

Trenco 818 Soundside Rd Edenton, NC 27932

Re: B0319-1094 Wrightsville B Base

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: E12779125 thru E12779151

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844

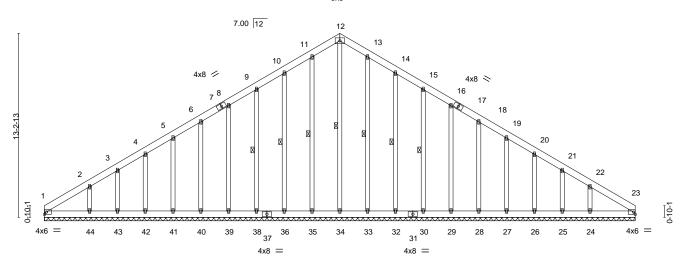


March 7,2019

Gilbert, Eric

**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 Wrightsville B Base E12779125 B0319-1094 Α1 COMMON SUPPORTED GAB Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:37 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-1prIN877oQpdPBKLkkQMifEG?F1hpc5CZaKaQyzdaTe Comtech. Inc., Fayetteville, NC 28309 42-6-0 21-3-0 21-3-0 Scale = 1:82 9 5x8 =



						42-6-0						
LOADIN	IG (psf)	SPACING- 2	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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	014	Matri	x-S						Weight: 408 lb	FT = 20%

42-6-0

LUMBER-

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

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

12-34,11-35,13-33: 2x4 SP No.2

**BRACING-**

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

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 12-34, 11-35, 10-36, 9-38, 13-33, 14-32,

15-30

REACTIONS. All bearings 42-6-0.

(lb) - Max Horz 1=-382(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 35, 36, 38, 39, 40, 41, 42, 43, 33, 32, 30, 29, 28, 27, 26,

25, 23 except 44=-165(LC 12), 24=-157(LC 13)

All reactions 250 lb or less at joint(s) 1, 35, 36, 38, 39, 40, 41, 42, 43, 33, 32, 30, 29, 28, 27,

26, 25, 23 except 34=282(LC 22), 44=303(LC 19), 24=294(LC 20)

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

TOP CHORD 1-2=-385/307, 2-3=-279/241, 8-9=-175/251, 9-10=-226/289, 10-11=-282/330, 11-12=-306/348, 12-13=-306/348, 13-14=-282/315, 22-23=-286/188

1-44=-175/276, 43-44=-175/276, 42-43=-175/276, 41-42=-175/276, 40-41=-175/276, BOT CHORD

39-40=-175/276, 38-39=-175/276, 36-38=-175/276, 35-36=-175/276, 34-35=-175/276, 33-34=-175/276, 32-33=-175/276, 30-32=-175/276, 29-30=-175/276, 28-29=-175/276,

27-28=-175/276, 26-27=-175/276, 25-26=-175/276, 24-25=-175/276, 23-24=-175/276

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) 0-0-0 to 4-4-13, Exterior(2) 4-4-13 to 21-3-0, Corner(3) 21-3-0 to 25-7-13 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) 1, 35, 36, 38, 39, 40, 41, 42, 43, 33, 32, 30, 29, 28, 27, 26, 25, 23 except (jt=lb) 44=165, 24=157.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 23.



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 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 permanent. 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 Wrightsville B Base Truss Truss Type Qty E12779126 B0319-1094 A2 COMMON Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:40 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-SOXR?AA?5LCCGf3wPs\_3KHsfiSto0oZeFYZE1HzdaTb Comtech. Inc., Fayetteville, NC 28309 21-3-0 31-8-15 42-6-0 10-9-1 10-9-1 10-5-15 Scale = 1:85.4 6x8 II 7.00 12 4x8 / 4x8 < 5 2x4 \\ 4x6 💸 0,10,1 0-10-1 **⊠** 10 12 11 17 9 4x6 \_ 4x6 = 5x8 = 4x8 = 4x4 = 4x8 =2x4 II 12-3-3 24-3-3 24-3-4 31-8-15 42-6-0 12-3-3 12-0-0 0-0-1 7-5-11 10-9-1 Plate Offsets (X,Y)--[12:0-3-4,0-3-8] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Plate Grip DOL Vert(LL) 244/190 TCLL 20.0 1.15 TC 0.54 -0.271-12 >999 360 MT20 BC 240 TCDL 10.0 Lumber DOL 1.15 0.71 Vert(CT) -0.441-12 >669 **BCLL** 0.0 Rep Stress Incr YES WB 0.89 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.06 1-12 >999 240 Weight: 289 lb FT = 20%LUMBER-**BRACING-**TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 5-11-15 oc purlins. **BOT CHORD** 2x6 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12.

WEBS

1 Row at midpt

2 Rows at 1/3 pts

4-12, 6-10

4-10

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

4-12,4-10: 2x4 SP No.2

(lb/size) 1=849/Mechanical, 10=1978/0-5-8, 7=563/Mechanical

Max Horz 1=-305(LC 10)

Max Uplift 1=-65(LC 12), 10=-72(LC 12), 7=-62(LC 13) Max Grav 1=1119(LC 19), 10=2569(LC 19), 7=757(LC 20)

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

TOP CHORD 1-2=-1266/236, 2-4=-1223/422, 4-6=0/545, 6-7=-617/137

**BOT CHORD** 1-12=-168/1209, 8-10=0/441, 7-8=0/441

**WEBS** 2-12=-748/415, 4-12=-302/1693, 4-10=-1574/250, 6-10=-1193/329, 6-8=0/590

### NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 21-3-0, Exterior(2) 21-3-0 to 25-7-13 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) 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) 1, 10, 7.



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 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 permanent. 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.



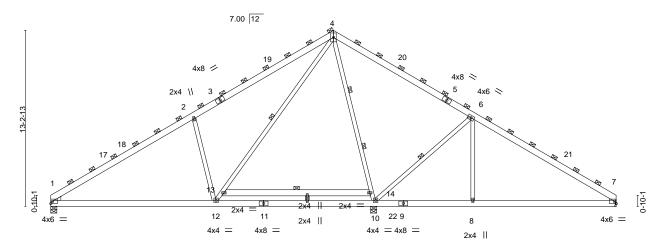
Job Truss Truss Type Qty Wrightsville B Base E12779127 B0319-1094 АЗ COMMON Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:41 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-wa5pDWAdsfK3upe6zZVltVPmDsBtlEanTCInZjzdaTa

10-9-4 21-3-0 31-8-12 42-6-0 10-9-4 10-5-12

5x8 ||

Scale = 1:86.6



-	12-3-6	11-11-14	7-5-8	10-9-4	-
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-1-8 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI.         DEFL.           TC 0.81         Vert(LL)           BC 0.85         Vert(CT           WB 0.90         Horz(CT           Matrix-S         Wind(LI	-0.56 1-12 >516 0.02 7 n/a	L/d PLATES 360 MT20 240 n/a 240 Weight: 317 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER-TOP CHORD 2x6 SP No.1

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

4-12: 2x4 SP No.2, 4-10: 2x4 SP 2400F 2.0E

13-14: 2x6 SP 2400F 2.0E

WEDGE

Left: 2x4 SP No.3

**BRACING-**

TOP CHORD 2-0-0 oc purlins (4-6-10 max.)

(Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 1-12.

WEBS 1 Row at midpt 4-12, 6-10, 13-14

2 Rows at 1/3 pts 4-10

REACTIONS. (lb/size) 1=1089/0-5-8, 10=2842/0-5-8, 7=485/Mechanical

Max Horz 1=-324(LC 8)

Max Uplift 1=-88(LC 12), 10=-157(LC 12), 7=-60(LC 13) Max Grav 1=1292(LC 19), 10=3159(LC 19), 7=717(LC 20)

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

TOP CHORD 1-2=-1456/306, 2-4=-1337/510, 4-6=0/796, 6-7=-516/138

1-12=-176/1331, 8-10=-56/367, 7-8=-56/367 **BOT CHORD** 

2-12=-863/458, 12-13=-344/1642, 4-13=-449/2065, 4-14=-1975/363, 10-14=-2366/460, **WEBS** 

6-10=-1323/352, 6-8=0/702

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 21-3-0, Exterior(2) 21-3-0 to 25-7-13 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) 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) 1, 7 except (jt=lb) 10=157.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 38 lb up at 6-0-0 on top 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: 1-4=-64, 4-7=-64, 1-7=-21, 13-14=-60

Concentrated Loads (lb)

