 13-14=-43/337, TOP CHORD

21-22=-277/22

**BOT CHORD** 2-39=0/285, 38-39=0/285, 37-38=0/285, 36-37=0/285, 35-36=0/285, 34-35=0/285,

33-34=0/285, 32-33=0/285, 31-32=0/285, 30-31=0/285, 29-30=0/285, 28-29=0/285,

27-28=0/285, 26-27=0/285, 25-26=0/285, 24-25=0/285, 23-24=0/285, 22-23=0/285

**WEBS** 21-23=-128/261

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 13-7-3, Corner(3) 13-7-3 to 18-0-0, Exterior(2) 22-4-13 to 31-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 32, 34, 35, 36, 37, 38, 30, 28, 27, 26, 25, 24 except (jt=lb) 33=100, 39=107, 29=101, 23=126.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 5,2018



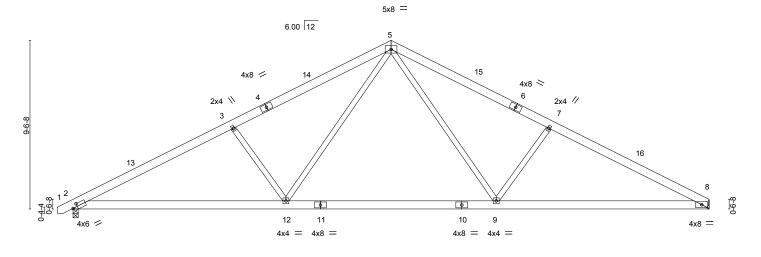
Edenton, NC 27932



mtech, Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:24 2018 Page 1

| O-10-8 9-0-14 18-0-0 26-11-2 9-0-14
| O-10-8 9-0-14 8-11-2 8-11-2 9-0-14

Scale = 1:65.2



		1200		20 11 7		00 0 0	
	-	12-0-9	1	11-10-13		12-0-9	
Plate Offse	ets (X,Y)	[2:0-3-4,0-2-0]					
LOADING	(nef)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP	
TCLL	20.Ó	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.40 9-12	>999 360	MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.69	()	>745 240		
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2009/TPI2007	WB 0.64 Matrix-S	Horz(TL) 0.09 8 Wind(LL) 0.08 8-9	n/a n/a >999 240	Weight: 228 lb FT = 20%	

23-11-7

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.3

**REACTIONS.** (lb/size) 2=1723/0-3-8, 8=1669/Mechanical

Max Horz 2=148(LC 6)

Max Uplift 2=-265(LC 6), 8=-222(LC 7)

 $\textbf{FORCES.} \quad \text{(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.}$ 

12-0-9

TOP CHORD 2-3=-3119/954, 3-5=-2811/948, 5-7=-2822/962, 7-8=-3111/971

BOT CHORD 2-12=-705/2682, 9-12=-325/1773, 8-9=-728/2703 WEBS 5-9=-285/1167, 7-9=-542/435, 5-12=-266/1150, 3-12=-524/413

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 13-7-3, Exterior(2) 13-7-3 to 18-0-0, Interior(1) 22-4-13 to 31-6-7 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=265, 8=222.



36-0-0

Structural wood sheathing directly applied or 3-11-12 oc purlins.

Rigid ceiling directly applied or 9-2-1 oc bracing.

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MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 parelers and property 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

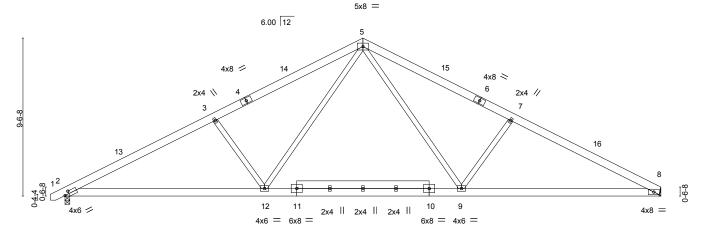




Comtech, Inc., Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:25 2018 Page 1  $ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-N?euL7thhBspmIG\_UJwO\_DVuaRLaWEcZIrsbPaze14m$ -0<u>-10-8</u> 0-10-8 9-0-14 18-0-0 36-0-0 26-11-2 9-0-14 8-11-2 9-0-14 8-11-2

Scale = 1:69.6



	L	12-0-	·9			22-0-0		23-11-7			30-0-0	
	<u>'</u>	12-0-	-9	I		9-11-7		<sup>'</sup> 1-11-7	1		12-0-9	1
Plate Offset	s (X,Y)	[2:0-3-4,0-2-0]										
LOADING	(f)	ODAOINO	0.00	001		DEEL		(1)	1/-161	1.74	DI ATEO	ODID
LOADING	(pst)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL :	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.56	9-12	>761	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(TL)	-0.74	9-12	>583	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.10	8	n/a	n/a		
BCDL	10.0	Code IRC2009/TF	12007	Matrix	k-S	Wind(LL)	0.08	8-9	>999	240	Weight: 246 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

