

**Trenco**

818 Soundside Rd  
Edenton, NC 27932

Re: B0317-1321  
Jessamine A

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

Pages or sheets covered by this seal: E10357305 thru E10357367

My license renewal date for the state of North Carolina is December 31, 2017.

North Carolina COA: C-0844

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



March 16, 2017

Gilbert, Eric

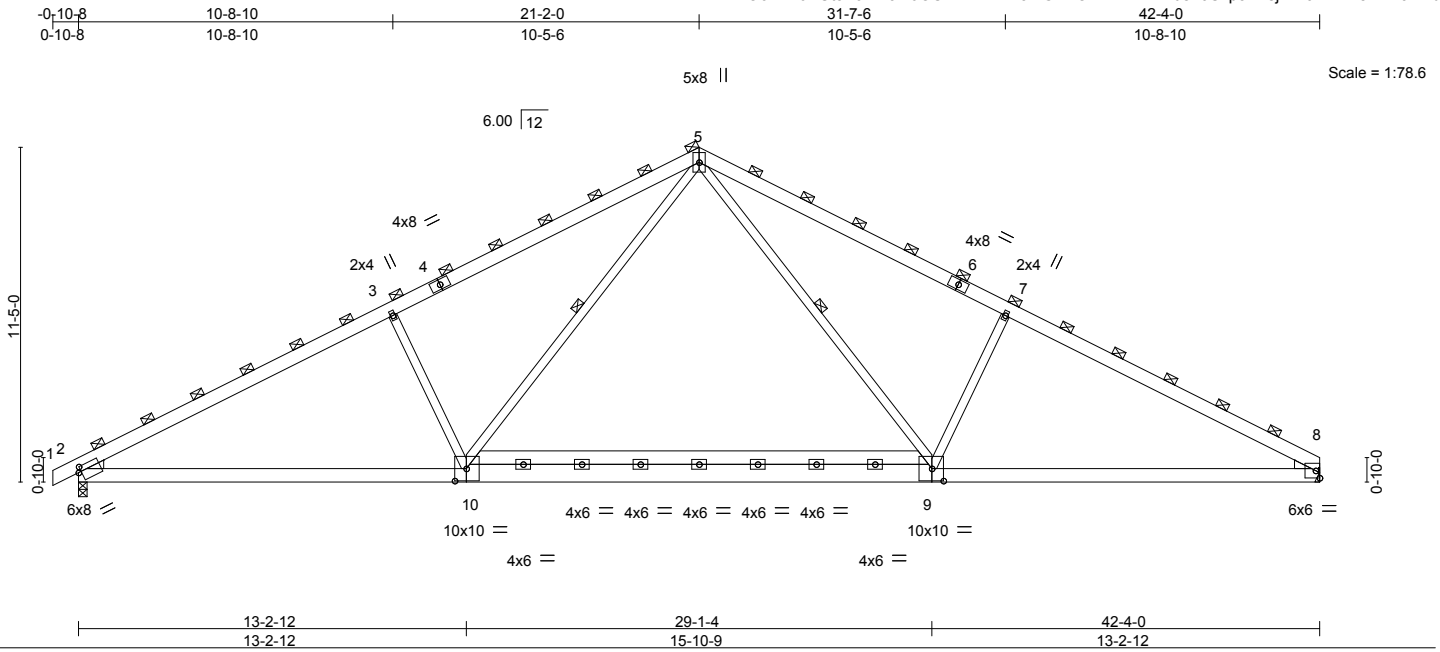
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to Trenco. Any project specific information included is for Trenco's customer's file reference purpose only, and was not taken into account in the preparation of these designs. Trenco has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of the design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job B0317-1321	Truss A01	Truss Type FINK	Qty 1	Ply 1	Jessamine A	E10357305
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 08:14:16 2017 Page 1

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 2-1-8	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(LL) -0.51 9-10 >991 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.76	Vert(TL) -0.74 9-10 >687 240		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Horz(TL) 0.14 8 n/a n/a		
			Wind(LL) 0.12 2-10 >999 240	Weight: 319 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1 \*Except\*  
6-8: 2x6 SP 2400F 2.0E  
BOT CHORD 2x6 SP No.1 \*Except\*  
9-10: 2x8 SP No.1  
WEBS 2x4 SP No.3 \*Except\*  
9-10: 2x6 SP No.1  
WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD 2-0-0 oc purlins (2-9-7 max.)  
(Switched from sheeted: Spacing > 2-0-0).  
BOT CHORD Rigid ceiling directly applied or 7-1-14 oc bracing.  
WEBS 1 Row at midpt 5-10, 5-9

**REACTIONS.** (lb/size) 2=2359/0-3-8 (min. 0-2-13), 8=2290/Mechanical  
Max Horz 2=182(LC 5)  
Max Uplift 2=330(LC 6), 8=-276(LC 7)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/6, 2-3=-4378/912, 3-4=-4070/926, 4-5=-3905/980, 5-6=-3918/988, 6-7=-4086/934, 7-8=-4362/920  
BOT CHORD 2-10=-656/3739, 9-10=-253/2424, 8-9=-669/3762  
WEBS 3-10=-571/454, 5-10=-335/1816, 5-9=-345/1838, 7-9=-594/470

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 330 lb uplift at joint 2 and 276 lb uplift at joint 8.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)**

- Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-10=-21, 9-10=-85, 8-9=-21, 1-5=-64, 5-8=-64
- Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 2-8=-42, 1-5=-21, 5-8=-21
- Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Jessamine A	E10357305
B0317-1321	A01	FINK	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 08:14:16 2017 Page 2

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#### LOAD CASE(S)

- Uniform Loads (plf)  
 Vert: 2-8=-11, 1-2=92, 2-5=34, 5-8=34  
 Horz: 1-2=-104, 2-5=-47, 5-8=47
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 2-8=-11, 1-2=24, 2-5=1, 5-8=17  
 Horz: 1-2=-37, 2-5=-13, 5-8=30
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 2-8=-11, 1-2=8, 2-5=17, 5-8=1  
 Horz: 1-2=-21, 2-5=-30, 5-8=13
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 2-8=-11, 1-2=52, 2-5=29, 5-8=13  
 Horz: 1-2=-65, 2-5=-41, 5-8=26
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 2-8=-11, 1-2=5, 2-5=13, 5-8=29  
 Horz: 1-2=-18, 2-5=-26, 5-8=41
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 2-8=-11, 1-2=52, 2-5=29, 5-8=13  
 Horz: 1-2=-65, 2-5=-41, 5-8=26
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 2-8=-11, 1-2=5, 2-5=13, 5-8=29  
 Horz: 1-2=-18, 2-5=-26, 5-8=41
- 10) 1st Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 2-10=-21, 9-10=-85, 8-9=-21, 1-5=-64, 5-8=-21
- 11) 2nd Dead + Roof Live (unbalanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 2-10=-21, 9-10=-85, 8-9=-21, 1-5=-21, 5-8=-64

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

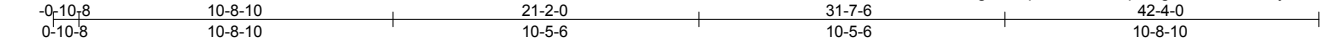
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.



818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss A02	Truss Type Common	Qty 4	Ply 1	Jessamine A	E10357306
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)	

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:48 2017 Page 1  
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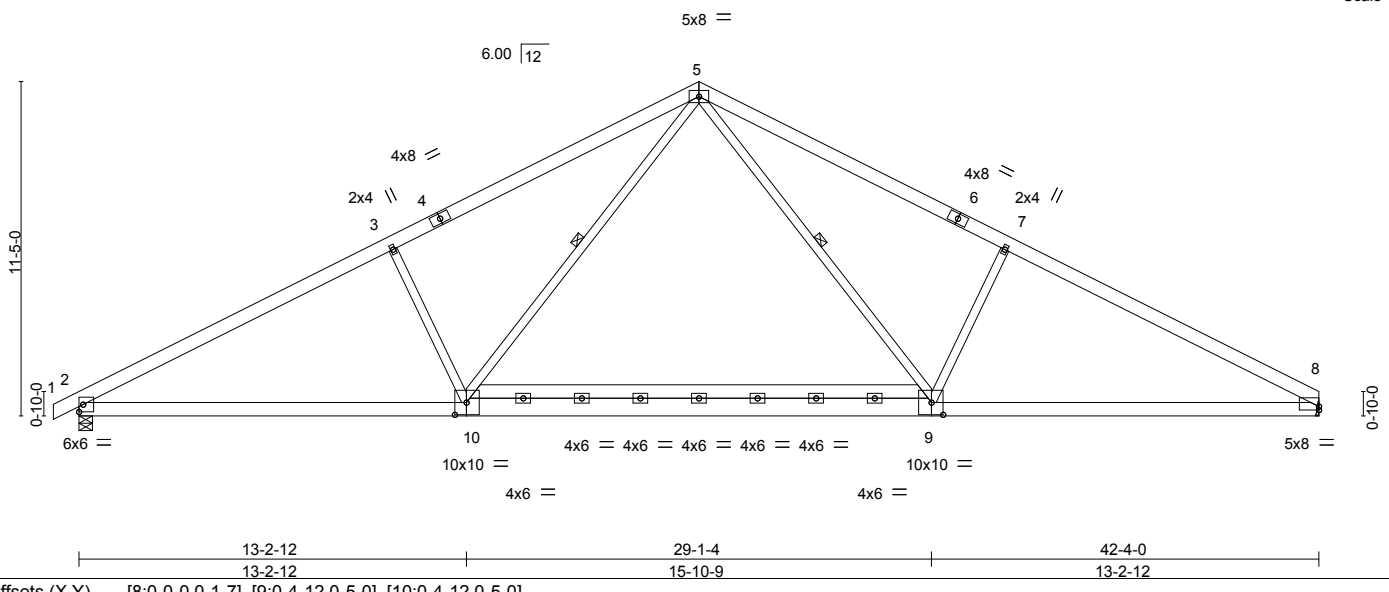


Plate Offsets (X,Y)--	[8:0-0-0,0-1-7], [9:0-4-12,0-5-0], [10:0-4-12,0-5-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.49	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(TL)	-0.70	9-10	>718		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(TL)	0.13	8	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-S	Wind(LL)	0.11	2-10	>999		
								Weight: 317 lb	FT = 20%

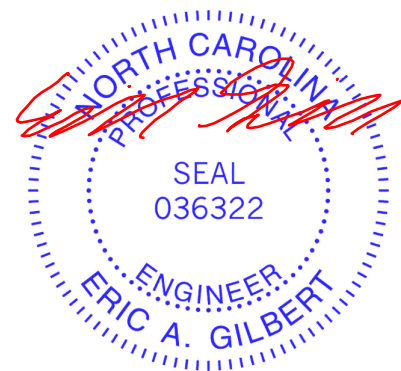
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-10, 5-9
9-10: 2x8 SP No.1	
9-10: 2x6 SP No.1	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=2224/0-5-8, 8=2152/Mechanical  
 Max Horz 2=172(LC 5)  
 Max Uplift 2=-314(LC 6), 8=-260(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4098/852, 3-5=-3810/917, 5-7=-3839/927, 7-8=-4099/863  
 BOT CHORD 2-10=-611/3493, 9-10=-237/2275, 8-9=-626/3535  
 WEBS 3-10=-523/423, 5-10=-310/1691, 5-9=-323/1731, 7-9=-557/440

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 2 and 260 lb uplift at joint 8.



Job B0317-1321	Truss A03	Truss Type HIP	Qty 1	Ply 1	Jessamine A	E10357307
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:49 2017 Page 1  
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-0-10-8	9-0-12	17-10-0	24-2-8	30-4-8	36-10-0
0-10-8	9-0-12	8-9-4	6-4-8	6-2-0	6-5-8

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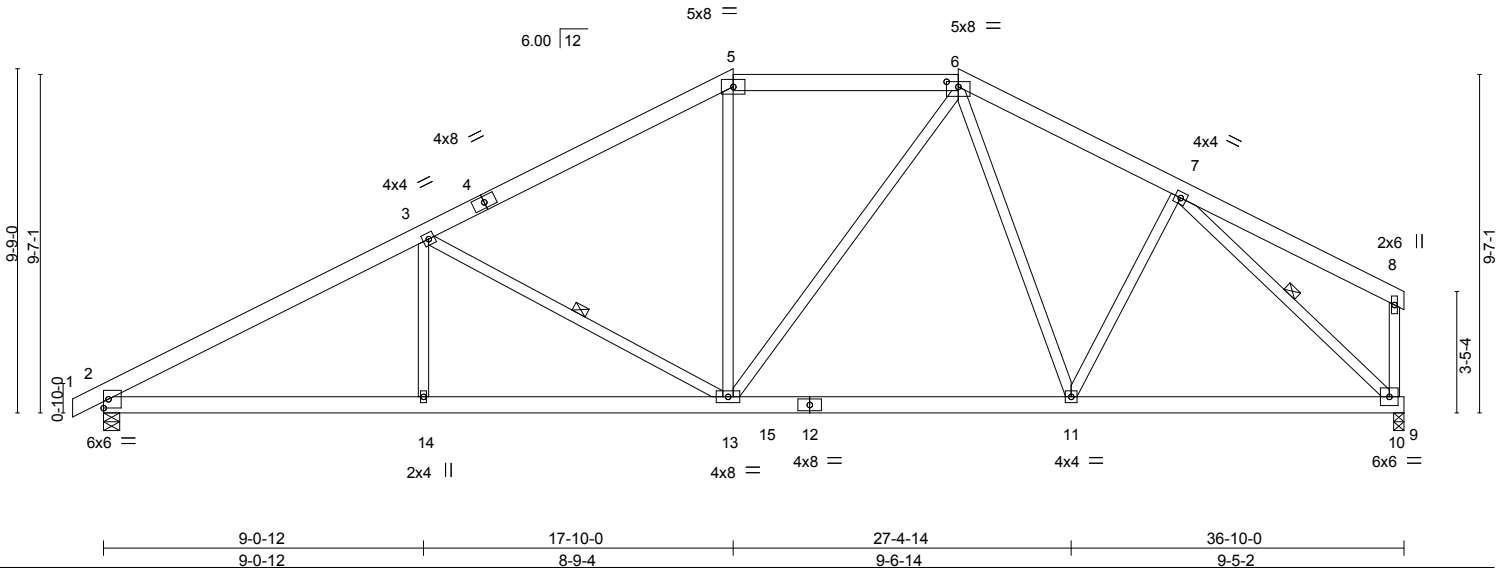


Plate Offsets (X,Y)--	[6:0-4-0-0-1-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.19 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(TL) -0.32 11-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.82	Horz(TL) 0.08 10 n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.06 2-14 >999 240	Weight: 273 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 9-10-1 oc bracing.  
 WEBS 1 Row at midpt 3-13, 7-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1664/0-5-8, 10=1690/0-3-8  
 Max Horz 2=213(LC 6)  
 Max Uplift 2=-273(LC 6), 10=-179(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2796/704, 3-5=-2104/608, 5-6=-1762/609, 6-7=-1879/576  
 BOT CHORD 2-14=-630/2352, 13-14=-630/2352, 11-13=-300/1559, 10-11=-346/1472  
 WEBS 3-14=0/373, 3-13=-681/332, 5-13=-17/440, 6-13=-102/460, 7-11=-1/426, 7-10=-2041/483

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 2 and 179 lb uplift at joint 10.

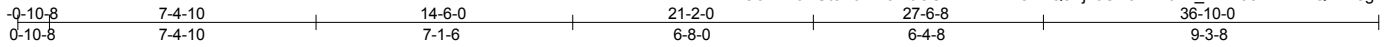


March 16, 2017

Job B0317-1321	Truss A04	Truss Type HIP	Qty 1	Ply 1	Jessamine A	E10357308
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:49 2017 Page 1  
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Scale: 3/16"=1'

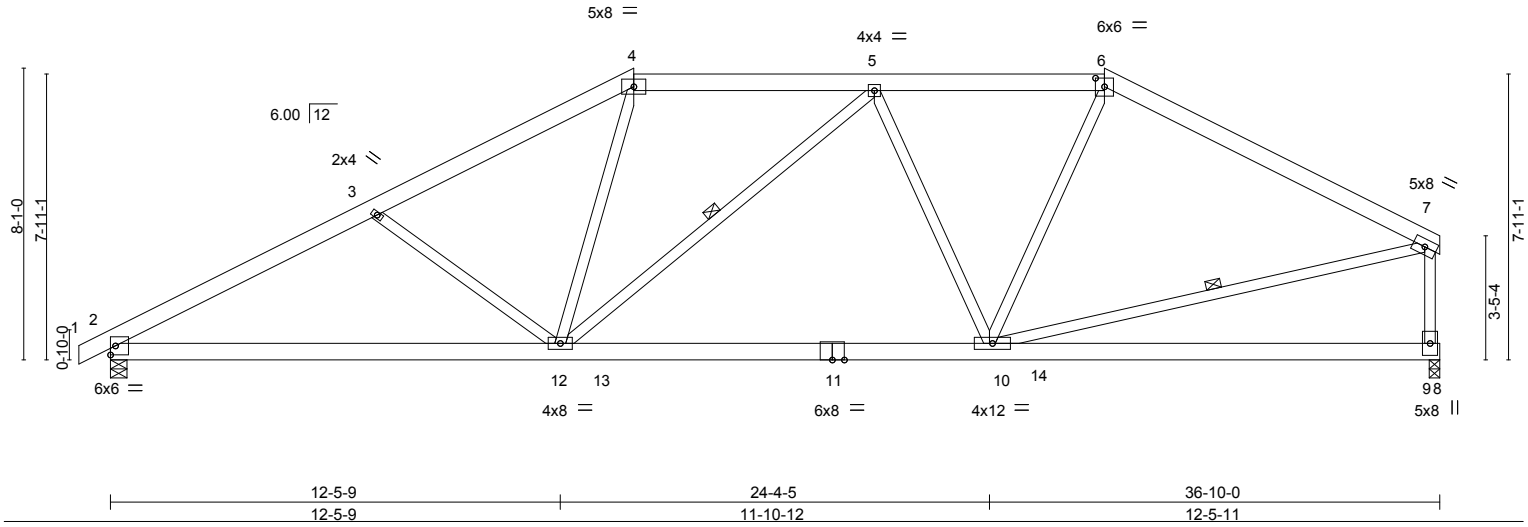


Plate Offsets (X,Y)-- [6:0-3-0-0-2-14]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.41 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(TL)	-0.57 10-12	>759	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(TL)	0.06 9	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-S	Wind(LL)	0.06 10-12	>999	240	Weight: 264 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-3-6 oc bracing.  
WEBS 1 Row at midpt 5-12, 7-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1746/0-5-8, 9=1686/0-3-8  
Max Horz 2=189(LC 6)  
Max Uplift 2=-252(LC 6), 9=-151(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2988/772, 3-4=-2661/689, 4-5=-2088/650, 5-6=-1973/591, 6-7=-2128/580, 7-9=-1603/481  
BOT CHORD 2-12=-707/2523, 10-12=-498/2151  
WEBS 3-12=-293/285, 4-12=-84/782, 5-12=-267/154, 5-10=-497/235, 6-10=-16/587, 7-10=-394/1792

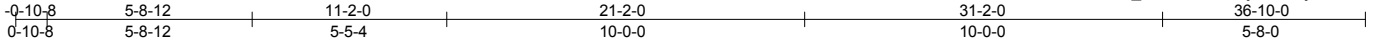
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 2 and 151 lb uplift at joint 9.



March 16, 2017

Job B0317-1321	Truss A05	Truss Type HIP	Qty 1	Ply 1	Jessamine A	E10357309
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)	

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:50 2017 Page 1  
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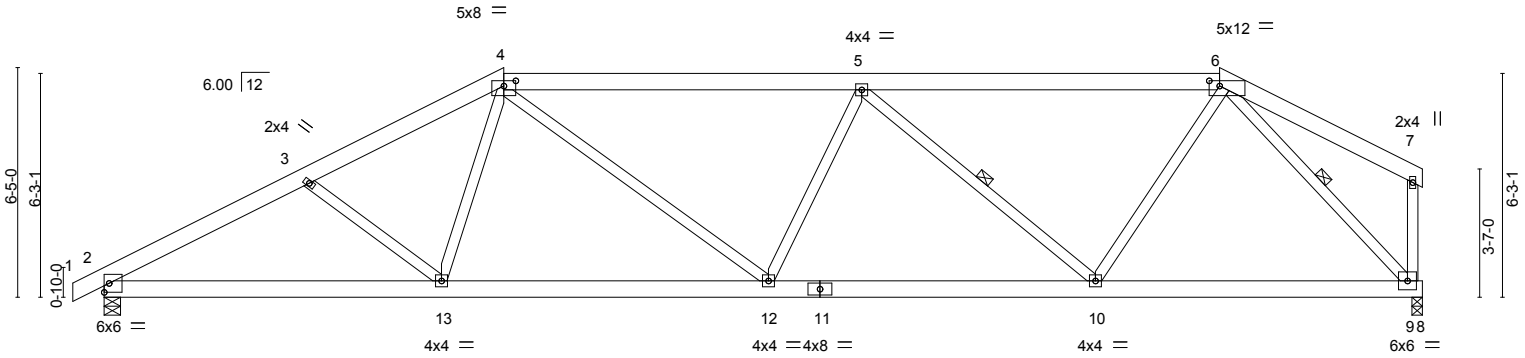


Plate Offsets (X,Y)--	[4:0-4-0,0-1-12], [6:0-3-8,0-1-12]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.08 12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(TL) -0.23 12-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.08 9 n/a n/a		
	Code IRC2009/TP12007		Wind(LL) 0.08 12 >999 240	Weight: 255 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 9-0-4 oc bracing.  
 WEBS 1 Row at midpt 5-10, 6-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1521/0-5-8, 9=1458/0-3-8  
 Max Horz 2=169(LC 6)  
 Max Uplift 2=-225(LC 6), 9=-203(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2495/778, 3-4=-2302/742, 4-5=-2277/803, 5-6=-1634/575  
 BOT CHORD 2-13=-729/2103, 12-13=-599/1924, 10-12=-760/2320, 9-10=-364/1156  
 WEBS 4-13=-22/399, 4-12=-136/553, 5-10=-949/400, 6-10=-191/957, 6-9=-1660/531

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 203 lb uplift at joint 9.



March 16, 2017

**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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

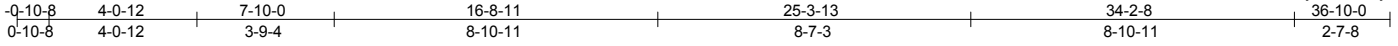


Job B0317-1321	Truss A06	Truss Type HIP GIRDER	Qty 1	Ply 2	Jessamine A	E10357310
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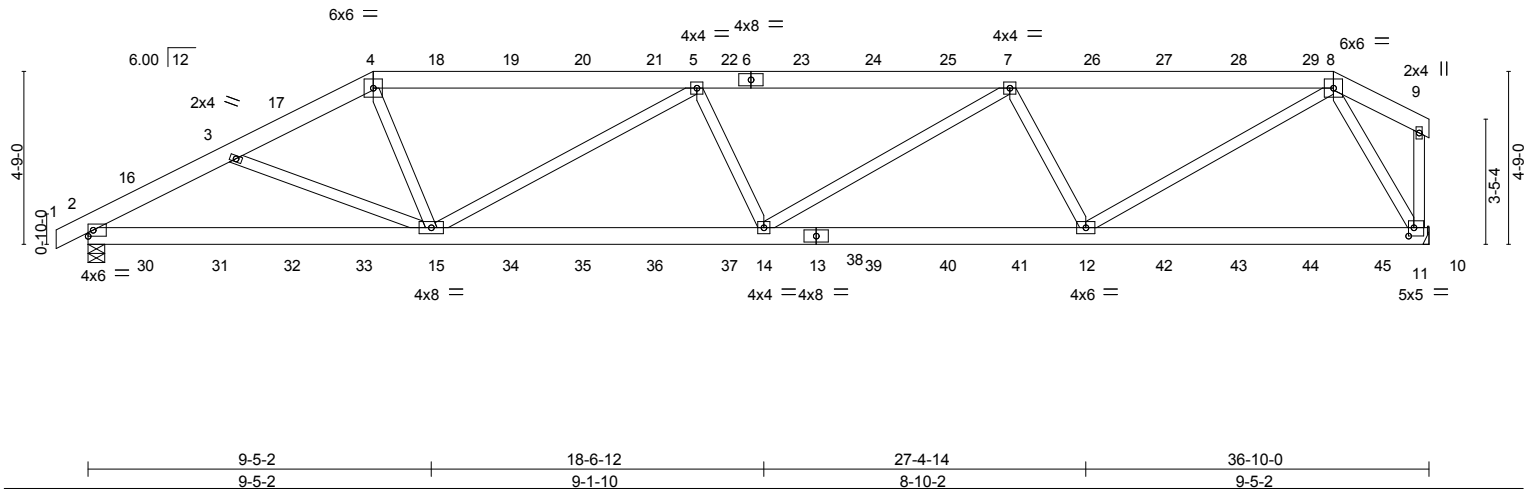
Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:51 2017 Page 1

ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-4JtkrbzVQi9OUZ4?GDm3O2Of7ryDLDst4?yl3zaSFg



Scale = 1:63.3



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.10	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	-0.25	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(TL)	0.07	11	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		Matrix-S		Wind(LL)	0.16	14	>999	240		
											Weight: 503 lb	FT = 20%

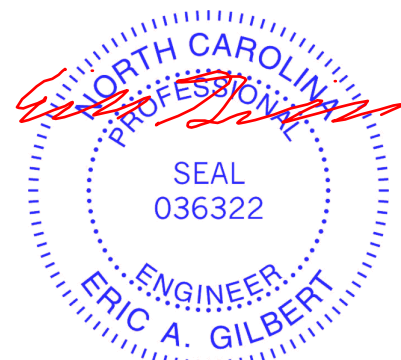
**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.3

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

**REACTIONS.** (lb/size) 2=2260/0-5-8, 11=2266/Mechanical  
Max Horz 2=143(LC 5)  
Max Uplift 2=929(LC 5), 11=-1148(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3666/1698, 3-4=-3604/1762, 4-5=-3587/1752, 5-7=-4724/2448, 7-8=-3570/1836  
BOT CHORD 2-15=-1488/3049, 14-15=-2510/4766, 12-14=-2204/4141, 11-12=-628/1162  
WEBS 4-15=-351/1063, 5-15=-1404/927, 7-14=-270/696, 7-12=-1311/876, 8-12=-1409/2851, 8-11=-2303/1273

- 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, 2x4 - 1 row 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.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 929 lb uplift at joint 2 and 1148 lb uplift at joint 11.