Vert: 18=-150







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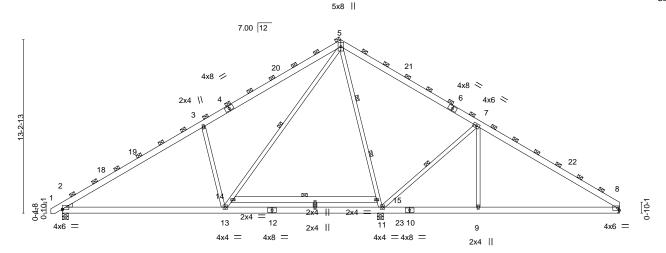




8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:42 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-OmeBQrBFdzSwWyDJXH0XPiyxHGXDUhsxir2L6AzdaTZ

-0<u>-10-8</u> 0-10-8 10-9-4 21-3-0 31-8-12 42-6-0 10-9-4 10-5-12

Scale = 1:87.9



		12-3-0	24-3-4		31-0-12	42-0-0	
		12-3-6	11-11-14		7-5-8	10-9-4	
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-9]					
LOADING	(psf)	SPACING- 2-1-8	CSI.	DEFL.	in (loc) I/defl	L/d PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -	0.36 2-13 >815	360 MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -	0.54 2-13 >534	240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.90	Horz(CT)	0.02 8 n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.09 2-13 >999	240 Weight: 319 lb	FT = 20%

LUMBER-

WEDGE

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

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

5-13: 2x4 SP No.2, 5-11: 2x4 SP 2400F 2.0E

14-15: 2x6 SP 2400F 2.0E

Left: 2x4 SP No.3

**BRACING-**

TOP CHORD 2-0-0 oc purlins (5-1-3 max.)

(Switched from sheeted: Spacing > 2-0-0). **BOT CHORD** 

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 2-13.

WEBS 1 Row at midpt 5-13, 7-11, 14-15

> 2 Rows at 1/3 pts 5-11

REACTIONS. (lb/size) 2=1152/0-5-8, 11=2839/0-5-8, 8=486/Mechanical

Max Horz 2=326(LC 9)

Max Uplift 2=-103(LC 12), 11=-156(LC 12), 8=-60(LC 13) Max Grav 2=1351(LC 19), 11=3157(LC 19), 8=717(LC 20)

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

TOP CHORD 2-3=-1491/304, 3-5=-1334/504, 5-7=0/795, 7-8=-516/137

**BOT CHORD** 2-13=-176/1328, 9-11=-55/367, 8-9=-55/367

3-13=-856/451, 13-14=-343/1637, 5-14=-448/2061, 5-15=-1973/364, 11-15=-2364/461, WFBS

7-11=-1323/352, 7-9=0/701

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-14, Interior(1) 3-7-14 to 21-3-0, Exterior(2) 21-3-0 to 25-7-13 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) 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) 8 except (jt=lb) 2=103, 11=156.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 38 lb up at 6-0-0 on top 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=-64, 5-8=-64, 2-8=-21, 14-15=-60

### ORT A. GIV "Hilliam

March 7,2019

### Continued on page

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

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Job	Truss	Truss Type	Qty	Ply	Wrightsville B Base
					E12779128
B0319-1094	A4	COMMON	1	1	
					Joh Reference (ontional)

Comtech, Inc.,

Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:42 2019 Page 2 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-OmeBQrBFdzSwWyDJXH0XPiyxHGXDUhsxir2L6AzdaTZ

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 19=-150





Comtech. Inc.. Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:43 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-szCZeBCtOGan86oV5\_XmywU7nfuAD894xVnueczdaTY

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

5-13, 5-11, 7-11, 14-15

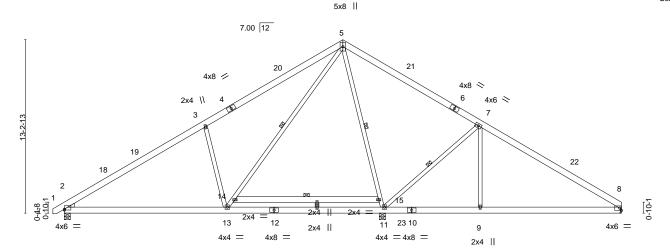
Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 2-13.

1 Row at midpt

-0<u>-10-8</u> 0-10-8 10-9-4 21-3-0 31-8-12 42-6-0 10-9-4 10-5-12

Scale = 1:87.9



		12-3-0	24-3-4		31-0-12	42-0-0	
		12-3-6	11-11-14	4	7-5-8	10-9-4	I
Plate Offset	ts (X,Y)	[2:0-0-0,0-0-13]					
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d <b>PLATES</b>	GRIP
	20.0	Plate Grip DOL 1.15	TC 0.74	Vert(LL)	-0.33 2-13 >865	360 MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.80	Vert(CT)	-0.51 2-13 >566	240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT)	0.02 8 n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.09 2-13 >999	240 Weight: 319 lb	FT = 20%

**BRACING-**

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

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

5-13: 2x4 SP No.2, 5-11: 2x4 SP 2400F 2.0E

14-15: 2x6 SP 2400F 2.0E

WEDGE

Left: 2x4 SP No.3

REACTIONS. (lb/size) 2=1098/0-5-8, 11=2710/0-5-8, 8=454/Mechanical

Max Horz 2=307(LC 9)

Max Uplift 2=-98(LC 12), 11=-151(LC 12), 8=-56(LC 13) Max Grav 2=1286(LC 19), 11=3010(LC 19), 8=672(LC 20)

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

TOP CHORD 2-3=-1425/290, 3-5=-1275/479, 5-7=0/754, 7-8=-480/135

**BOT CHORD** 2-13=-165/1267, 9-11=-57/340, 8-9=-57/340

3-13=-811/426, 13-14=-324/1549, 5-14=-429/1970, 5-15=-1875/347, 11-15=-2266/444, WFBS

7-11=-1245/332, 7-9=0/660

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-14, Interior(1) 3-7-14 to 21-3-0, Exterior(2) 21-3-0 to 25-7-13 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) 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) 2, 8 except (jt=lb) 11=151
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 38 lb up at 6-0-0 on top 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=-60, 5-8=-60, 2-8=-20, 14-15=-60

Concentrated Loads (lb)

Vert: 19=-150



March 7,2019



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 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 permanent. 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.

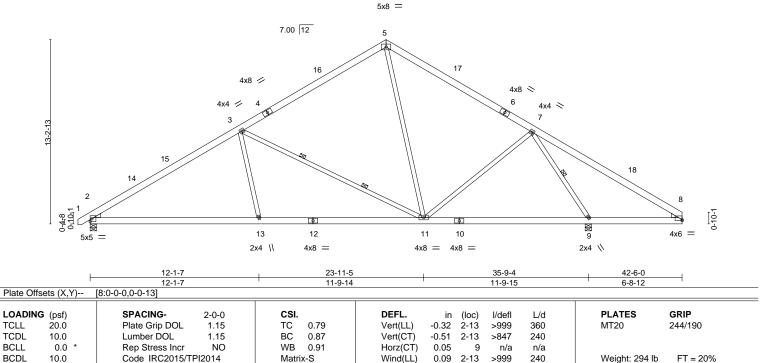


Edenton, NC 27932

Job Truss Truss Type Qty Wrightsville B Base E12779130 B0319-1094 A6 COMMON Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:44 2019 Page 1 Comtech. Inc.. Fayetteville, NC 28309

ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-K9myrXDW9aielGNhei2?U71Hq3DByb8EA9XSA2zdaTX -0<sub>7</sub>10<sub>7</sub>8 0-10-8 21-3-0 31-8-12 42-6-0 10-9-4 10-9-4 10-5-12

Scale = 1:82 7



**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

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

3-11: 2x4 SP No.1, 5-11: 2x4 SP No.2

WEDGE

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

REACTIONS. (lb/size) 2=1564/0-5-8, 9=2026/0-5-8

Max Horz 2=307(LC 9)

Max Uplift 2=-119(LC 12), 9=-116(LC 13) Max Grav 2=1792(LC 19), 9=2026(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2329/390, 3-5=-1144/323, 5-7=-1299/323, 7-8=-436/705 **BOT CHORD** 2-13=-184/2077, 11-13=-155/2187, 9-11=-13/680, 8-9=-468/465 3-13=0/563, 3-11=-1445/333, 5-11=-51/681, 7-11=-35/441, 7-9=-2085/732 **WEBS** 

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-14, Interior(1) 3-7-14 to 21-3-0, Exterior(2) 21-3-0 to 25-7-13 zone; cantilever 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 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=119 9=116
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 38 lb up at 6-0-0 on top 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=-60, 5-8=-60, 2-8=-20

Concentrated Loads (lb) Vert: 15=-150

SEAL 036322 A. GIV "Himmin March 7,2019

Structural wood sheathing directly applied or 3-10-5 oc purlins.