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

2x4 SP No.3 \*Except\* WFBS

10-11: 2x6 SP No.1

**REACTIONS.** (lb/size) 2=1842/0-3-8, 8=1787/Mechanical

Max Horz 2=148(LC 6)

Max Uplift 2=-265(LC 6), 8=-222(LC 7)

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

TOP CHORD 2-3=-3403/954, 3-5=-3096/948, 5-7=-3108/962, 7-8=-3419/971

**BOT CHORD** 2-12=-705/2932, 9-12=-325/1946, 8-9=-728/2955

WEBS 5-9=-285/1318, 7-9=-534/435, 5-12=-266/1301, 3-12=-514/413

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 13-7-3, Exterior(2) 13-7-3 to 18-0-0, Interior(1) 22-4-13 to 31-6-7 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=265, 8=222.



Structural wood sheathing directly applied or 3-9-7 oc purlins.

Rigid ceiling directly applied or 9-2-1 oc bracing.

March 5,2018





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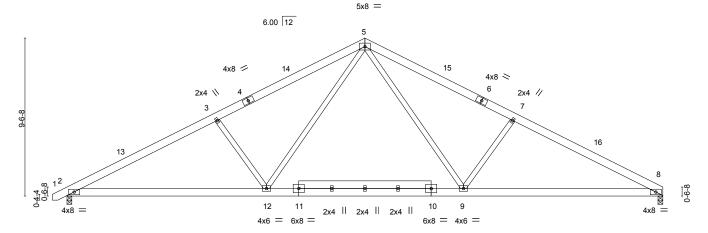
9-0-14

18-0-0

26-11-2

9-0-14

Scale = 1:69.6



	12-0-9	23-11-7	36-0-0
	12-0-9	11-10-13	12-0-9
LOADING (psf)	SPACING- 2-3-0	,	oc) I/defl L/d PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55 Vert(LL) -0.53 9-	12 >807 360 MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60   Vert(TL) -0.70 9-	12 >608 240
BCLL 0.0 *	Rep Stress Incr NO	WB 0.70 Horz(TL) 0.09	8 n/a n/a
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S Wind(LL) 0.08 2-	12 >999 240 Weight: 246 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP 2400F 2.0E WEBS 2x4 SP No.3 \*Except\*

10-11: 2x6 SP No.1

**REACTIONS.** (lb/size) 2=2067/0-3-8, 8=2008/0-3-8

Max Horz 2=166(LC 6) Max Uplift 2=-297(LC 6), 8=-249(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3817/1071, 3-5=-3472/1064, 5-7=-3474/1076, 7-8=-3820/1085

BOT CHORD 2-12=-789/3288, 9-12=-363/2180, 8-9=-810/3294

WEBS 5-9=-316/1466, 7-9=-584/484, 5-12=-299/1463, 3-12=-576/463

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 13-7-3, Exterior(2) 13-7-3 to 18-0-0, Interior(1) 22-4-13 to 31-5-7 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 with a clearance greater than 6-0-0 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) 2=297, 8=249.



Structural wood sheathing directly applied or 3-6-2 oc purlins.

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

March 5,2018



Job Qty Truss Truss Type PΙν Freelance A E11513725 B0318-0840 A4-P COMMON Job Reference (optional)

8-11-2

Comtech, Inc., Fayetteville, NC 28309

18-0-0

8-11-2

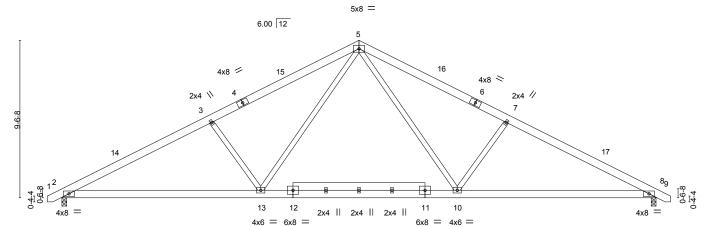
8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:26 2018 Page 1 ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-rBCGYTuJSU\_gOSrA21RdXR21VrmYFfRiXVc8x0ze14I 36-10<sub>-</sub>8 0-10-8 36-0-0 26-11-2

Structural wood sheathing directly applied or 3-7-8 oc purlins.