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Continued on page 2

**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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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932



Job B0317-1321	Truss A06	Truss Type HIP GIRDER	Qty 1	Ply <b>2</b>	Jessamine A Job Reference (optional)	E10357310
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Comtech, Inc., Fayetteville, NC 28309

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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-4JtkrbzVQI9OUZ4?GDm3O2Of7ryDLdst4?yl3zaSfg

**NOTES-**

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 57 lb up at 1-6-12, 93 lb down and 54 lb up at 3-6-12, 93 lb down and 61 lb up at 5-6-12, 87 lb down and 122 lb up at 7-10-0, 57 lb down and 101 lb up at 9-6-12, 57 lb down and 101 lb up at 11-6-12, 57 lb down and 101 lb up at 13-6-12, 57 lb down and 101 lb up at 15-6-12, 57 lb down and 101 lb up at 17-6-12, 57 lb down and 101 lb up at 19-6-12, 57 lb down and 101 lb up at 21-6-12, 57 lb down and 101 lb up at 23-6-12, 57 lb down and 101 lb up at 25-6-12, 57 lb down and 101 lb up at 27-6-12, 57 lb down and 101 lb up at 29-6-12, and 57 lb down and 101 lb up at 31-6-12, and 58 lb down and 101 lb up at 33-6-12 on top chord, and 44 lb down at 1-6-12, 37 lb down at 3-6-12, 37 lb down at 5-6-12, 45 lb down at 7-6-12, 40 lb down and 11 lb up at 9-6-12, 40 lb down and 11 lb up at 11-6-12, 40 lb down and 11 lb up at 13-6-12, 40 lb down and 11 lb up at 15-6-12, 40 lb down and 11 lb up at 17-6-12, 40 lb down and 11 lb up at 19-6-12, 40 lb down and 11 lb up at 21-6-12, 40 lb down and 11 lb up at 23-6-12, 40 lb down and 11 lb up at 25-6-12, 40 lb down and 11 lb up at 27-6-12, 40 lb down and 11 lb up at 29-6-12, 40 lb down and 11 lb up at 31-6-12, and 40 lb down and 11 lb up at 33-6-12, and 133 lb down and 112 lb up at 35-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 8-9=-60, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-62(F) 15=-27(F) 3=-53(F) 7=-57(F) 12=-27(F) 16=-46(F) 17=-53(F) 18=-57(F) 19=-57(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=-57(F) 24=-57(F) 25=-57(F) 26=-57(F) 27=-57(F) 28=-57(F) 29=-57(F) 30=-28(F) 31=-31(F) 32=-31(F) 33=-22(F) 34=-27(F) 35=-27(F) 36=-27(F) 37=-27(F) 38=-27(F) 39=-27(F) 40=-27(F) 41=-27(F) 42=-27(F) 43=-27(F) 44=-27(F) 45=-133

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Job B0317-1321	Truss A07	Truss Type HIP	Qty 1	Ply 1	Jessamine A	E10357311
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ID:OoL2Y6YU13EJID4aR6OS4Az7M4T-YWR63BbbGjq00e8GYzk?bcbTsw4oymy06klWHVzaSff

0-10-8	9-0-12	17-10-0	24-6-0	33-3-4	42-4-0	43-2-8
0-10-8	9-0-12	8-9-4	6-8-0	8-9-4	9-0-12	0-10-8

Scale = 1:74.8

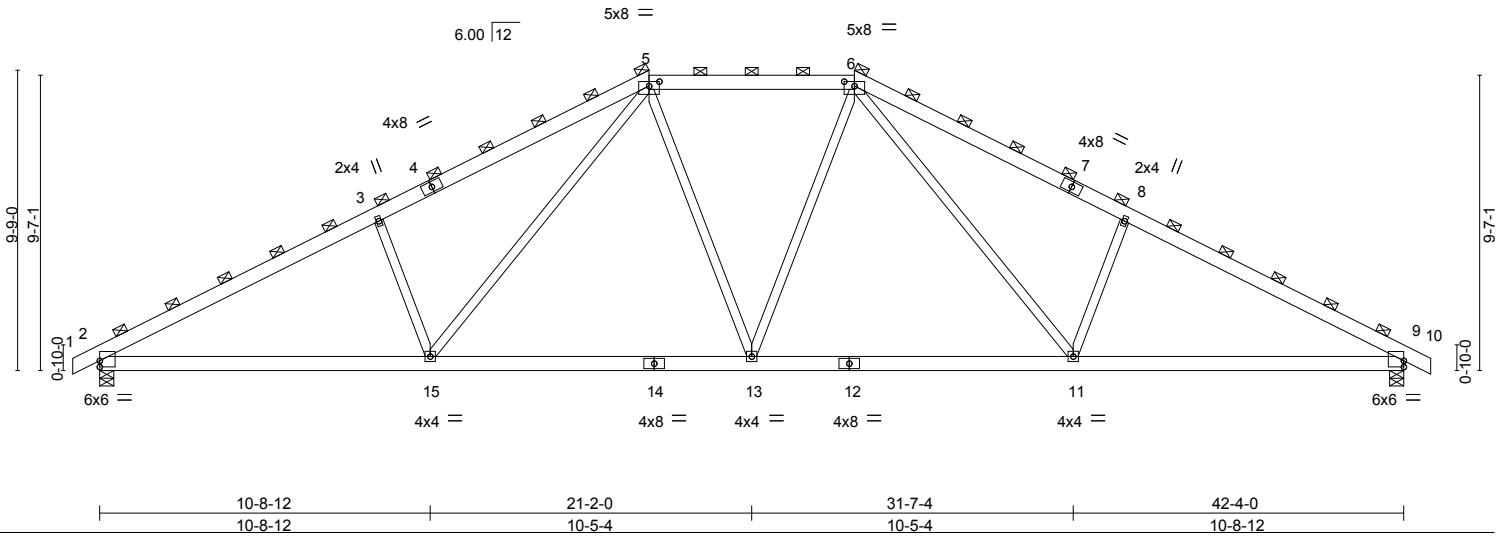


Plate Offsets (X,Y)--	[2:0-0-0,0-2-7], [5:0-4-0,0-1-12], [6:0-4-0,0-1-12], [9:Edge,0-2-7]
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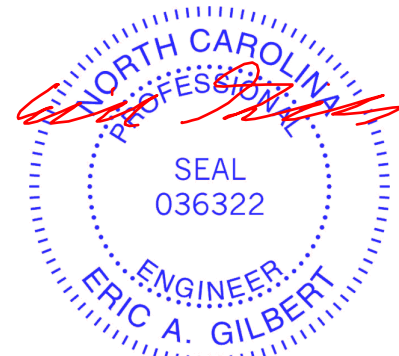
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-1-8	TC 0.88	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.86	Vert(LL) -0.28 13-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.75	Vert(TL) -0.48 13-15 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.14 9 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.09 15 >999 240	Weight: 289 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (3-5-4 max.)
BOT CHORD 2x6 SP No.1	(Switched from sheeted: Spacing > 2-0-0).
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 9-7-15 oc bracing.

**REACTIONS.** (lb/size) 2=2294/0-5-8, 9=2294/0-5-8  
 Max Horz 2=150(LC 5)  
 Max Uplift 2=-312(LC 6), 9=-312(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4069/906, 3-5=-3852/1004, 5-6=-2836/774, 6-8=-3852/1004, 8-9=-4069/906  
 BOT CHORD 2-15=-656/3459, 13-15=-356/2704, 11-13=-356/2704, 9-11=-656/3459  
 WEBS 3-15=-392/363, 5-15=-289/1045, 5-13=-33/567, 6-13=-33/567, 6-11=-289/1045,  
 8-11=-392/363

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 2 and 312 lb uplift at joint 9.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 16, 2017

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Job B0317-1321	Truss A08	Truss Type HIP	Qty 1	Ply 1	Jessamine A	E10357312
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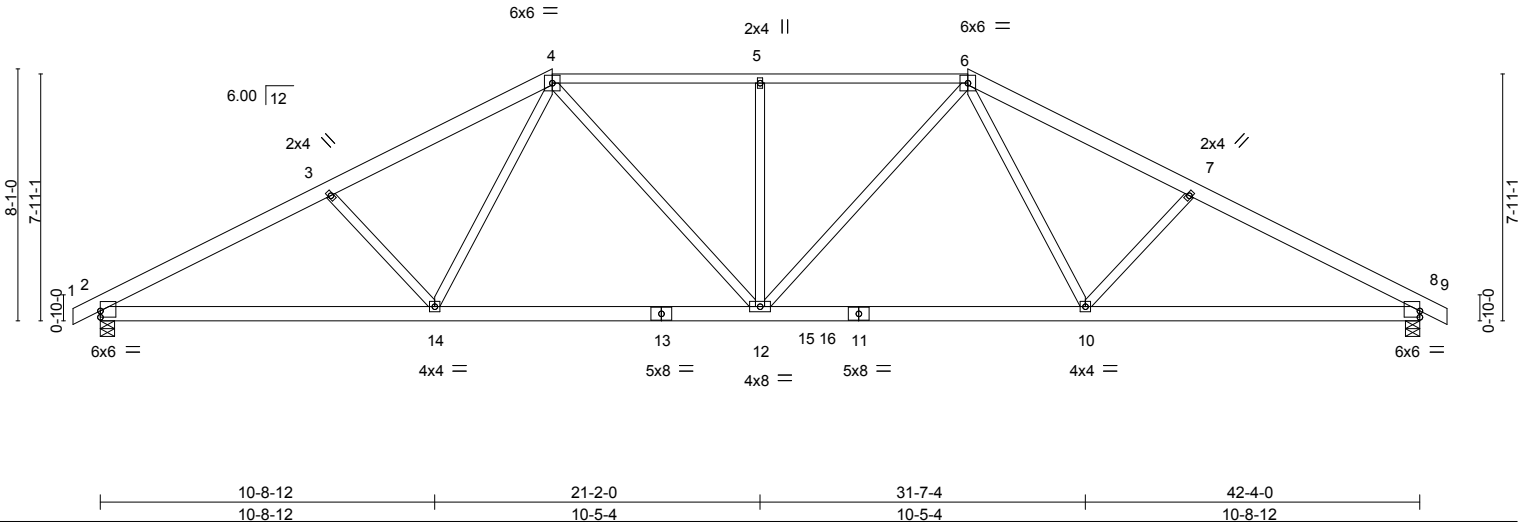
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:52 2017 Page 1

ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-YWR63BbbGjq00e8GYzk?bcbVWV6kyqn06kiWHVzaSff

0-10-8	7-4-12	14-6-0	21-2-0	27-10-0	34-11-4	42-4-0	43-2-8
0-10-8	7-4-12	7-1-4	6-8-0	6-8-0	7-1-4	7-4-12	0-10-8

Scale = 1:73.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.29 12-14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(TL) -0.49 12-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(TL) 0.14 8 n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.09 12 >999 240		
				Weight: 278 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

**BRACING-**  
 TOP CHORD  
 BOT CHORD

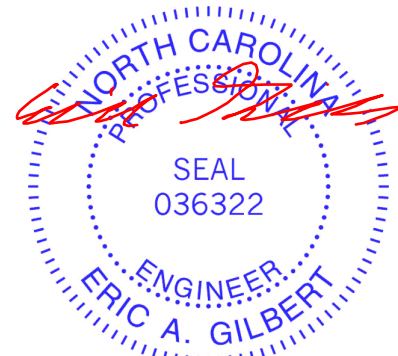
Structural wood sheathing directly applied or 2-10-6 oc purlins.  
 Rigid ceiling directly applied or 9-6-9 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=2145/0-5-8, 8=2145/0-5-8  
 Max Horz 2=116(LC 5)  
 Max Uplift 2=-269(LC 6), 8=-269(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3800/901, 3-4=-3539/878, 4-5=-3266/871, 5-6=-3266/871, 6-7=-3539/878,  
 7-8=-3800/901  
 BOT CHORD 2-14=-676/3229, 12-14=-455/2776, 10-12=-455/2776, 8-10=-676/3229  
 WEBS 3-14=-244/266, 4-14=-100/685, 4-12=-135/873, 5-12=-467/273, 6-12=-135/873,  
 6-10=-100/685, 7-10=-244/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 2 and 269 lb uplift at joint 8.



March 16, 2017

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Job	Truss	Truss Type	Qty	Ply	Jessamine A	E10357313
B0317-1321	B01	ROOF SPECIAL	1	1		

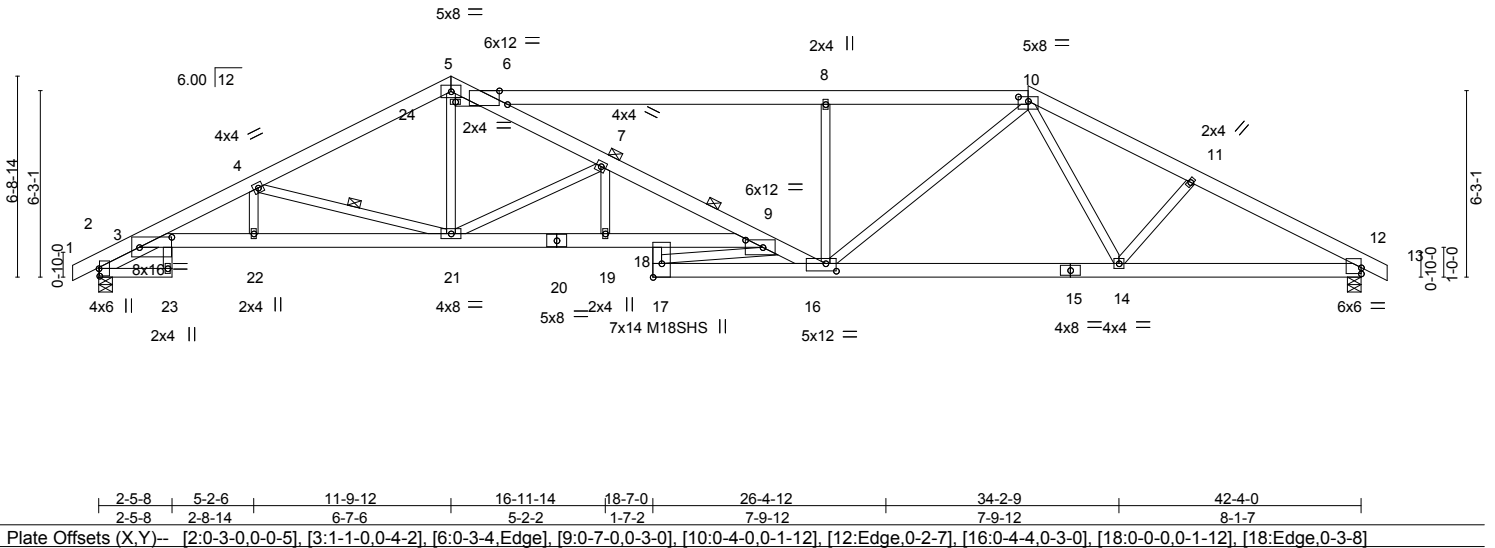
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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-ftYZWXWciYuBexBKkvcSeJNYtyacswfdtuh4?xzaQuZ

0-10-8	2-5-8	5-2-6	7-1-10	11-9-12	12-5-8	16-11-14	18-7-0	24-10-8	31-2-0	36-7-6	42-4-0	48-2-8
0-10-8	2-5-8	2-8-14	1-11-4	4-8-2	0-7-12	4-6-6	1-7-2	6-3-8	6-3-8	5-5-6	5-8-10	0-10-8

Scale = 1:77.3



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.30 17 >999 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.86	Vert(TL) -0.77 17 >660 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.38 12 n/a n/a		
	Code IRC2009/TP12007		Wind(LL) 0.25 17 >999 240	Weight: 327 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP 2400F 2.0E \*Except\*  
6-10,10-13: 2x6 SP No.1  
BOT CHORD 2x6 SP 2400F 2.0E \*Except\*  
2-23: 2x4 SP No.1, 3-23: 2x4 SP No.3, 9-20,12-15: 2x6 SP No.1  
17-18: 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
5-21: 2x4 SP No.2  
SLIDER Left 2x4 SP No.2 2-1-6

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. Except:  
1 Row at midpt 7-16  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
1 Row at midpt 4-21  
WEBS  
JOINTS 1 Brace at Jt(s): 7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1756/0-5-8 (min. 0-2-1), 12=1752/0-5-8 (min. 0-2-1)  
Max Horz 2=104(LC 5)  
Max Uplift 2=227(LC 6), 12=380(LC 7)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

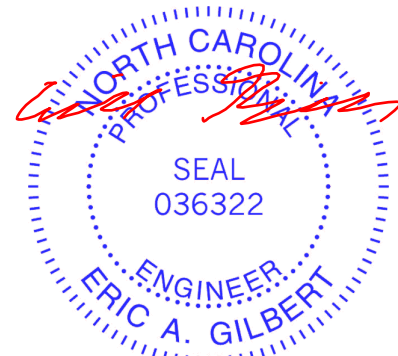
TOP CHORD 1-2=0/0, 2-3=-1057/339, 3-4=-4370/1259, 4-5=-3231/1009, 5-6=-2230/700, 6-7=-170/275, 7-9=-990/201, 9-16=-224/778,  
6-8=-3128/1078, 8-10=-3181/1118, 10-11=-2810/910, 11-12=-2992/912, 12-13=0/5  
BOT CHORD 2-23=-45/0, 3-23=0/74, 3-22=-1068/4011, 21-22=-1068/4011, 20-21=-1027/4085, 19-20=-1027/4085, 18-19=-1027/4085,  
9-18=-916/3609, 17-18=-183/796, 16-17=-595/2362, 15-16=-579/2319, 14-15=-579/2319, 12-14=-697/2518  
WEBS 21-24=-218/1081, 5-24=-211/1064, 10-14=-32/377, 11-14=-111/164, 4-21=-1227/400, 4-22=0/384, 7-21=-1359/366,  
7-19=-62/557, 9-17=-2001/514, 8-16=-640/388, 10-16=-353/1101, 6-24=-376/145

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 2 and 380 lb uplift at joint 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)**

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-10=-60, 10-13=-60, 2-23=-20, 3-18=-20, 12-17=-20



March 16, 2017

Continued on page 2

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

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Jessamine A	E10357313
B0317-1321	B01	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 08:21:20 2017 Page 2  
 ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-ftYZWXWciYuBexBKkvcSeJNYtyacswfdtuh4?xzaQuz

**LOAD CASE(S)**

- 2) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-20, 3-5=-20, 5-6=-20, 6-10=-20, 10-13=-20, 2-23=-40, 3-18=-40, 12-17=-40
- 3) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=86, 2-3=32, 3-5=32, 5-6=32, 6-10=36, 10-12=32, 12-13=86, 2-23=-10, 3-18=-10, 12-17=-10  
 Horz: 2-3=-44, 3-5=-44, 5-6=44, 6-8=-48, 10-12=44, 12-13=98  
 Drag: 1-2=-1, 8-10=0
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=23, 2-3=0, 3-5=0, 5-6=16, 6-10=13, 10-12=16, 12-13=8, 2-23=-10, 3-18=-10, 12-17=-10  
 Horz: 2-3=-12, 3-5=-12, 5-6=28, 6-8=-25, 10-12=28, 12-13=20  
 Drag: 1-2=0, 8-10=0
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=8, 2-3=16, 3-5=16, 5-6=0, 6-10=27, 10-12=0, 12-13=23, 2-23=-10, 3-18=-10, 12-17=-10  
 Horz: 2-3=-28, 3-5=-28, 5-6=12, 6-8=-39, 10-12=12, 12-13=35  
 Drag: 1-2=0, 8-10=0
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=49, 2-3=27, 3-5=27, 5-6=13, 6-10=13, 10-12=13, 12-13=5, 2-23=-10, 3-18=-10, 12-17=-10  
 Horz: 2-3=-39, 3-5=-39, 5-6=25, 6-8=-25, 10-12=25, 12-13=17  
 Drag: 1-2=0, 8-10=0
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=5, 2-3=13, 3-5=13, 5-6=27, 6-10=27, 10-12=27, 12-13=49, 2-23=-10, 3-18=-10, 12-17=-10  
 Horz: 2-3=-25, 3-5=-25, 5-6=39, 6-8=-39, 10-12=39, 12-13=61  
 Drag: 1-2=0, 8-10=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=49, 2-3=27, 3-5=27, 5-6=13, 6-10=13, 10-12=13, 12-13=5, 2-23=-10, 3-18=-10, 12-17=-10  
 Horz: 2-3=-39, 3-5=-39, 5-6=25, 6-8=-25, 10-12=25, 12-13=17  
 Drag: 1-2=0, 8-10=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=5, 2-3=13, 3-5=13, 5-6=27, 6-10=27, 10-12=27, 12-13=49, 2-23=-10, 3-18=-10, 12-17=-10  
 Horz: 2-3=-25, 3-5=-25, 5-6=39, 6-8=-39, 10-12=39, 12-13=61  
 Drag: 1-2=0, 8-10=0
- 10) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-5=-60, 5-6=-20, 6-10=-20, 10-13=-20, 2-23=-20, 3-18=-20, 12-17=-20
- 11) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-20, 3-5=-20, 5-6=-60, 6-10=-60, 10-13=-60, 2-23=-20, 3-18=-20, 12-17=-20

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Job B0317-1321	Truss B02	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	Jessamine A	E10357314
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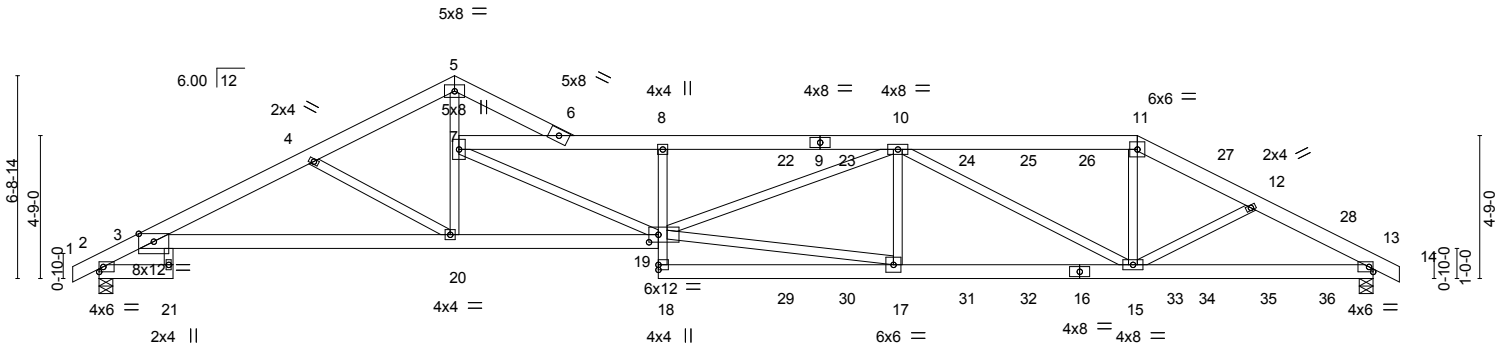
Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:54 2017 Page 1

ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-UuYsTtdroL4kFxfGOnTg1gn0KnQqeslZ2EdLQzaSFd

0-10-8	2-5-8	7-1-10	11-9-12	15-9-8	18-7-0	26-6-8	34-6-0	38-3-4	42-4-0	43-2-8
0-10-8	2-5-8	4-8-2	4-8-2	3-11-12	2-9-8	7-11-8	7-11-8	3-9-4	4-0-12	0-10-8

Scale = 1:76.6



2-5-8	11-9-12	18-7-0	26-6-8	34-6-0	42-4-0
2-5-8	9-4-4	6-9-4	7-11-8	7-11-8	7-10-0

Plate Offsets (X,Y)-- [3:0-6-0-0-3-2], [19:0-3-12,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.27	19-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(TL) -0.69	19-20	>733	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.85	Horz(TL) 0.30	13	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.32	19-20	>999	240		
							Weight: 614 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 3-21: 2x4 SP No.3, 8-18: 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 5-20: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 2-21.

**REACTIONS.**

(lb/size) 2=1952/0-5-8, 13=2327/0-5-8  
 Max Horz 2=-96(LC 3)  
 Max Uplift 2=-501(LC 5), 13=-911(LC 6)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1258/390, 3-4=-4205/1148, 4-5=-3655/1095, 5-6=-3377/1007, 6-7=-3486/1435,  
 6-8=-6572/2324, 8-10=-6408/2277, 10-11=-3368/1470, 11-12=-3756/1577,  
 12-13=-3831/1559  
 BOT CHORD 3-20=-1016/3828, 19-20=-809/3276, 8-19=-1549/567, 17-18=-289/864, 15-17=-1943/4951,  
 13-15=-1253/3183  
 WEBS 4-20=-717/305, 7-20=-85/717, 5-7=-765/2613, 7-19=-1522/3650, 17-19=-1668/4121,  
 10-19=-232/1580, 10-17=-324/247, 10-15=-1806/736, 11-15=-282/1095

**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: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 501 lb uplift at joint 2 and 911 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Continued on page 2

**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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818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss B02	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply <b>2</b>	Jessamine A Job Reference (optional)	E10357314
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:54 2017 Page 2  
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**NOTES-**

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down and 100 lb up at 22-9-4, 94 lb down and 100 lb up at 24-9-4, 94 lb down and 100 lb up at 26-9-4, 84 lb down and 94 lb up at 28-9-4, 84 lb down and 94 lb up at 30-9-4, 84 lb down and 94 lb up at 32-9-4, 102 lb down and 122 lb up at 34-6-0, 93 lb down and 61 lb up at 36-9-4, and 93 lb down and 54 lb up at 38-9-4, and 86 lb down and 57 lb up at 40-9-4 on top chord, and 38 lb down and 12 lb up at 22-9-4, 38 lb down and 12 lb up at 24-9-4, 38 lb down and 12 lb up at 26-9-4, 36 lb down and 25 lb up at 28-9-4, 36 lb down and 25 lb up at 30-9-4, 36 lb down and 25 lb up at 32-9-4, 45 lb down at 34-9-4, 37 lb down at 36-9-4, and 37 lb down at 38-9-4, and 44 lb down at 40-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-11=-60, 11-14=-60, 2-21=-20, 3-19=-20, 13-18=-20

Concentrated Loads (lb)

Vert: 11=-62(B) 16=-27(B) 17=-25(B) 10=-54(B) 12=-53(B) 22=-54(B) 23=-54(B) 24=-44(B) 25=-44(B) 26=-44(B) 27=-53(B) 28=-46(B) 29=-25(B) 30=-25(B) 31=-27(B) 32=-27(B) 33=-22(B) 34=-31(B) 35=-31(B) 36=-28(B)

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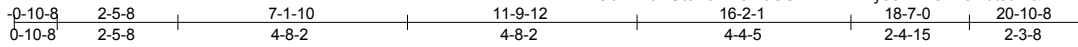
818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss B03	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Jessamine A	E10357315
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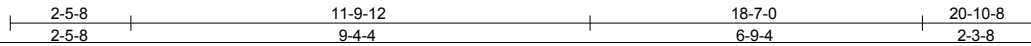
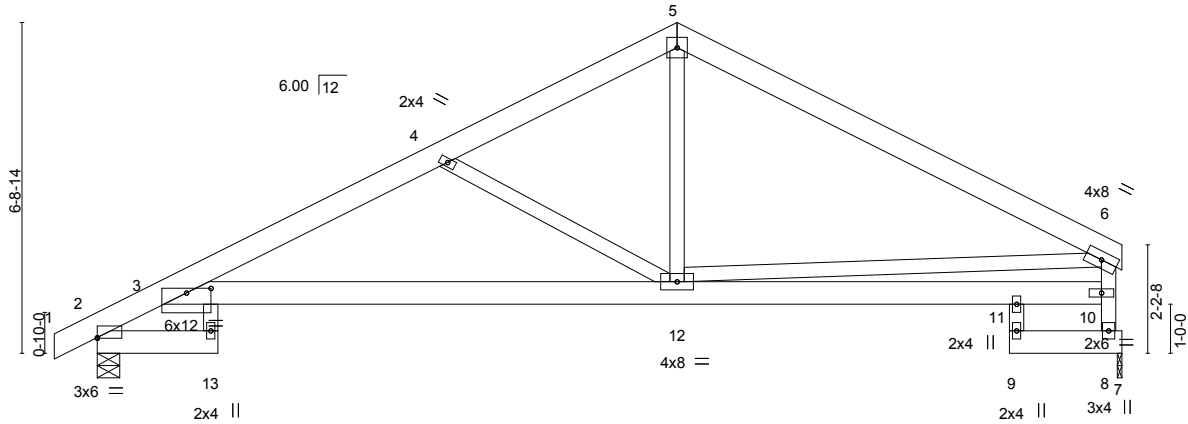
Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:55 2017 Page 1

ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-y56EhDeTZeDbt5trE5iiDED?5kCN9DFSoizAuqzaSFc



Scale = 1:46.9



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.11	3-12	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(TL)	-0.35	3-12	>690	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(TL)	0.16	8	n/a	n/a			
BCDL	10.0	Code IRC2009/TP12007		Matrix-S		Wind(LL)	0.11	13	>999	240			
											Weight: 145 lb	FT = 20%	

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 3-13,9-11: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-13,8-9.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

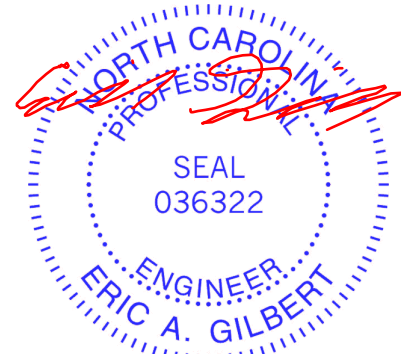
(lb/size) 2=902/0-5-8, 8=820/0-1-2  
 Max Horz 2=141(LC 6)  
 Max Uplift 2=-176(LC 6), 8=-111(LC 7)

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

TOP CHORD 2-3=-541/108, 3-4=-1484/454, 4-5=-1030/325, 5-6=-1074/289, 8-10=-787/233, 6-10=-741/258  
 BOT CHORD 3-12=-385/1328, 11-12=-136/379, 10-11=-137/402  
 WEBS 4-12=-567/280, 5-12=-36/574, 6-12=-36/476

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2 and 111 lb uplift at joint 8.