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

3-11

6-0-0 oc bracing: 8-9.

1 Row at midpt

2 Rows at 1/3 pts

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 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 permanent. 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 Wrightsville B Base Truss Truss Type Qty E12779131 B0319-1094 Α8 COMMON Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:44 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-K9myrXDW9aielGNhei2?U71Kj3HtyedEA9XSA2zdaTX Comtech. Inc., Fayetteville, NC 28309 18-1-0 39-4-0 28-6-12 8-10-12 10-5-12 Scale = 1:83.8 5x8 = 7.00 12 4x8 // 16 4x8 ≥ 3 4x6 🖊 5 4x4 < 5x8 / 2-8-3 0-10-1 **ģ**9 11 10 4x6 8 13 12 14 6x8 = 4x8 2x4 \\ 4x4 = 3x4 II 4x8 = 9-2-4 21-10-0 32-7-4 39-4-0 9-2-4 12-7-12 10-9-4 6-8-12 Plate Offsets (X,Y)--[7:Edge,0-0-13] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Plate Grip DOL Vert(LL) 244/190 TCLL 20.0 1.15 TC 0.60 -0.35 10-12 >999 360 MT20 BC 0.64 240 TCDL 10.0 Lumber DOL 1.15 Vert(CT) -0.49 10-12 >803 **BCLL** 0.0 Rep Stress Incr YES WB 0.75 Horz(CT) 0.02 8 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.04 10-12 >999 240 Weight: 292 lb FT = 20%LUMBER-**BRACING-**TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins, **BOT CHORD** 2x6 SP No.1 except end verticals.

**WEBS** 

2x4 SP No.3 \*Except\* 2-10,4-10: 2x4 SP No.2

WEDGE

Right: 2x4 SP No.3

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

6-0-0 oc bracing: 7-8.

WEBS 1 Row at midpt 2-10.6-8

REACTIONS. (lb/size) 8=1879/0-5-8, 13=1252/0-3-8

Max Horz 13=-303(LC 8)

Max Uplift 8=-112(LC 13), 13=-72(LC 12) Max Grav 8=1879(LC 1), 13=1372(LC 19)

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

TOP CHORD 1-2=-1631/273, 2-4=-1042/300, 4-6=-1218/289, 6-7=-426/720, 1-13=-1329/259

**BOT CHORD** 12-13=-253/323, 10-12=-79/1506, 8-10=-3/671, 7-8=-480/456

2-12=-49/296, 2-10=-781/228, 4-10=-43/578, 6-10=-31/454, 6-8=-1994/681, **WEBS** 

1-12=-86/1295

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 18-1-0, Exterior(2) 18-1-0 to 22-5-13 zone; cantilever 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 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) 13 except (jt=lb) 8=112.



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 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 permanent. 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 Wrightsville B Base Truss Truss Type Qty E12779132 B0319-1094 A9 COMMON Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:45 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-oLKK2tE8wuqVNQyuCPaE1LaSMTclh6yNOpG?iUzdaTW

12-7-0

>999

except end verticals.

1 Row at midpt

240

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

Structural wood sheathing directly applied or 5-11-7 oc purlins,

2-9, 5-8

Weight: 256 lb

FT = 20%

18-1-0 30-8-0 9-2-4 24-2-12 9-2-4 8-10-12 6-1-12

> Scale = 1:82.3 5x5 =

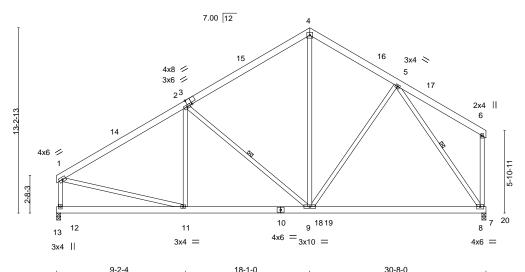


Plate Offsets (X,Y)--[3:0-4-0,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Plate Grip DOL Vert(LL) TCLL 20.0 TC 0.80 -0.31>999 360 244/190 1.15 8-9 MT20 BC TCDL 10.0 Lumber DOL 1.15 0.66 Vert(CT) -0.478-9 >762 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.68 Horz(CT) 0.02 8 n/a n/a

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

0.03 9-11

8-10-12

LUMBER-

BCDL

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

10.0

2x4 SP No.3 \*Except\*

2-9,4-9,5-9,5-8: 2x4 SP No.2

REACTIONS. (lb/size) 12=1210/0-3-8, 8=1210/0-3-8

Max Horz 12=246(LC 9)

Max Uplift 12=-56(LC 12), 8=-49(LC 12) Max Grav 12=1351(LC 19), 8=1483(LC 19)

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

Code IRC2015/TPI2014

TOP CHORD 1-2=-1549/284, 2-4=-1177/323, 4-5=-1147/342, 1-12=-1262/268 BOT CHORD 11-12=-243/280, 9-11=-246/1397, 8-9=-134/759

**WEBS** 2-9=-588/245, 4-9=-121/694, 5-9=-44/360, 1-11=-115/1187, 5-8=-1306/248

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE\ 7-10; \ Vult=130mph\ (3-second\ gust)\ \ Vasd=103mph; \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ enclosed; \ enclosed; \ h=15ft; \ enclosed; \ enclosed; \ h=15ft; \ enclosed; \$ MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 18-1-0, Exterior(2) 18-1-0 to 22-5-13 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.

9-2-4

Matrix-S

- 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) 12, 8.



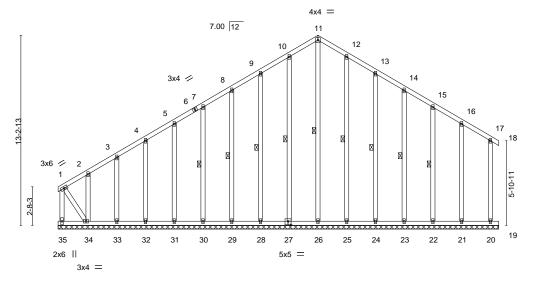


Job Truss Truss Type Qty Wrightsville B Base E12779133 B0319-1094 A10 COMMON SUPPORTED GAB Job Reference (optional)

Comtech, Inc. Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:39 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-zBz3oq9NK23LfVUks8Tqn4Kao2j3HVdV0uphVrzdaTc

18-1-0 30-8-0 18-1-0

Scale = 1:80.2



30-8-0 30-8-0

Flate OII	SetS (A, I )	[27.0-2-0,0-3-0]			
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 0.17	Vert(LL) n/a - n/a 999 MT20 244/19	90
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.02 18 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 290 lb FT =	= 20%

LUMBER-

Plata Officate (V V)

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

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

11-26,10-27,9-28,12-25,13-24: 2x4 SP No.2

127.0 2 9 0 2 0

**BRACING-**

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

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 1 Row at midpt

11-26, 10-27, 9-28, 8-29, 7-30, 12-25, 13-24, 14-23, 15-22

REACTIONS. All bearings 30-8-0.

> (lb) -Max Horz 35=301(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 18, 26, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 19

except 35=-492(LC 10), 34=-485(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 18, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 except

35=586(LC 9), 26=348(LC 22), 34=509(LC 10)

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

1-35=-573/503, 1-2=-339/317, 2-3=-306/294, 3-4=-268/270, 4-5=-251/258, TOP CHORD

5-7=-233/253, 7-8=-215/278, 8-9=-197/313, 9-10=-250/353, 10-11=-293/378,

11-12=-293/366. 12-13=-251/312

BOT CHORD 34-35=-297/269

**WEBS** 11-26=-298/160, 1-34=-463/511

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) 0-3-4 to 4-8-1, Exterior(2) 4-8-1 to 18-1-0, Corner(3) 18-1-0 to 22-5-13 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 26, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 19 except (jt=lb) 35=492, 34=485.



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 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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



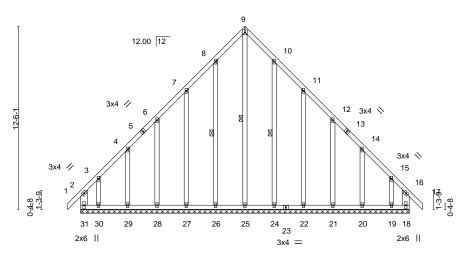
Edenton, NC 27932

Job Truss Truss Type Qty Wrightsville B Base E12779134 B0319-1094 B1 GABLE Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:47 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-lkS4TZFOSV4Cck5GKqci6mfy2HPq84Wgs7l6nNzdaTU

-0-11-0 0-11-0 22-5-0 9-2-8 13-2-8 9-2-8 4-0-0

> Scale = 1:78 6 4x4 =



22-5-0 22-5-0

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.00	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-R						Weight: 196 lb	FT = 20%

LUMBER-**BRACING-**TOP CHORD

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

9-25: 2x4 SP No.2

**BOT CHORD** WEBS

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

Rigid ceiling directly applied or 6-0-0 oc bracing. 9-25, 8-26, 10-24 1 Row at midpt

REACTIONS. All bearings 22-5-0.