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

9-0-14

Scale = 1:69.8



12-0-9	23-11-7	36-0-0	
12-0-9	11-10-13	12-0-9	'
LOADING (psf)         SPACING-         2-3           TCLL 20.0         Plate Grip DOL 1.         1.           TCDL 10.0         Lumber DOL 1.         1.           BCLL 0.0 *         Rep Stress Incr         N           BCDL 10.0         Code IRC2009/TPI200	TC 0.52 Vert(LL) -0.53 10-1 BC 0.60 Vert(TL) -0.70 10-1	3 >812 360 MT20 3 >610 240 8 n/a n/a	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E 2x4 SP No.3 \*Except\* **WEBS** 

-0-10-8 0-10-8

9-0-14

9-0-14

11-12: 2x6 SP No.1

REACTIONS. (lb/size) 2=2067/0-3-8, 8=2067/0-3-8

Max Horz 2=161(LC 6)

Max Uplift 2=-297(LC 6), 8=-297(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3815/1062, 3-5=-3470/1056, 5-7=-3470/1056, 7-8=-3815/1062 **BOT CHORD** 2-13=-757/3286, 10-13=-332/2179, 8-10=-757/3286

**WEBS** 5-10=-298/1463, 7-10=-576/462, 5-13=-298/1463, 3-13=-576/462

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 13-7-3, Exterior(2) 13-7-3 to 18-0-0, Interior(1) 22-4-13 to 32-3-13 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 with a clearance greater than 6-0-0 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) 2=297, 8=297.



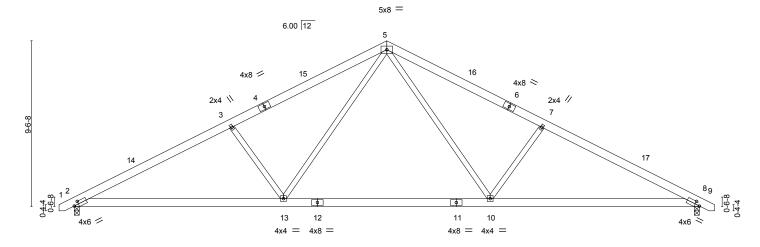
March 5,2018



Job	Truss	Truss Type	Qty	Ply	Freelance A	
					E1151372	)
B0318-0840	A5	COMMON	4	1		
					Job Reference (optional)	
Comtech, Inc., Fayette	eville, NC 28309		8.	130 s Sep	15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:27 2018 Page 1	_

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Scale = 1:66.3



	12-0-9		11-10-13		12-0-9
Plate Offsets (X,	) [2:0-3-4,0-2-0], [8:0-3-4,0-2-0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	CSI. TC 0.35 BC 0.69 WB 0.59 Matrix-S	DEFL.         in (loc)           Vert(LL)         -0.40 10-13           Vert(TL)         -0.57 10-13           Horz(TL)         0.09         8           Wind(LL)         0.08 2-13	l/defl L/d >999 360 >747 240 n/a n/a >999 240	PLATES GRIP MT20 244/190  Weight: 230 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

23-11-7

LUMBER-

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

WFBS 2x4 SP No 3

REACTIONS. (lb/size) 2=1718/0-3-8, 8=1718/0-3-8

Max Horz 2=-143(LC 7) Max Uplift 2=-264(LC 6), 8=-264(LC 7)

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

12-0-9

TOP CHORD 2-3=-3109/945, 3-5=-2801/939, 5-7=-2801/939, 7-8=-3109/945

2-13=-674/2673, 10-13=-295/1764, 8-10=-674/2673 **BOT CHORD** 

**WEBS** 5-10=-265/1150, 7-10=-524/412, 5-13=-265/1150, 3-13=-524/412

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 13-7-3, Exterior(2) 13-7-3 to 18-0-0, Interior(1) 22-4-13 to 32-3-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2=264, 8=264.



36-0-0

Structural wood sheathing directly applied or 4-0-14 oc purlins.

Rigid ceiling directly applied or 9-6-2 oc bracing.



Job Qty Freelance A Truss Truss Type PΙν E11513727 B0318-0840 A6 COMMON SUPPORTED GAB Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309

18-0-0

18-0-0

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:28 2018 Page 1 ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-nZK1z9va\_6EOdl?Z9RU5cs7Uleb2jho?\_p5F0vze14j 36-10-8 0-10-8 36-0-0 18-0-0

Scale = 1:63.0

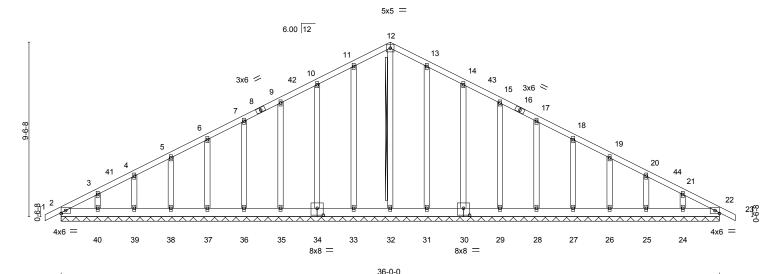


Plate Offs	ets (X,Y)	[30:0-4-0,0-4-8], [34:0-4-0	0,0-4-8]									
								,, ,				
LOADING	i (pst)	SPACING-	2-0-0	CSI.		DEFL.	ın	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	22	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	-0.00	22	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.01	22	n/a	n/a		
BCDL	10.0	Code IRC2009/TP	12007	Matri	x-S						Weight: 263 lb	FT = 20%