March 16, 2017

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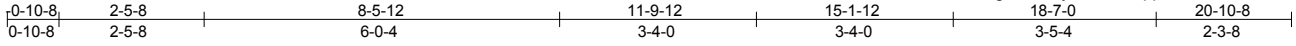
Job B0317-1321	Truss B04	Truss Type Hip Girder	Qty 1	Ply <b>2</b>	Jessamine A	E10357316
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:56 2017 Page 1

ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-RHgdUyE6JyLSVFR1nppxmSmBo8YIuizb1MjjQGzaSFb

Job Reference (optional)



Scale = 1:39.0

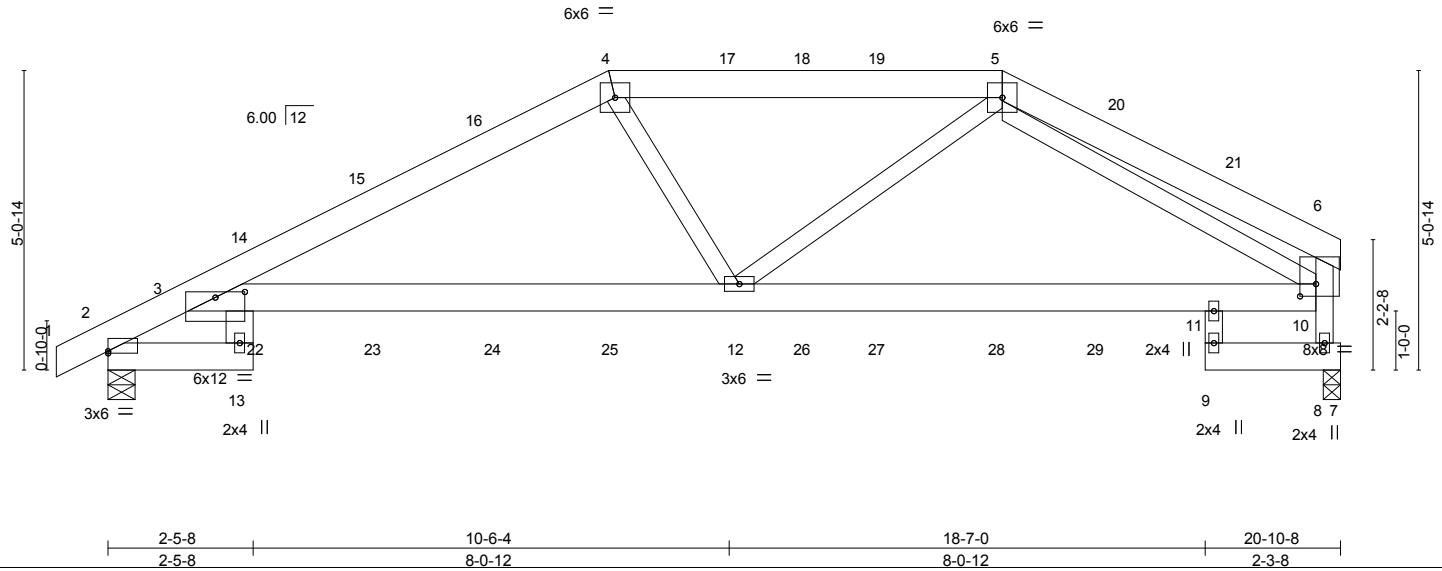


Plate Offsets (X,Y)--	[2:0-0-0-0-7], [3:0-6-0-0-1-2], [6:0-1-12,0-0-14], [10:0-3-4,0-2-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(LL) -0.10 13 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.24	Vert(TL) -0.29 3-12 >839 240		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Horz(TL) 0.17 8 n/a n/a		
			Wind(LL) 0.13 13 >999 240	Weight: 278 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except* 9-11: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=1434/0-5-8, 8=1388/0-3-8  
 Max Horz 2=117(LC 5)  
 Max Uplift 2=-461(LC 5), 8=-494(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-926/272, 3-4=-2338/888, 4-5=-2177/846, 5-6=-726/218, 8-10=-1340/504,  
 6-10=-509/197  
 BOT CHORD 3-12=-817/2060, 11-12=-666/1593, 10-11=-680/1652  
 WEBS 4-12=0/459, 5-12=-164/861, 5-10=-1243/660

- 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, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 2 and 494 lb uplift at joint 8.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down and 60 lb up at 2-6-8, 89 lb down and 50 lb up at 4-6-8, 91 lb down and 59 lb up at 6-6-8, 70 lb down and 83 lb up at 8-6-6, 56 lb down and 83 lb up at 10-6-8, 56 lb down and 83 lb up at 11-9-12, 56 lb down and 83 lb up at 13-1-0, 68 lb down and 83 lb up at 15-1-12, and 91 lb down and 65 lb up at 16-9-4, and 103 lb down and 61 lb up at 18-9-4 on top chord, and 75 lb down at 2-6-8, 72 lb down at 4-6-8, 71 lb down and 20 lb up at 6-6-8, 71 lb down and 29 lb up at 8-6-8, 71 lb down and 29 lb up at 10-6-8, 71 lb down and 29 lb up at 11-9-12, 71 lb down and 29 lb up at 13-1-0, 71 lb down and 29 lb up at 15-1-0, and 70 lb down and 21 lb up at 16-9-4, and 45 lb down at 18-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
 Continued on page 2



**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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**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss B04	Truss Type Hip Girder	Qty 1	Ply <b>2</b>	Jessamine A Job Reference (optional)	E10357316
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:56 2017 Page 2  
ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-RHgduYe6JyLSVFR1nppxmSmBo8YIuibz1MjjQGzaSFb

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 2-13=-20, 3-11=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 4=-50(B) 5=-50(B) 11=-37(B) 12=-61(B) 14=-55(B) 15=-49(B) 16=-51(B) 17=-50(B) 18=-50(B) 19=-50(B) 20=-51(B) 21=-63(B) 22=-59(B) 23=-62(B) 24=-60(B)  
25=-61(B) 26=-61(B) 27=-61(B) 28=-61(B) 29=-60(B)

**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.

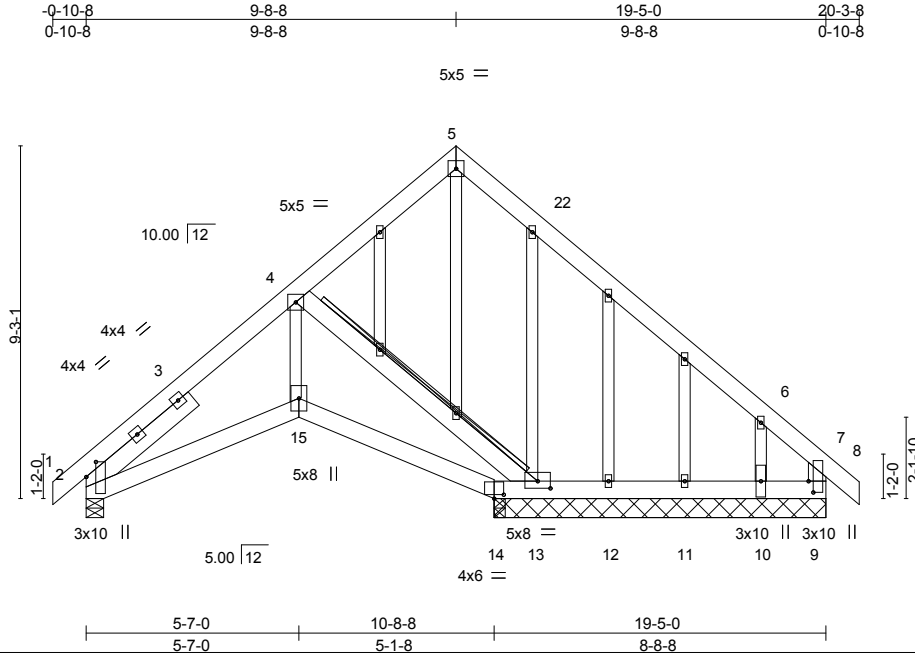


818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss C01	Truss Type GABLE	Qty 1	Ply 1	Jessamine A	E10357317
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:57 2017 Page 1  
 ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-vTE?6ufk4FTJ6P0DLWKAIfiUOXxud8pIG0SHyzaSFa



Scale = 1:60.5

Plate Offsets (X,Y)-- [2:0-4-12,0-3-1], [7:0-2-5,0-2-12], [9:0-3-9,0-1-8], [9:0-0-0,0-2-12], [13:0-4-0,0-2-4], [14:0-3-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.02	15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(TL) -0.04	15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(TL) 0.05	9	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.02	15	>999	240		
							Weight: 186 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 4-15: 2x4 SP No.3  
 OTHERS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.1 3-7-14

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:  
 T-Brace: 2x4 SP No.3 - 4-13  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-8-8 except (jt=length) 2=0-5-8.  
 (lb) - Max Horz 2=-363(LC 4)  
 Max Uplift All uplift 100 lb or less at joint(s) 14, 11 except 2=-266(LC 6), 9=-122(LC 5), 12=-114(LC 6), 10=-840(LC 7)  
 Max Grav All reactions 250 lb or less at joint(s) 14, 14, 12, 11 except 2=683(LC 1), 9=447(LC 7), 10=452(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1058/315, 4-5=-348/248, 5-6=-454/173, 6-7=-444/117, 7-9=-400/129, 4-13=-626/398  
 BOT CHORD 2-15=-357/741, 14-15=-356/756, 13-14=-325/692, 12-13=-19/256, 11-12=-19/256, 10-11=-19/256, 9-10=-19/256  
 WEBS 6-10=-507/810, 4-15=-208/636

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) 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) 2 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) 14, 11 except (jt=lb) 2=266, 9=122, 12=114, 10=840.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

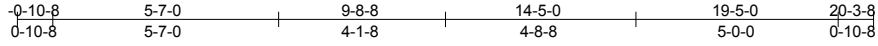


March 16, 2017

Job B0317-1321	Truss C02	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Jessamine A	E10357318
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:57 2017 Page 1  
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5x5 =

Scale = 1:57.0

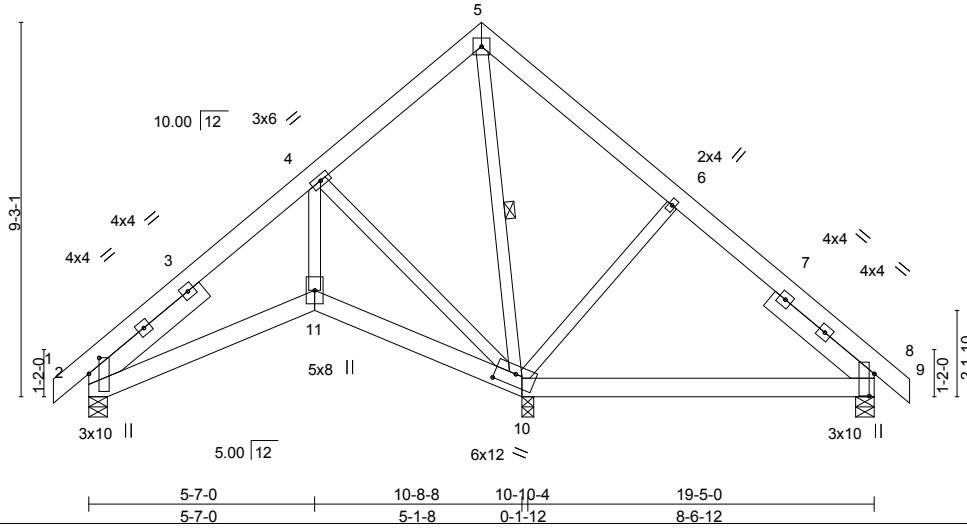


Plate Offsets (X,Y)-- [2:0-4-12,0-3-1], [8:0-6-9,0-1-8], [10:0-6-0,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) -0.04 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(TL) -0.11 8-10 >992 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.02 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.01 11 >999 240	Weight: 165 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.1 3-8-8, Right 2x6 SP No.1 3-3-1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=423/0-5-8, 10=906/0-3-8, 8=325/0-5-8

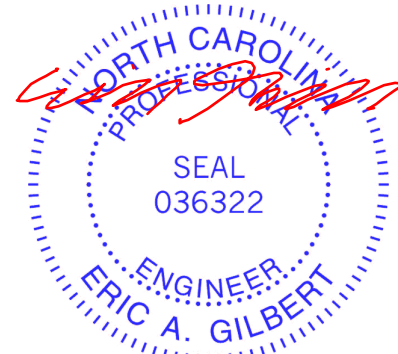
Max Horz 2=-296(LC 4)  
 Max Uplift 2=-102(LC 7), 10=-115(LC 6), 8=-154(LC 7)  
 Max Grav 2=423(LC 1), 10=906(LC 1), 8=365(LC 11)

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

TOP CHORD 2-4=-470/141  
 BOT CHORD 2-11=-244/363, 10-11=-243/361  
 WEBS 4-11=-135/325, 4-10=-449/296, 5-10=-346/46, 6-10=-263/252

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 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) 2 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) except (jt=lb) 2=102, 10=115, 8=154.



March 16, 2017

**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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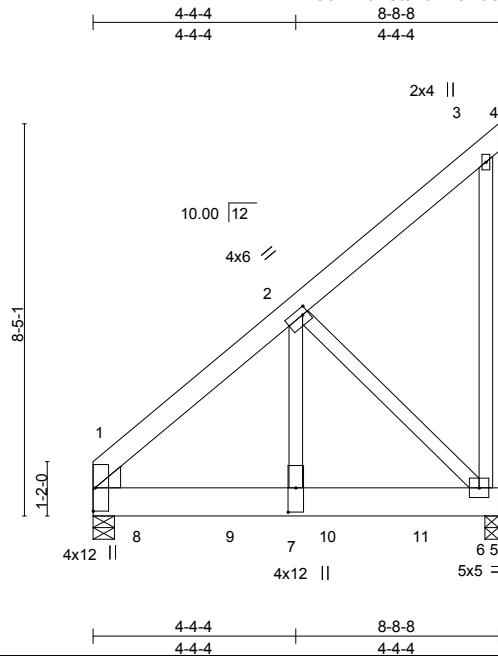


818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss C03	Truss Type Monopitch Girder	Qty 1	Ply 2	Jessamine A	E10357319
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:58 2017 Page 1  
ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-NfoNJEgMrZb9kZbQvErPrtrbyxF4MV4uUgCqU9zaSFZ



Scale = 1:49.5

Plate Offsets (X,Y)-- [1:0-0-7,0-4-14], [1:0-0-3,0-0-4], [2:0-1-8,0-1-12], [7:0-6-4,0-2-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	Vert(LL)	-0.03	1-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.36	Vert(TL)	-0.06	1-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.65	Horz(TL)	0.01	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Wind(LL)	0.02	1-7	>999		
	Code IRC2009/TPI2007						Weight: 159 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
2-7: 2x4 SP No.2

WEDGE  
Left: 2x6 SP No.1

**REACTIONS.** (lb/size) 6=4320/0-3-8, 1=4890/0-5-8  
Max Horz 1=302(LC 5)  
Max Uplift 6=-719(LC 5), 1=-503(LC 5)

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

TOP CHORD 1-2=-3924/410  
BOT CHORD 1-7=-455/2705, 6-7=-455/2706  
WEBS 2-7=-611/5272, 2-6=-3879/653

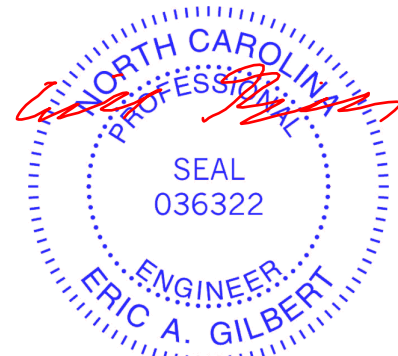
**NOTES-**

- 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, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=719, 1=503.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2136 lb down and 270 lb up at 1-0-10, 2136 lb down and 270 lb up at 3-0-10, and 2136 lb down and 270 lb up at 5-0-10, and 2136 lb down and 270 lb up at 7-0-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-20, 1-5=-20

Continued on page 2



March 16, 2017

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818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss C03	Truss Type Monopitch Girder	Qty 1	Ply <b>2</b>	Jessamine A Job Reference (optional)	E10357319
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:58 2017 Page 2  
ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-NfoNJEgMrZb9kZbQvErPrtrbyxF4MV4uUgCqU9zaSFZ

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 8=-2136(F) 9=-2136(F) 10=-2136(F) 11=-2136(F)

**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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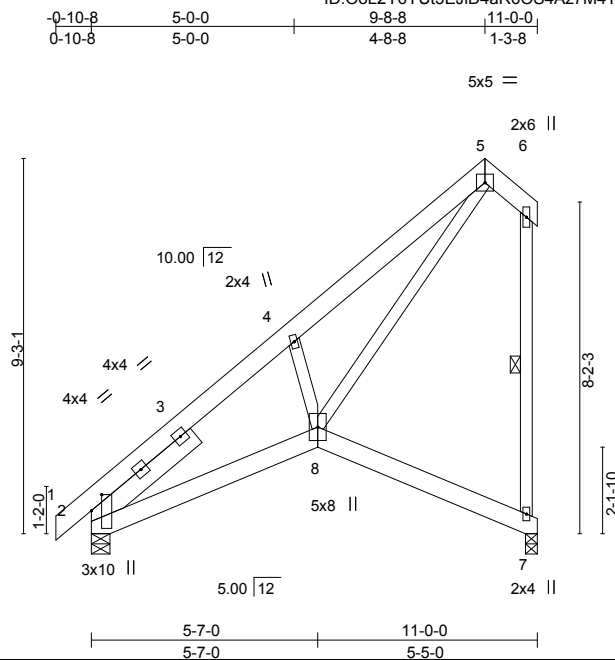


818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss C04	Truss Type Scissor	Qty 3	Ply 1	Jessamine A Job Reference (optional)	E10357320
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:58 2017 Page 1  
ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-NfoNJEGMrZb9kZbQvErPrtrcWxJyMXIuUgCqU9zaSFZ



Scale = 1:56.8

Plate Offsets (X,Y)-- [2:0-4-12,0-3-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL)	-0.03	8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(TL)	-0.07	8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Horz(TL)	0.07	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.05	8	>999		
	Code IRC2009/TPI2007						Weight: 100 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.1 3-4-2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 6-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

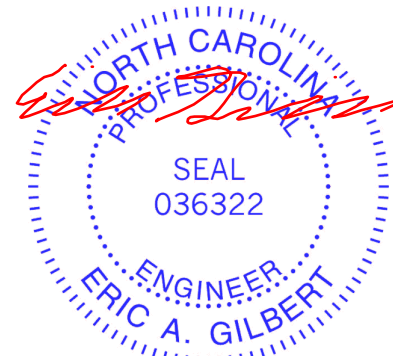
**REACTIONS.** (lb/size) 2=488/0-5-8, 7=419/0-3-8  
Max Horz 2=322(LC 6)  
Max Uplift 2=-16(LC 6), 7=-200(LC 6)

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

TOP CHORD 2-4=-646/171, 4-5=-579/364, 6-7=-358/284  
BOT CHORD 2-8=-410/445  
WEBS 4-8=-277/368, 5-8=-513/604

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=200.



March 16, 2017

**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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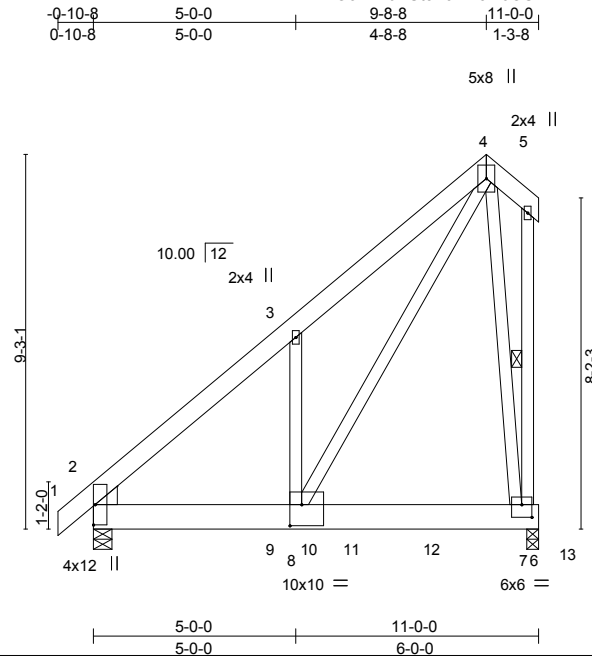


818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss C05	Truss Type COMMON GIRDER	Qty 1	Ply 2	Jessamine A	E10357321
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:59 2017 Page 1  
ID:OoL2Y6YUf3EJID4aR6OS4Az7M4T-rsMIXah\_ctj0MjAcTxMeN4OosLU65yU1jKxN1bzaSFY



Scale = 1:56.9

Plate Offsets (X,Y)-- [2:0-0-3,0-0-4], [2:0-0-7,0-4-14], [7:0-3-0,0-3-12], [8:0-3-8,0-6-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.07	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(TL) -0.16	7-8	>801	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.70	Horz(TL) 0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.05	7-8	>999	240		
							Weight: 232 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x8 SP No.1  
WEBS 2x4 SP No.3 \*Except\*  
4-8: 2x4 SP No.2

WEDGE  
Left: 2x6 SP No.1

**REACTIONS.** (lb/size) 2=2929/0-5-8, 7=5200/0-3-8  
Max Horz 2=326(LC 5)  
Max Uplift 2=-847(LC 5), 7=-1088(LC 5)

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

TOP CHORD 2-3=-4021/993, 3-4=-3637/1117  
BOT CHORD 2-8=-896/2754, 7-8=-102/306  
WEBS 3-8=-203/430, 4-8=-1662/5125, 4-7=-2377/828

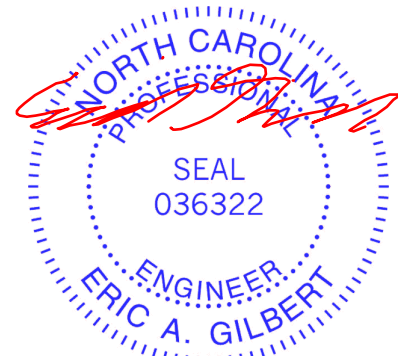
**NOTES-**

- 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, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=847, 7=1088.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2252 lb down and 1154 lb up at 4-5-2, 1449 lb down and 213 lb up at 6-4-6, and 1644 lb down and 162 lb up at 8-4-6, and 1670 lb down and 192 lb up at 10-4-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-5=-60, 2-10=-20, 10-13=-60, 6-13=-20

Continued on page 2



March 16, 2017

**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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932



Job B0317-1321	Truss C05	Truss Type COMMON GIRDER	Qty 1	Ply <b>2</b>	Jessamine A Job Reference (optional)	E10357321
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:59 2017 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 9=-2252 11=-1449 12=-1644 13=-1670

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Job B0317-1321	Truss D01	Truss Type GABLE	Qty 1	Ply 1	Jessamine A	E10357322
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:48:59 2017 Page 1  
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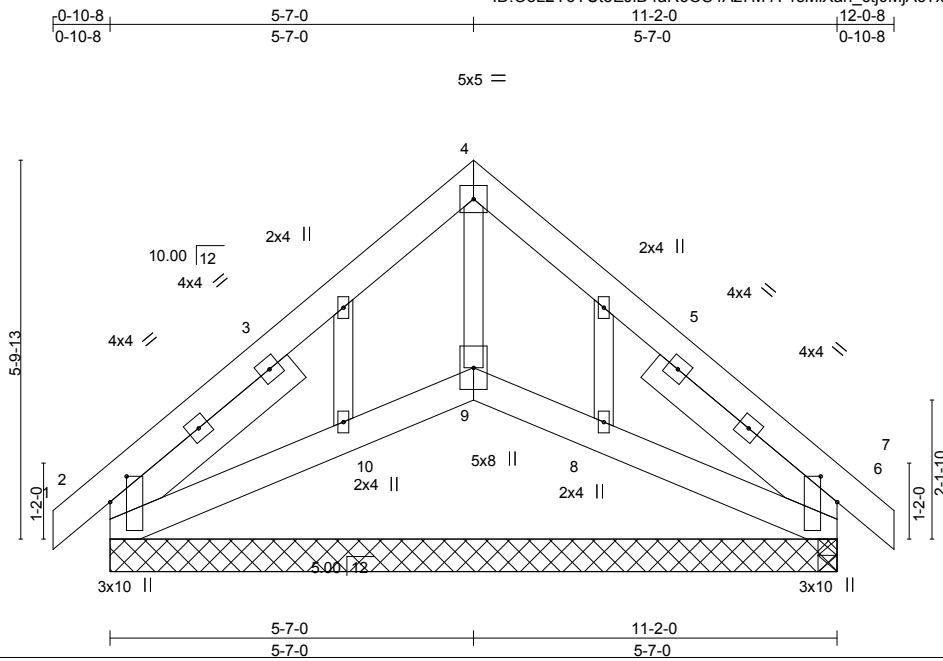


Plate Offsets (X,Y)-- [2:0-4-12,0-3-1], [6:0-4-12,0-3-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00	2-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL) -0.00	2-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(TL) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.00	2-10	>999	240		
							Weight: 97 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.1 3-8-8, Right 2x6 SP No.1 3-8-8

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

All bearings 11-2-0.  
 (lb) - Max Horz 2=181(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) 10, 8 except 2=-178(LC 6), 6=-218(LC 7)  
 Max Grav All reactions 250 lb or less at joint(s) 9, 10, 8 except 2=359(LC 1), 6=359(LC 1), 6=359(LC 1)

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

TOP CHORD 2-4=-405/377, 4-6=-405/377  
 WEBS 4-9=-295/73

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8 except (jt=lb) 2=178, 6=218.



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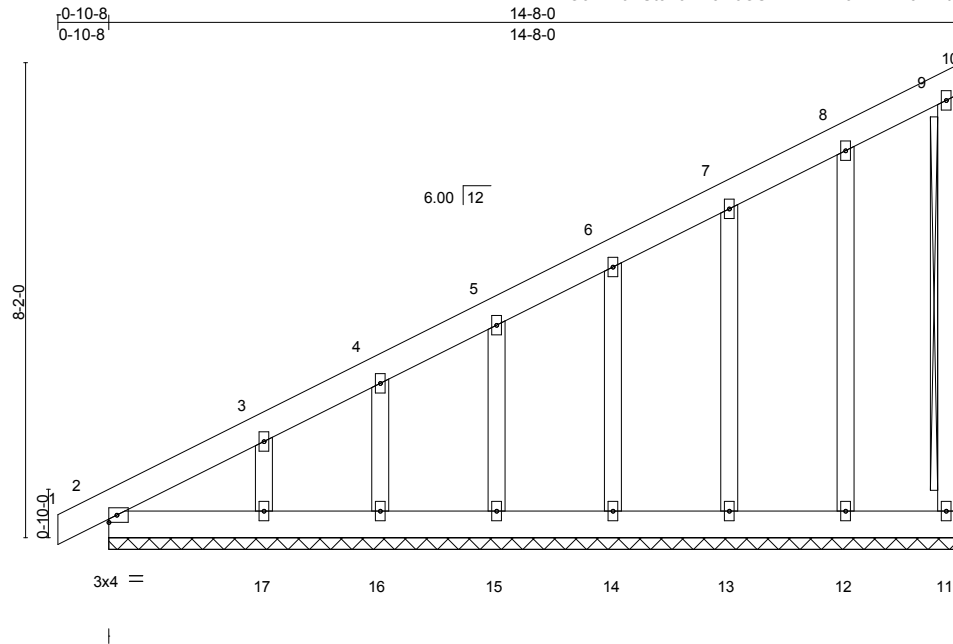


818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss E01	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	Jessamine A	E10357323
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:00 2017 Page 1  
ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-J2w7kwicNArzt5lo0futwIw2CI?sqY9By\_hxZ2zaSFX



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(TL) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) -0.00 10 n/a n/a		
	Code IRC2009/TPI2007			Weight: 120 lb	FT = 20%

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

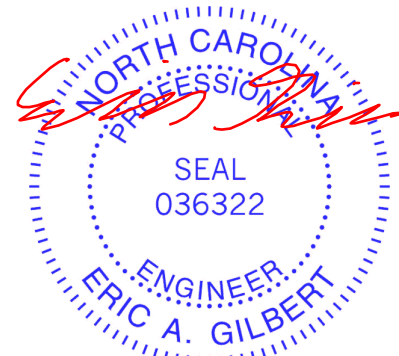
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS T-Brace: 2x4 SP No.3 - 9-11  
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with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

**REACTIONS.** All bearings 14-8-0.  
(lb) - Max Horz 2=436(LC 6)  
Max Uplift All uplift 100 lb or less at joint(s) 10, 11, 12, 14, 15, 16 except 13=-101(LC 6), 17=-171(LC 6)  
Max Grav All reactions 250 lb or less at joint(s) 10, 11, 2, 12, 13, 14, 15, 16, 17

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-530/43, 3-4=-402/24, 4-5=-332/27, 5-6=-259/27

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 11, 12, 14, 15, 16 except (jt=lb) 13=101, 17=171.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 16, 2017

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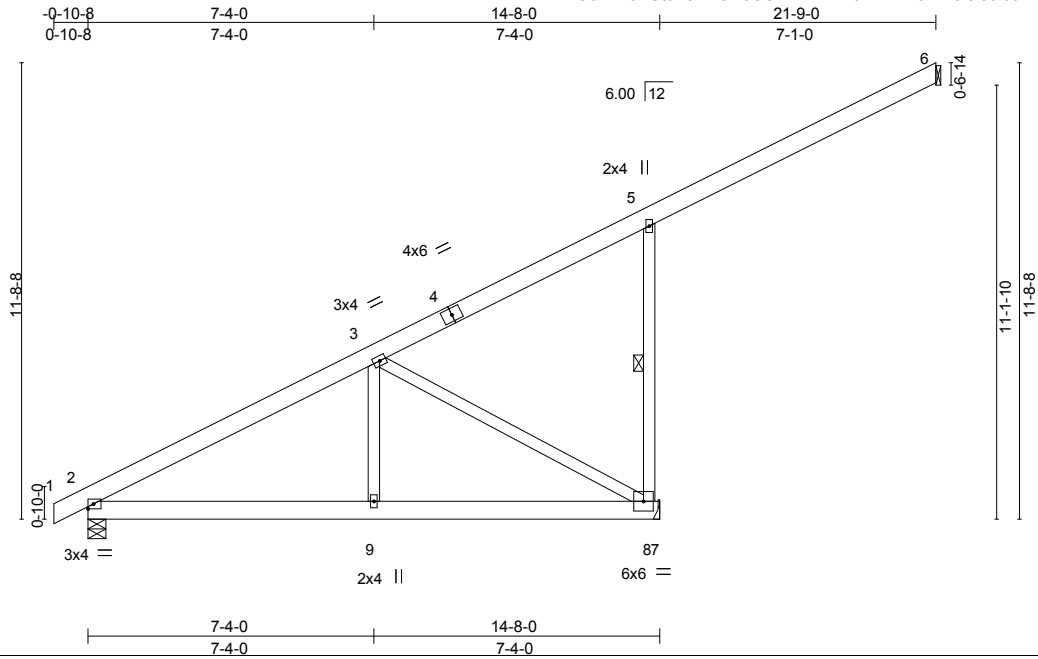


818 Soundside Road  
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Job B0317-1321	Truss E02	Truss Type Monopitch	Qty 3	Ply 1	Jessamine A	E10357324
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:00 2017 Page 1  
ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-J2w7kwicNArzsl0futwlv?zIzAqNaBy\_hxZ2zaSFX



Scale = 1:59.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.02	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(TL) -0.05	2-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(TL) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.02	2-9	>999	240		
							Weight: 121 lb	FT = 20%

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

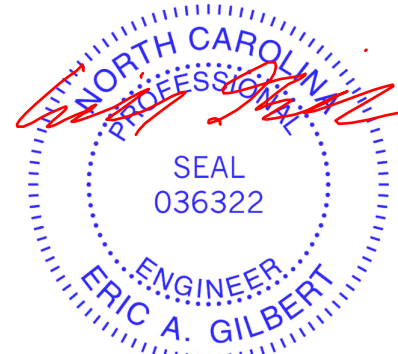
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=173/Mechanical, 8=857/Mechanical, 2=612/0-5-8  
 Max Horz 2=441(LC 6)  
 Max Uplift 6=-107(LC 6), 8=-372(LC 6), 2=-9(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-721/0, 3-5=-292/99, 5-8=-485/351  
 BOT CHORD 2-9=-238/546, 8-9=-238/546  
 WEBS 3-9=0/340, 3-8=-628/275

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) 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 except (jt=lb) 6=107, 8=372.