Max Horz 31=-363(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 31=-379(LC 10), 18=-307(LC

11), 26=-118(LC 12), 27=-150(LC 12), 28=-144(LC 12), 29=-111(LC 12), 30=-467(LC 12), 24=-116(LC 13), 22=-151(LC 13), 21=-143(LC 13), 20=-114(LC 13), 19=-437(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 28, 29, 21, 20 except 31=500(LC

12), 18=452(LC 13), 25=487(LC 13), 26=259(LC 19), 27=253(LC 19), 30=389(LC

10), 24=257(LC 20), 22=254(LC 20), 19=344(LC 11)

FORCES. (lb) - Max, Comp./Max, Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-413/351, 6-7=-171/256, 7-8=-284/345, 8-9=-371/449, 9-10=-371/449,

10-11=-284/345, 15-16=-375/294, 2-31=-340/257, 16-18=-293/206

WFBS 9-25=-539/379, 3-30=-231/302, 15-19=-235/287

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-10-12 to 3-2-8, Exterior(2) 3-2-8 to 11-2-8, Corner(3) 11-2-8 to 15-7-5 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 31, 307 lb uplift at joint 18, 118 lb uplift at joint 26, 150 lb uplift at joint 27, 144 lb uplift at joint 28, 111 lb uplift at joint 29, 467 lb uplift at joint 30, 116 lb uplift at joint 24, 151 lb uplift at joint 22, 143 lb uplift at joint 21, 114 lb uplift at joint 20 and 437 lb uplift at joint 19.



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 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 permanent. 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 Wrightsville B Base Truss Truss Type Qty E12779135 B0319-1094 B2 HIP Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:48 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-Dw0ShvG0DpC3EugTtX7xfzC3vghxtRVp4nVfJpzdaTT

-0<u>-11-0</u> 0-11-0 17-8-0 22-5-0 4-9-0 9-2-8 13-2-8 4-9-0 4-5-8 4-0-0 4-5-8 4-9-0

> Scale = 1:74 1 4x6 =

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

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

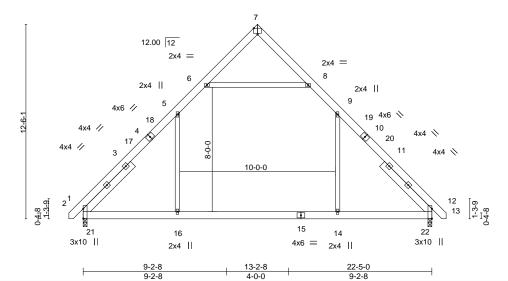


Plate Offsets (X,	[2:Eage,0-0-0], [7:0-3-0,Eage], [12:Eag	je,0-0-0]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.15 14-16 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.24 14-16 >999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.01 12 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.18 16 >999 240	Weight: 184 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Left 2x6 SP No.1 4-5-3, Right 2x6 SP No.1 4-5-3 SLIDER

REACTIONS. (lb/size) 2=943/0-3-0, 12=943/0-3-0

Max Horz 2=-287(LC 10)

Max Uplift 2=-35(LC 12), 12=-35(LC 13) Max Grav 2=1166(LC 19), 12=1166(LC 20)

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

TOP CHORD 2-5=-1384/226, 5-6=-764/301, 8-9=-763/301, 9-12=-1383/226

**BOT CHORD** 2-16=-7/841, 14-16=-7/842, 12-14=-7/841 **WEBS** 5-16=0/563, 9-14=0/563, 6-8=-857/393

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE\ 7-10; \ Vult=130mph\ (3-second\ gust)\ \ Vasd=103mph; \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ Cat.\ II; \ Exp\ C; \ enclosed; \ h=15ft; \ enclosed; \ enclosed; \ h=15ft; \ enclosed; \ enclosed; \ h=15ft; \ enclosed; \$ MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 11-2-8, Exterior(2) 11-2-8 to 17-5-3 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 35 lb uplift at joint 2 and 35 lb uplift at joint 12.



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 permanent. 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 Truss Truss Truss Truss Type Qty Ply Wrightsville B Base E12779136

B0319-1094 B4 PIGGYBACK TRUSS 1 2 Job Reference (optional)

5x8 ||

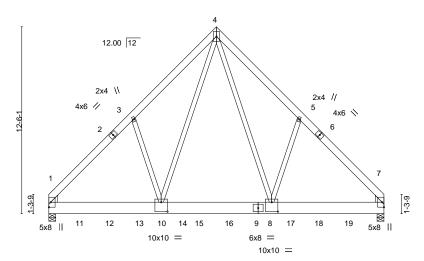
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:49 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-h7aruFHe\_6Kws1FfRFeABAkFS44yc\_6zJRECrGzdaTS

Scale = 1:77.1

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

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



7-6-2 14-10-14 22-5-0 7-6-2 7-4-11 7-6-2

Plate O	offsets (X,Y)	[1:0-0-12,0-0-12], [1:0-1-	7,0-5-2], [7:0-1	-7,0-5-2], [7	:0-0-12,0-0-1	2], [8:0-5-0,0-7-8 <u>],</u>	[10:0-5	-0,0-7-8	3]			
LOADII	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.06	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.09	8-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.03	8-10	>999	240	Weight: 438 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

5-8,3-10: 2x4 SP No.3 WEDGE

WEDGE

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

**REACTIONS.** (lb/size) 1=3747/0-5-8, 7=3485/0-5-8

Max Horz 1=283(LC 5)

Max Uplift 1=-407(LC 9), 7=-386(LC 8) Max Grav 1=4257(LC 2), 7=4033(LC 2)

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

TOP CHORD 1-3=-4424/482, 3-4=-4114/595, 4-5=-4043/590, 5-7=-4348/476

BOT CHORD 1-10=-349/2846, 8-10=-192/2028, 7-8=-233/2783

WEBS 4-8=-433/2707, 5-8=-285/450, 4-10=-446/2877, 3-10=-284/453

### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 407 lb uplift at joint 1 and 386 lb uplift at joint 7.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 683 lb down and 82 lb up at 2-0-4, 683 lb down and 82 lb up at 4-0-4, 683 lb down and 82 lb up at 6-0-4, 662 lb down and 82 lb up at 8-0-4, 653 lb down and 82 lb up at 12-0-4, 653 lb down and 82 lb up at 12-0-4, 626 lb down and 81 lb up at 13-9-4, 657 lb down and 81 lb up at 16-1-12, and 616 lb down and 76 lb up at 18-0-4, and 616 lb down and 76 lb up at 20-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

### Continued on page 2



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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*

\*\*Lee Street, Suite 312, Alexandria, VA 22314.





Job Truss Truss Type Qty Wrightsville B Base Ply E12779136 B0319-1094 B4 PIGGYBACK TRUSS 2 Job Reference (optional)

Comtech, Inc.,

Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:49 2019 Page 2 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-h7aruFHe\_6Kws1FfRFeABAkFS44yc\_6zJRECrGzdaTS

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 9=-520(B) 11=-577(B) 12=-577(B) 13=-577(B) 14=-577(B) 15=-577(B) 16=-577(B) 17=-520(B) 18=-486(B) 19=-486(B)



Job Truss Truss Type Qty Wrightsville B Base E12779137 B0319-1094 C1 GABLE Job Reference (optional)

Comtech, Inc. Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:50 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-9J7D6bHGkQSnTBqr?y9PkOHPPUNILVF6Y5\_mOizdaTR

6-11-8 13-11-0 14-10-0 6-11-8 6-11-8

3x4 =

Scale = 1:52.4

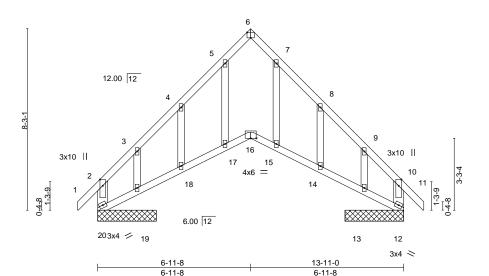


Plate Oil	15ets (A, t )	[6.0-2-0,Euge], [16.0-3-0,0-0-0]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.11 16 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.22 16 >574 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.22 12 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-R	Wind(LL) -0.08 16 >999 240	Weight: 89 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.1 except end verticals. 2x6 SP No.1 WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS** 

REACTIONS. All bearings 2-8-0.