36-0-0

LUMBER-

-0-10-8

0-10-8

TOP CHORD 2x4 SP No.1 2x6 SP No.1 **BOT CHORD** 2x4 SP No 3 OTHERS

BRACING-

TOP CHORD **BOT CHORD** WFBS

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 - 12-32 T-Brace:

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 36-0-0

Max Horz 2=169(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 35, 36, 37, 38, 39, 31, 29, 28, 27, 26, 25, 22 except

34=-100(LC 6), 40=-107(LC 6), 30=-101(LC 7), 24=-103(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24, 22

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

TOP CHORD 2-3=-279/30, 10-11=-43/341, 11-12=-46/446, 12-13=-46/446, 13-14=-43/341

BOT CHORD 2-40=0/299, 39-40=0/299, 38-39=0/299, 37-38=0/299, 36-37=0/299, 35-36=0/299,

34-35=0/299, 33-34=0/299, 32-33=0/299, 31-32=0/299, 30-31=0/299, 29-30=0/299, 28-29=0/299, 27-28=0/299, 26-27=0/299, 25-26=0/299, 24-25=0/299, 22-24=0/299

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 13-7-3, Corner(3) 13-7-3 to 18-0-0, Exterior(2) 22-4-13 to 32-5-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 33, 35, 36, 37, 38, 39, 31, 29, 28, 27, 26, 25, 22 except (jf=lb) 34=100, 40=107, 30=101, 24=103.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 5,2018

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



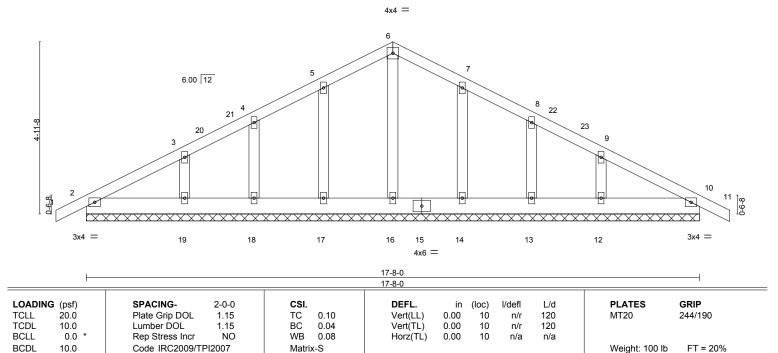
Edenton, NC 27932

Job Qty Truss Truss Type Freelance A PΙν E11513728 B0318-0840 В1 COMMON GIRDER Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:29 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-GmuPBVwCkPMEFvZlj9?K93gfN2x7S9J9DTqoYLze14i8-10-0 17-8-0 18-6-8 -0-10-8 0-10-8 8-10-0 8-10-0 0-10-8

Scale = 1:33.2



LUMBER-

2x4 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 2x4 SP No.3 OTHERS

**BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 17-8-0

(lb) -Max Horz 2=-91(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 10, 18, 13, 2 except 17=-102(LC 6), 19=-130(LC 6), 14=-101(LC

7), 12=-129(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 10, 16, 17, 18, 19, 14, 13, 12, 2

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

5-6=-46/265, 6-7=-46/265 TOP CHORD **WEBS** 3-19=-152/264, 9-12=-152/264

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 4-5-3, Corner(3) 4-5-3 to 8-10-0, Exterior(2) 13-2-13 to 14-1-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 10, 18, 13, 2 except (jt=lb) 17=102, 19=130, 14=101, 12=129.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



March 5,2018

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Edenton, NC 27932

 Job
 Truss
 Truss Type
 Qty
 Ply
 Freelance A

 B0318-0840
 B2
 COMMON GIRDER
 1
 2
 Job Reference (optional)

 Comtech, Inc.,
 Fayetteville, NC 28309
 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:30 2018 Page 1

Scale = 1:34.3

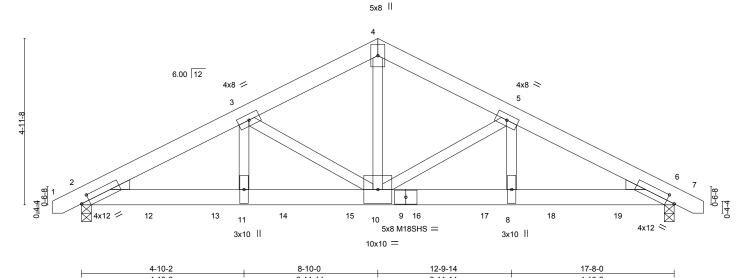


Plate Offsets (X,Y)	4-10-2 [2:0-2-15,0-2-2], [6:0-2-15,0-2-2]	3-11-14	3-11-14	4-10-2
LOADING (psf) TCLL 20.0	SPACING- 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.13 8-10 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(TL) -0.26 8-10 >804 240	M18SHS 244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Horz(TL) 0.09 6 n/a n/a	Weight: 238 lb FT = 20%
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.08 10-11 >999 240	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP 2400F 2.0E WEBS 2x4 SP No.3 \*Except\*