March 16, 2017

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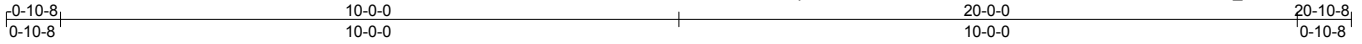
Job B0317-1321	Truss G01	Truss Type Common	Qty 3	Ply 1	Jessamine A	E10357325
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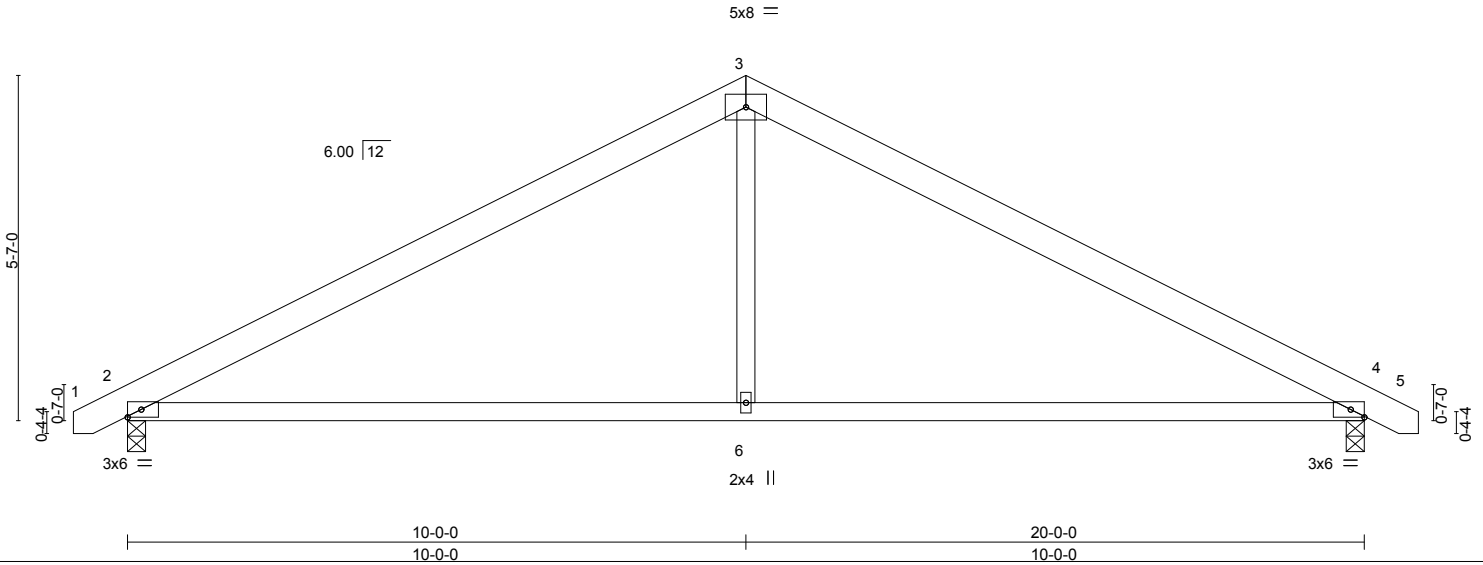
8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:01 2017 Page 1

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Job Reference (optional)



Scale = 1:37.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.17 2-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(TL) -0.45 2-6 >520 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.03 4 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.07 2-6 >999 240	Weight: 94 lb	FT = 20%

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

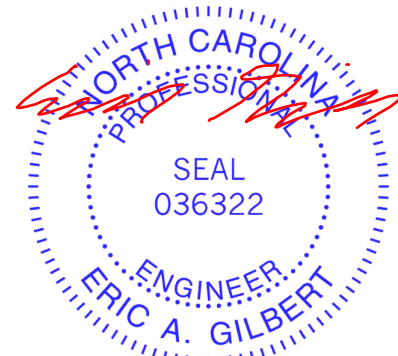
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=840/0-3-8, 4=840/0-3-8  
 Max Horz 2=82(LC 6)  
 Max Uplift 2=-165(LC 6), 4=-165(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1074/286, 3-4=-1074/286  
 BOT CHORD 2-6=-104/868, 4-6=-104/868  
 WEBS 3-6=0/457

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=165, 4=165.



March 16, 2017

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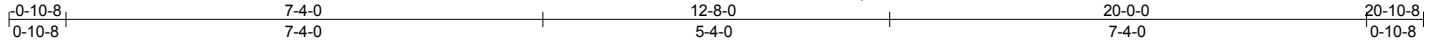
818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss G02	Truss Type Hip	Qty 1	Ply 1	Jessamine A	E10357326
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:01 2017 Page 1

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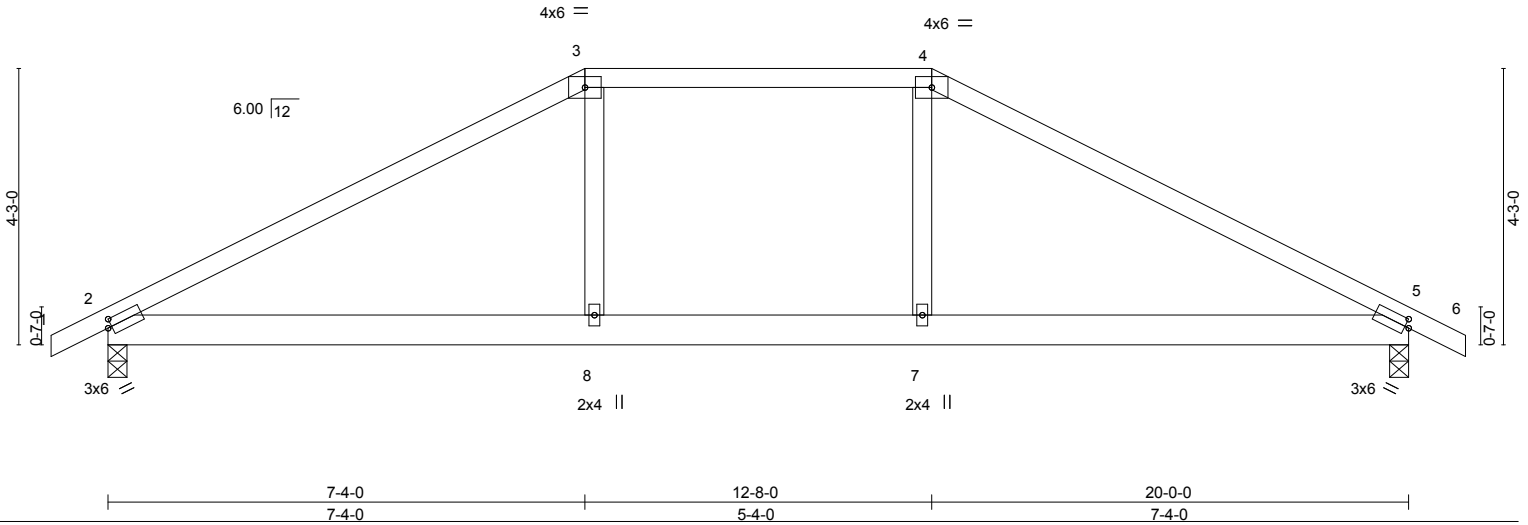


Plate Offsets (X,Y)--	[2:0-0-12,0-1-8], [5:0-0-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	Vert(LL) -0.09	5-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.32	Vert(TL) -0.16	5-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(TL) 0.02	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.06	2-8	>999	240		
	Code IRC2009/TP12007						Weight: 93 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 4-5-7 oc purlins.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=850/0-3-8, 5=850/0-3-8  
 Max Horz 2=66(LC 6)  
 Max Uplift 2=-156(LC 6), 5=-156(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1220/348, 3-4=-985/365, 4-5=-1220/348  
 BOT CHORD 2-8=-173/979, 7-8=-172/985, 5-7=-173/979  
 WEBS 3-8=0/275, 4-7=0/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=156, 5=156.



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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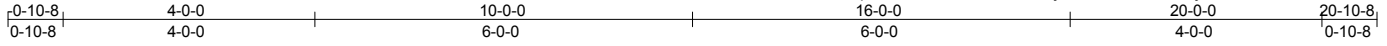
Job B0317-1321	Truss G03	Truss Type Hip Girder	Qty 1	Ply 1	Jessamine A	E10357327
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Comtech, Inc., Fayetteville, NC 28309

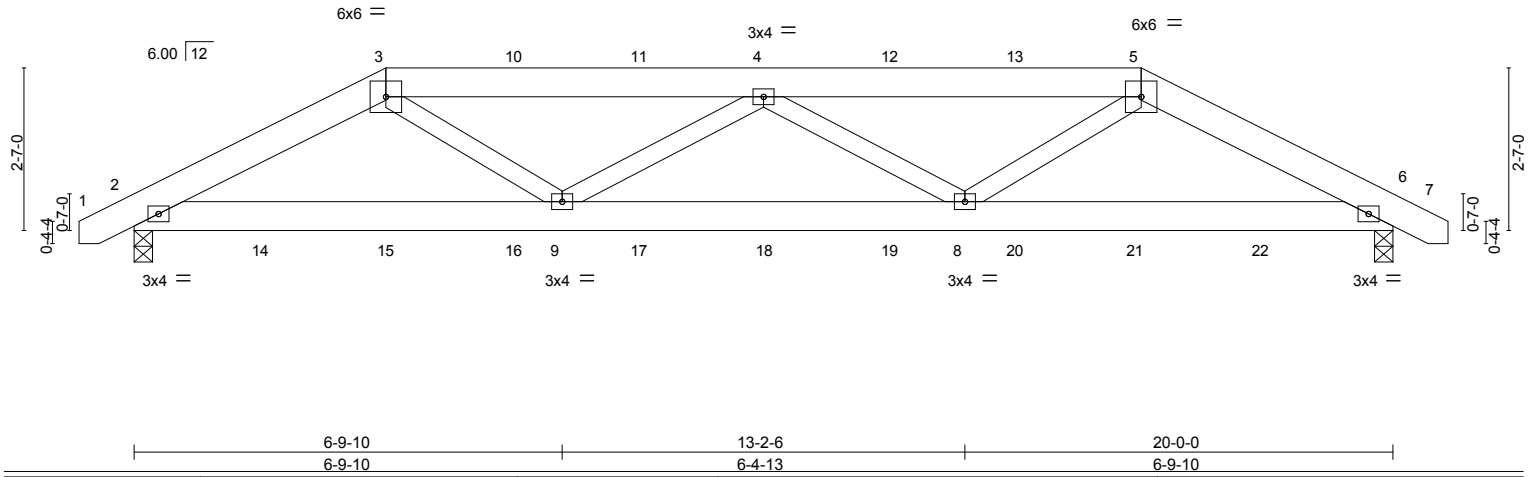
8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:02 2017 Page 1

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Job Reference (optional)



Scale = 1:36.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.04 8-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(TL) -0.11 8-9 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.24	Horz(TL) 0.03 6 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.05 8-9 >999 240	Weight: 121 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=843/0-3-8, 6=843/0-3-8  
 Max Horz 2=-42(LC 14)  
 Max Uplift 2=-270(LC 5), 6=-271(LC 6)

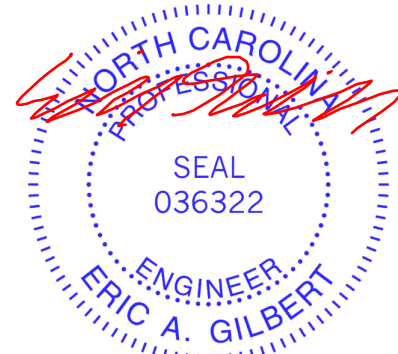
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1342/493, 3-4=-1583/543, 4-5=-1583/544, 5-6=-1342/495  
 BOT CHORD 2-9=-419/1145, 8-9=-714/1876, 6-8=-391/1145  
 WEBS 3-9=-132/569, 4-9=-380/274, 4-8=-380/274, 5-8=-131/569

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=270, 6=271.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 45 lb up at 4-0-0, 46 lb down and 45 lb up at 6-0-12, 46 lb down and 45 lb up at 8-0-12, 46 lb down and 45 lb up at 10-0-12, 46 lb down and 45 lb up at 12-0-12, and 46 lb down and 45 lb up at 14-0-12, and 41 lb down and 45 lb up at 16-0-0 on top chord, and 3 lb down and 0 lb up at 2-0-12, at 4-0-12, at 6-0-12, at 8-0-12, at 10-0-12, at 12-0-12, at 14-0-12, and at 15-11-4, and 3 lb down and 0 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20  
 Concentrated Loads (lb)  
 Vert: 14=-3(B) 22=-3(B)



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Job B0317-1321	Truss GJ-01	Truss Type Jack-Open	Qty 7	Ply 1	Jessamine A	E10357328
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Scale: 3/4"=1'

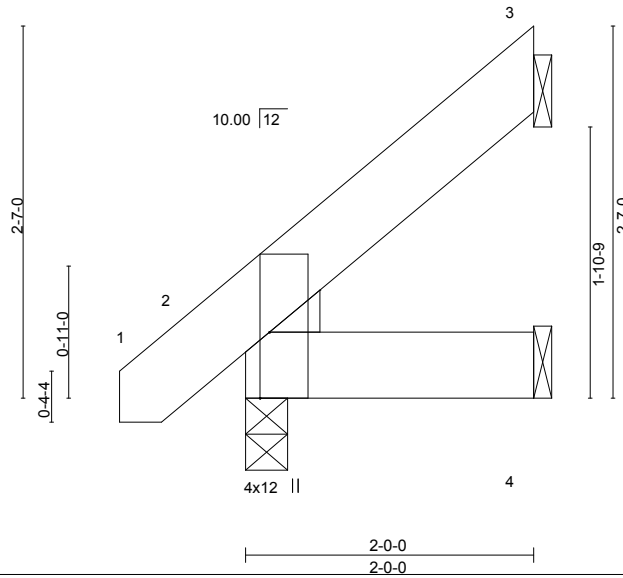


Plate Offsets (X,Y)-- [2:0-0-13,0-1-0], [2:0-1-11,0-4-13], [2:0-5-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 14 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.3

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

**REACTIONS.** (lb/size) 3=50/Mechanical, 2=133/0-3-8, 4=20/Mechanical  
 Max Horz 2=93(LC 6)  
 Max Uplift 3=60(LC 6), 2=20(LC 6)  
 Max Grav 3=50(LC 1), 2=133(LC 1), 4=39(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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.



March 16, 2017

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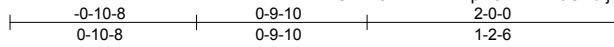


Job B0317-1321	Truss GJ-02	Truss Type Half Hip	Qty 2	Ply 1	Jessamine A	E10357329
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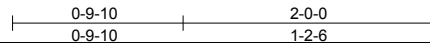
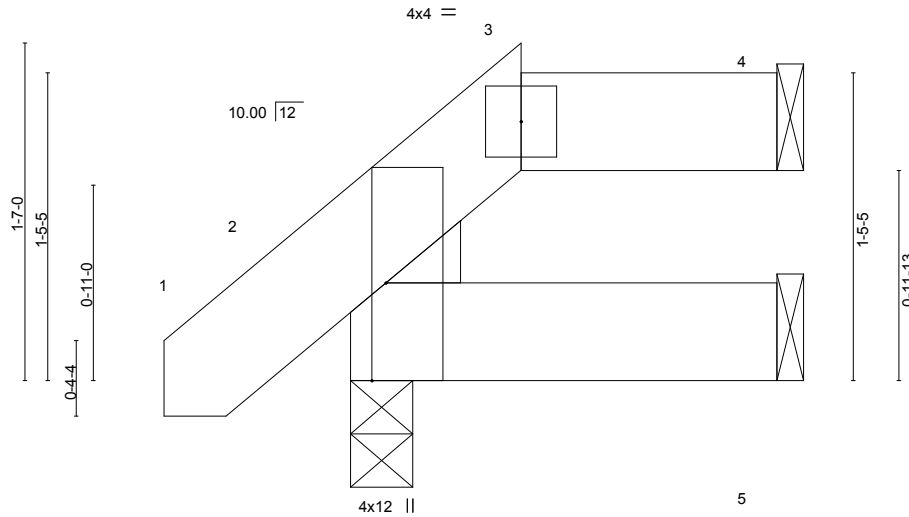


Plate Offsets (X,Y)-- [2:0-0-13,0-1-0], [2:0-1-11,0-4-13], [2:0-5-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-P	Wind(LL) 0.00	2	>999	240		
							Weight: 14 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD  
 BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

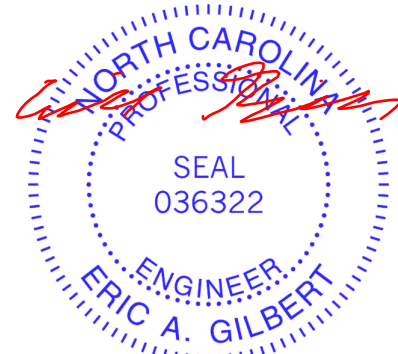
**REACTIONS.** (lb/size) 4=49/Mechanical, 2=133/0-3-8, 5=20/Mechanical

Max Horz 2=52(LC 6)  
 Max Uplift 4=-24(LC 5), 2=-47(LC 6)  
 Max Grav 4=49(LC 1), 2=133(LC 1), 5=36(LC 2)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



March 16, 2017

**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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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

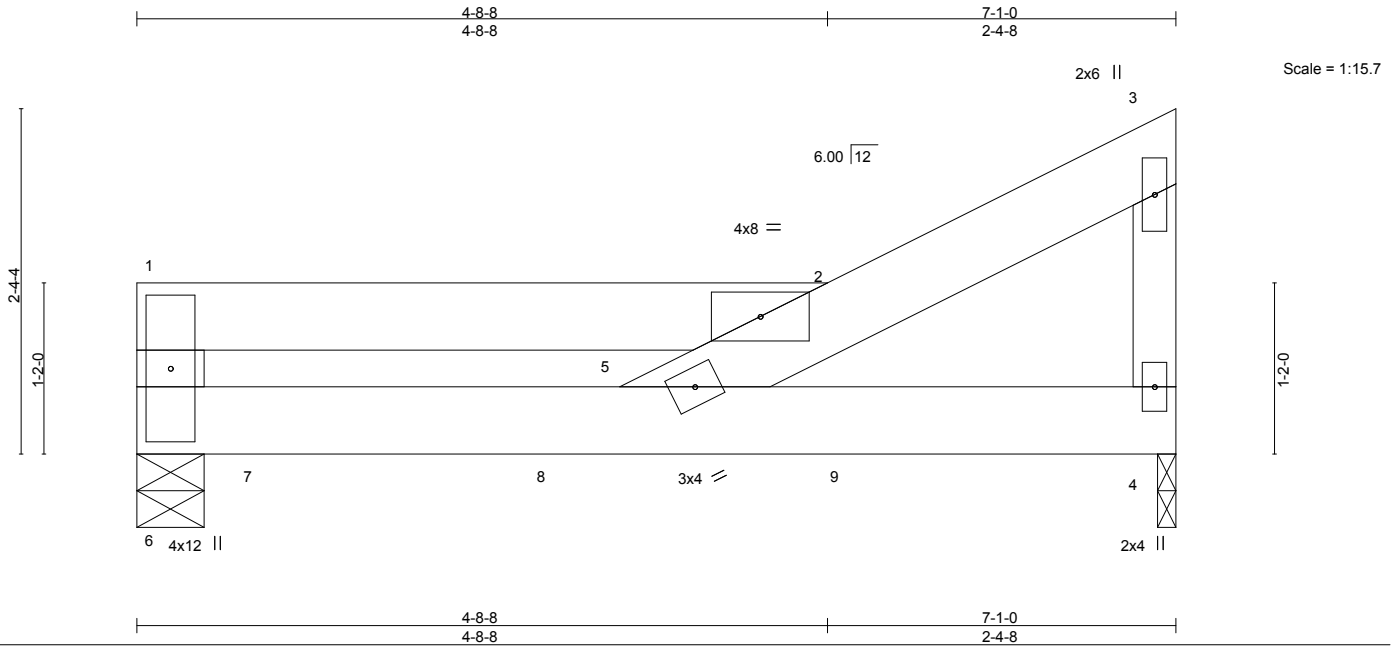


818 Soundside Road  
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Job B0317-1321	Truss H01	Truss Type Roof Special Girder	Qty 1	Ply 1	Jessamine A	E10357330
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.03 5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(TL) -0.07 4-5 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(TL) 0.00 4 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.01 5 >999 240	Weight: 40 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
3-4: 2x4 SP No.3

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

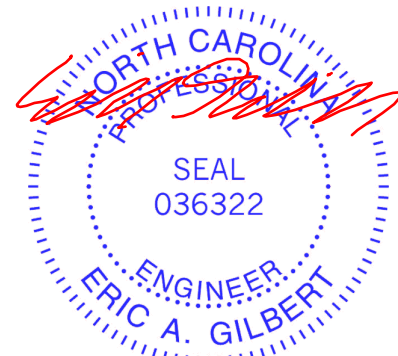
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=522/0-5-8 (min. 0-1-8), 4=434/0-1-8 (min. 0-1-8)  
Max Horz 6=42(LC 5)  
Max Uplift 4=-24(LC 5)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-6=-197/53, 1-2=-563/0, 2-5=0/459, 2-3=-30/48, 3-4=-255/47  
BOT CHORD 6-7=0/563, 7-8=0/563, 5-8=0/563, 5-9=-2/74, 4-9=-2/74

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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 at joint(s) 4.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4.
  - 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) 142 lb down at 0-10-12, and 139 lb down at 2-10-12, and 139 lb down at 4-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 4-6=-20  
Concentrated Loads (lb)  
Vert: 7=-142(B) 8=-139(B) 9=-139(B)
  - 2) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 4-6=-40



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Jessamine A	E10357330
B0317-1321	H01	Roof Special Girder	1	1	Job Reference (optional)	

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### LOAD CASE(S)

- Concentrated Loads (lb)  
Vert: 7=-86(B) 8=-79(B) 9=-79(B)
- 3) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=0, 4-6=-10  
Horz: 2-3=-12
- Concentrated Loads (lb)  
Vert: 7=-35(B) 8=-34(B) 9=-34(B)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=13, 2-3=16, 4-6=-10  
Horz: 2-3=-28
- Concentrated Loads (lb)  
Vert: 7=-35(B) 8=-34(B) 9=-34(B)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=27, 4-6=-10  
Horz: 2-3=-39
- Concentrated Loads (lb)  
Vert: 7=-35(B) 8=-34(B) 9=-34(B)
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=13, 2-3=13, 4-6=-10  
Horz: 2-3=-25
- Concentrated Loads (lb)  
Vert: 7=-35(B) 8=-34(B) 9=-34(B)
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=27, 4-6=-10  
Horz: 2-3=-39
- Concentrated Loads (lb)  
Vert: 7=-35(B) 8=-34(B) 9=-34(B)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=13, 2-3=13, 4-6=-10  
Horz: 2-3=-25
- Concentrated Loads (lb)  
Vert: 7=-35(B) 8=-34(B) 9=-34(B)
- 9) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=0, 4-6=-10  
Horz: 2-3=-12
- Concentrated Loads (lb)  
Vert: 7=-40(B) 8=-38(B) 9=-38(B)
- 10) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=13, 2-3=16, 4-6=-10  
Horz: 2-3=-28
- Concentrated Loads (lb)  
Vert: 7=-40(B) 8=-38(B) 9=-38(B)
- 11) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=27, 4-6=-10  
Horz: 2-3=-39
- Concentrated Loads (lb)  
Vert: 7=-40(B) 8=-38(B) 9=-38(B)
- 12) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=13, 2-3=13, 4-6=-10  
Horz: 2-3=-25
- Concentrated Loads (lb)  
Vert: 7=-40(B) 8=-38(B) 9=-38(B)
- 13) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=27, 4-6=-10  
Horz: 2-3=-39
- Concentrated Loads (lb)  
Vert: 7=-40(B) 8=-38(B) 9=-38(B)
- 14) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=13, 2-3=13, 4-6=-10  
Horz: 2-3=-25
- Concentrated Loads (lb)  
Vert: 7=-40(B) 8=-38(B) 9=-38(B)

**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 ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss JA-01	Truss Type JACK-CLOSED	Qty 1	Ply 1	Jessamine A	E10357331
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:04 2017 Page 1

ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-Cp9eall7RPLJSU3aFUyp485ijMN2mMfntbf8ipzaSFT

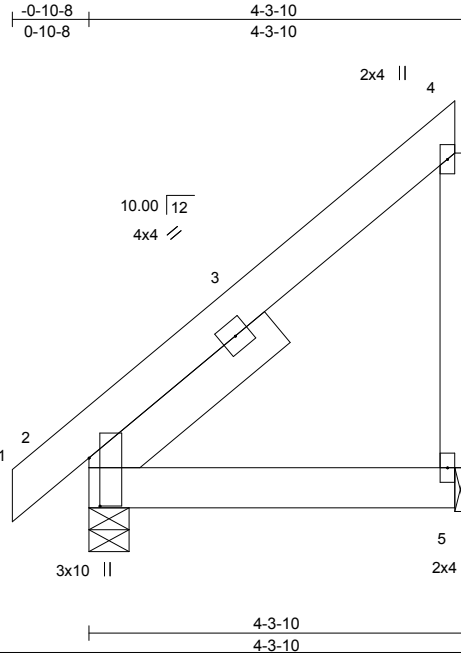


Plate Offsets (X,Y)--		[2:0-6-9,0-1-8]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL) -0.00	2-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(TL) -0.01	2-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL) -0.00	5	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.00	2	****	Weight: 38 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-3-10 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x6 SP No.1 2-8-3		

**REACTIONS.** (lb/size) 2=224/0-5-8, 5=153/0-1-8  
 Max Horz 2=161(LC 6)  
 Max Uplift 2=-8(LC 6), 5=-102(LC 6)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=102.