Plata Offcate (V V)

(lb) - Max Horz 20=235(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 12 except 20=-118(LC 8), 19=-487(LC 12), 13=-472(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 20=398(LC 21), 12=387(LC 22), 19=505(LC 19), 13=488(LC

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

TOP CHORD 2-3=-515/13, 3-4=-457/0, 4-5=-462/0, 6-7=-260/82, 7-8=-535/50, 8-9=-525/30,

9-10=-622/99, 2-20=-445/4, 10-12=-528/72

[6:0.2.0 Edgo] [16:0.2.0.0.0.0]

**BOT CHORD** 19-20=-86/472, 18-19=-99/410, 17-18=-58/471, 16-17=-68/374, 15-16=-45/362,

14-15=-60/474, 13-14=-105/426, 12-13=-25/440

WFBS 5-17=0/253, 3-19=-319/331, 7-15=-24/289, 9-13=-315/348

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-10-12 to 3-9-8, Exterior(2) 3-9-8 to 6-11-8, Corner(3) 6-11-8 to 11-4-5 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 20, 12, 19, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 20=118, 19=487, 13=472.





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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THIS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THE SEED OF fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Wrightsville B Base E12779138 B0319-1094 C2 SCISSORS Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:51 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-dVhbJwlvVkae5LP1ZggeGbqciunF4woGnljJw8zdaTQ

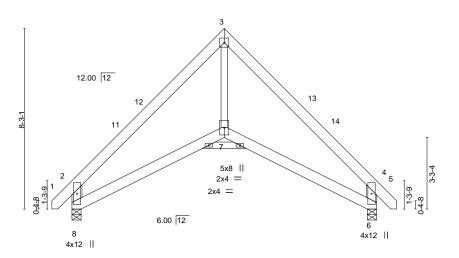
0-11-0 6-11-8 13-11-0 14-10-0 6-11-8

5x5 =

Scale = 1:52 6

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

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



**BRACING-**

TOP CHORD

**BOT CHORD** 

6-11-8 6-11-8 LOADING (psf) SPACING-DEFL. 2-0-0 CSI. in (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL Vert(LL) -0.02 >999 1 15 TC 0.23 6-7 360 TCDL BC 0.14 Vert(CT) -0.05 6-7 240 10.0 Lumber DOL 1.15 >999 WB BCLL 0.0 Rep Stress Incr YES 0.21

Matrix-R

6-11-8

Horz(CT) 0.06 6 n/a n/a Wind(LL) -0.03 >999 240

except end verticals.

13-11-0

**PLATES** GRIP 244/190 MT20

Weight: 103 lb FT = 20%

LUMBER-

**BCDL** 

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

10.0

3-7,9-10: 2x4 SP No.3

REACTIONS. (lb/size) 8=599/0-5-0, 6=599/0-5-0

Max Horz 8=186(LC 11)

Max Uplift 8=-26(LC 13), 6=-26(LC 12)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-765/106, 3-4=-791/84, 2-8=-722/207, 4-6=-720/185

**BOT CHORD** 7-8=-29/570, 6-7=-14/559

**WEBS** 3-7=0/582

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 6-11-8, Exterior(2) 6-11-8 to 11-4-5 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) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.





Edenton, NC 27932

Job Truss Truss Type Qty Wrightsville B Base E12779139 B0319-1094 C3 GABLE Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:52 2019 Page 1  $ID: NpSit5YZ\_4qsCWpC5omWUAyBIV\_-5hFzWGJXG1iVjV\_E6NCtppMmyI6SpNvP?PTtSazdaTPattern and the property of the pr$ 

4-6-0 13-4-8 13<sub>1</sub>11<sub>-</sub>0 8-8-8 4-6-0 4-8-0 4-2-8

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

4-6

7-8

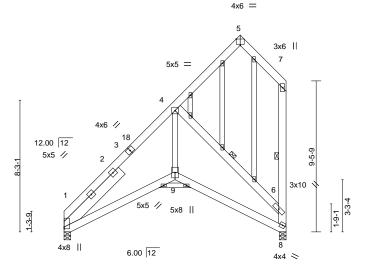
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals. Except:

1 Row at midpt

1 Row at midpt

Scale = 1:72.2



13-11-0 6-11-8 6-11-8

Flate Of	15615 (7,1)	[1.0-1-3,0-0-2], [3.0-3-0,6	ugej										
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	0.27	Vert(LL)	0.05	1-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.06	1-9	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.06	8	n/a	n/a			
BCDL	10.0	Code IRC2015/TP	I2014	Matri	x-S						Weight: 174 lb	FT = 20%	

**BOT CHORD** 

WEBS

LUMBER-**BRACING-**TOP CHORD

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

Plata Officate (V V)

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

7-8: 2x6 SP No.1 OTHERS 2x4 SP No.3

SLIDER Left 2x8 SP No.1 5-0-12

REACTIONS. (lb/size) 1=539/0-5-0, 8=539/0-5-0

Max Horz 1=485(LC 12) Max Uplift 8=-295(LC 12)

Max Grav 1=539(LC 1), 8=590(LC 19)

[1:0.1 5 0 0 2] [5:0.2 0 Edge]

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

TOP CHORD 1-4=-787/192, 6-8=-843/508, 4-6=-937/613

**BOT CHORD** 1-9=-475/728, 8-9=-455/707

**WEBS** 4-9=-299/719

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) 0-2-7 to 4-7-4, Interior(1) 4-7-4 to 11-0-8, Exterior(2) 11-0-8 to 13-8-4 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 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 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) Bearing at joint(s) 1, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THIS REPERENCE FACE MILLION TO BE SEED OF THIS AND INCLUDED WILLION TO BE SEED OF THE SEED OF fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Wrightsville B Base E12779140 B0319-1094 C5 HIP Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:52 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-5hFzWGJXG1iVjV\_E6NCtppMmhl7npJpP?PTtSazdaTP

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

6-7

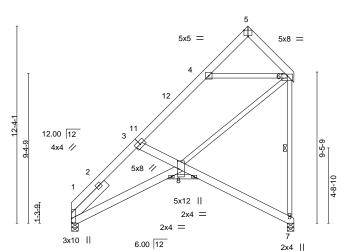
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

12-0-8 | 13-11-0 | 2-0-0 | 1-10-8 | 10-0-8 5-2-0 5-2-0 4-10-8

> Scale = 1:72 1 4x6 =



6-11-8	10-0-8	13-11-0
6-11-8	3-1-0	3-10-8

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

Plate Offsets (X,Y)	[1:0-3-5,0-0-2], [5:0-3-0,Edge], [6:0-4-0,			
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 0.28	Vert(LL) -0.06 7-8 >999 360 MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.13 7-8 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.11 7 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 7-8 >999 240 Weight: 135 lb FT = 20%	

LUMBER-

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

4-6: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.3

SLIDER Left 2x6 SP No.1 3-1-7

REACTIONS. (lb/size) 1=538/0-5-0, 7=529/0-5-0

Max Horz 1=329(LC 12) Max Uplift 7=-154(LC 12)

Max Grav 1=538(LC 1), 7=568(LC 19)

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

TOP CHORD 1-3=-841/305, 3-4=-613/256, 4-6=-610/284, 6-7=-547/285

**BOT CHORD** 1-8=-499/830 WEBS 6-8=-331/730

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-7 to 4-7-4, Interior(1) 4-7-4 to 11-0-8, Exterior(2) 11-0-8 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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) 1, 7 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 capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=154.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Wrightsville B Base E12779141 B0319-1094 C6 COMMON Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:53 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-ZupLkcK91LqMKfZQg5j6M0vzxhQiYn9ZE3CQ\_1zdaTO

13-11-0 5-8-0 11-0-8 5-8-0 2-10-8 5-4-8

> Scale = 1.76.05x8 ||

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

5-9, 5-8, 6-8

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

except end verticals.