4-10: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

**REACTIONS.** (lb/size) 6=7868/0-3-8, 2=7288/0-3-8

Max Horz 2=-77(LC 6)

Max Uplift 6=-1104(LC 6), 2=-1055(LC 5)

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

TOP CHORD 2-3=-12796/1769, 3-4=-9115/1283, 4-5=-9116/1284, 5-6=-13171/1780

BOT CHORD 2-11=-1568/11281, 10-11=-1568/11281, 8-10=-1502/11623, 6-8=-1502/11623

WEBS 4-10=-1037/7660, 5-10=-4098/619, 5-8=-473/4030, 3-10=-3696/606, 3-11=-464/3665

### NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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 7-05: 110mph; TCDI =6 0nsf; BCDI =5 0nsf; h=15ft;
- 4) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) except (jt=lb) 6=1104, 2=1055.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1649 lb down and 232 lb up at 2-0-12, 1649 lb down and 232 lb up at 4-0-12, 1649 lb down and 232 lb up at 6-0-12, 1649 lb down and 232 lb up at 8-0-12, 1767 lb down and 232 lb up at 10-0-12, 1767 lb down and 232 lb up at 10-0-12, and 1767 lb down and 232 lb up at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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

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

March 5,2018

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MTek® 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 property 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Ply Job Truss Truss Type Qty Freelance A E11513729 B0318-0840 B2 COMMON GIRDER Job Reference (optional)

Fayetteville, NC 28309 Comtech, Inc.,

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:30 2018 Page 2 ID:qBVty8JxTR2c0jvlHgLUvLzeJa3-kySnOrxqVjU5t38xHsWZhHCjLS6\_BP6IS7aM4oze14h

### LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 12=-1649(B) 13=-1649(B) 14=-1649(B) 15=-1649(B) 16=-1767(B) 17=-1767(B) 18=-1767(B) 19=-1767(B)



Job	Truss	Truss Type	Qty	Ply	Freelance A	
					E11513730	
B0318-0840	G1	COMMON SUPPORTED GAB	1	1		
					Job Reference (optional)	
Comtech. Inc Fave	tteville, NC 28309		8.	130 s Sep	15 2017 MiTek Industries, Inc. Mon Mar. 5 08:27:30 2018 Page 1	

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-kySnOrxqVjU5t38xHsWZhHCriSHYBdrlS7aM4oze14h 20-10-8 µ21-9-0 21-9-0 10-0-0 0-10-8

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

Scale = 1:34.9

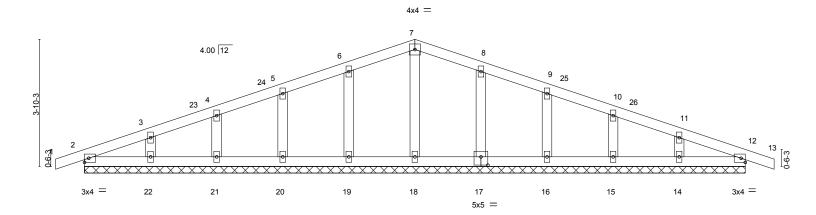


Plate Offset	1	[17:0-2-8,0-3-0]				20-10-8 20-0-0						21-9-0 0-10-8
	(psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.06 0.02 0.06	DEFL. Vert(LL) Vert(TL) Horz(TL)	in -0.00 -0.00 0.00	(loc) 12 12 12	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code IRC2009/TF	12007	Matrix	k-S						Weight: 88 lb	FT = 20%

LUMBER-**BRACING-**TOP CHORD

10-10-8

10-0-0

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No 3 OTHERS

-0-10-8

0-10-8

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-0-0

(lb) - Max Horz 2=-67(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12 All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 5-7-3, Corner(3) 5-7-3 to 10-0-0, Exterior(2) 14-4-13 to 16-5-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 19, 20, 21, 22, 17, 16, 15, 14, 12.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 5,2018

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Freelance A	
					E11513731	
B0318-0840	G2	Common	5	1		
					Job Reference (optional)	
Comtech, Inc., Fayette	ville, NC 28309		8.	130 s Sep	15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:31 2018 Page 1	

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-C809cBxSG1cyUDj8ra1oEUlt8sQ?w2KSgnJvdEze14g 20-0-0 20-10-8

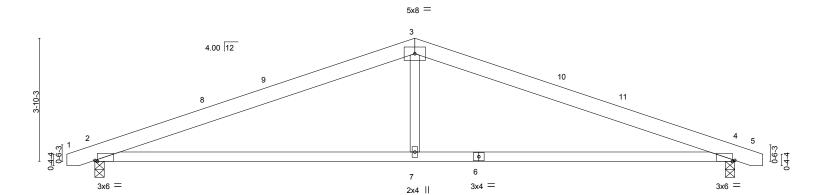
Structural wood sheathing directly applied or 5-0-13 oc purlins.