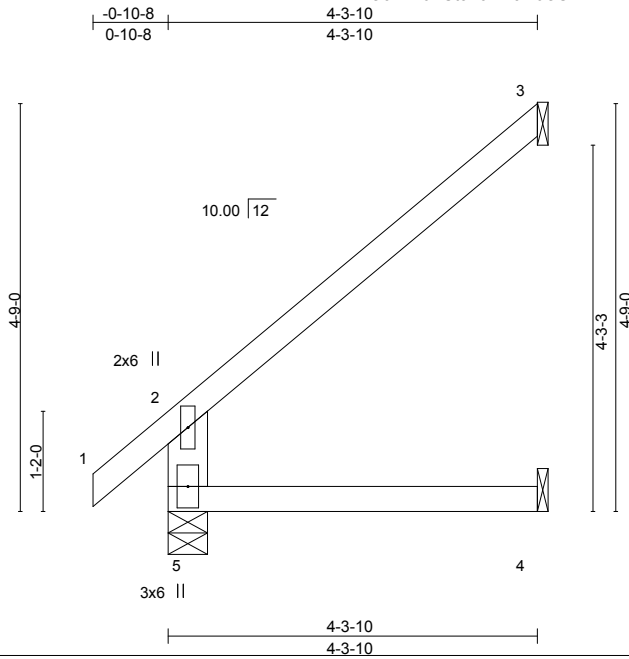
March 16, 2017

Job B0317-1321	Truss JA-02	Truss Type Jack-Open	Qty 16	Ply 1	Jessamine A	E10357332
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ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-Cp9eall7RPLJSU3aFUyp485gCMJumMfntb8ipzaSFT



Scale = 1:26.8

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.22	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(TL)	-0.03	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.04	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-R	Wind(LL)	0.03	4-5	>999	240	Weight: 19 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=236/0-5-8, 3=104/Mechanical, 4=47/Mechanical  
Max Horz 5=186(LC 6)  
Max Uplift 5=-1(LC 6), 3=-106(LC 6), 4=-15(LC 6)  
Max Grav 5=236(LC 1), 3=104(LC 1), 4=76(LC 2)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) 5, 4 except (jt=lb) 3=106.



March 16, 2017

**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.

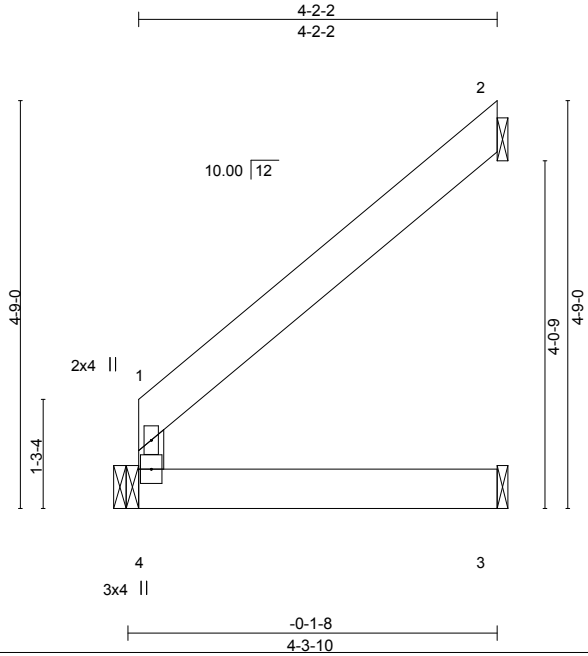


818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss JA-03	Truss Type Jack-Open	Qty 3	Ply 1	Jessamine A	E10357333
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:04 2017 Page 1  
ID:OoL2Y6YUf3EJID4aR6OS4Az7M4T-Cp9eall7RPLJSU3aFUyp485feMMzmMfntb8ipzaSFT



Scale = 1:26.8

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.00	3-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(TL) -0.01	3-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-R	Wind(LL) 0.00	3-4	>999	240	Weight: 24 lb	FT = 20%

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

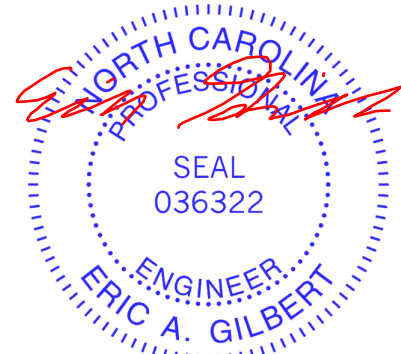
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=159/Mechanical, 2=114/Mechanical, 3=45/Mechanical  
Max Horz 4=129(LC 6)  
Max Uplift 2=-113(LC 6), 3=-2(LC 6)  
Max Grav 4=159(LC 1), 2=114(LC 1), 3=78(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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 except (jt=lb) 2=113.



March 16, 2017

**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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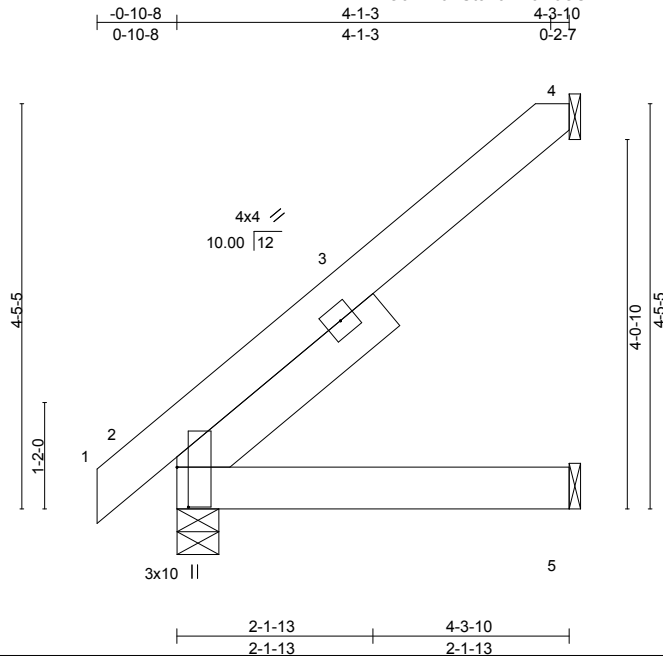
818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss JA-04	Truss Type JACK-OPEN	Qty 2	Ply 1	Jessamine A Job Reference (optional)	E10357334
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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-g0j0ndllCJT44edmpCT2dLesFmiEVpw5FOIEFzaSFS



Scale = 1:25.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.00	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(TL) -0.01	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 33 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 SLIDER Left 2x6 SP No.1 2-10-7

**BRACING-**

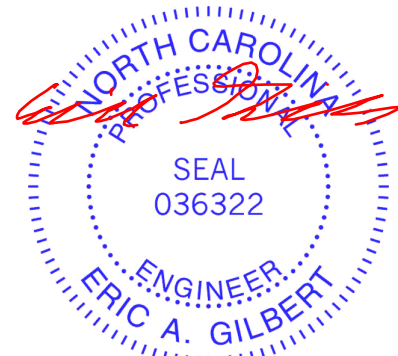
TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=122/Mechanical, 2=228/0-5-8, 5=42/Mechanical  
 Max Horz 2=168(LC 6)  
 Max Uplift 4=-132(LC 6), 2=-4(LC 6)  
 Max Grav 4=122(LC 1), 2=228(LC 1), 5=85(LC 2)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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 except (jt=lb) 4=132.



March 16, 2017

**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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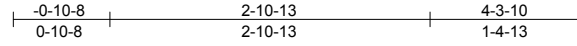


818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss JA-05	Truss Type JACK-OPEN	Qty 2	Ply 1	Jessamine A	E10357335
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:05 2017 Page 1  
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Scale = 1:20.9

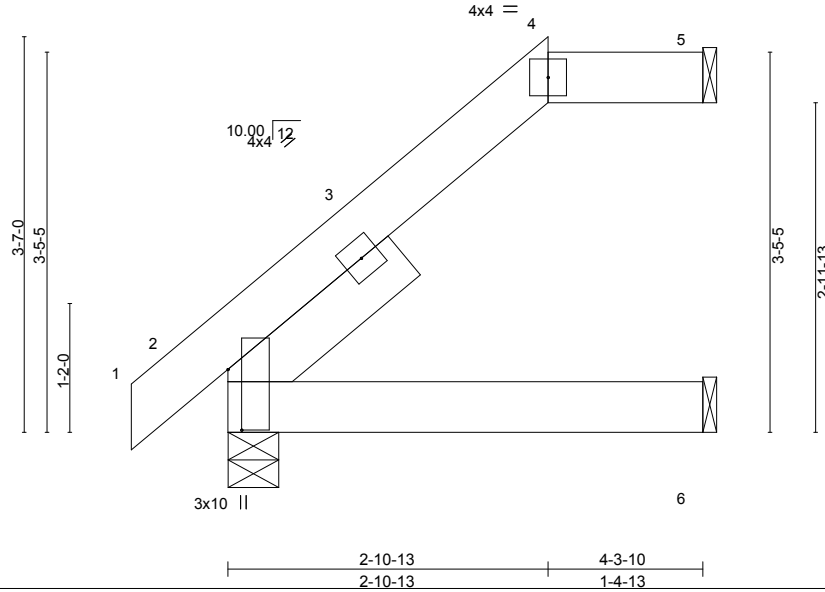


Plate Offsets (X,Y)--	[2:0-6-9,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	Vert(LL)	-0.00	2-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(TL)	-0.01	2-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL)	0.01	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	2-6	>999		
	Code IRC2009/TPI2007						Weight: 30 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.1 1-11-8	

**REACTIONS.** (lb/size) 5=113/Mechanical, 2=228/0-5-8, 6=51/Mechanical  
 Max Horz 2=122(LC 6)  
 Max Uplift 5=-58(LC 6), 2=-39(LC 6)  
 Max Grav 5=113(LC 1), 2=228(LC 1), 6=77(LC 2)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



March 16, 2017



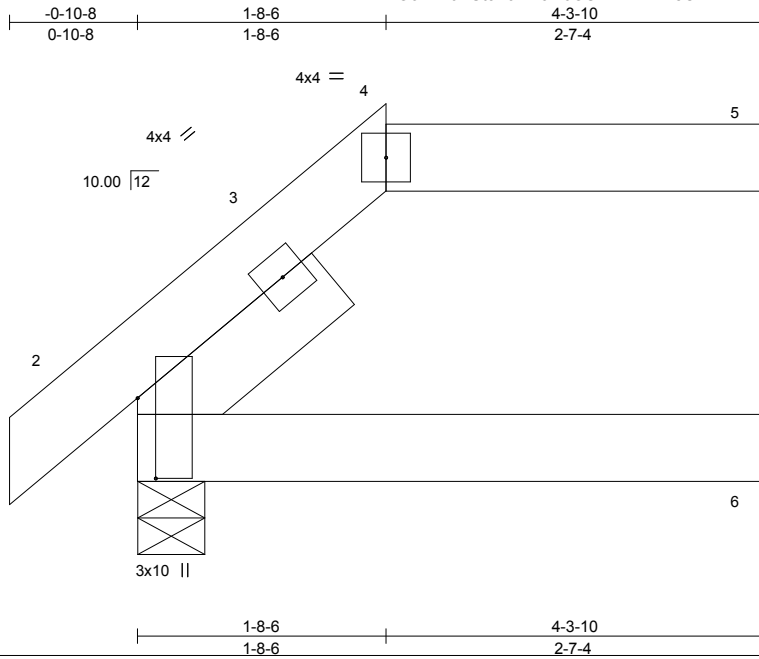
Job B0317-1321	Truss JA-06	Truss Type JACK-OPEN	Qty 2	Ply 1	Jessamine A	E10357336
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ID:OoL2Y6YU3EJID4aR6OS4z7M4T-8CHP?zmNz0b1hnCyNv?HAZA2vA3eEG93Kv8FmhzaSFR

Job Reference (optional)



Scale = 1:15.8

Plate Offsets (X,Y)-- [2:0-6-9,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(TL) -0.01	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2-6	>999	240		
							Weight: 29 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 SLIDER Left 2x6 SP No.1 1-7-7

**BRACING-**

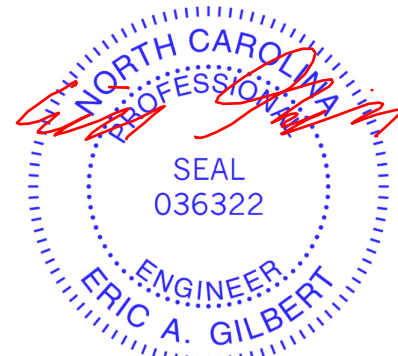
TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=113/Mechanical, 2=228/0-5-8, 6=51/Mechanical  
 Max Horz 2=83(LC 6)  
 Max Uplift 5=-52(LC 5), 2=-54(LC 6)  
 Max Grav 5=113(LC 1), 2=228(LC 1), 6=77(LC 2)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



March 16, 2017

**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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 Edenton, NC 27932

Job B0317-1321	Truss JA-07	Truss Type Jack-Open Girder	Qty 2	Ply 1	Jessamine A	E10357337
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Comtech, Inc., Fayetteville, NC 28309

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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-8CHP?zmNz0b1hnCyNv?HAZA2pA3gEG93Kv8FmhzaSFR

Job Reference (optional)

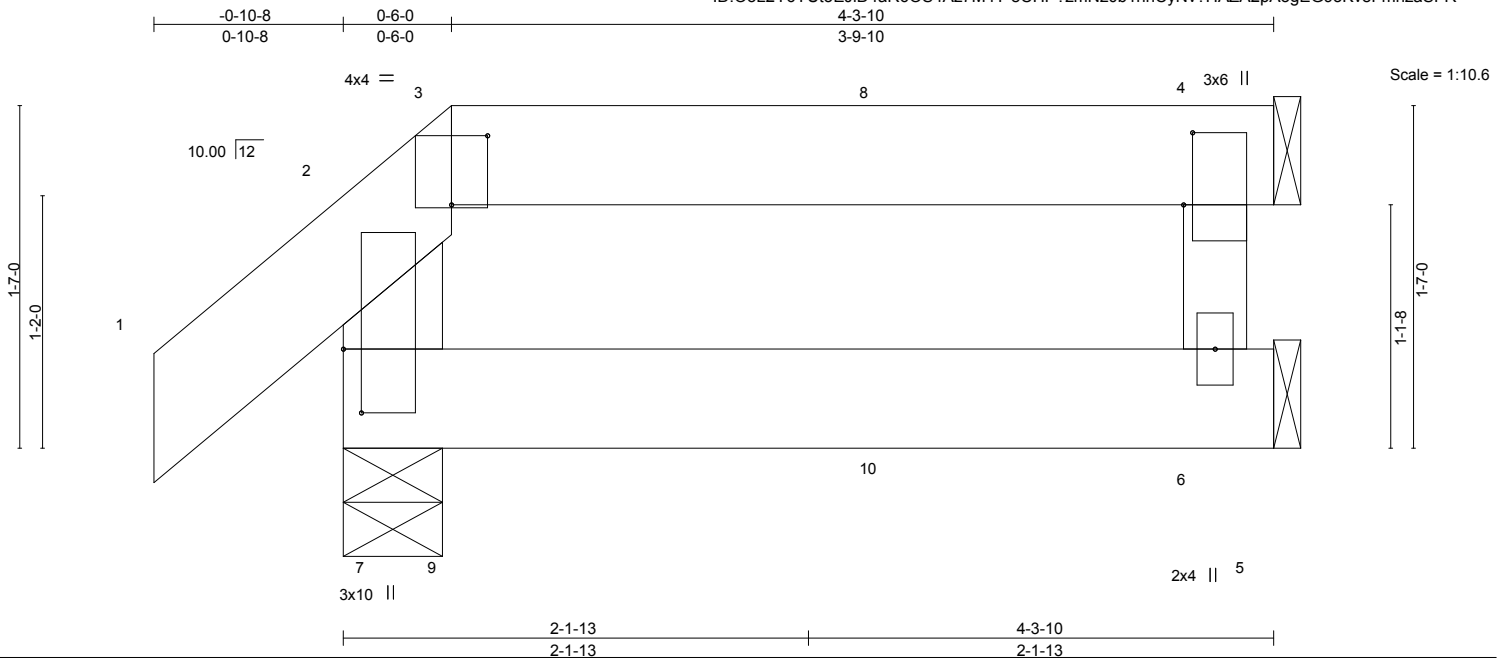


Plate Offsets (X,Y)-- [2:0-2-5,0-2-12], [3:0-2-0,0-3-13], [4:0-4-0,0-0-8], [7:0-3-9,0-1-0], [7:0-0-0,0-2-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL) -0.01	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(TL) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.00	6-7	>999	240	Weight: 26 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=218/0-5-8, 6=45/Mechanical, 4=102/Mechanical  
 Max Horz 7=65(LC 5)  
 Max Uplift 7=-66(LC 5), 4=-58(LC 3)  
 Max Grav 7=218(LC 1), 6=84(LC 2), 4=106(LC 10)

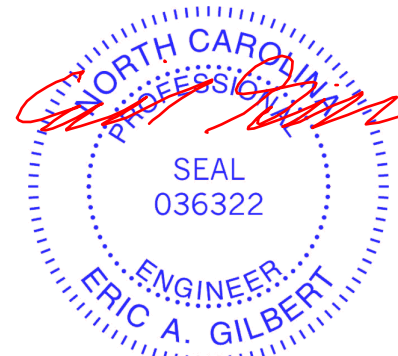
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 34 lb down and 5 lb up at 0-6-0, and 42 lb down and 1 lb up at 2-6-12 on top chord, and 2 lb down at 0-6-12, and at 2-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-3=-20, 3-4=-60, 5-7=-20  
 Concentrated Loads (lb)  
 Vert: 9=-1(B)



March 16, 2017

**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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

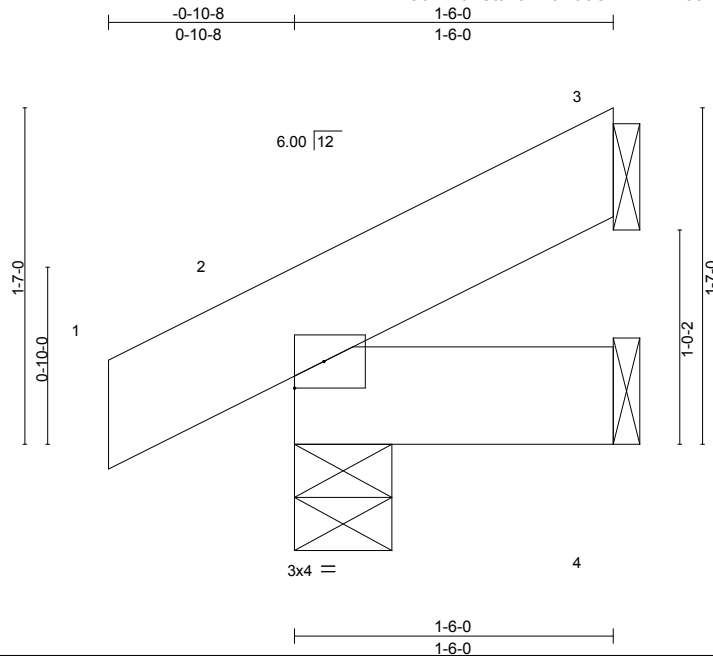


818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss JA-08	Truss Type Jack-Open	Qty 4	Ply 1	Jessamine A	E10357338
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Comtech, Inc., Fayetteville, NC 28309

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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-cOmCJn?kKjuJxn8xdWWimjESZOezjPDZZtpJ8zaSFQ



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 10 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

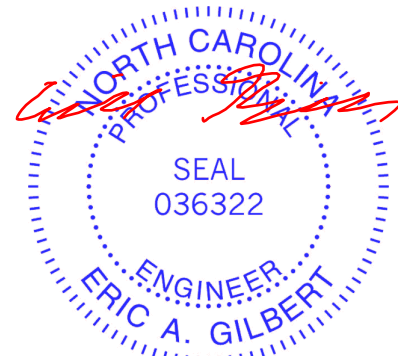
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=26/Mechanical, 2=131/0-5-8, 4=14/Mechanical  
Max Horz 2=48(LC 6)  
Max Uplift 3=-21(LC 6), 2=-56(LC 6)  
Max Grav 3=26(LC 1), 2=131(LC 1), 4=29(LC 2)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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.



March 16, 2017

**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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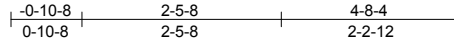
818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss JB-01	Truss Type Jack-Open	Qty 5	Ply 1	Jessamine A	E10357339
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ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-cOrnCJn?kKjuJxn8xdWWimjDaZLqzjPDZZtpJ8zaSFQ



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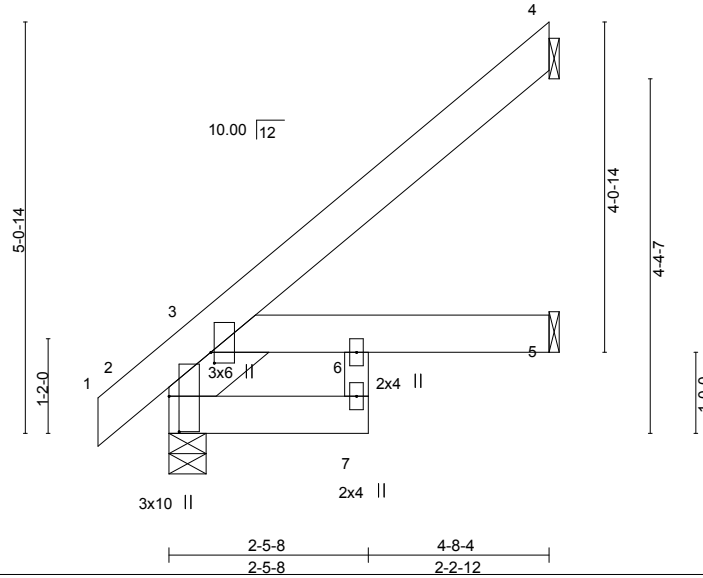


Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [3:0-1-9,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.01	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(TL) -0.02	6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-R	Wind(LL) 0.01	7	>999	240		
							Weight: 37 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 6-7: 2x4 SP No.3  
 SLIDER Left 2x6 SP No.1 1-3-8

**BRACING-**

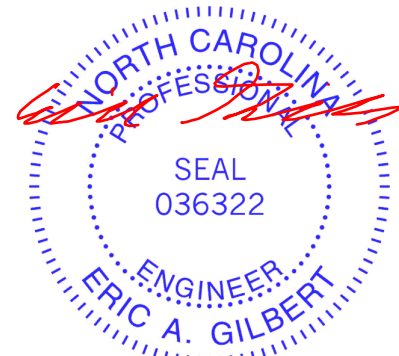
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=110/Mechanical, 2=267/0-5-8, 5=81/Mechanical  
 Max Horz 2=180(LC 6)  
 Max Uplift 4=96(LC 6), 5=19(LC 6)  
 Max Grav 4=110(LC 1), 2=267(LC 1), 5=111(LC 2)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) 4, 5.



March 16, 2017

**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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818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss JB-02	Truss Type JACK-OPEN	Qty 1	Ply 1	Jessamine A	E10357340
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ID:OoL2Y6YUf3EJID4aR6OS4Az7M4T-cOmCJn?kKjuXn8xdWWimjDdZLizjPDZZtpJ8zaSFQ



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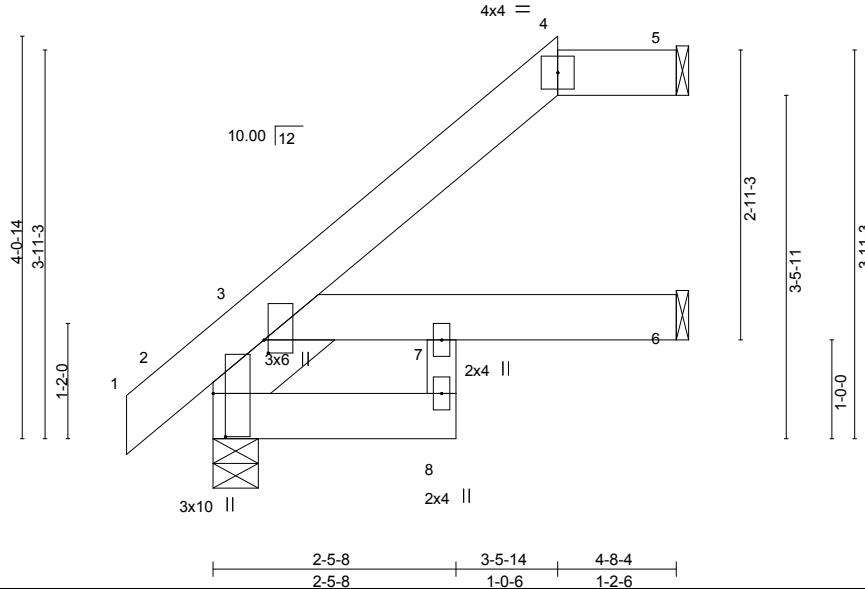


Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [3:0-1-9,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.01	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(TL) -0.02	7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-R	Wind(LL) 0.01	8	>999	240	Weight: 36 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 7-8: 2x4 SP No.3  
 SLIDER Left 2x6 SP No.1 1-3-8

**BRACING-**

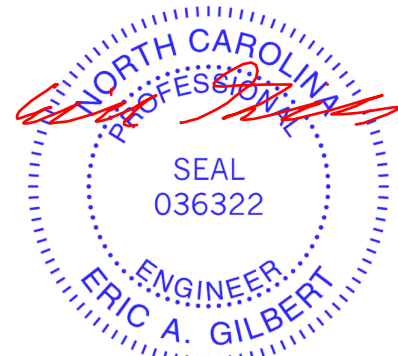
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=111/Mechanical, 2=267/0-5-8, 6=80/Mechanical  
 Max Horz 2=141(LC 6)  
 Max Uplift 5=-56(LC 6), 2=-21(LC 6), 6=-10(LC 6)  
 Max Grav 5=111(LC 1), 2=267(LC 1), 6=111(LC 2)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



March 16, 2017

**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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818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss JB-03	Truss Type JACK-OPEN	Qty 1	Ply 1	Jessamine A	E10357341
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Comtech, Inc., Fayetteville, NC 28309

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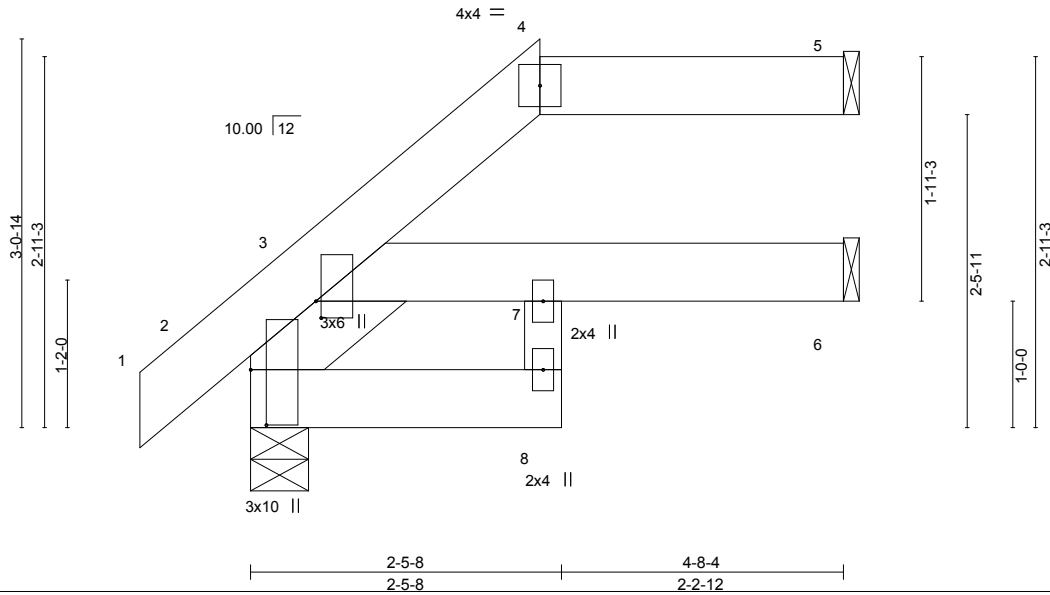


Plate Offsets (X,Y)-- [2:0-5-4-0-1-8], [3:0-1-9,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.01	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(TL) -0.02	7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-R	Wind(LL) 0.01	8	>999	240	Weight: 35 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 7-8: 2x4 SP No.3  
 SLIDER Left 2x6 SP No.1 1-3-8

**BRACING-**

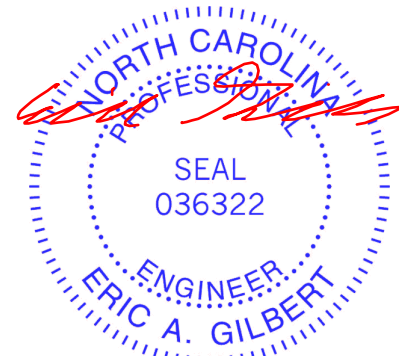
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=109/Mechanical, 2=267/0-5-8, 6=82/Mechanical  
 Max Horz 2=102(LC 6)  
 Max Uplift 5=47(LC 5), 2=40(LC 6)  
 Max Grav 5=109(LC 1), 2=267(LC 1), 6=112(LC 2)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