1 Row at midpt

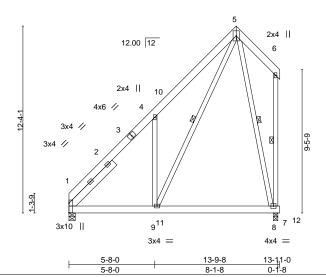


Plate Offsets (X,Y)--[1:Edge,0-0-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) -0.07 >999 360 244/190 8-9 MT20 BC TCDL 10.0 Lumber DOL 1.15 0.27 Vert(CT) -0.11 8-9 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.41 Horz(CT) 0.00 8 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.01 9 >999 240 Weight: 148 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

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

5-9,5-8: 2x4 SP No.2

Left 2x6 SP No.1 4-1-13

SLIDER

REACTIONS. (lb/size) 1=546/0-5-0, 8=552/0-3-8

> Max Horz 1=330(LC 12) Max Uplift 8=-152(LC 12)

Max Grav 1=556(LC 20), 8=738(LC 19)

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

TOP CHORD 1-4=-674/0, 4-5=-687/356 **BOT CHORD** 1-9=-214/450

WEBS 4-9=-569/452, 5-9=-394/816, 5-8=-557/234

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 11-0-8, Exterior(2) 11-0-8 to 13-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 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) 8=152.





Job Wrightsville B Base Truss Truss Type Qty E12779142 B0319-1094 D1 COMMON SUPPORTED GAB Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:54 2019 Page 1 Comtech. Inc., Fayetteville, NC 28309  $ID: NpSit5YZ\_4qsCWpC5omWUAyBIV\_-14NkxyLnofyDyp8cEoELuESAD5qwHJsiTjyzXTzdaTN$ 0-11-0 0-11-0 8-2-8 16-5-0 8-2-8 Scale = 1:40.1 5x5 = 6 7 5 8.00 12 8 4 10 8-4-9 0-11-0 1 2 0-11-6 4x8 || 4x8 || 18 17 16 15 14 12 11 4x6 = 16-5-0 16-5-0 [2:0-0-6,0-0-9], [2:0-0-12,0-4-10], [10:0-0-12,0-4-10], [10:0-0-6,0-0-9], [14:0-1-8,0-2-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

-0.00

0.00

0.00

10

120

120

n/a

n/r

n/r

n/a

LUMBER-

TCLL

TCDL

**BCLL** 

BCDL

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

20.0

10.0

0.0

10.0

WEDGE

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

REACTIONS. All bearings 16-5-0.

(lb) - Max Horz 2=179(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 16, 17, 13, 12, 2, 10 except 18=-131(LC 12), 11=-131(LC 13)

TC

BC

WB

Matrix-S

0.02

0.02

0.06

Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 13, 12, 11, 2, 10

1.15

1.15

YES

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 (3-second gust) 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) -0-9-7 to 3-7-6, Exterior(2) 3-7-6 to 8-2-8, Corner(3) 8-2-8 to 12-7-5 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) 16, 17, 13, 12, 2, 10 except (it=lb) 18=131, 11=131.



244/190

FT = 20%

MT20

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

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

Weight: 123 lb

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 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 in-jury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





5x5 =

8-2-8

3-11-8

Comtech. Inc., Fayetteville, NC 28309

<del>0-11-0</del> <del>0-11-0</del>

4-3-0

4-3-0

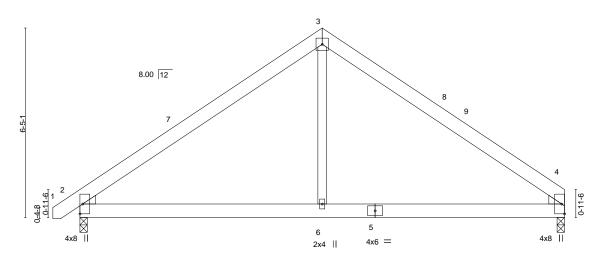
8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:55 2019 Page 1  $ID: NpSit5YZ\_4qsCWpC5omWUAyBIV\_-WGx69ILPZy44ayipoWlaRR\_GDV7e0llrhNhX3vzdaTM$ 16-5-0 12-2-0

16-5-0

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

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

Scale = 1:39.0



GRIP
244/190
FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE

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

**REACTIONS.** (lb/size) 2=703/0-3-0, 4=645/0-3-0

Max Horz 2=143(LC 9)

Max Uplift 2=-45(LC 12), 4=-32(LC 13)

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

TOP CHORD 2-3=-774/181, 3-4=-771/183 **BOT CHORD** 2-6=-2/515, 4-6=-2/515

**WEBS** 3-6=0/396

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 8-2-8, Exterior(2) 8-2-8 to 12-7-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

8-2-8

- 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) 2, 4.



🗥 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 Wrightsville B Base Truss Truss Type Qty E12779144 B0319-1094 D3 COMMON Job Reference (optional)

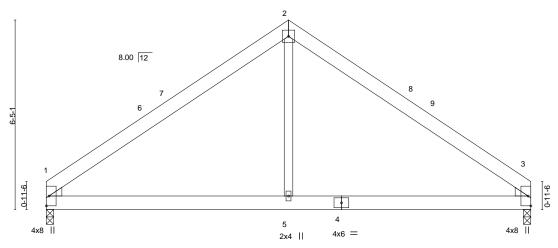
8-2-8

3-11-8

Comtech. Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:55 2019 Page 1  $ID: NpSit5YZ\_4qsCWpC5omWUAyBIV\_-WGx69ILPZy44ayipoWlaRR\_GDV7d0llrhNhX3vzdaTM$ 12-2-0 16-5-0

Scale = 1:39.05x5 =



8-2-8 16-5-0 8-2-8 8-2-8 Plate Offsets (X,Y)-- [1:0-0-6,0-0-9], [1:0-0-12,0-4-10], [3:0-0-6,0-0-9], [3:0-0-12,0-4-10]

Tiato Onocto (71, 1	[1.0 0 0,0 0 0], [1.0 0 1	<u> </u>	0,0 0 0], [0.0 0 12,0 1 1
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33
TCDL 10.0	Lumber DOL	1.15	BC 0.24
BCLL 0.0	Rep Stress Incr	YES	WB 0.15
BCDL 10.0	Code IRC2015/	TPI2014	Matrix-S

4-3-0 4-3-0

### Wind(LL) **BRACING-**

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

1-5

1-5

1-5

3

-0.02

-0.06

0.01

0.02

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

I/d

360

240

n/a

240

I/defI

>999

>999

>999

n/a

**PLATES** 

Weight: 95 lb

MT20

GRIP

244/190

FT = 20%

**BOT CHORD** 

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

2x6 SP No.1

2x6 SP No.1

2x4 SP No.3

**REACTIONS.** (lb/size) 1=647/0-3-0, 3=647/0-3-0

Max Horz 1=-142(LC 8)

Max Uplift 1=-32(LC 12), 3=-32(LC 13)

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

TOP CHORD 1-2=-773/181, 2-3=-773/181 **BOT CHORD** 1-5=-1/517, 3-5=-1/517

**WEBS** 2-5=0/398

### NOTES-

LUMBER-

WEBS

TOP CHORD

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 8-2-8, Exterior(2) 8-2-8 to 12-7-5 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) 1, 3.



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 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 permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

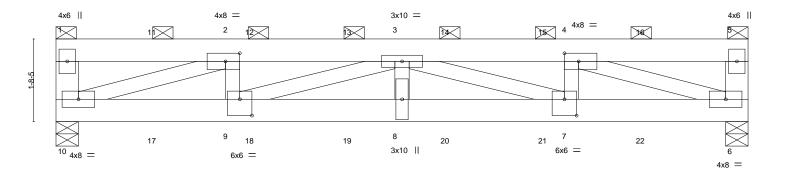
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Wrightsville B Base Job Truss Truss Type Qty P۱ E12779145 B0319-1094 E01 Flat Girder 2 Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:57 2019 Page 1 Comtech. Inc.. Fayetteville, NC 28309 7-1-0 10-6-10 14-2-0 3-7-6

3-5-10

Scale = 1:23 6



3-7-6		7-1-0			10-6-10				14-2-0	
		1	3-5-10	1	3-5-10				3-7-6	'
ets (X,Y)	[2:0-3-8,0-2-0], [4:0-3-8,0	-2-0], [7:0-3-0	,0-4-0], [9:0-3-0,0-4-0]							
(psf)	SPACING-	2-0-0	CSI.	DEF	<b>L.</b> in	(loc)	l/defl	L/d	PLATES	GRIP
20.Ó	Plate Grip DOL	1.15	TC 0.36	Vert	(LL) -0.15	` <u> </u> 8	>999	360	MT20	244/190
10.0	Lumber DOL	1.15	BC 0.53	Vert	(CT) -0.26	8	>643	240		
0.0 *	Rep Stress Incr	NO	WB 0.87	Horz	(CT) 0.05	6	n/a	n/a		
10.0	Code IRC2015/TF	PI2014	Matrix-S	Wind	d(LL) 0.09	8	>999	240	Weight: 185 lb	FT = 20%
	i (psf) 20.0 10.0 0.0 *	3-7-6 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0 i (psf) SPACING- 20.0 Plate Grip DOL 10.0 Lumber DOL 0.0 * Rep Stress Incr	3-7-6 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0] i (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 0.0 * Rep Stress Incr NO	3-7-6 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0,0-4-0], [9:0-3-0,0-4-0] i (psf) 20.0 Plate Grip DOL 1.15 TC 0.36 10.0 Lumber DOL 1.15 BC 0.53 0.0 * Rep Stress Incr NO WB 0.87	3-7-6 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0,0-4-0], [9:0-3-0,0-4-0]  i (psf) SPACING- 2-0-0 CSI. DEF 20.0 Plate Grip DOL 1.15 TC 0.36 Vert 10.0 Lumber DOL 1.15 BC 0.53 Vert 0.0 * Rep Stress Incr NO WB 0.87 Horz	3-7-6 3-5-10 3-5- ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0,0-4-0], [9:0-3-0,0-4-0] i (psf)	3-7-6 3-5-10 3-5-10 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0,0-4-0], [9:0-3-0,0-4-0] i (psf)	3-7-6 3-5-10 3-5-10 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0,0-4-0]  i (psf)	3-7-6 3-5-10 3-5-10 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0,0-4-0], [9:0-3-0,0-4-0] i (psf)	3-7-6 ets (X,Y) [2:0-3-8,0-2-0], [4:0-3-8,0-2-0], [7:0-3-0,0-4-0], [9:0-3-0,0-4-0]  i (psf)   SPACING- 2-0-0   CSI.   DEFL. in (loc)   //defl   L/d   PLATES   20.0   Plate Grip DOL   1.15   TC   0.36   Vert(LL)   -0.15   8   >999   360   MT20   10.0   Lumber DOL   1.15   BC   0.53   Vert(CT)   -0.26   8   >643   240   10.0   Rep Stress Incr   NO   WB   0.87   Horz(CT)   0.05   6   n/a   n/a

**BRACING-**

TOP CHORD

**BOT CHORD** 

2-0-0 oc purlins (5-4-12 max.): 1-5, except end verticals.

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

LUMBER-

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

1-10,5-6: 2x6 SP No.1

REACTIONS. (lb/size) 10=3485/0-5-8, 6=3464/0-5-8

Max Uplift 10=-383(LC 4), 6=-382(LC 4) Max Grav 10=3931(LC 2), 6=3907(LC 2)

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

TOP CHORD 1-10=-472/109, 1-2=-935/82, 2-3=-8420/739, 3-4=-8410/738, 4-5=-930/82,

5-6=-465/110

BOT CHORD 9-10=-739/8420, 8-9=-1012/11503, 7-8=-1012/11503, 6-7=-738/8410 **WEBS** 

2-9=-132/2741, 3-8=-70/1912, 4-7=-132/2739, 2-10=-7966/699, 4-6=-7962/699,

3-9=-3272/289, 3-7=-3282/290

### NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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

4) Provide adequate drainage to prevent water ponding.

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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=383, 6=382.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 113 lb down and 53 lb up at 0-2-12, 66 lb down and 53 lb up at 2-0-12, 66 lb down and 53 lb up at 4-0-12, 66 lb down and 53 lb up at 6-0-12, 66 lb down and 53 lb up at 8-0-12, 66 lb down and 53 lb up at 10-0-12, and 66 lb down and 53 lb up at 12-0-12, and 108 lb down and 56 lb up at 13-11-4 on top chord, and 49 lb down at 2-0-12, 1037 lb down and 85 lb up at 2-0-12, 49 lb down at 4-0-12, 1037 lb down and 85 lb up at 4-0-12, 49 lb down at 6-0-12, 1037 lb down and 85 lb up at 6-0-12, 49 lb down at 8-0-12, 1037 lb down and 85 lb up at 8-0-12, 49 lb down at 10-0-12, 1037 lb down and 85 lb up at 10-0-12, and 49 lb down at 12-0-12, and 1037 lb down and 85 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### SEAL 036322 A. GILB "inminin March 7,2019

### LOAD CASE(S) Standard

Continued on page 2 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 permanent. 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	Truss	Truss Type	Qty	Ply	Wrightsville B Base
					E12779145
B0319-1094	E01	Flat Girder	1	2	Joh Reference (antional)

Comtech, Inc.,

Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:57 2019 Page 2 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-Sf2sa\_Nf5aLopGsBvwn2Ws3cCJkYUU189hAe8ozdaTK

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 1=-113 5=-108 11=-66(B) 12=-66(B) 13=-66(B) 14=-66(B) 15=-66(B) 15=-66(B) 17=-873(F=-849, B=-25) 18=-873(F=-849, B=-25) 19=-873(F=-849, B=-25)

20=-873(F=-849, B=-25) 21=-873(F=-849, B=-25) 22=-873(F=-849, B=-25)



Job Truss Truss Type Qty Wrightsville B Base E12779146 B0319-1094 G01 COMMON SUPPORTED GAB Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309

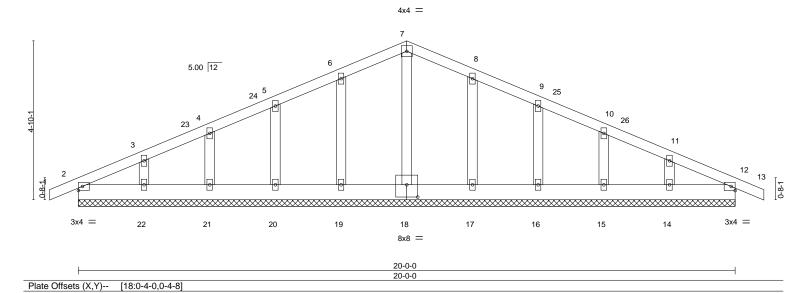
10-0-0

10-0-0

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:58 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-wrcEnKOlstTfRQROTeJH34cspiCyD80IOLwBgEzdaTJ

20-10-8 20-0-0 0-10-8

Scale = 1:35.1



LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.01
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05
BCDL 10.0	Code IRC2015/TF	PI2014	Matrix-S

**BRACING-**

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

12

12

12

-0.00

-0.00

0.00

I/defI

n/r

n/r

n/a

TOP CHORD **BOT CHORD** 

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

**PLATES** 

Weight: 112 lb

MT20

GRIP

244/190

FT = 20%

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

I/d

120

120

n/a

REACTIONS. All bearings 20-0-0.

2x4 SP No.1

2x6 SP No.1

2x4 SP No.3

(lb) - Max Horz 2=-92(LC 17)

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

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

LUMBER-

**OTHERS** 

TOP CHORD

BOT CHORD

0-10-8 0-10-8

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 10-0-0, Corner(3) 10-0-0 to 14-4-13 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) 12, 19, 20, 21, 22, 17. 16. 15. 14. 2.



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 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 in-jury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Wrightsville B Base Truss Truss Type Qty E12779147 B0319-1094 G02 COMMON Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:00:58 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-wrcEnKOlstTfRQROTeJH34clvi7OD61IOLwBgEzdaTJ Comtech, Inc., Fayetteville, NC 28309

<del>0-10-8</del> <del>0-10-8</del> 10-0-0 20-0-0 20-10-8 10-0-0 0-10-8

Scale = 1:36.0

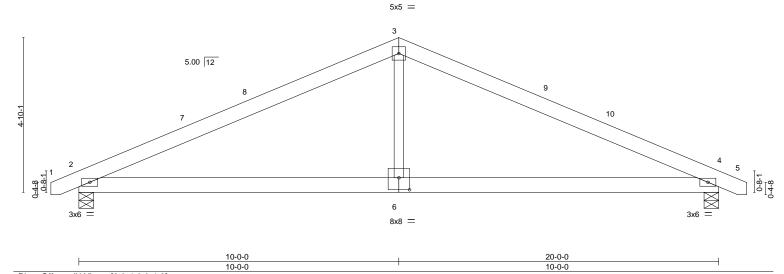


Plate Off	sets (X,Y)				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.05 4-6 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.12 4-6 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.02 4 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 2-6 >999 240 Weight: 108 lb FT = 20	)%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (lb/size) 4=839/0-5-8, 2=839/0-5-8

Max Horz 2=54(LC 16)

Max Uplift 4=-62(LC 13), 2=-62(LC 12)

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

TOP CHORD 2-3=-1224/290, 3-4=-1224/290 **BOT CHORD** 2-6=-136/1014, 4-6=-136/1014

**WEBS** 3-6=0/475

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



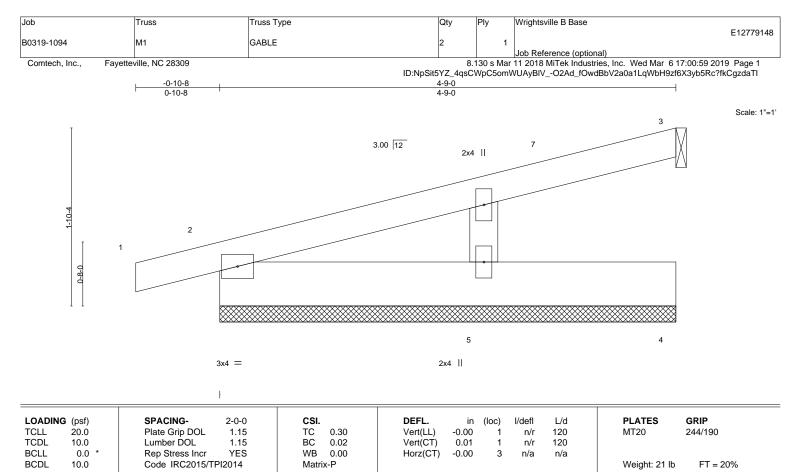
Structural wood sheathing directly applied or 5-11-12 oc purlins.

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

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 permanent. 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.





**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. All bearings 4-9-0.

Max Horz 2=46(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 3, 2

Max Grav All reactions 250 lb or less at joint(s) 3, 2, 4, 5

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

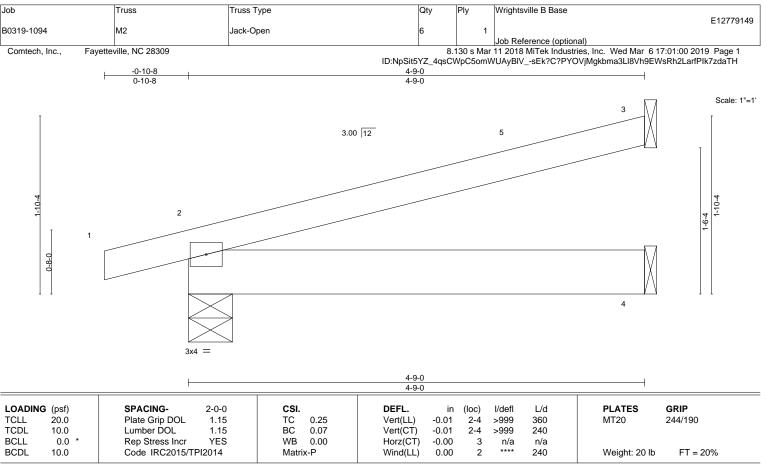
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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LUMBER-

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-9-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=126/Mechanical, 2=253/0-5-8, 4=45/Mechanical

Max Horz 2=46(LC 12)

Max Uplift 3=-52(LC 12), 2=-56(LC 8)

Max Grav 3=126(LC 1), 2=253(LC 1), 4=89(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-8-4 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.





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

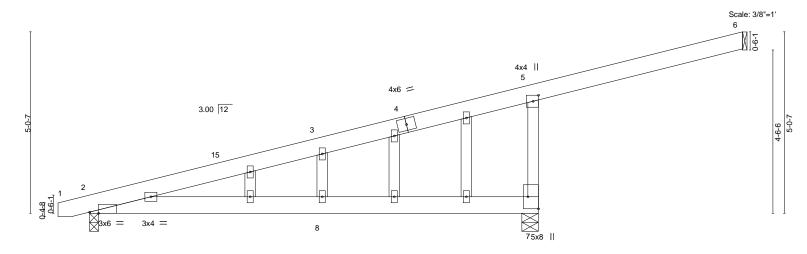
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Job	Truss	Truss Type	Qty	Ply	Wrightsville B Base	
					E1277915	50
B0319-1094	P1	GABLE	1	1		
					Job Reference (optional)	
Comtech Inc Favette	eville NC 28309		8	130 s Mar	11 2018 MiTek Industries Inc. Wed Mar 6 17:01:00 2019 Page 1	

ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-sEk?C?PYOVjMgkbma3Ll8Vh?FWmXh2farfPlk7zdaTH -0-10-8 12-5-8 18-1-8 6-2-12 6-2-12 0-10-8



լ6-2-12		1	12-5-8	18-1-8		
	'	6-2-12	ı	6-2-12	5-8-0	'
Plate Offse	ets (X,Y)	[2:0-2-15,Edge], [5:0-2-0,0-1-12], [7:Edg	je,0-3-8]			
LOADING TCLL TCDL BCLL	(psf) 20.0 10.0 0.0 *	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.89 BC 0.45 WB 0.04	DEFL.         in (loc)         l/de           Vert(LL)         0.36         2-8         >40           Vert(CT)         -0.37         2-8         >39           Horz(CT)         -0.00         6         n/	8 240 MT20 12 240	<b>GRIP</b> 244/190
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 88	lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

**OTHERS** 

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

2x4 SP No.3

**REACTIONS.** (lb/size) 7=813/0-5-8, 2=488/0-3-0, 6=67/Mechanical

Max Horz 2=221(LC 8) Max Uplift 7=-495(LC 8), 2=-251(LC 8), 6=-65(LC 12)

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

TOP CHORD

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-8-3 to 3-8-10, Interior(1) 3-8-10 to 18-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 7=495, 2=251,
- 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.

except end verticals.

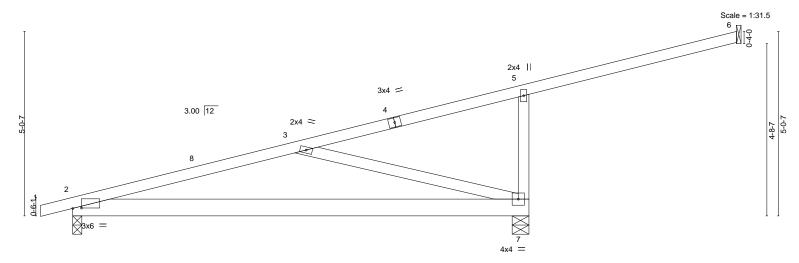
Design valid for use only with MTlesky connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPH Quality Criteria, DSB-89 and BCSI Building Component
Safety Information, available from Truse Plate petitive 218 N. Lea Street, Site 312, Alexandria, VA. 22314. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Type Wrightsville B Base Truss Qty E12779151 B0319-1094 P2 MONOPITCH Job Reference (optional)

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 6 17:01:01 2019 Page 1 ID:NpSit5YZ\_4qsCWpC5omWUAyBIV\_-KQINPLQA9orDltAy8ms\_giECOw5FQNhk4J8rHZzdaTG Comtech. Inc., Fayetteville, NC 28309 0-10-8 12-5-8 18-1-8 6-2-12 6-2-12 6-2-12



ŀ		0-2-12				12-5-8					10-1-0		
		6-2-12				6-2-12					5-8-0	•	
Plate Offsets	(X,Y)	[2:0-2-13,0-0-2]											
LOADING (p:	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20	0.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.21	2-7	>687	360	MT20	244/190	
TCDL 10	0.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.44	2-7	>333	240			
BCLL 0	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.01	7	n/a	n/a			
BCDL 10	0.0	Code IRC2015/TF	PI2014	Matri	k-S	Wind(LL)	0.02	2-7	>999	240	Weight: 72 lb	FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1

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

(lb/size) 7=716/0-5-8, 2=531/0-3-0, 6=133/Mechanical

Max Horz 2=156(LC 8)

Max Uplift 7=-156(LC 12), 2=-56(LC 8), 6=-48(LC 12)

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

TOP CHORD 2-3=-809/192, 5-7=-397/199

**BOT CHORD** 2-7=-323/751 **WEBS** 3-7=-748/354

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 18-0-12 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) 2, 6 except (jt=lb)



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

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

except end verticals.

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 permanent. 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.

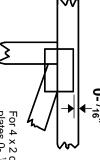


## **Symbols**

# PLATE LOCATION AND ORIENTATION



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



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

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



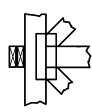
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

# LATERAL BRACING LOCATION



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

### **BEARING**



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

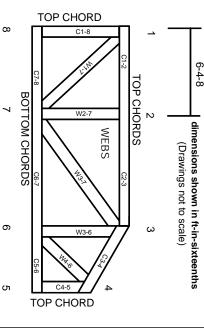
## Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

Guide to Good Practice for Handling **Building Component Safety Information** Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction.

# 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-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

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

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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
- 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
- Cut members to bear tightly against each other

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted

15. Connections not shown are the responsibility of others.

- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. 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
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.