Rigid ceiling directly applied or 9-1-5 oc bracing.

10-0-0

Scale = 1:36.0

0-10-8



		10-0-0		1		20-0-0		
		10-0-0		!		10-0-0		<u>'</u>
Plate Offset	ts (X,Y)	[2:0-0-15,Edge], [4:0-0-15,Edge]						
LOADING	(psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in	(loc) I/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.17	2-7 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.78	Vert(TL) -0.48	2-7 >491	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.17	Horz(TL) 0.05	4 n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.07	2-7 >999	240	Weight: 88 lb	FT = 20%

**BOT CHORD** 

LUMBER-**BRACING-**TOP CHORD

10-0-0

10-0-0

TOP CHORD 2x6 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No.3 WFBS

0-10-8

0-10-8

REACTIONS. (lb/size) 2=838/0-3-8, 4=838/0-3-8

Max Horz 2=-54(LC 7)

Max Uplift 2=-180(LC 4), 4=-180(LC 5)

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

TOP CHORD 2-3=-1438/620, 3-4=-1438/620 **BOT CHORD** 2-7=-462/1294, 4-7=-462/1294

**WEBS** 3-7=0/455

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-3 to 3-8-10, Interior(1) 3-8-10 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 14-4-13 to 16-3-6 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=180, 4=180
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer



March 5,2018



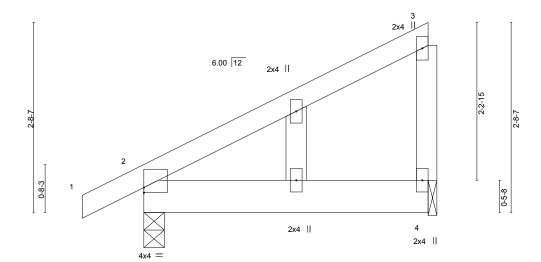
Job Truss Truss Type Qty Freelance A E11513732 B0318-0840 М1 **GABLE** 2 Job Reference (optional)

Fayetteville, NC 28309

8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:32 2018 Page 1 ID: qBVty8JxTR2c0jvIHgLUvLzeJa3-gLaXpXy41Klp6NIKOHY1nil6vGuzfXHbvR3T9gze14f

-0-10-8 4-2-0 4-2-0 0-10-8

Scale = 1:16.4



4-2-0 4-2-0

Plate Offsets (X,Y)	[2:Edge,0-0-14]			
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI</b> . TC 0.33	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.00         2-4         >999         360         MT20         244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(TL) -0.01 2-4 >999 240	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2009/TPI2007	WB 0.00 Matrix-P	Horz(TL) -0.00 4 n/a n/a Wind(LL) 0.00 2 **** 240 Weight: 22 lb FT = 20%	

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3 WFBS 2x4 SP No.3 OTHERS

Comtech. Inc.,

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.

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

**REACTIONS.** (lb/size) 2=224/0-3-8, 4=144/0-1-8

Max Horz 2=139(LC 6)

Max Uplift 2=-105(LC 6), 4=-92(LC 6)

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

TOP CHORD 3-4=-106/275

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 3) Gable studs spaced at 2-0-0 oc.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=105.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 5,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Freelance A E11513733 B0318-0840 М2 MONOPITCH 3 Job Reference (optional) Comtech. Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:32 2018 Page 1 ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-gLaXpXy41Klp6NIKOHY1nil8gGwefXHbvR3T9gze14f-0-10-8 4-2-0 0-10-8 4-2-0 Scale = 1:16.4 6.00 12 0-8-3 2x4 || 4-2-0

				4-2-0
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 0.22	Vert(LL) -0.00 2-4 >999 360 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(TL) -0.01 2-4 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 4 n/a n/a
BCDL	10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00 2 **** 240 Weight: 21 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3 WEBS

**BRACING-**

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.

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

REACTIONS. (lb/size) 2=224/0-3-8, 4=144/0-1-8

Max Horz 2=98(LC 6) Max Uplift 2=-64(LC 6), 4=-51(LC 6)

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

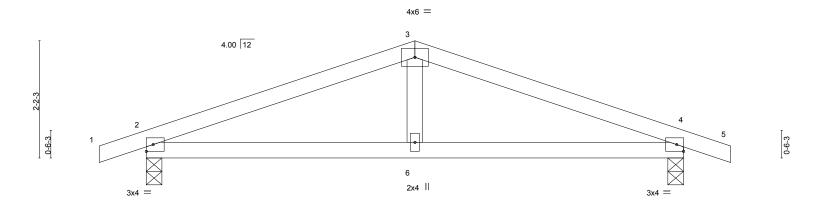
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer





Job Qty Freelance A Truss Truss Type PΙν E11513734 B0318-0840 Р1 COMMON Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:34 2018 Page 1 ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-cjhIEC\_KZy?XLgSjWibVs7NUx3bc7QQuMkYZDZze14d -0-10-8 5-0-0 10-0-0 10-10-8 0-10-8 5-0-0 5-0-0 0-10-8

Scale = 1:21.4



5-0-0 5-0-0			+		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES           Code IRC2009/TPI2007	CSI. TC 0.24 BC 0.21 WB 0.09 Matrix-S	DEFL.         in           Vert(LL)         -0.01           Vert(TL)         -0.04           Horz(TL)         0.01           Wind(LL)         0.01	(loc) I/defl L/d 2-6 >999 360 2-6 >999 240 4 n/a n/a 2-6 >999 240	PLATES GRIP MT20 244/190  Weight: 36 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2x4 SP No.1 TOP CHORD **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 **WEBS** 

REACTIONS. (lb/size) 2=450/0-3-8, 4=450/0-3-8

Max Horz 2=30(LC 6)

Max Uplift 2=-121(LC 4), 4=-121(LC 5)

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

TOP CHORD 2-3=-649/368, 3-4=-649/368 **BOT CHORD** 2-6=-257/557, 4-6=-257/557

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=121, 4=121
- 6) 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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Qty Truss Truss Type Freelance A E11513735 B0318-0840 P2 HIP GIRDER Job Reference (optional) Comtech. Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:34 2018 Page 1  $ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-cjhIEC\_KZy?XLgSjWibVs7NW43b27QouMkYZDZze14d$ 

6-0-0

2-0-0

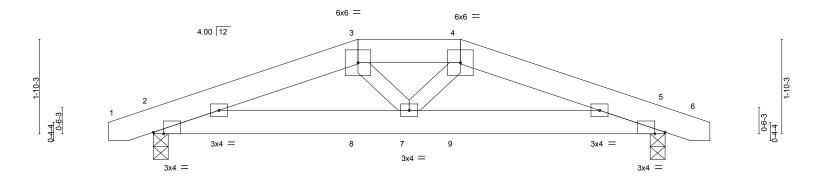
Scale = 1:22.5

10-10-8

0-10-8

10-0-0

4-0-0



5-0-0				10-0-0								
				5-0-0		!			5-0-0		<u>'</u>	
Plate Offsets	s (X,Y)	[2:0-2-7,Edge], [5:0-2-7,E	dge]									
TCDL 6	20.ó 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	BC 0 WB 0	.10 .24 .13	DEFL. Vert(LL) Vert(TL) Horz(TL)	in -0.02 -0.04 0.01	(loc) 7 2-7 5	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL ′	10.0	Code IRC2009/TF	12007	Matrix-S	•	Wind(LL)	0.02	7	>999	240	Weight: 57 lb	FT = 20%

LUMBER-**BRACING-**

4-0-0

4-0-0

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. 2x4 SP No 3 WFBS

REACTIONS. (lb/size) 2=672/0-3-8, 5=669/0-3-8 Max Horz 2=28(LC 5) Max Uplift 2=-194(LC 3), 5=-194(LC 4)

-0-10-8

0-10-8

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

TOP CHORD 2-3=-1324/337, 3-4=-1373/342, 4-5=-1323/337

2-7=-292/1215, 5-7=-281/1215 **BOT CHORD** 3-7=-32/306, 4-7=-32/307 **WEBS** 

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) except (jt=lb) 2=194. 5=194
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 44 lb up at 4-0-0, and 64 lb down and 44 lb up at 6-0-0 on top chord, and 187 lb down and 47 lb up at 4-0-0, and 187 lb down and 47 lb up at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-46(B) 4=-46(B) 8=-187(B) 9=-187(B)



March 5,2018

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Freelance A E11513736 B0318-0840 PCJ1 DIAGONAL HIP GIRDER Job Reference (optional) Comtech. Inc., Fayetteville, NC 28309 8.130 s Sep 15 2017 MiTek Industries, Inc. Mon Mar 5 08:27:35 2018 Page 1 ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-4wFgRY?zKF7Ozq1v4P6kOKwg9TzWsu11bOH7m?ze14c -1-2-14 5-6-6 5-6-6 1-2-14 Scale = 1:13.4 2x4 || 3 2.83 12 3x4 = 6 2x4 || 5 3x4 =5-6-6 5-6-6 Plate Offsets (X,Y)--[2:0-5-5,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DFFI in (loc) I/defl I/d **PLATES** GRIP Plate Grip DOL TC 0 14 -0.01 244/190 TCLL 20.0 1.15 Vert(LL) 2-6 >999 360 MT20 BC TCDL 10.0 Lumber DOL 1.15 0.10 Vert(TL) -0.022-6 >999 240 **BCLL** 0.0 Rep Stress Incr WB 0.00 Horz(TL) 0.00 NO n/a n/a Code IRC2009/TPI2007 Wind(LL) FT = 20% BCDL 10.0 Matrix-P 0.00 240 Weight: 31 lb BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