March 16, 2017

**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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818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss JB-04	Truss Type Jack-Open Girder	Qty 1	Ply 1	Jessamine A	E10357342
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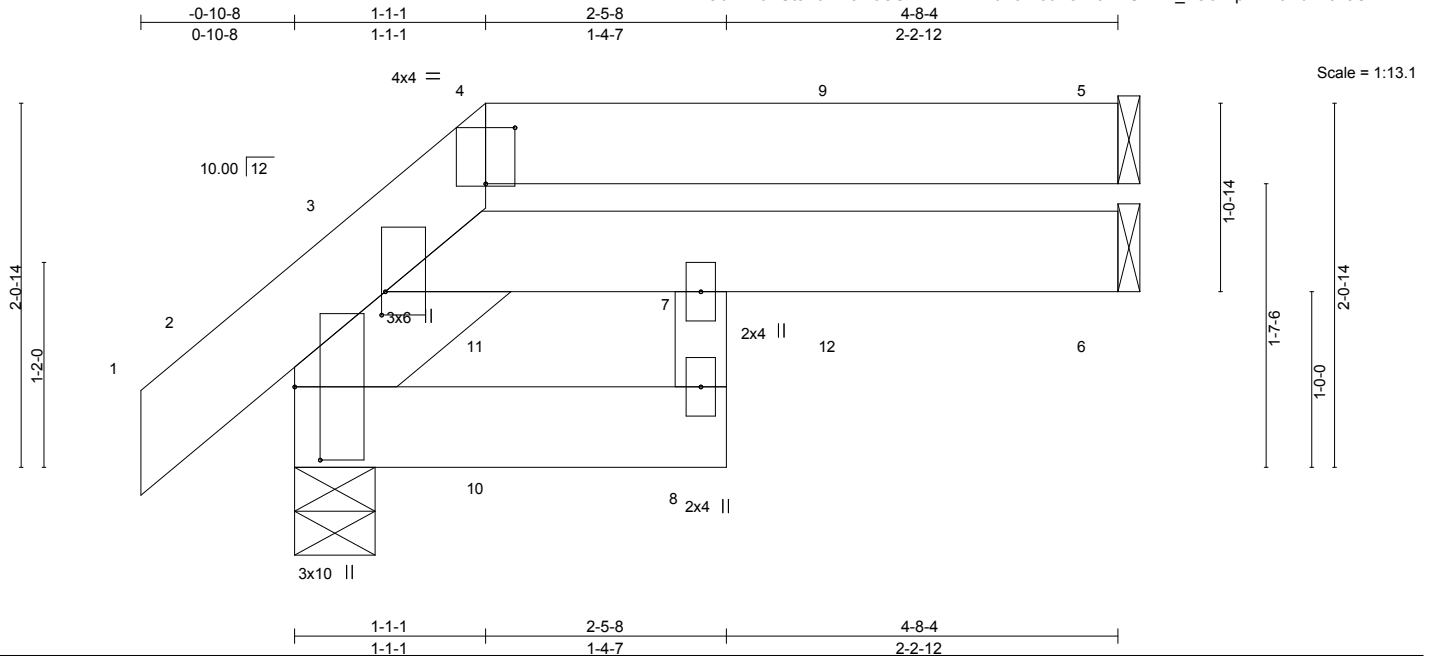


Plate Offsets (X,Y)--	[2:0-5-0,0-1-12], [3:0-1-9,0-0-4], [4:0-2-0,0-3-13]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.01	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(TL) -0.02	7	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(TL) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-R	Wind(LL) 0.01	8	>999	240	Weight: 35 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
7-8: 2x4 SP No.3  
SLIDER Left 2x6 SP No.1 1-3-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=114/Mechanical, 2=269/0-5-8, 6=78/Mechanical  
Max Horz 2=68(LC 5)  
Max Uplift 5=61(LC 3), 2=62(LC 5)  
Max Grav 5=115(LC 10), 2=269(LC 1), 6=115(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 11 lb down and 23 lb up at 1-1-1, and 22 lb up at 3-1-13 on top chord, and 4 lb down at 1-1-13, and 4 lb down at 3-1-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-5=-60, 2-8=-20, 3-7=-20, 6-7=-20  
Concentrated Loads (lb)  
Vert: 10=-2(F) 12=-2(F)



Job B0317-1321	Truss JB-05	Truss Type JACK-OPEN	Qty 1	Ply 1	Jessamine A	E10357343
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Comtech, Inc., Fayetteville, NC 28309

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ID:OoL2Y6YU!3EJID4aR6OS4Az7M4T-YnyXd?pFGzcYFfX22Y\_nBoZ4N1CRdvw0tMvN0zaSFO



Scale: 1/2"=1'

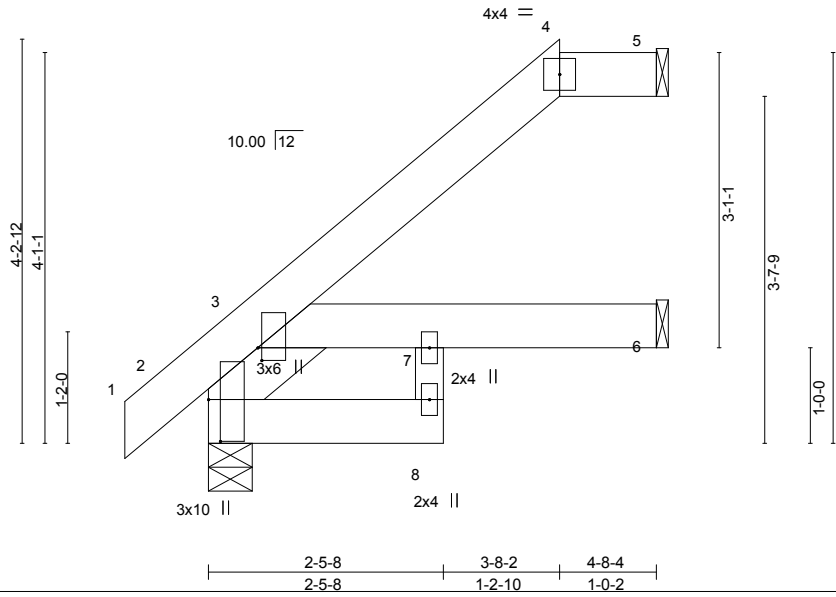


Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [3:0-1-9,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(TL)	-0.02	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		Matrix-R	Wind(LL)	0.01	8	>999	240	Weight: 36 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 7-8: 2x4 SP No.3  
 SLIDER Left 2x6 SP No.1 1-3-8

**BRACING-**

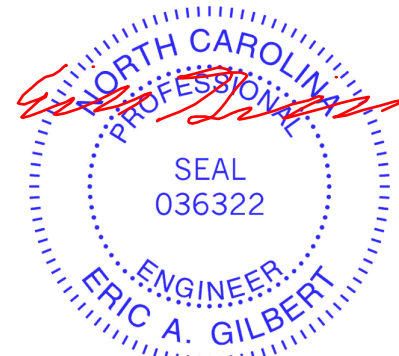
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=111/Mechanical, 2=267/0-5-8, 6=80/Mechanical  
 Max Horz 2=147(LC 6)  
 Max Uplift 5=-62(LC 6), 2=-17(LC 6), 6=-11(LC 6)  
 Max Grav 5=111(LC 1), 2=267(LC 1), 6=110(LC 2)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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**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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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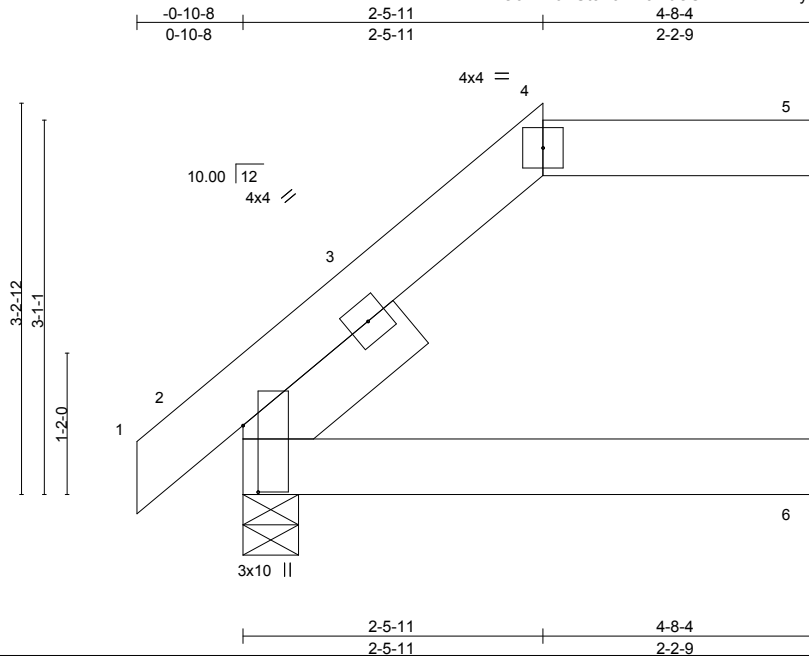


Job B0317-1321	Truss JB-06	Truss Type JACK-OPEN	Qty 1	Ply 1	Jessamine A	E10357344
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ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-YnyXd?pfGxzcYFxx22Y\_nBoZrN33RdvW0tMvN0zaSFO



Scale = 1:19.0

Plate Offsets (X,Y)-- [2:0-6-9,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(TL) -0.01	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.01	2-6	>999	240		
							Weight: 31 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 SLIDER Left 2x6 SP No.1 1-8-3

**BRACING-**

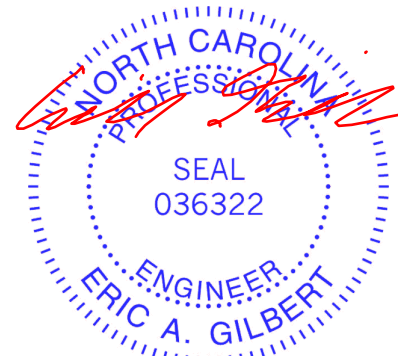
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=123/Mechanical, 2=242/0-5-8, 6=57/Mechanical  
 Max Horz 2=108(LC 6)  
 Max Uplift 5=-58(LC 5), 2=-50(LC 6)  
 Max Grav 5=123(LC 1), 2=242(LC 1), 6=85(LC 2)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



March 16, 2017

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Job B0317-1321	Truss JB-07	Truss Type JACK-OPEN	Qty 2	Ply 1	Jessamine A	E10357345
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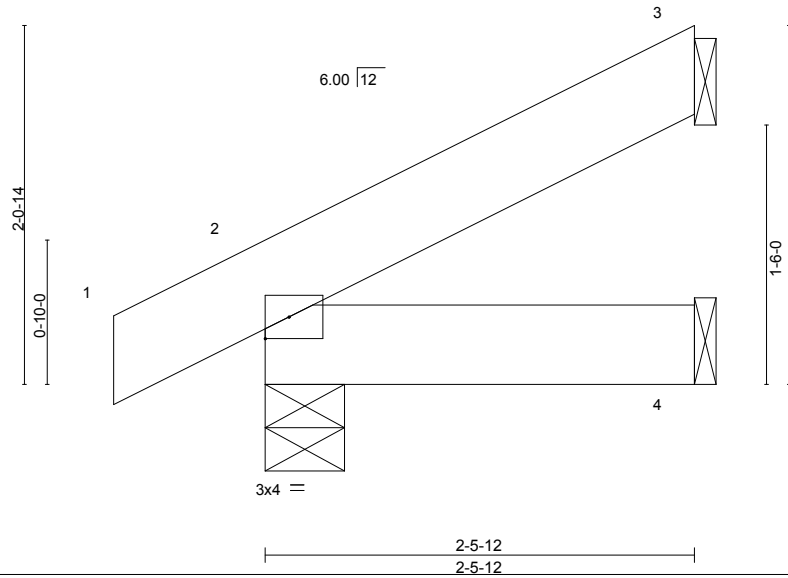
Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:10 2017 Page 1

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Scale = 1:13.3



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 15 lb	FT = 20%

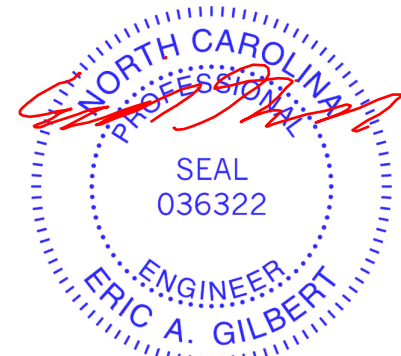
**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=49/Mechanical, 2=170/0-5-8, 4=22/Mechanical  
Max Horz 2=66(LC 6)  
Max Uplift 3=-37(LC 6), 2=-65(LC 6)  
Max Grav 3=49(LC 1), 2=170(LC 1), 4=44(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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.



March 16, 2017

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Job B0317-1321	Truss M01	Truss Type GABLE	Qty 1	Ply 1	Jessamine A	E10357346
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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-0zWvqLpu0F5TAPWjcl3DKPLc1nOvA48fX6TvSzaSFN



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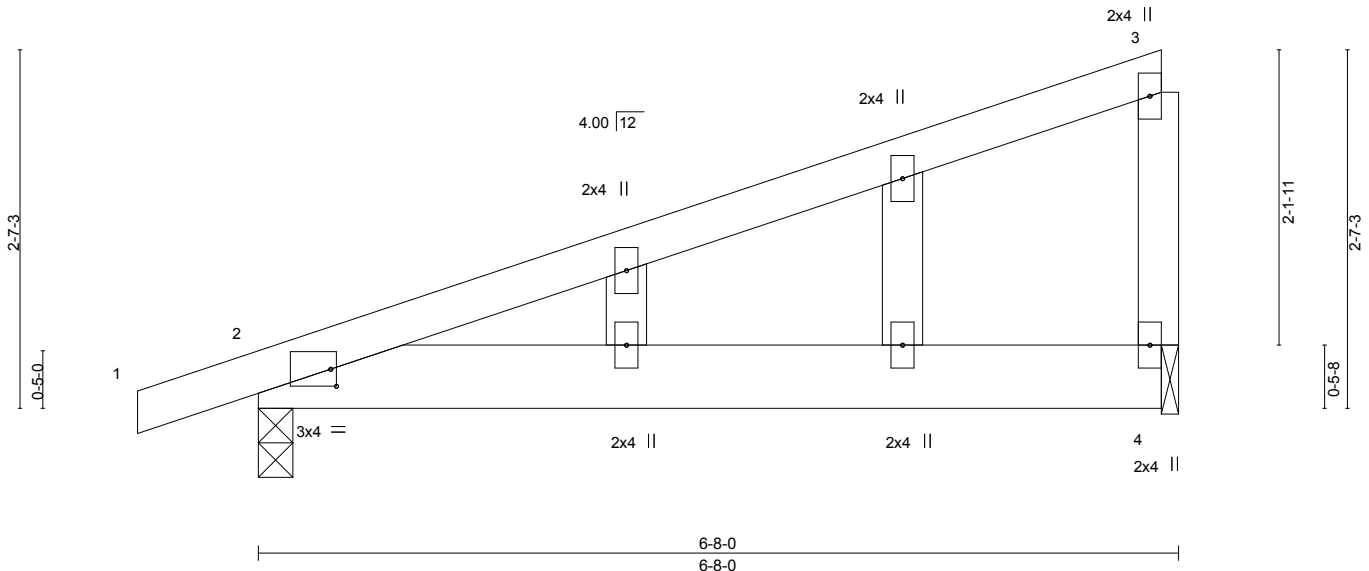


Plate Offsets (X,Y)-- [2:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.02	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(TL) -0.06	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 33 lb	FT = 20%

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

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

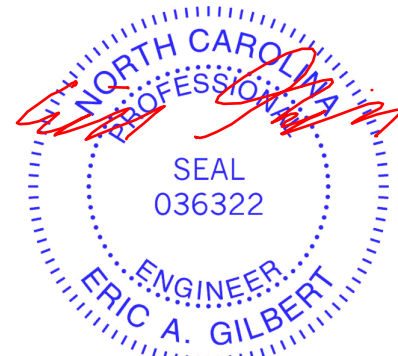
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=321/0-3-0, 4=250/0-1-8  
 Max Horz 2=101(LC 4)  
 Max Uplift 2=-93(LC 4), 4=-64(LC 4)

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

**NOTES-**

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



March 16, 2017

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Job B0317-1321	Truss M02	Truss Type MONOPITCH	Qty 4	Ply 1	Jessamine A	E10357347
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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-0zWvqLpu0F5TAPWjcl3DKPLc1nOvA48fX6TvSzaSFN



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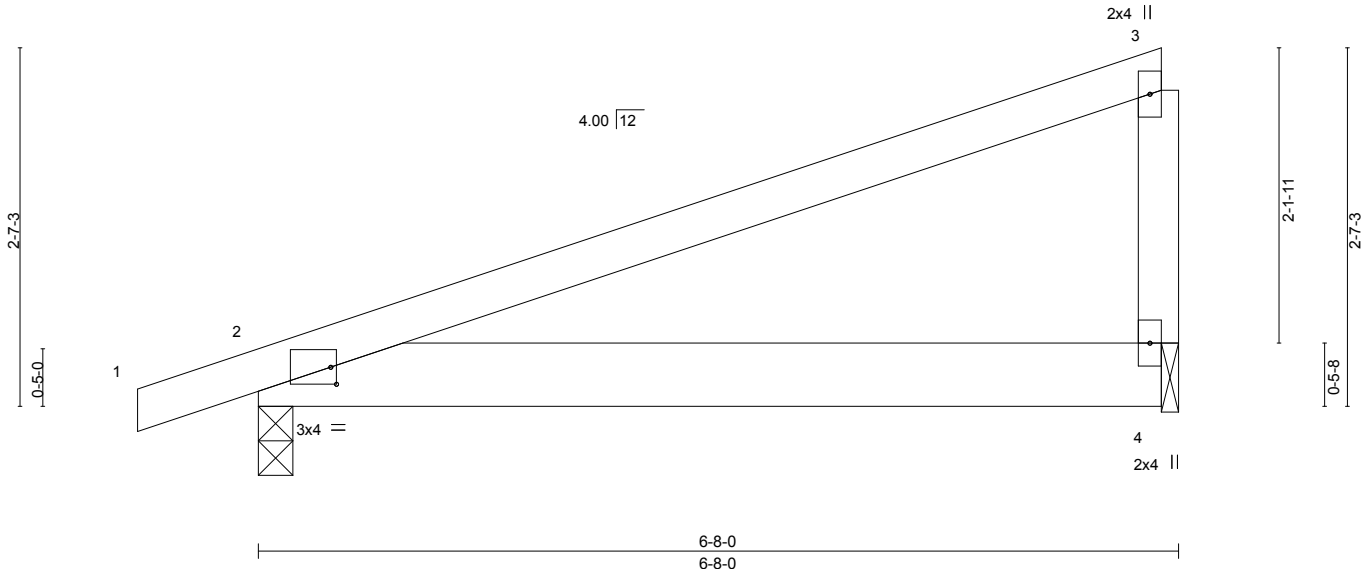


Plate Offsets (X,Y)-- [2:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.02	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(TL) -0.06	2-4	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	4	n/a	n/a			
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240			
								Weight: 30 lb	FT = 20%

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

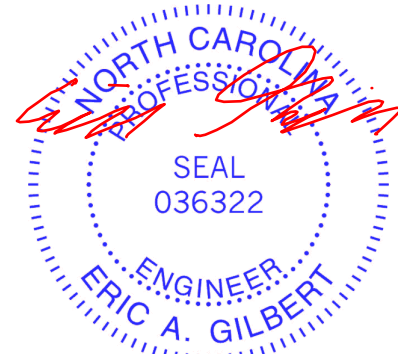
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=321/0-3-0, 4=250/0-1-8  
 Max Horz 2=101(LC 4)  
 Max Uplift 2=93(LC 4), 4=64(LC 4)

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

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



March 16, 2017

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Job B0317-1321	Truss M03	Truss Type MONOPITCH	Qty 5	Ply 1	Jessamine A	E10357348
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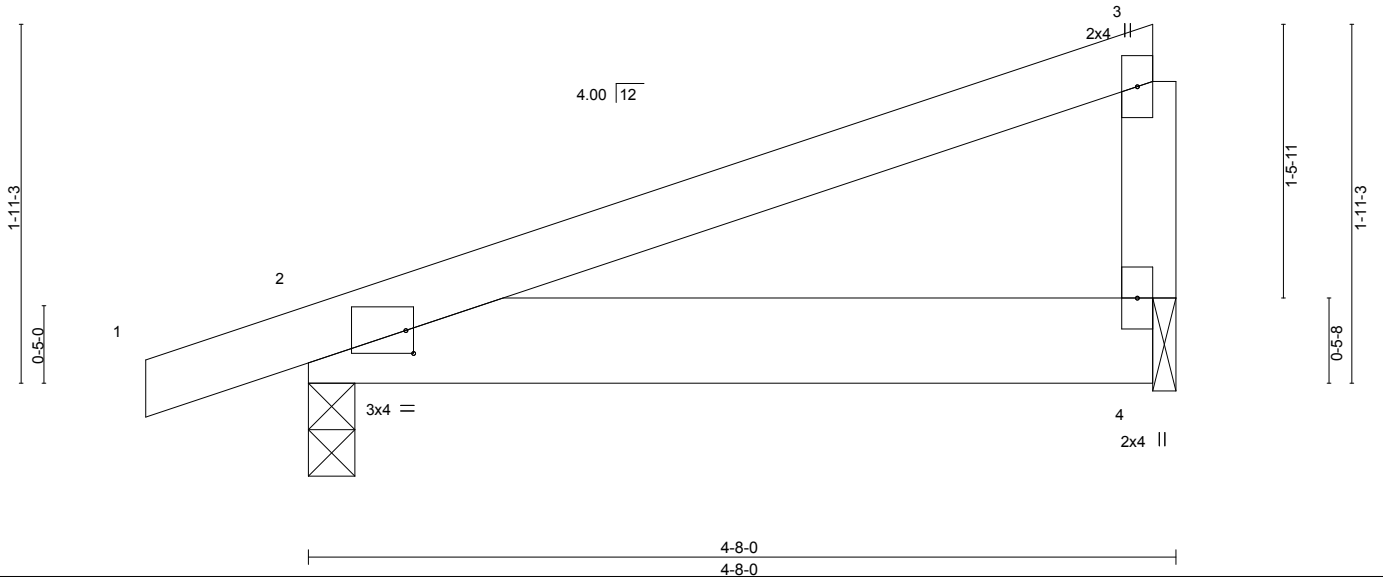


Plate Offsets (X,Y)--		[2:0-0-8,0-1-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.24	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.07	Vert(TL) -0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 21 lb	FT = 20%

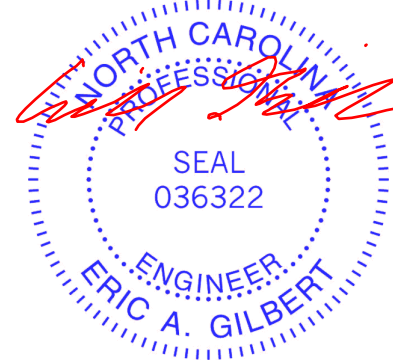
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=243/0-3-0, 4=167/0-1-8  
Max Horz 2=75(LC 4)  
Max Uplift 2=-82(LC 4), 4=-41(LC 4)

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

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



March 16, 2017

Job B0317-1321	Truss M04	Truss Type GABLE	Qty 1	Ply 1	Jessamine A	E10357349
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:11 2017 Page 1  
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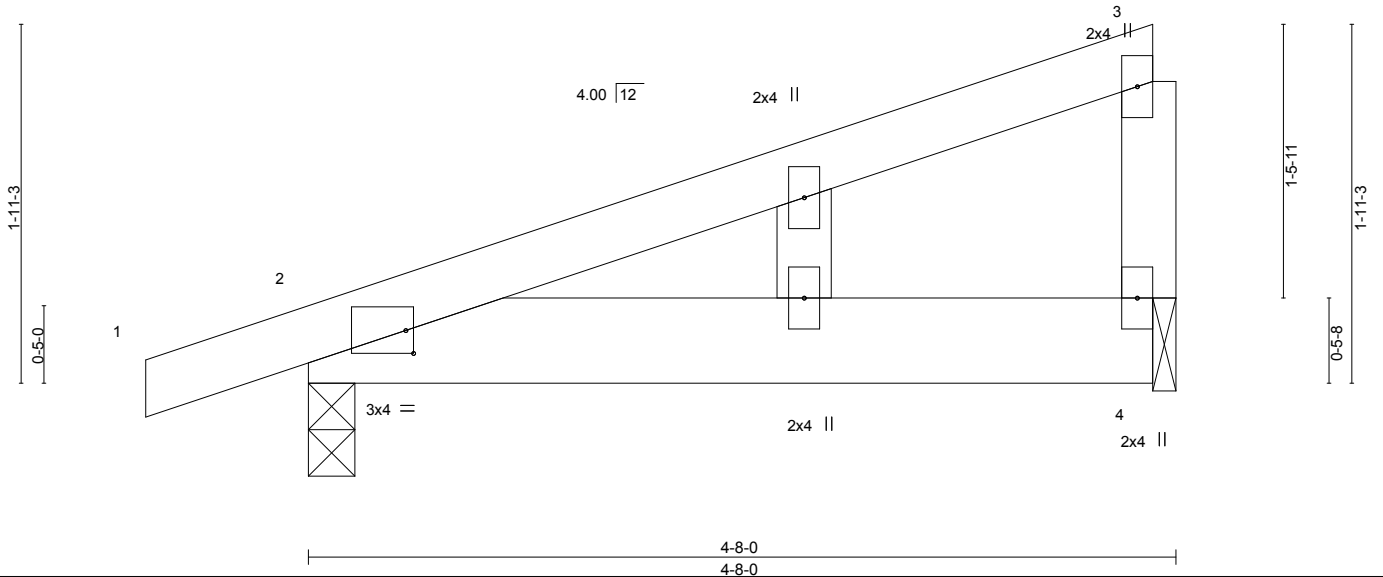


Plate Offsets (X,Y)-- [2:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(TL) -0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 22 lb	FT = 20%

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

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

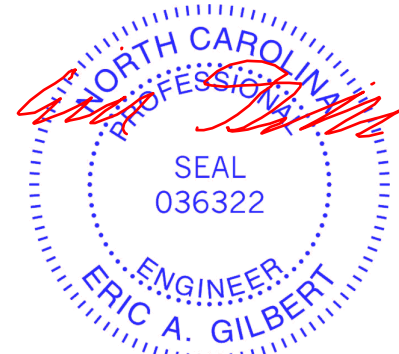
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=243/0-3-0, 4=167/0-1-8  
 Max Horz 2=75(LC 4)  
 Max Uplift 2=-82(LC 4), 4=-41(LC 4)

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

**NOTES-**

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



March 16, 2017

**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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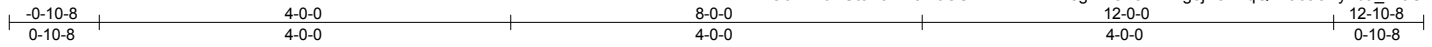


818 Soundside Road  
 Edenton, NC 27932

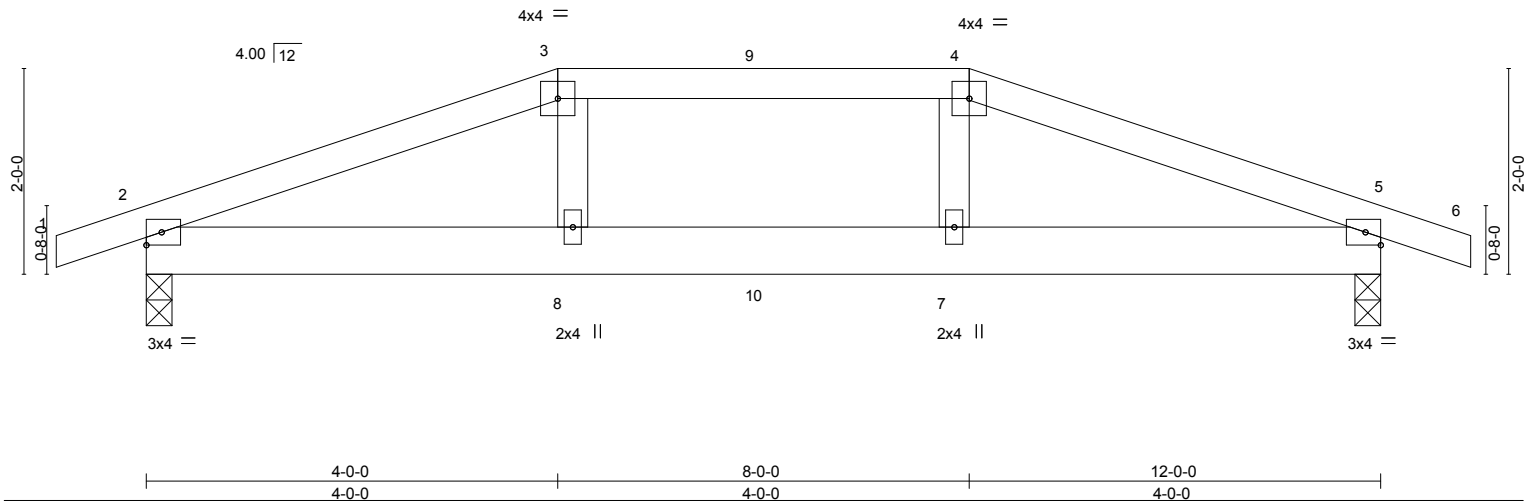
Job B0317-1321	Truss P01	Truss Type Hip Girder	Qty 1	Ply 1	Jessamine A	E10357350
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:12 2017 Page 1  
ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-zMegF1r8YsMAPig6jA5hPqQ?Fa0aeyzirba\_LzaSFL



Scale = 1:22.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.03 7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(TL) -0.07 7-8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.02 5 n/a n/a	Weight: 53 lb	FT = 20%
	Code IRC2009/TPI2007		Wind(LL) 0.03 7-8 >999 240		

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

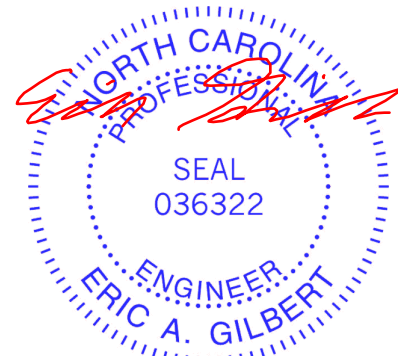
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=797/0-3-0, 5=797/0-3-0  
 Max Horz 2=-24(LC 14)  
 Max Uplift 2=-235(LC 3), 5=-235(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1538/388, 3-4=-1401/374, 4-5=-1538/387  
 BOT CHORD 2-8=-327/1377, 7-8=-326/1401, 5-7=-325/1377  
 WEBS 3-8=-12/320, 4-7=-12/320

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=235, 5=235.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 45 lb up at 4-0-0, and 47 lb down and 45 lb up at 6-0-0, and 65 lb down and 45 lb up at 8-0-0 on top chord, and 188 lb down and 48 lb up at 4-0-0, and 36 lb down at 6-0-0, and 188 lb down and 48 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20  
 Concentrated Loads (lb)  
 Vert: 3=-47(B) 4=-47(B) 8=-188(B) 7=-188(B) 9=-47(B) 10=-18(B)



March 16, 2017

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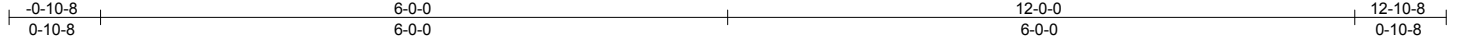
818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss P02	Truss Type COMMON	Qty 2	Ply 1	Jessamine A	E10357351
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ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-zMegF1r8YsMAPig6jA5hPqQ0Ta35ezvyirba\_LzaSFL



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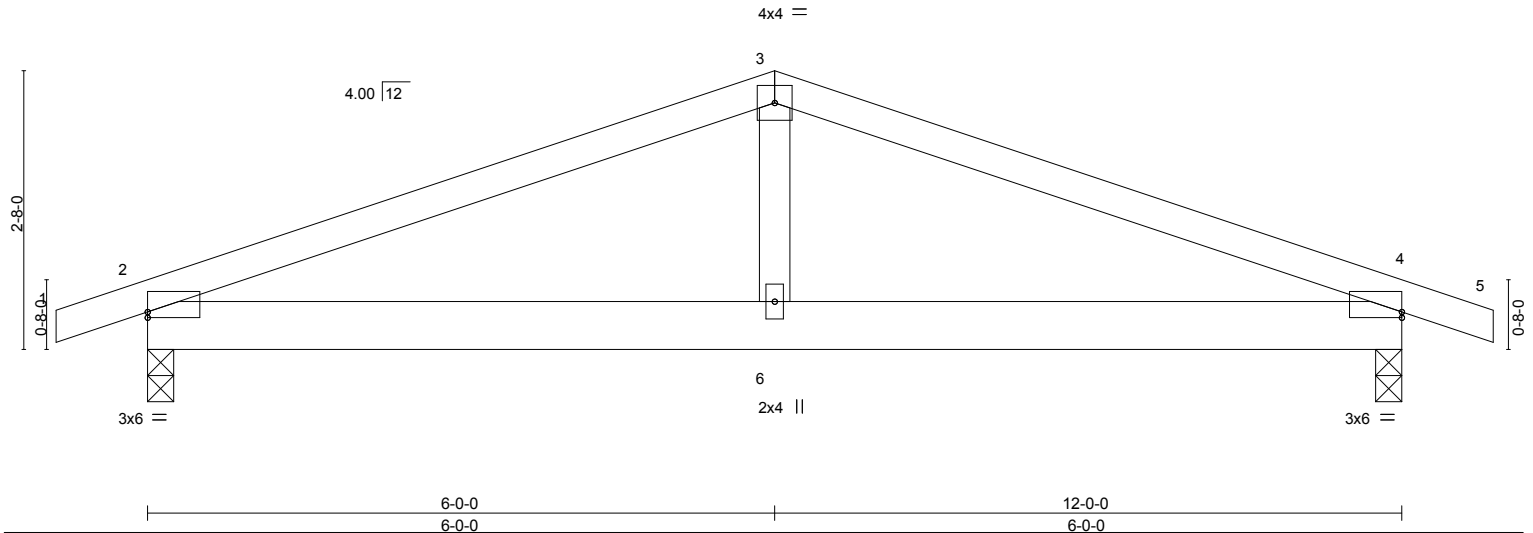


Plate Offsets (X,Y)-- [2:0-0-0,0-0-10], [4:0-0-0,0-0-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.01	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(TL) -0.04	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(TL) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.01	2-6	>999	240		
							Weight: 53 lb	FT = 20%

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

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=530/0-3-0, 4=530/0-3-0  
 Max Horz 2=-33(LC 7)  
 Max Uplift 2=-133(LC 4), 4=-133(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-794/206, 3-4=-794/206  
 BOT CHORD 2-6=-125/678, 4-6=-125/678  
 WEBS 3-6=0/293

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=133, 4=133.



March 16, 2017

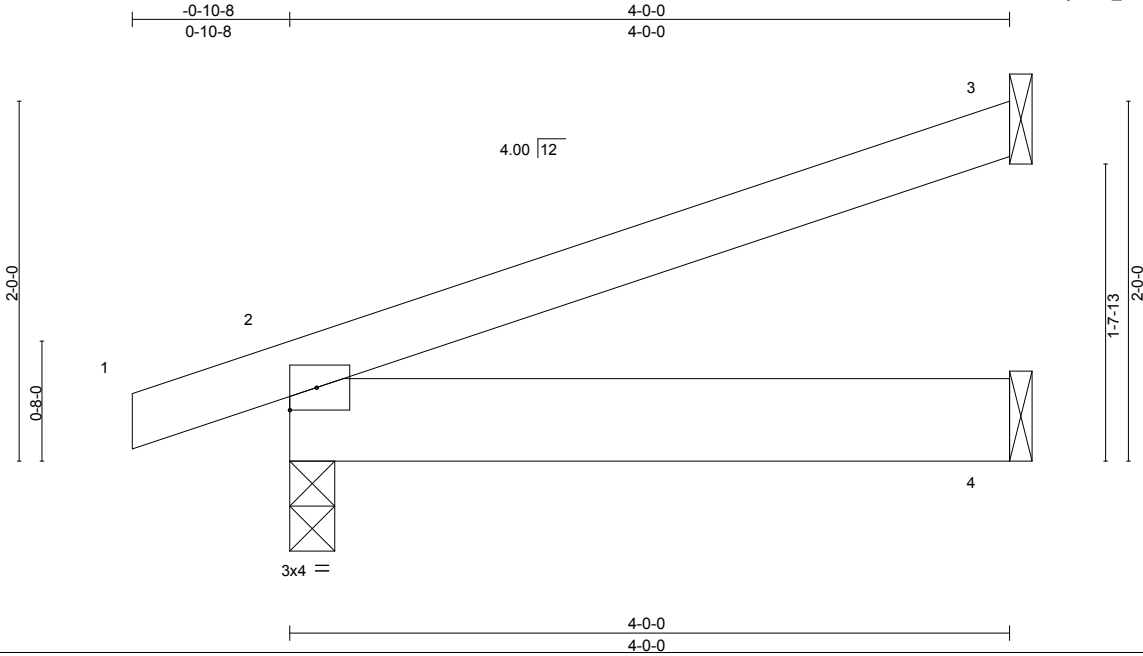


Job B0317-1321	Truss P03	Truss Type Jack-Open	Qty 3	Ply 1	Jessamine A	E10357352
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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-RYC2TMsmJAU11sFIHtdwy1zEc\_RKNRu5xVK7WnzaSFK



Scale = 1:12.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL) -0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 17 lb	FT = 20%

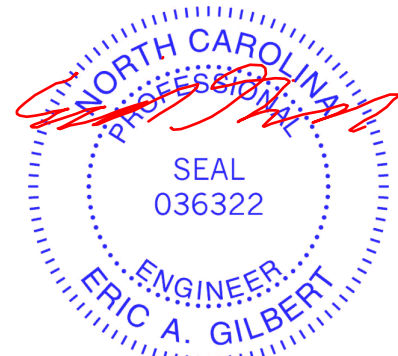
**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x6 SP No.1

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

**REACTIONS.** (lb/size) 3=107/Mechanical, 2=220/0-3-0, 4=38/Mechanical  
Max Horz 2=63(LC 4)  
Max Uplift 3=58(LC 4), 2=75(LC 4)  
Max Grav 3=107(LC 1), 2=220(LC 1), 4=76(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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.



March 16, 2017

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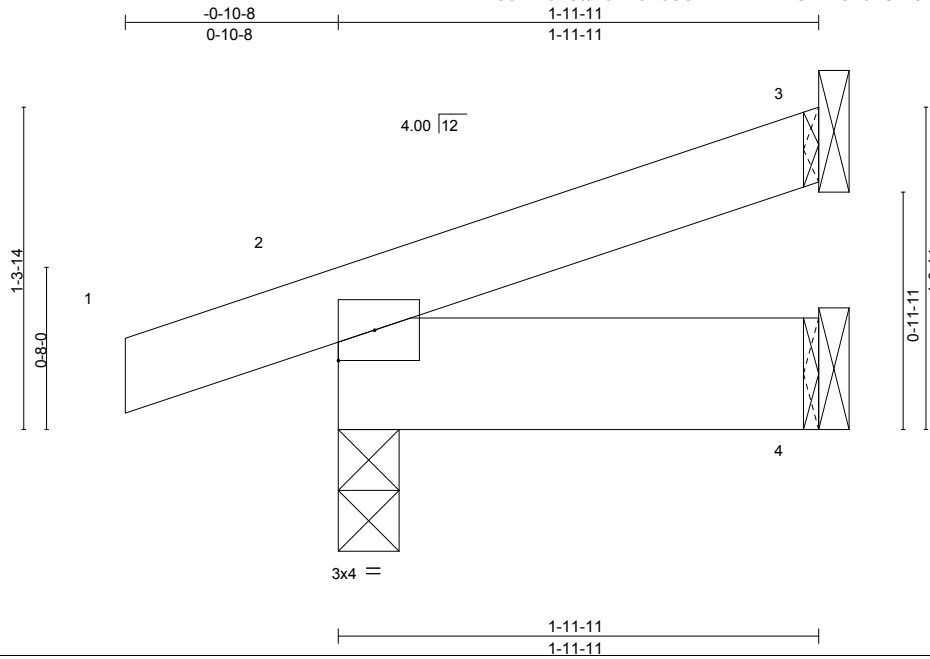
818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss P04	Truss Type Jack-Open	Qty 4	Ply 1	Jessamine A	E10357353
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:13 2017 Page 1

ID:OoL2Y6YU13EJID4aR6OS4Az7M4T-RYC2TmMJAU11sFIHtdwy1zGj\_RyNRu5xVK7WnzaSFK



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(TL) -0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 9 lb	FT = 20%

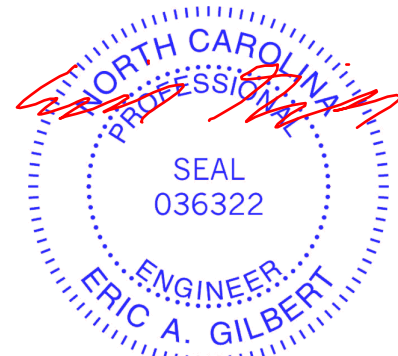
**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=46/Mechanical, 2=144/0-3-0, 4=19/Mechanical  
Max Horz 2=37(LC 4)  
Max Uplift 3=-25(LC 4), 2=-62(LC 4)  
Max Grav 3=46(LC 1), 2=144(LC 1), 4=39(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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.



March 16, 2017

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss P05	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Jessamine A	E10357354
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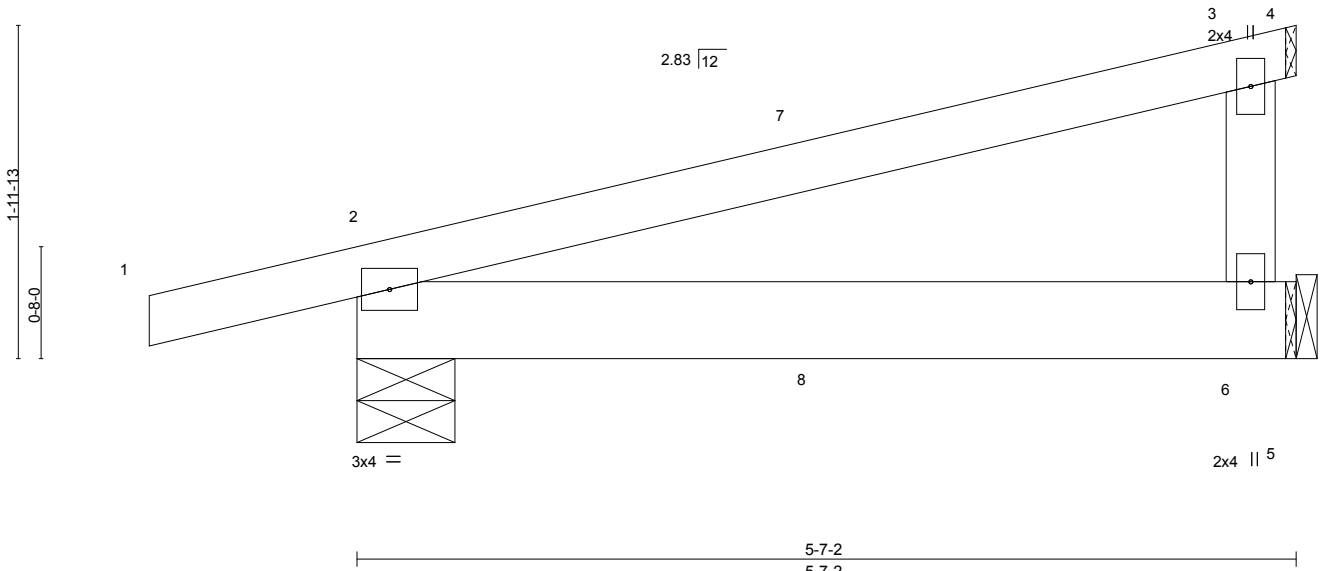
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ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-RYC2TMsmJAU11sFIHtdwy1zBy\_OvNRu5xVK7WnzaSFK



Scale = 1:13.7



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.34	Vert(LL) -0.01	2-6	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.21	Vert(TL) -0.02	2-6	>999	240			
BCLL 0.0 *	Rep Stress Incr NO		WB 0.00	Horz(TL) 0.00		n/a	n/a			
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.00	2	****	240		Weight: 25 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 6=198/Mechanical, 2=307/0-7-0  
Max Horz 2=62(LC 3)  
Max Uplift 6=-43(LC 3), 2=-119(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=119.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1 lb up at 2-9-8, and 1 lb up at 2-9-8 on top chord, and at 2-9-8, and at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-20, 2-5=-20



March 16, 2017

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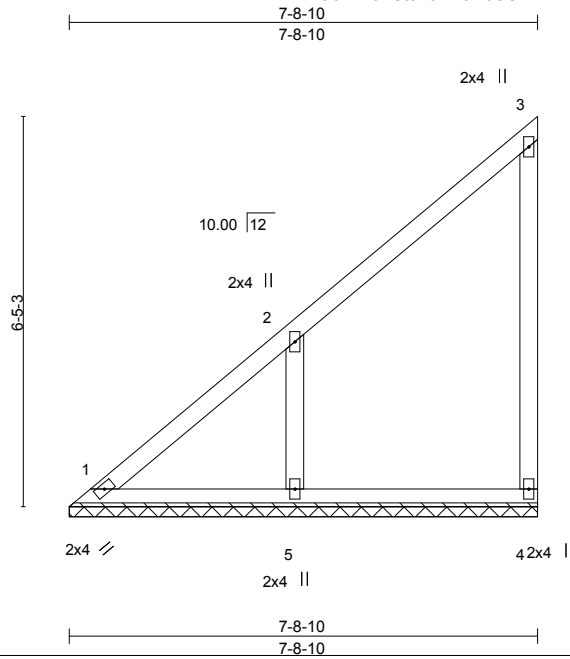
818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss VC-01	Truss Type VALLEY	Qty 1	Ply 1	Jessamine A	E10357355
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Scale = 1:38.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	0.00		n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P					Weight: 38 lb	FT = 20%

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

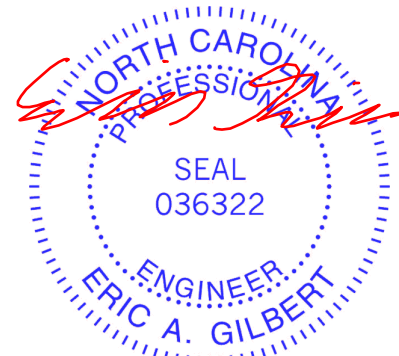
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=93/7-8-10, 4=121/7-8-10, 5=360/7-8-10  
Max Horz 1=232(LC 6)  
Max Uplift 4=-66(LC 6), 5=-197(LC 6)  
Max Grav 1=142(LC 6), 4=121(LC 1), 5=360(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-332/82  
WEBS 2-5=-270/327

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=197.
  - 5) Non Standard bearing condition. Review required.



March 16, 2017

**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.



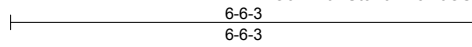
818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss VC-02	Truss Type VALLEY	Qty 1	Ply 1	Jessamine A	E10357356
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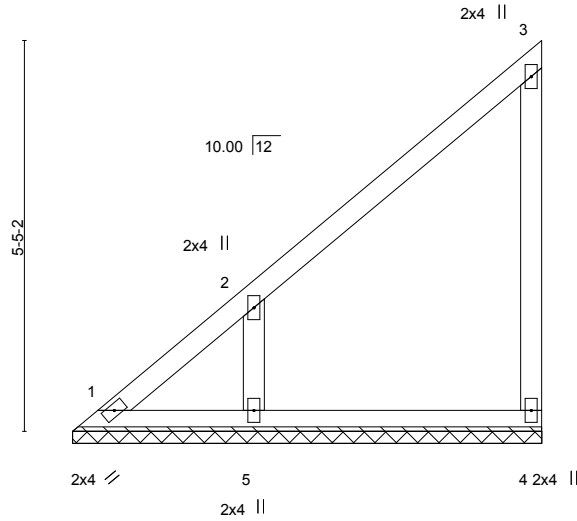
Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:14 2017 Page 1

ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-vkmQgisO4Ucuf0qVrb89UFVPtOm26tlFA94g3EzaSFJ



Scale: 3/8"=1'



LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(TL)	0.00		n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P					Weight: 31 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=32/6-6-3, 4=125/6-6-3, 5=320/6-6-3  
 Max Horz 1=193(LC 6)  
 Max Uplift 4=-69(LC 6), 5=-175(LC 6)  
 Max Grav 1=143(LC 6), 4=125(LC 1), 5=320(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-312/66  
 WEBS 2-5=-240/300

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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 except (jt=lb) 5=175.



March 16, 2017

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

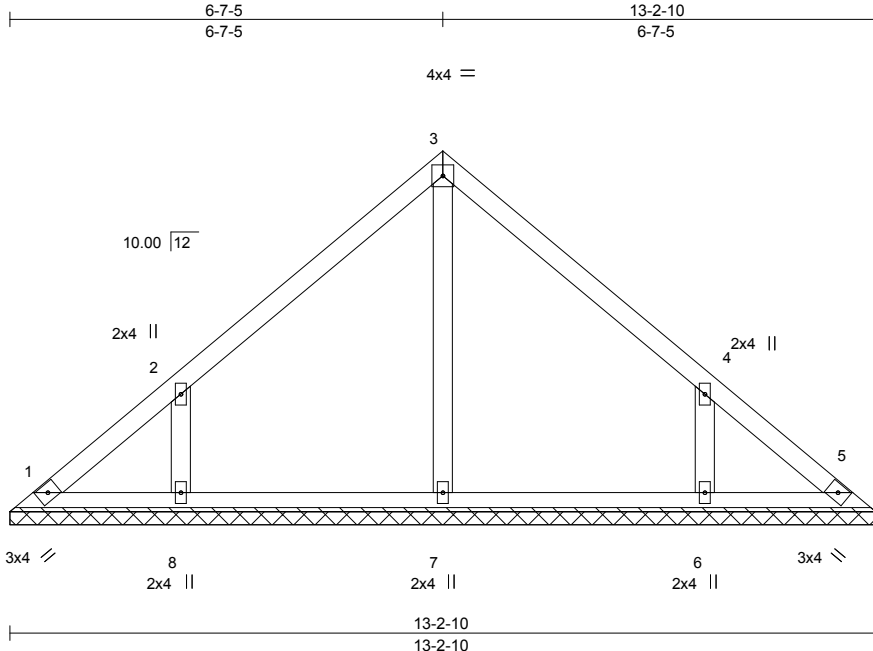


818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss VC-03	Truss Type VALLEY	Qty 1	Ply 1	Jessamine A	E10357357
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:15 2017 Page 1  
ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-NxKot2t0rnlHAOhPlfO1S2ano6Drk7OPpEbgzaSFI



Scale = 1:35.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S					Weight: 56 lb	FT = 20%

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

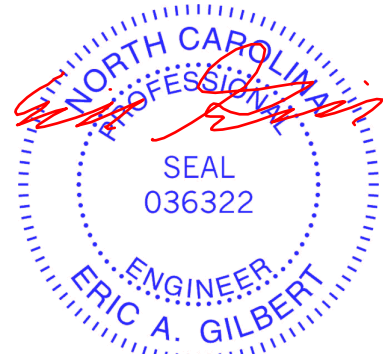
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 13-2-10.  
(lb) - Max Horz 1=-174(LC 4)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-173(LC 6), 6=-173(LC 7)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=303(LC 10), 6=303(LC 11)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=173, 6=173.



March 16, 2017

**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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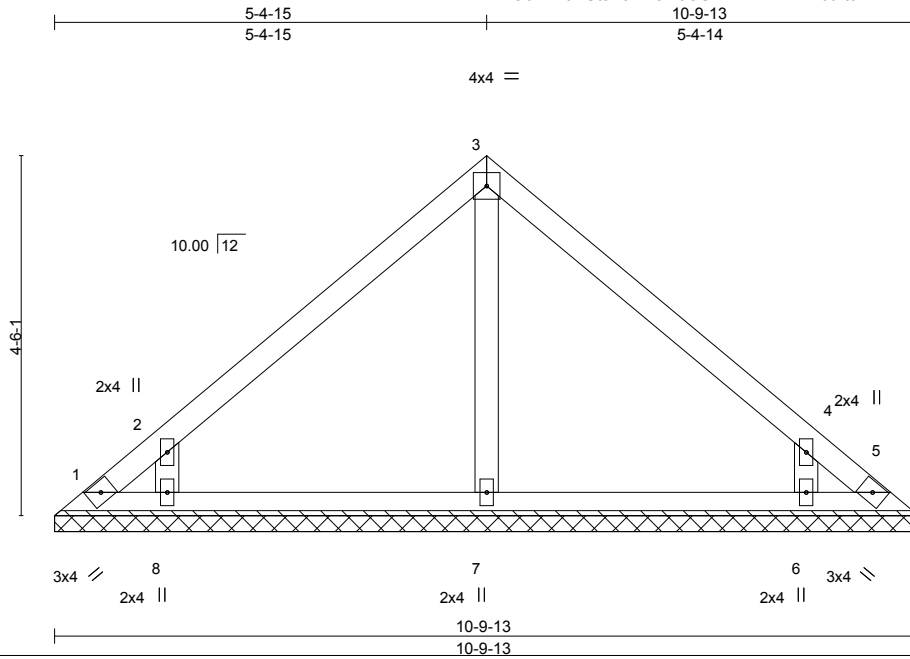


818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss VC-04	Truss Type VALLEY	Qty 1	Ply 1	Jessamine A	E10357358
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:15 2017 Page 1  
ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-NxKot2t0rnlHAOhPlfO1S2aho6ErK5OPppEbgzaSFI



Scale = 1:28.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(TL) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(TL) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S					Weight: 43 lb	FT = 20%

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

**BRACING-**  
TOP CHORD  
BOT CHORD

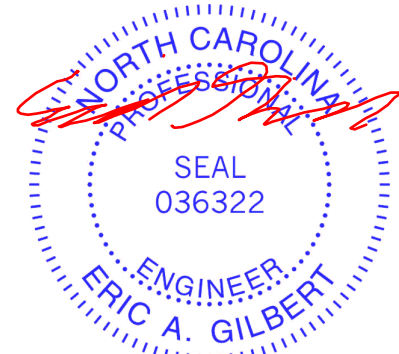
Structural wood sheathing directly applied or 6-0-0 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 10-9-13.  
(lb) - Max Horz 1=140(LC 4)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=183(LC 6), 6=183(LC 7)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=316(LC 10), 6=316(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-256/280, 4-6=-257/280

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=183, 6=183.



March 16, 2017

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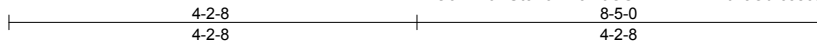
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

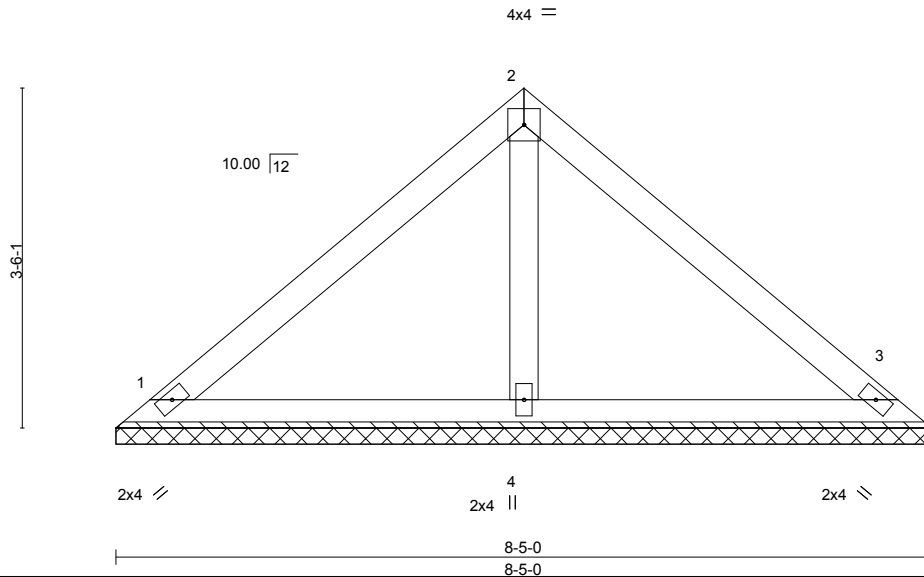
Job B0317-1321	Truss VC-05	Truss Type VALLEY	Qty 1	Ply 1	Jessamine A	E10357359
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Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:16 2017 Page 1  
ID:OoL2Y6YUit3EJID4aR6OS4Az7M4T-r7tB5Ourc5scuKzty0AdagbkKCSAZo\_YdTZn76zaSFH



Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(TL) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P					Weight: 32 lb	FT = 20%

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

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=178/8-5-0, 3=178/8-5-0, 4=253/8-5-0  
Max Horz 1=-107(LC 4)  
Max Uplift 1=-44(LC 6), 3=-52(LC 7)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



March 16, 2017

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



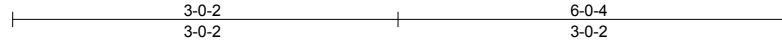
818 Soundside Road  
Edenton, NC 27932



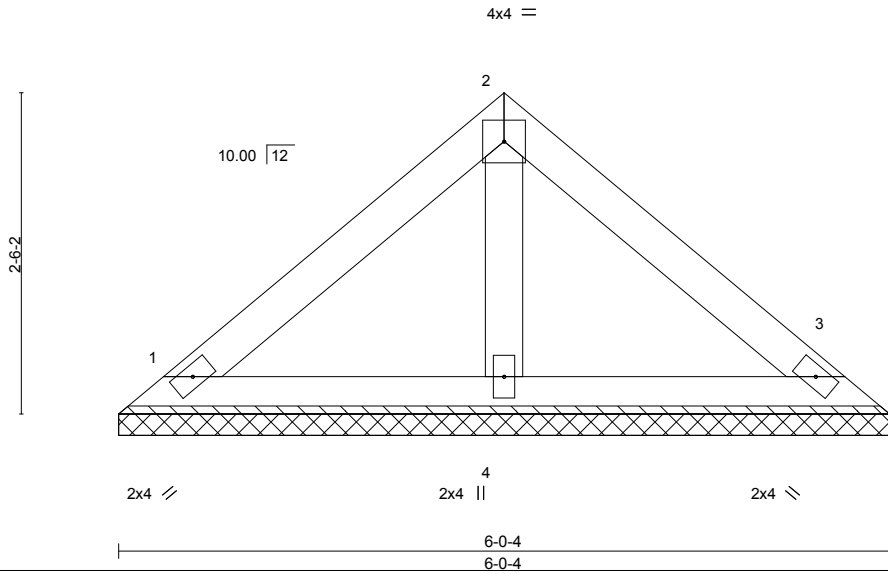
Job B0317-1321	Truss VC-06	Truss Type VALLEY	Qty 1	Ply 1	Jessamine A	E10357360
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:16 2017 Page 1  
ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-r7tB5Oufc5scuKzty0Adagbm8CT2Z0GYdZn76zaSFH



Scale = 1:18.0



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(TL) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P					Weight: 22 lb	FT = 20%

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

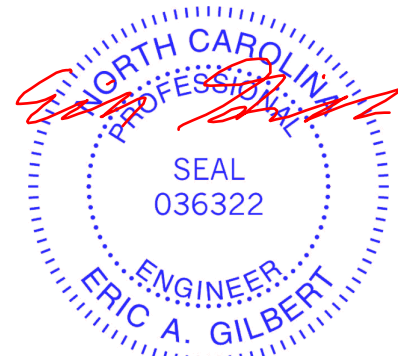
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=122/6-0-4, 3=122/6-0-4, 4=174/6-0-4  
Max Horz 1=-73(LC 4)  
Max Uplift 1=-30(LC 6), 3=-36(LC 7)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 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.
  - 6) Non Standard bearing condition. Review required.



March 16, 2017

**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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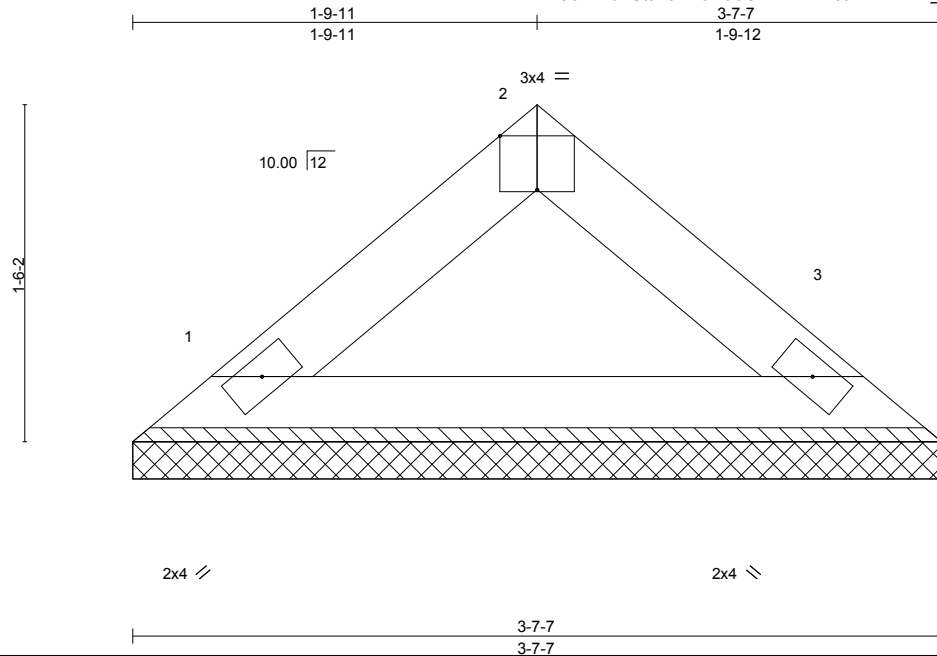


818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss VC-07	Truss Type VALLEY	Qty 1	Ply 1	Jessamine A	E10357361
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:17 2017 Page 1  
ID:OoL2Y6YU13EJID4aR6OS4Az7M4T-JJRZIkvhNP\_TWUY3Wjhs6t7yubo0IFths7IKfZzaSFG



Scale = 1:10.3

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	Matrix-P							Weight: 11 lb	FT = 20%

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

**BRACING-**  
TOP CHORD  
BOT CHORD

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

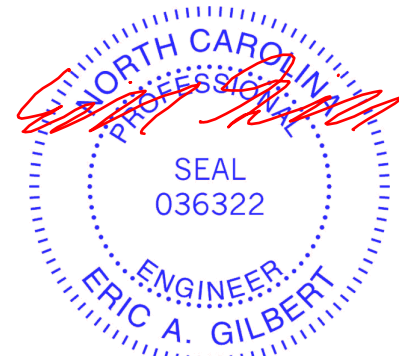
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=113/3-7-7, 3=113/3-7-7  
Max Horz 1=-39(LC 4)  
Max Uplift 1=-15(LC 6), 3=-15(LC 7)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCCL=6.0psf; BCCL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



March 16, 2017

**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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818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss W01	Truss Type GABLE	Qty 1	Ply 1	Jessamine A	E10357362
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Comtech, Inc., Fayetteville, NC 28309

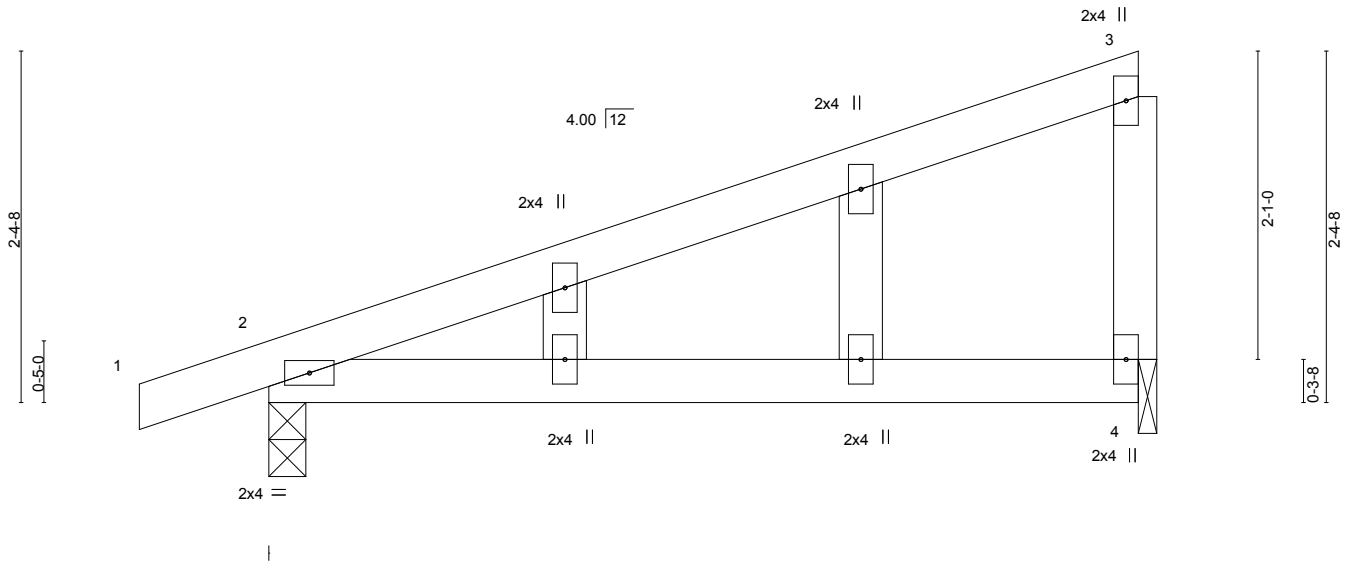
8,030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:17 2017 Page 1

ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-JJRZlkvHNP\_TWUY3Wjhs6t7rHbllfths7IKfZzaSFG

6-0-0  
6-0-0

-0-10-8  
0-10-8

Scale = 1:15.6



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	Vert(LL) -0.06	2-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.31	Vert(TL) -0.14	2-4	>486	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL) 0.00	2	****	240		
	Code IRC2009/TPI2007						Weight: 25 lb	FT = 20%

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

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

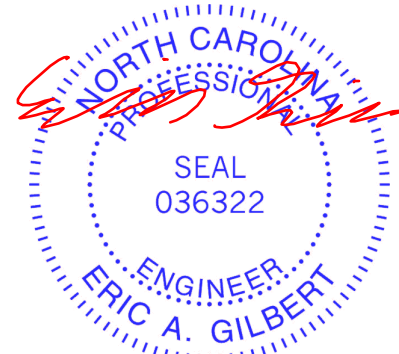
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=294/0-3-0, 4=222/0-1-8  
 Max Horz 2=91(LC 4)  
 Max Uplift 2=-88(LC 4), 4=-58(LC 4)

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

**NOTES-**

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



March 16, 2017

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818 Soundside Road  
 Edenton, NC 27932

Job B0317-1321	Truss W02	Truss Type Monopitch	Qty 5	Ply 1	Jessamine A	E10357363
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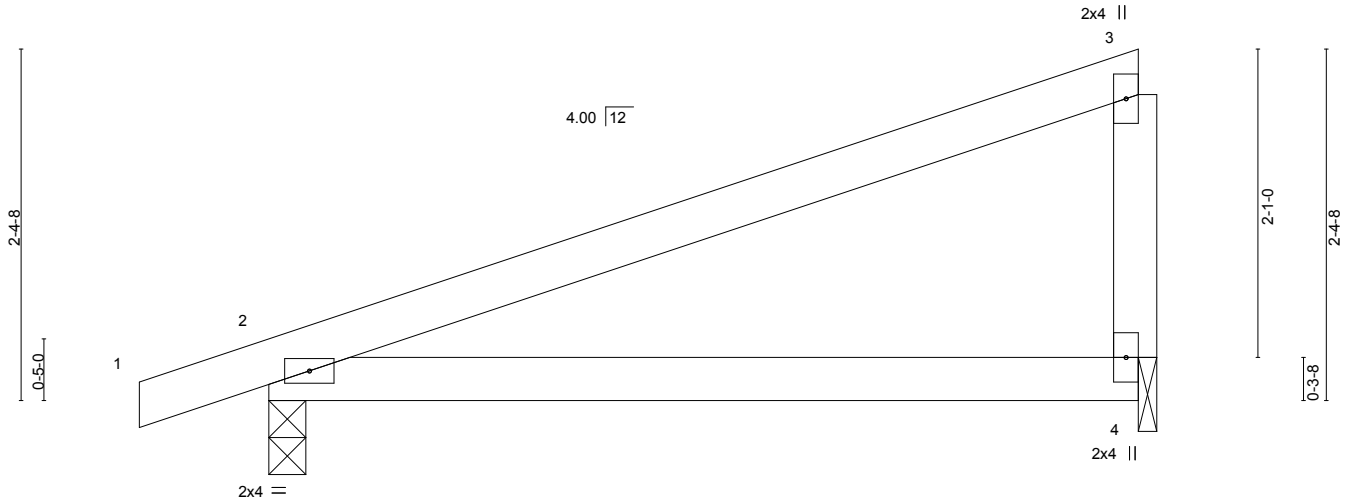
Comtech, Inc., Fayetteville, NC 28309

8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:17 2017 Page 1

ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-JJRZlkvHNP\_TWUY3Wjhs6t7rHbllfths7IKfZzaSFG



Scale = 1:15.6



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.45	Vert(LL)	-0.06	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(TL)	-0.14	2-4	>486	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 22 lb	FT = 20%

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

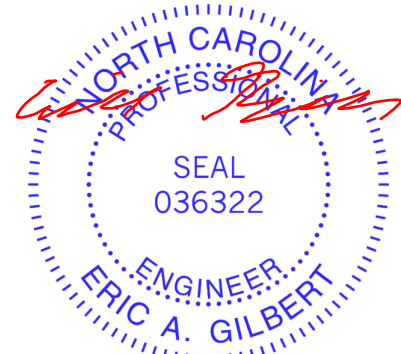
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=294/0-3-0, 4=222/0-1-8  
Max Horz 2=91(LC 4)  
Max Uplift 2=-88(LC 4), 4=-58(LC 4)

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

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



March 16, 2017

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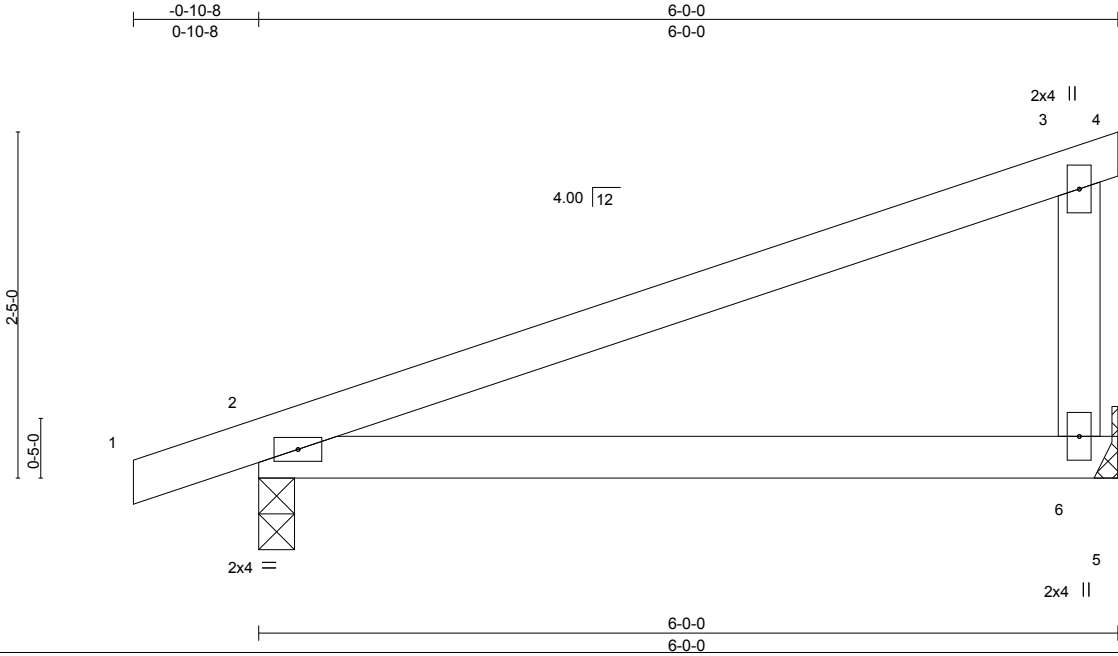
818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss W03	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Jessamine A	E10357364
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Comtech, Inc., Fayetteville, NC 28309

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ID:OoL2Y6YU3EJID4aR6OS4Az7M4T-nW?xW4wv8i6K8e7G4RC5f5g1J?5m1i7q5n2uC?zaSFF



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.05	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(TL) -0.13	2-6	>523	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 22 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=571/Mechanical, 2=289/0-3-0  
Max Horz 2=92(LC 4)  
Max Uplift 6=-273(LC 4), 2=-86(LC 4)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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 except (jt=lb) 6=273.
  - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 341 lb down and 212 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-20, 2-5=-20  
Concentrated Loads (lb)  
Vert: 6=-341(F)



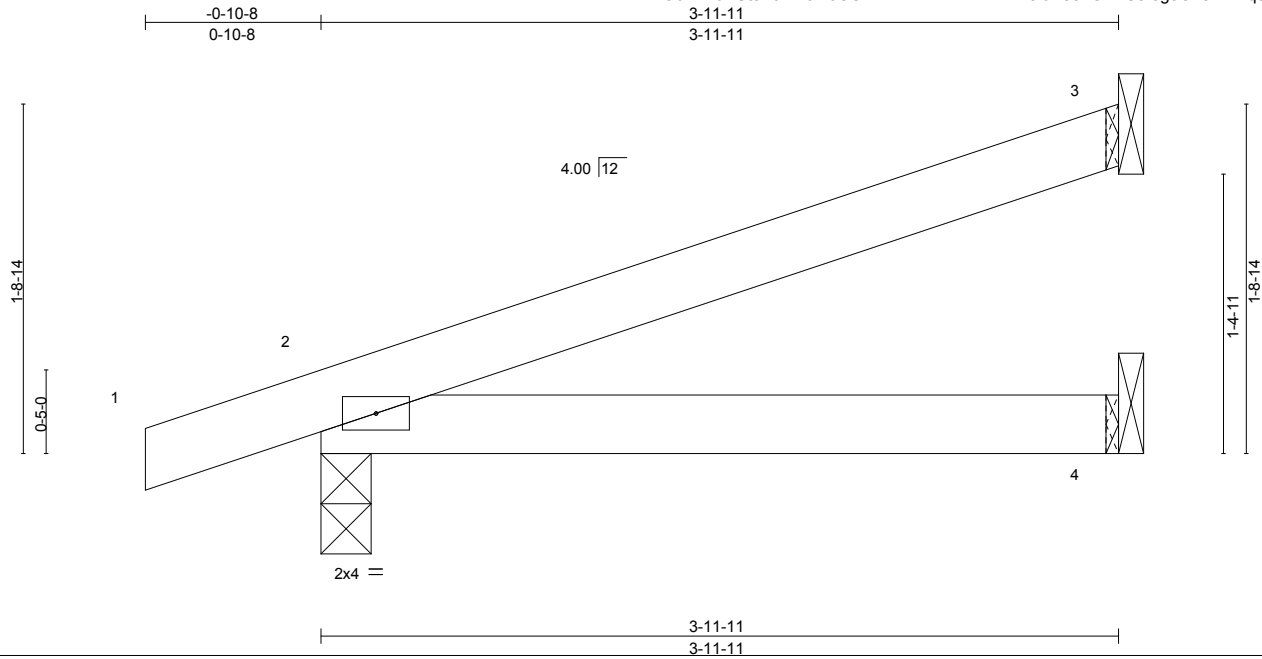
March 16, 2017

Job B0317-1321	Truss W04	Truss Type JACK-OPEN	Qty 2	Ply 1	Jessamine A	E10357365
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:18 2017 Page 1

ID:OoL2Y6YUt3EJID4aR6OS4Az7M4T-nW?xW4wv8i6K8e7G4RC5f5g5O?8M1i7q5n2uC?zaSFF



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.17	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	-0.03	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 14 lb	FT = 20%

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

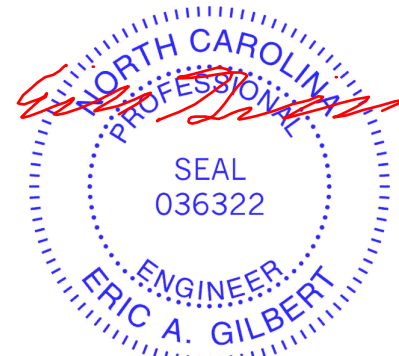
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=106/Mechanical, 2=219/0-3-0, 4=38/Mechanical  
Max Horz 2=66(LC 4)  
Max Uplift 3=-55(LC 4), 2=-78(LC 4)  
Max Grav 3=106(LC 1), 2=219(LC 1), 4=76(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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.



March 16, 2017

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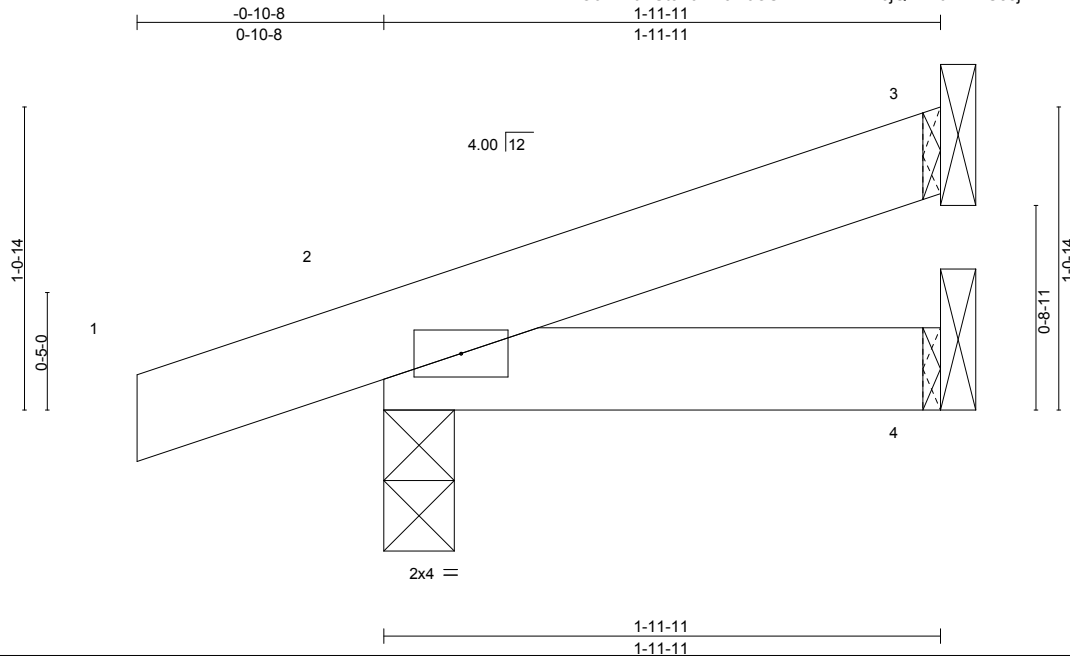


818 Soundside Road  
Edenton, NC 27932

Job B0317-1321	Truss W05	Truss Type JACK-OPEN	Qty 2	Ply 1	Jessamine A	E10357366
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:19 2017 Page 1  
ID:OoL2Y6YUf3EJID4aR6OS4Az7M4T-FiZJjQwXv0EBInISe8jKBIDHAPU5m9N\_JRnRkRzaSFE



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.00	2	****	240		
							Weight: 8 lb	FT = 20%

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

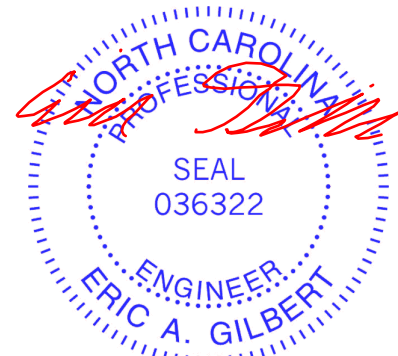
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 3=46/Mechanical, 2=144/0-3-0, 4=19/Mechanical  
Max Horz 2=41(LC 4)  
Max Uplift 3=-21(LC 4), 2=-65(LC 4)  
Max Grav 3=46(LC 1), 2=144(LC 1), 4=39(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Interior(1) 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.



March 16, 2017

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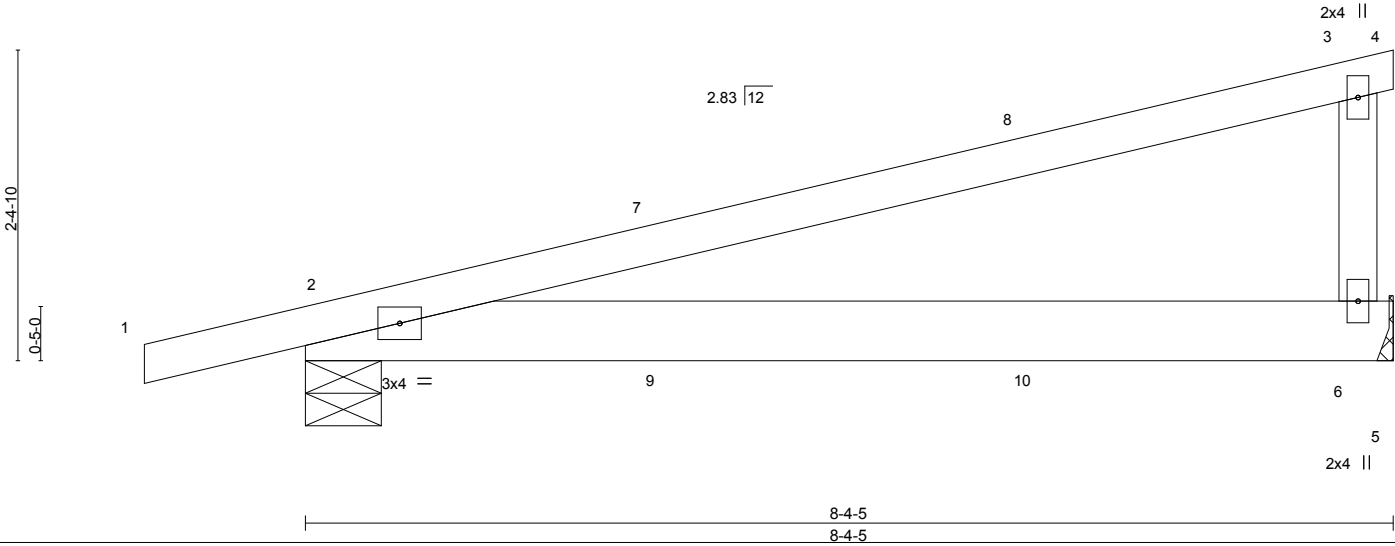
Job B0317-1321	Truss WC-J	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Jessamine A	E10357367
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8.030 s Jan 23 2017 MiTek Industries, Inc. Thu Mar 16 05:49:19 2017 Page 1  
ID:OoL2Y6YU13EJID4aR6OS4Az7M4T-FiZJjQwXv0EBInISe8jKBID7pPQam9N\_JRnRkRzaSFE



Scale = 1:17.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.06	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.14	2-6	>646	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(TL) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P	Wind(LL) 0.08	2-6	>999	240	Weight: 37 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=355/Mechanical, 2=432/0-7-0  
Max Horz 2=93(LC 3)  
Max Uplift 6=-205(LC 3), 2=-265(LC 3)

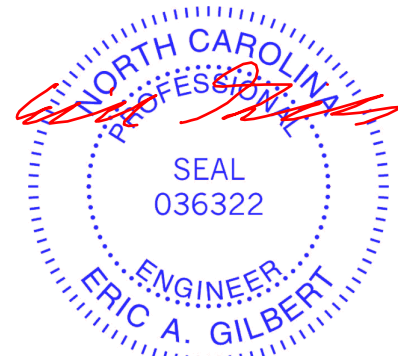
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-6=-259/135

**NOTES-**

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); porch left exposed; 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) except (jt=lb) 6=205, 2=265.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) at 2-9-8, at 2-9-8, and 21 lb down and 37 lb up at 5-7-7, and 21 lb down and 37 lb up at 5-7-7 on top chord, and at 2-9-8, at 2-9-8, and 19 lb down at 5-7-7, and 19 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-20, 2-5=-20  
Concentrated Loads (lb)  
Vert: 8=42(F=-21, B=-21) 10=-19(F=-10, B=-10)



March 16, 2017

**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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

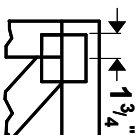


818 Soundside Road  
Edenton, NC 27932

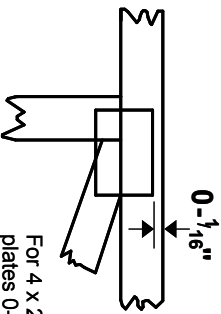


# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

\* Plate location details available in **MITek 2020 software** or upon request.

## PLATE SIZE

### 4 X 4

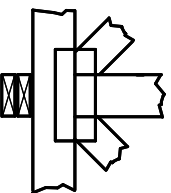
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



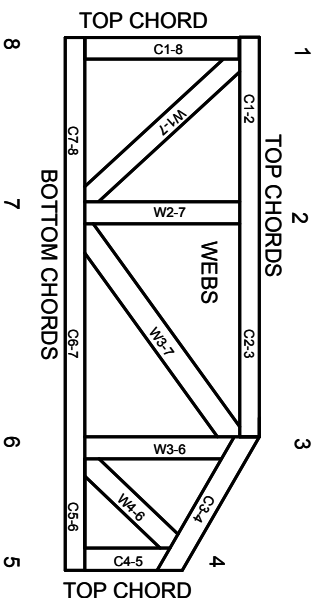
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft.-in.-sixteenths (Drawings not to scale)



**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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor-I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.



MITek Engineering Reference Sheet: Mill-7473 rev. 10/03/2015