WFBS

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

2x6 SP No.1 2x4 SP No 3

(lb/size) 6=198/Mechanical, 2=287/0-8-6 Max Horz 2=63(LC 3)

Max Uplift 6=-42(LC 3), 2=-109(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=109.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) at 2-9-8, and at 2-9-8 on top chord, and at 2-9-8, and at 2-9-8 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: 1-3=-60, 3-4=-20, 2-5=-20



Structural wood sheathing directly applied or 5-6-6 oc purlins,

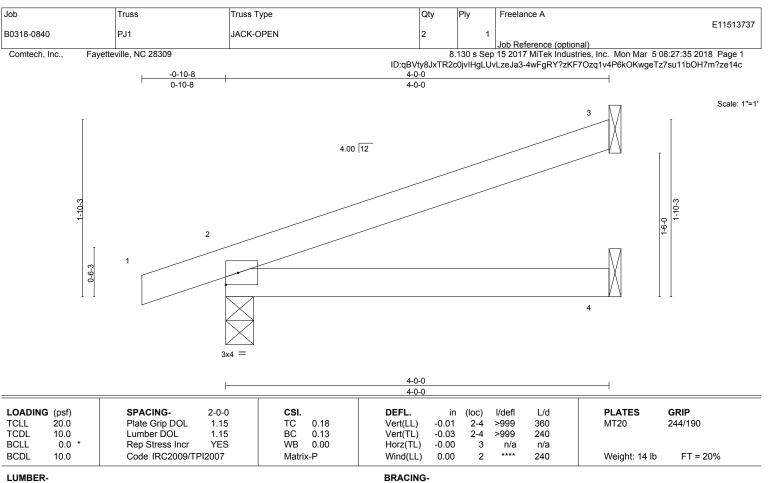
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

March 5,2018







TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

> 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical (lb/size)

Max Horz 2=64(LC 4)

Max Uplift 3=-56(LC 4), 2=-77(LC 4)

Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 2)

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

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



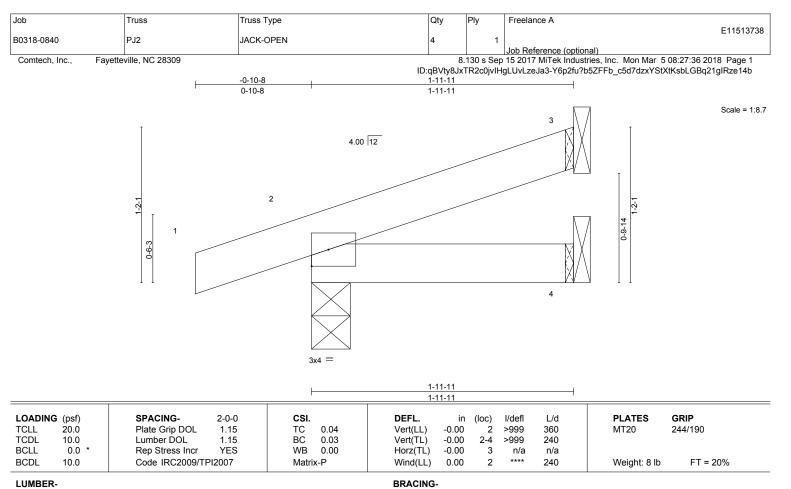
Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

March 5,2018







TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. 3=45/Mechanical, 2=144/0-3-8, 4=19/Mechanical (lb/size)

Max Horz 2=38(LC 4)

Max Uplift 3=-23(LC 4), 2=-64(LC 4)

Max Grav 3=45(LC 1), 2=144(LC 1), 4=39(LC 2)

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

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) 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 1-11-11 oc purlins.

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



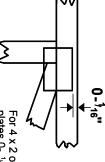


## **Symbols**

# PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- ¹/₁ℰ' from outside or 4 x 2 orientation, locate

connector plates required direction of slots in This symbol indicates the

\* Plate location details available in MiTek 20/20 software or upon request.

### **PLATE SIZE**



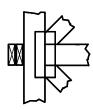
the length parallel to slots. to slots. Second dimension is width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



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

## Industry Standards:

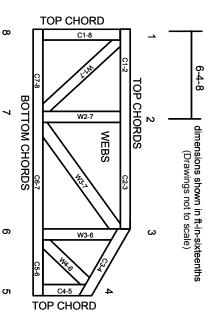
ANSI/TP11: National Design Specification for Metal Design Standard for Bracing.

Building Component Safety Information. Guide to Good Practice for Handling, Plate Connected Wood Truss Construction

DSB-89: BCSI:

Installing & 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.

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

# General Safety Notes

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

- Ņ 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 bracing should be considered may require bracing, or alternative Tor I
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each

6 5

- 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.
- <u>,</u> Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria