

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: J1120-5401  
Lot 67 South Creek

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: E15108184 thru E15108224

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



November 17, 2020

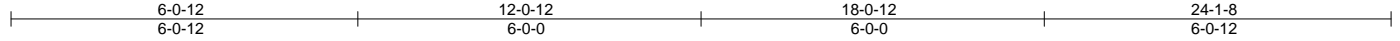
Gilbert, Eric

**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 MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

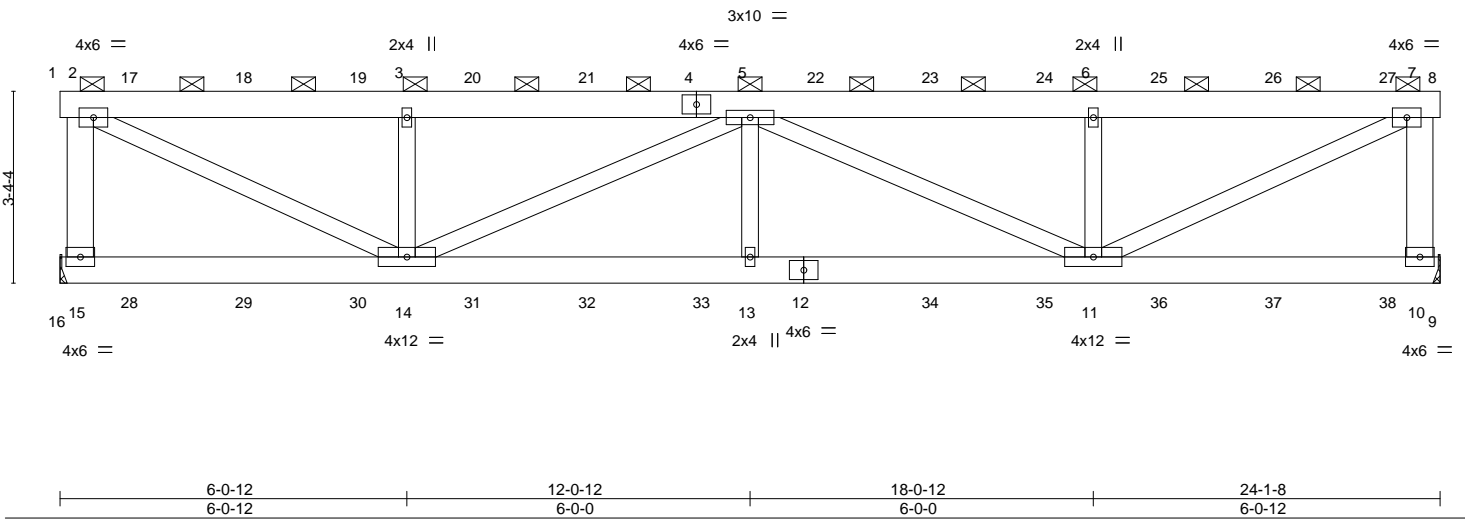
Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108184
J1120-5401	A01-GR	FLAT GIRDER	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:25 2020 Page 1  
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-NSEo2VJ9WLob25gYhbiQ2LDaYqm8w9447s2w7nyllHc0



Scale = 1:40.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.15	in (loc) l/defl L/d Vert(LL) -0.07 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.14 11-13 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.40	Horz(CT) 0.02 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 11-13 >999 240	Weight: 342 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
2-15,7-10: 2x6 SP No.1

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-8, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

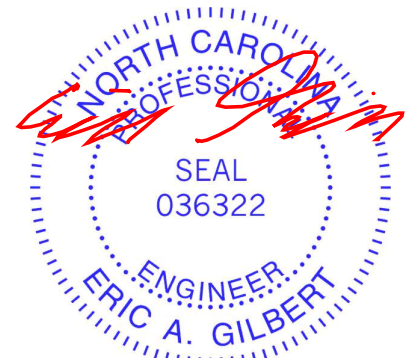
(size) 15=Mechanical, 10=Mechanical  
Max Uplift 15=-340(LC 4), 10=-350(LC 5)  
Max Grav 15=1868(LC 1), 10=2088(LC 1)

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

TOP CHORD 2-15=-1718/391, 2-3=-2869/513, 3-5=-2869/513, 5-6=-3063/514, 6-7=-3063/514,  
7-10=-1724/346  
BOT CHORD 13-14=-694/3998, 11-13=-694/3998  
WEBS 2-14=-541/3042, 3-14=-672/317, 5-14=-1254/202, 5-13=0/550, 5-11=-1039/201,  
6-11=-369/169, 7-11=-543/3237

**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.  
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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 15 and 350 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 81 lb up at 1-3-4, 104 lb down and 81 lb up at 3-3-4, 104 lb down and 81 lb up at 5-3-4, 104 lb down and 81 lb up at 7-3-4, 104 lb down and 81 lb up at 9-3-4, 104 lb down and 81 lb up at 11-3-4, 34 lb down and 36 lb up at 13-3-4, 34 lb down and 36 lb up at 15-3-4, 34 lb down and 36 lb up at 17-3-4, 34 lb down and 36 lb up at 19-3-4, and 34 lb down and 36 lb up at 21-3-4, and 33 lb down and 39 lb up at 23-3-4 on top chord, and 69 lb down at 1-3-4, 69 lb down at 3-3-4, 69 lb down at 5-3-4, 69 lb down at 7-3-4, 69 lb down at 9-3-4, 69 lb down at 11-3-4, 176 lb down and 30 lb up at 13-3-4, 176 lb down and 30 lb up at 15-3-4, 176 lb down and 30 lb up at 17-3-4, 176 lb down and 30 lb up at 19-3-4, and 176 lb down and 30 lb up at 21-3-4, and 178 lb down and 28 lb up at 23-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Continued on page 2

**LOAD CASE(S) - Standard**

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108184
J1120-5401	A01-GR	FLAT GIRDER	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:25 2020 Page 2  
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**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-7=-60, 7-8=-60, 9-16=-20

Concentrated Loads (lb)

Vert: 4=-104(B) 12=-176(B) 17=-104(B) 18=-104(B) 19=-104(B) 20=-104(B) 21=-104(B) 22=-22(B) 23=-22(B) 24=-22(B) 25=-22(B) 26=-22(B) 27=-26(B) 28=-35(B)  
 29=-35(B) 30=-35(B) 31=-35(B) 32=-35(B) 33=-35(B) 34=-176(B) 35=-176(B) 36=-176(B) 37=-176(B) 38=-178(B)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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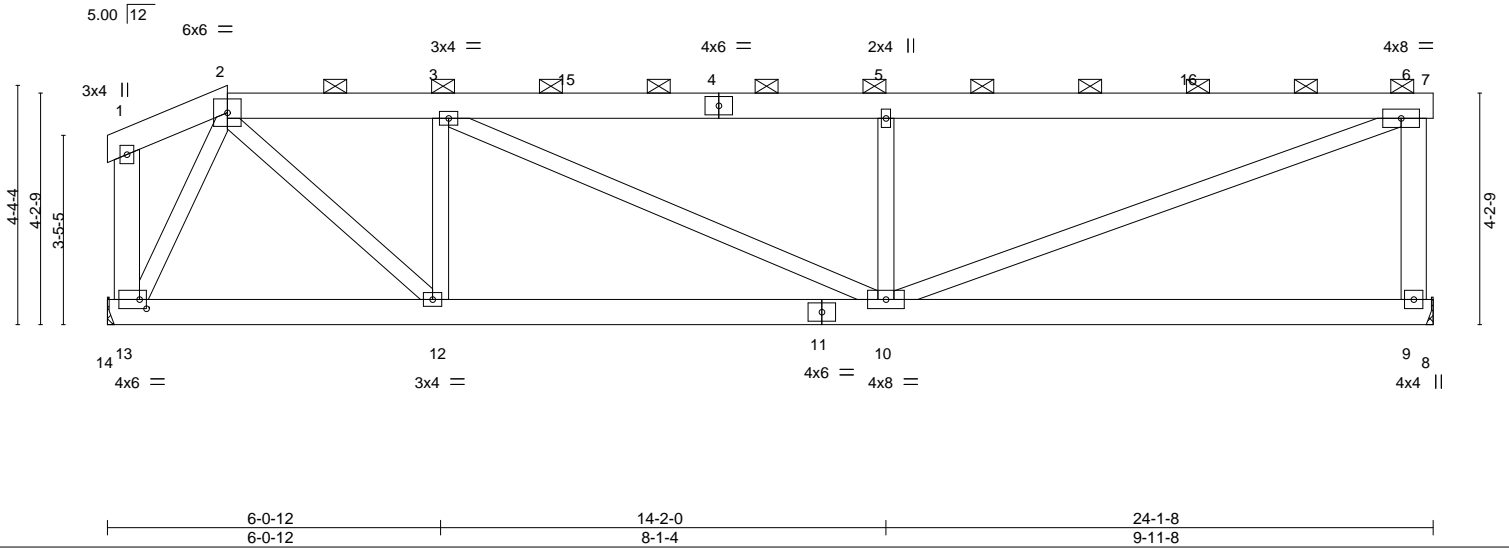
Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108185
J1120-5401	A02	HALF HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:26 2020 Page 1  
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Scale = 1:41.9



LOADING (psf)		SPACING-		CSI.	DEFL.				PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.05	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.12	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.04	10-12	>999	240	Weight: 178 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 6-9,1-13: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-15 max.); 2-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 9=Mechanical, 13=Mechanical  
 Max Horz 13=22(LC 12)  
 Max Uplift 9=111(LC 9), 13=79(LC 9)  
 Max Grav 9=965(LC 1), 13=944(LC 23)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1154/307, 3-5=-1543/357, 5-6=-1543/357, 6-9=-852/289  
 BOT CHORD 12-13=-143/411, 10-12=-305/1151  
 WEBS 2-12=-228/1042, 3-12=-588/242, 3-10=-87/438, 5-10=-564/282, 6-10=-353/1510,  
 2-13=-886/251

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 8-4-14, Interior(1) 8-4-14 to 24-1-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 9 and 79 lb uplift at joint 13.
  - 8) 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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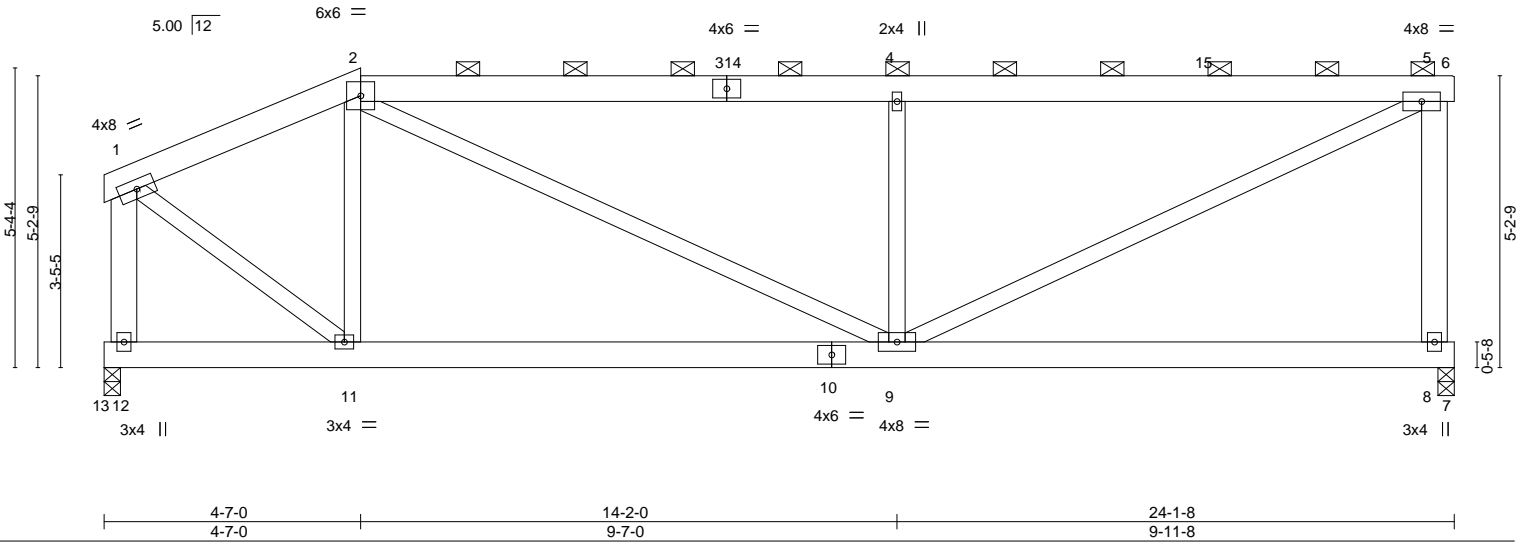
Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108186
J1120-5401	A03	HIP	1	1		

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8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:26 2020 Page 1  
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Scale = 1:41.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) -0.05 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.68	Vert(CT) -0.11 9-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 9-11 >999 240	Weight: 181 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-12,5-8: 2x6 SP No.1	

**REACTIONS.** (size) 12=0-3-8, 8=0-3-8  
 Max Horz 12=54(LC 12)  
 Max Uplift 12=-58(LC 9), 8=-112(LC 9)  
 Max Grav 12=944(LC 23), 8=964(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-814/222, 2-4=-1258/333, 4-5=-1257/332, 1-12=-921/259, 5-8=-859/299  
 BOT CHORD 9-11=-252/735  
 WEBS 2-11=-377/210, 2-9=-95/621, 4-9=-653/329, 5-9=-352/1309, 1-11=-189/891

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 10-9-11, Interior(1) 10-9-11 to 24-1-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 12 and 112 lb uplift at joint 8.
  - 7) 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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Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108187
J1120-5401	A04	HIP	1	1		

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8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:27 2020 Page 1  
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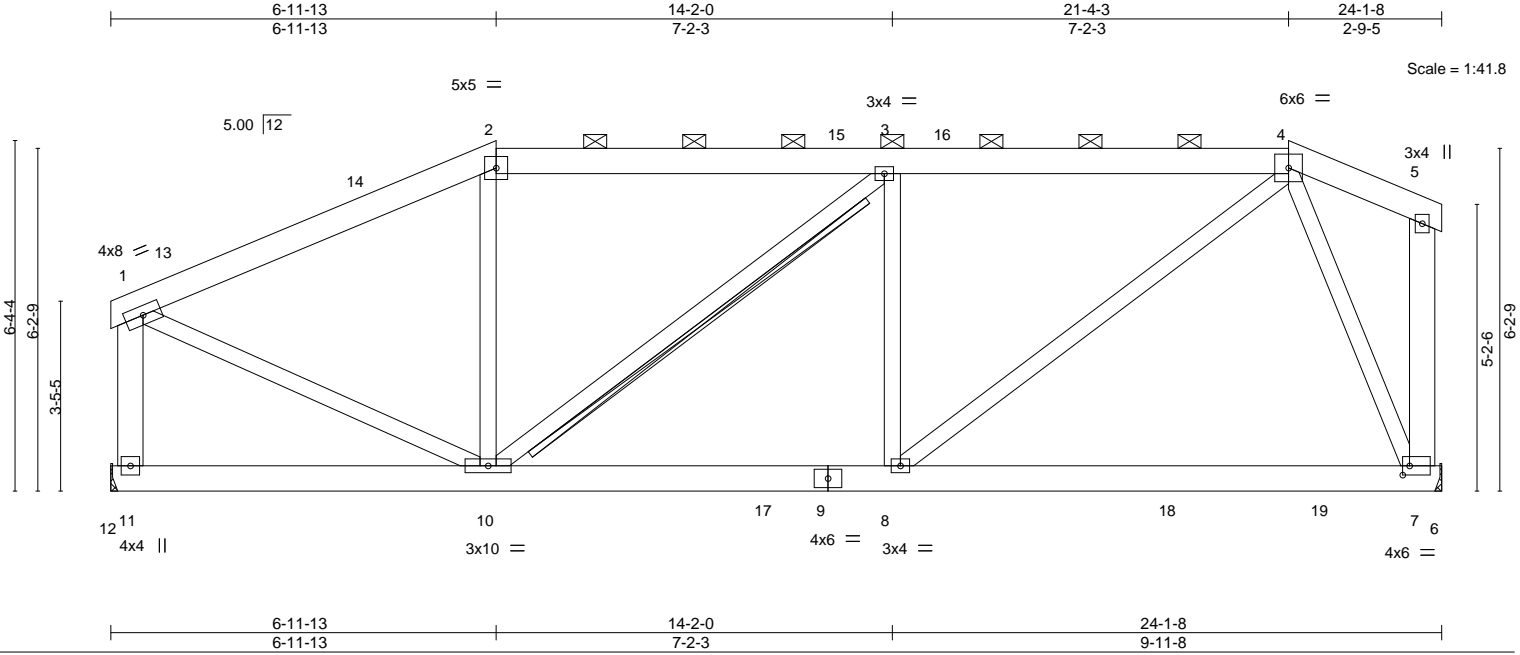


Plate Offsets (X,Y)-- [7:0-1-8,0-2-0]

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 0.23	Vert(LL)	-0.06 7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.11 7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.01 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02 8-10	>999	240	Weight: 193 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11,5-7: 2x6 SP No.1	T-Brace: 2x4 SPF No.2 - 3-10 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

**REACTIONS.** (size) 11=Mechanical, 7=Mechanical  
Max Horz 11=69(LC 12)  
Max Uplift 11=-40(LC 9), 7=-76(LC 8)  
Max Grav 11=944(LC 1), 7=990(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-928/258, 2-3=-795/297, 3-4=-1025/319, 1-11=-868/280  
BOT CHORD 8-10=-271/1024, 7-8=-118/358  
WEBS 3-10=-382/27, 3-8=-343/239, 4-8=-200/863, 1-10=-149/808, 4-7=-849/331

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 6-11-13, Exterior(2) 6-11-13 to 13-2-8, Interior(1) 13-2-8 to 21-4-3, Exterior(2) 21-4-3 to 23-9-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 11 and 76 lb uplift at joint 7.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

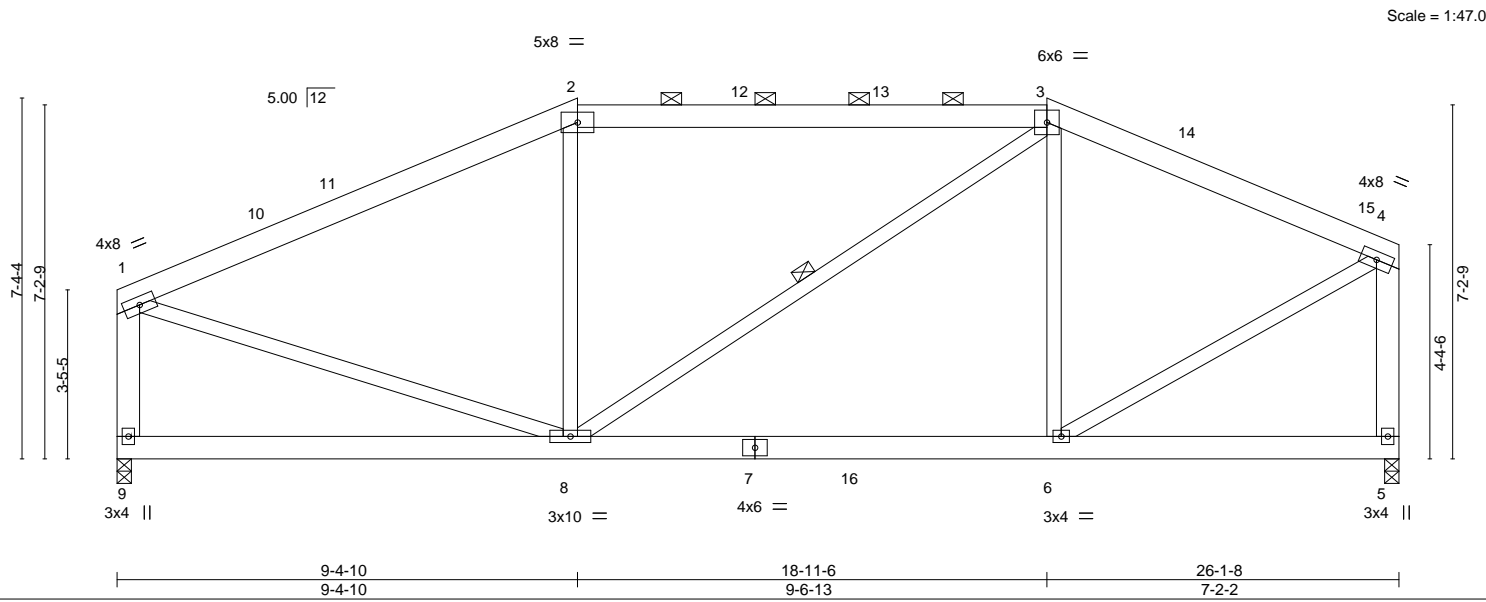


November 17, 2020



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108188
J1120-5401	A05	Hip	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:28 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYIF-n1vxgXL1pGAAvZP7MjG7g\_r?v1p37Z4XpqGai6ylHbz



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.07 6-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.13 6-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 6-8 >999 240	Weight: 201 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-8
1-9,4-5: 2x6 SP No.1	

**REACTIONS.** (size) 9=0-3-8, 5=0-3-8  
 Max Horz 9=64(LC 12)  
 Max Uplift 9=36(LC 9), 5=48(LC 8)  
 Max Grav 9=1027(LC 1), 5=1027(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1127/326, 2-3=-953/383, 3-4=-977/296, 1-9=-944/321, 4-5=-986/330  
 BOT CHORD 6-8=-197/853  
 WEBS 3-6=-277/211, 1-8=-165/896, 4-6=-201/955

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-4-10, Exterior(2) 9-4-10 to 15-7-4, Interior(1) 15-7-4 to 18-11-6, Exterior(2) 18-11-6 to 25-2-1, Interior(1) 25-2-1 to 25-10-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 9 and 48 lb uplift at joint 5.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108189
J1120-5401	A06	Hip	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:29 2020 Page 1  
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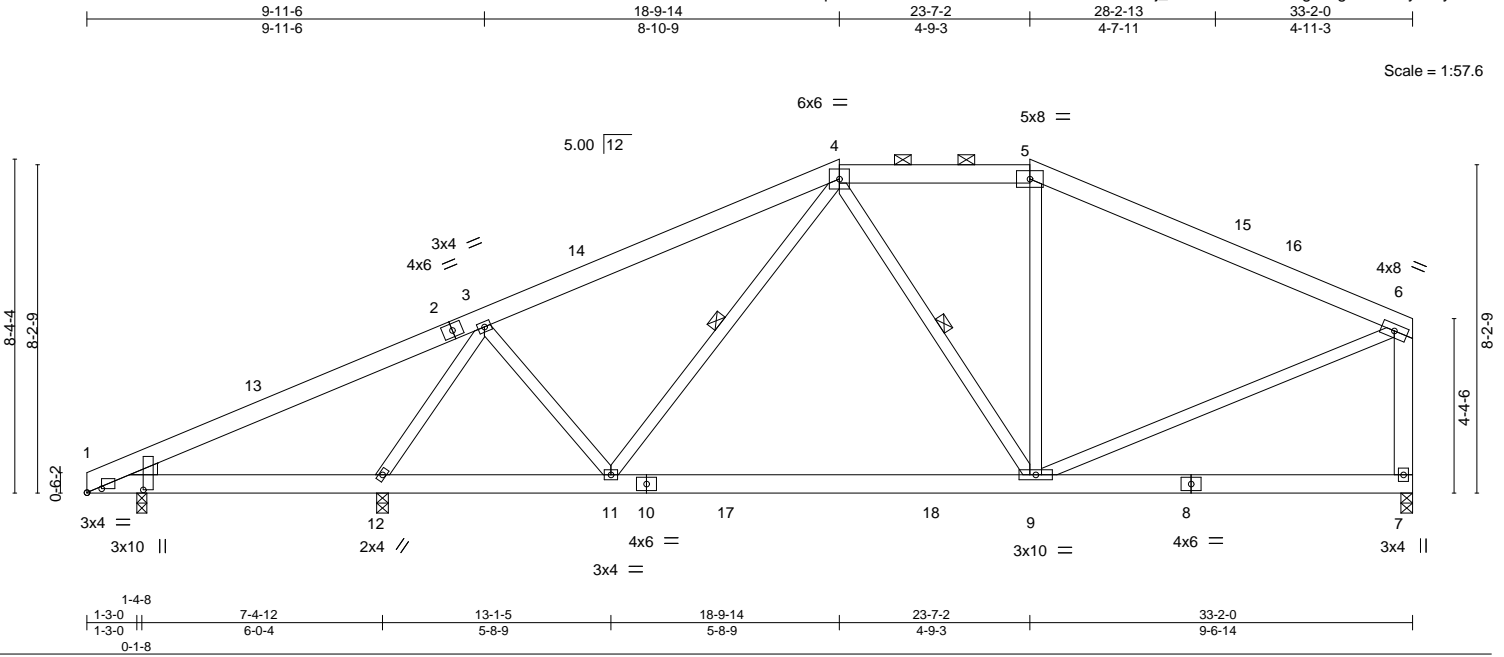


Plate Offsets (X,Y)-- [1:0-4-6,0-1-3], [1:0-0-13,1-4-14]

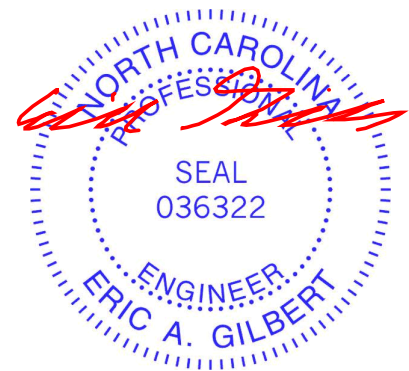
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	Vert(LL)	-0.17	9-11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.25	9-11	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	9-11	>999	Weight: 237 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-12.
WEBS 2x4 SP No.2 *Except* 6-7: 2x6 SP No.1	WEBS 1 Row at midpt 4-11, 4-9
WEDGE Left: 2x4 SP No.2	

**REACTIONS.** (size) 12=0-3-8, 7=0-3-8, 1=0-3-0  
 Max Horz 1=176(LC 12)  
 Max Uplift 12=-110(LC 12), 7=-45(LC 13), 1=-2(LC 12)  
 Max Grav 12=1394(LC 1), 7=1010(LC 1), 1=225(LC 23)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-133/289, 3-4=-1026/319, 4-5=-850/346, 5-6=-1007/301, 6-7=-931/330  
 BOT CHORD 11-12=-246/651, 9-11=-217/828  
 WEBS 3-12=-1490/470, 3-11=0/408, 6-9=-144/861

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 18-9-14, Exterior(2) 18-9-14 to 29-9-12, Interior(1) 29-9-12 to 32-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 12, 45 lb uplift at joint 7 and 2 lb uplift at joint 1.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 17, 2020



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108190
J1120-5401	A07	Common	7	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:31 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYtF-Cbb3JZOW5BYIn081spqlcTZNForKjOzVnVEJRylHbw



Scale = 1:70.3

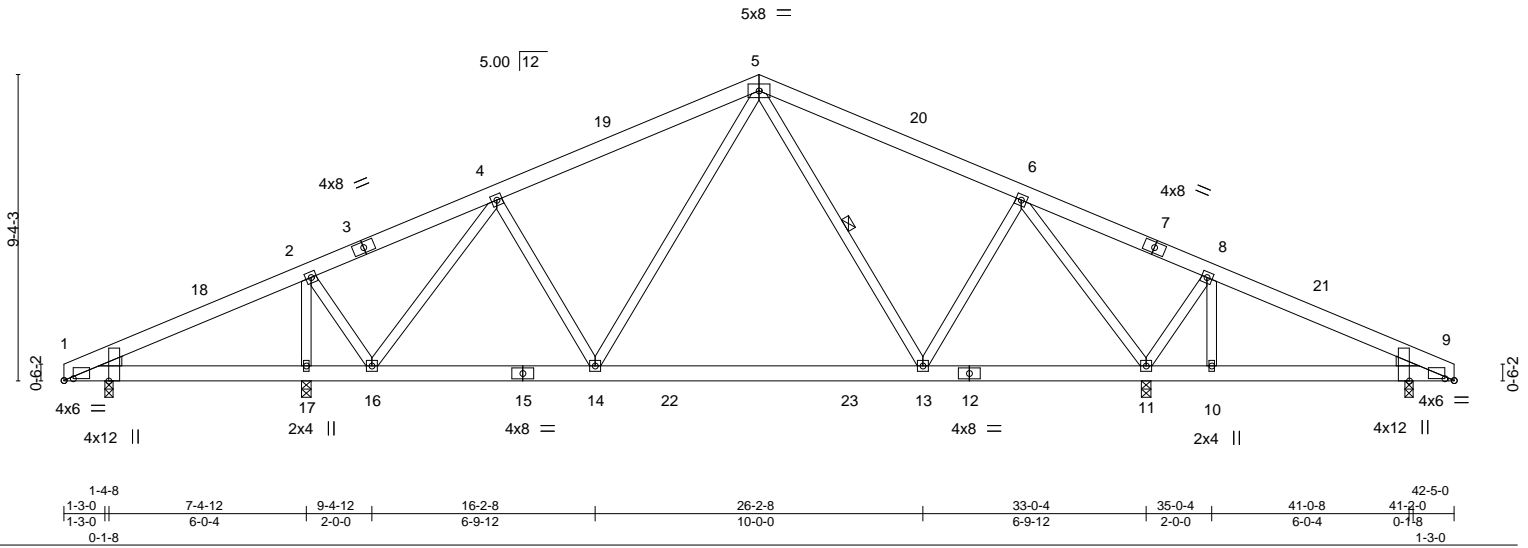


Plate Offsets (X,Y)-- [1:0-3-6,0-0-11], [1:0-0-3,Edge], [9:0-3-6,0-0-11], [9:0-0-3,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.15	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.21	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	14	>999	240		
							Weight: 293 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 1-17,16-17.
WEDGE	WEBS 1 Row at midpt 5-13
Left: 2x4 SP No.2, Right: 2x4 SP No.2	

**REACTIONS.** All bearings 0-3-8 except (jt=length) 1=0-3-0, 9=0-3-0.  
 (lb) - Max Horz 1=106(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 11=113(LC 13), 17=129(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1 except 11=1498(LC 1), 17=1394(LC 1), 9=286(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-417/177, 4-5=-981/311, 5-6=-842/280, 6-8=0/273  
 BOT CHORD 14-16=-64/770, 13-14=0/698, 11-13=-13/527  
 WEBS 4-16=-831/150, 5-14=-27/325, 6-13=0/396, 6-11=-1274/246, 8-11=-517/173,  
 2-17=-1178/321, 2-16=-96/706

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 21-2-8, Exterior(2) 21-2-8 to 25-7-5, Interior(1) 25-7-5 to 42-3-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 4x4 MT20 unless otherwise indicated.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 11=113, 17=129.



November 17, 2020



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108192
J1120-5401	A08A	Common	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:32 2020 Page 1  
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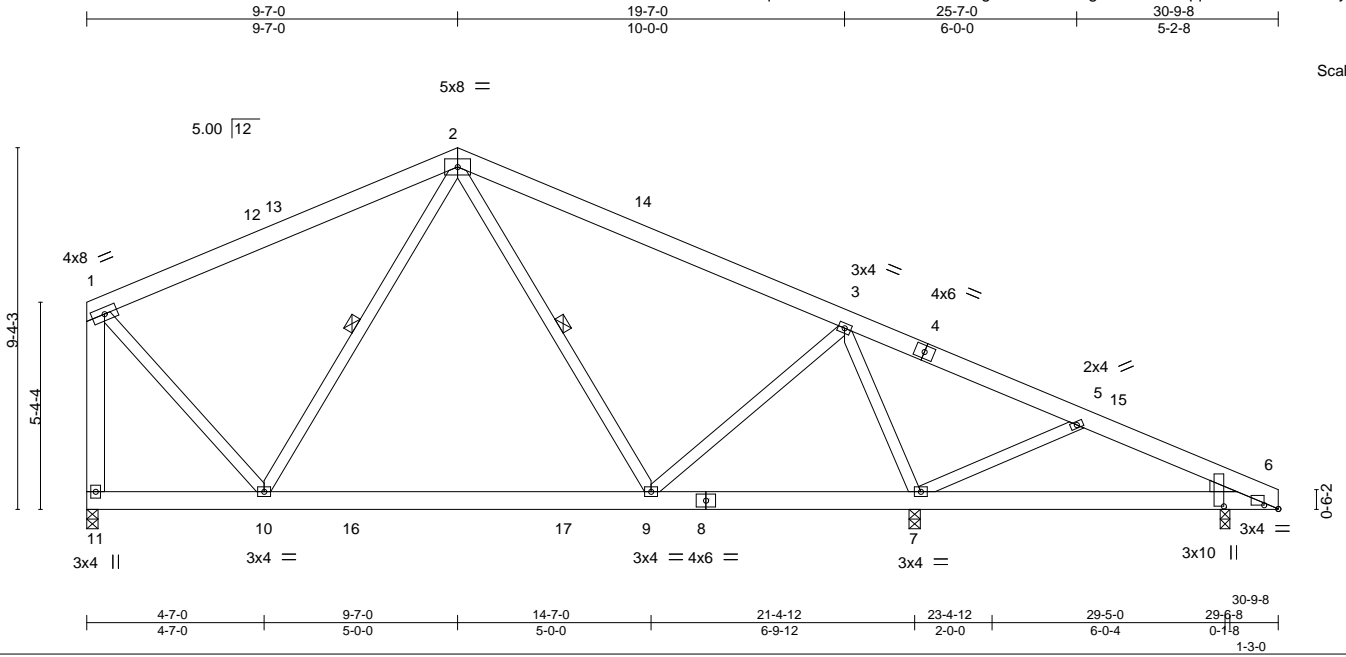


Plate Offsets (X,Y)-- [6:0-4-6,0-1-3], [6:0-0-13,1-4-14]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	-0.14	9-10	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(CT)	-0.20	9-10	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.01	9-10	>999		
	Code IRC2015/TPI2014						Weight: 224 lb	FT = 20%

**LUMBER-**

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

WEDGE  
 Right: 2x4 SP No.2

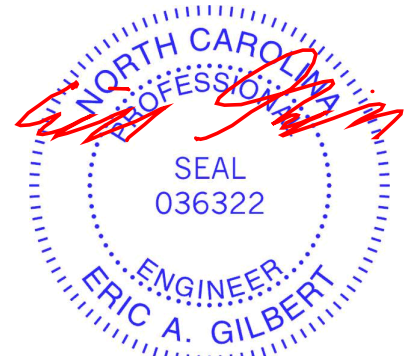
**REACTIONS.** (size) 11=0-3-8, 7=0-3-8, 6=0-3-0  
 Max Horz 11=-209(LC 13)  
 Max Uplift 11=-48(LC 12), 7=-104(LC 13), 6=-17(LC 13)  
 Max Grav 11=844(LC 2), 7=1356(LC 1), 6=271(LC 24)

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

TOP CHORD 1-2=-571/171, 2-3=-685/210, 3-5=-43/269, 1-11=-884/235  
 BOT CHORD 9-10=0/542, 7-9=0/260  
 WEBS 3-9=0/413, 3-7=-1104/302, 5-7=-376/227, 1-10=-24/629

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-7-0, Exterior(2) 9-7-0 to 13-11-13, Interior(1) 13-11-13 to 30-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6 except (jt=lb) 7=104.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108193
J1120-5401	A09	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:33 2020 Page 1  
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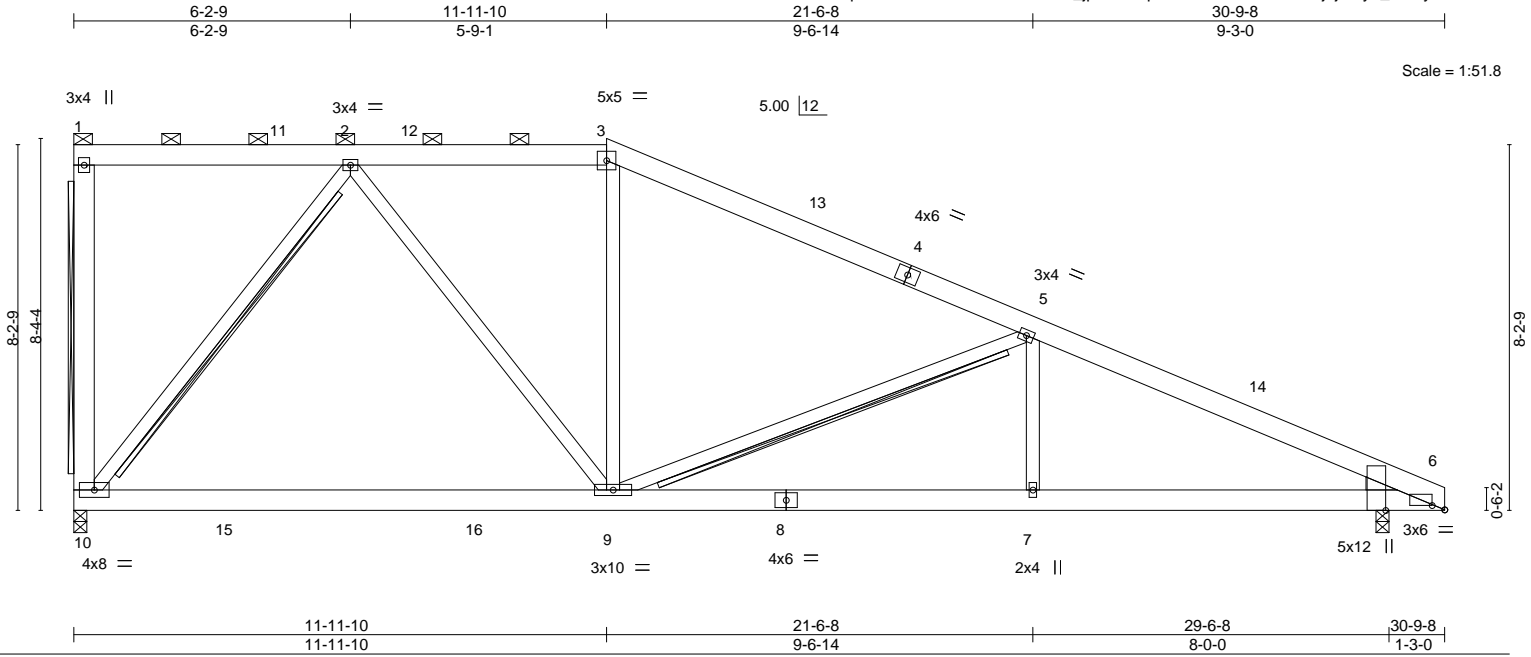


Plate Offsets (X,Y)-- [6:0-3-6,0-1-3], [6:0-0-3,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	Vert(LL)	-0.31 9-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT)	-0.46 9-10	>801	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.63	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.05 7	>999	240		
	Code IRC2015/TPI2014						Weight: 224 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 1-10: 2x6 SP No.1  
 WEDGE  
 Right: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3. Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD T-Brace: 2x4 SPF No.2 - 1-10, 2-10, 5-9  
 WEBS Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

**REACTIONS.**

(size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=-253(LC 13)  
 Max Uplift 10=-107(LC 8), 6=-71(LC 13)  
 Max Grav 10=1268(LC 2), 6=1217(LC 1)

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

TOP CHORD 2-3=-1191/323, 3-5=-1405/277, 5-6=-2414/418  
 BOT CHORD 9-10=0/754, 7-9=-303/2160, 6-7=-303/2160  
 WEBS 2-10=-1200/388, 2-9=-145/743, 5-9=-1055/328, 5-7=0/369

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 11-11-10, Exterior(2) 11-11-10 to 16-4-6, Interior(1) 16-4-6 to 30-7-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 10=107.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108194
J1120-5401	A10	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:34 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYf-cAGCxaQoO6wKeUsGj\_NXwF50ASoMX79PBjUwmyIHbt



Scale = 1:53.2

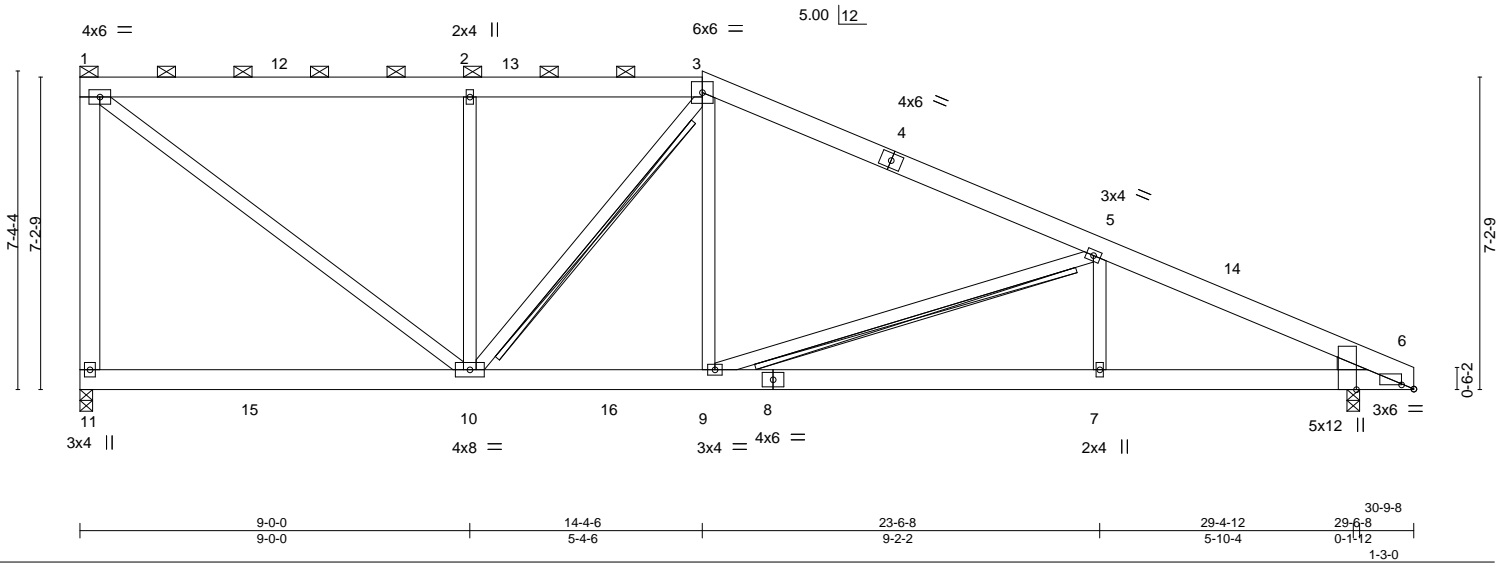


Plate Offsets (X,Y)-- [6:0-3-6,0-1-3], [6:0-0-3,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	Vert(LL)	-0.08 7-9	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(CT)	-0.18 7-9	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.05 7-9	>999	240		
	Code IRC2015/TPI2014						Weight: 227 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11: 2x6 SP No.1	T-Brace: 2x4 SPF No.2 - 3-10, 5-9
WEDGE	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.
Right: 2x4 SP No.2	Brace must cover 90% of web length.

**REACTIONS.** (size) 11=0-3-8, 6=0-3-8  
 Max Horz 11=-221(LC 13)  
 Max Uplift 11=-112(LC 8), 6=-67(LC 13)  
 Max Grav 11=1280(LC 2), 6=1217(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-11=-1129/372, 1-2=-1184/313, 2-3=-1187/315, 3-5=-1627/356, 5-6=-2566/479  
 BOT CHORD 10-11=-98/268, 9-10=-116/1389, 7-9=-380/2313, 6-7=-380/2313  
 WEBS 1-10=-383/1451, 2-10=-513/248, 3-10=-331/124, 3-9=-17/512, 5-9=-965/292, 5-7=0/354

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 14-4-6, Exterior(2) 14-4-6 to 18-9-3, Interior(1) 18-9-3 to 30-7-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 11=112.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108195
J1120-5401	A11	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:35 2020 Page 1  
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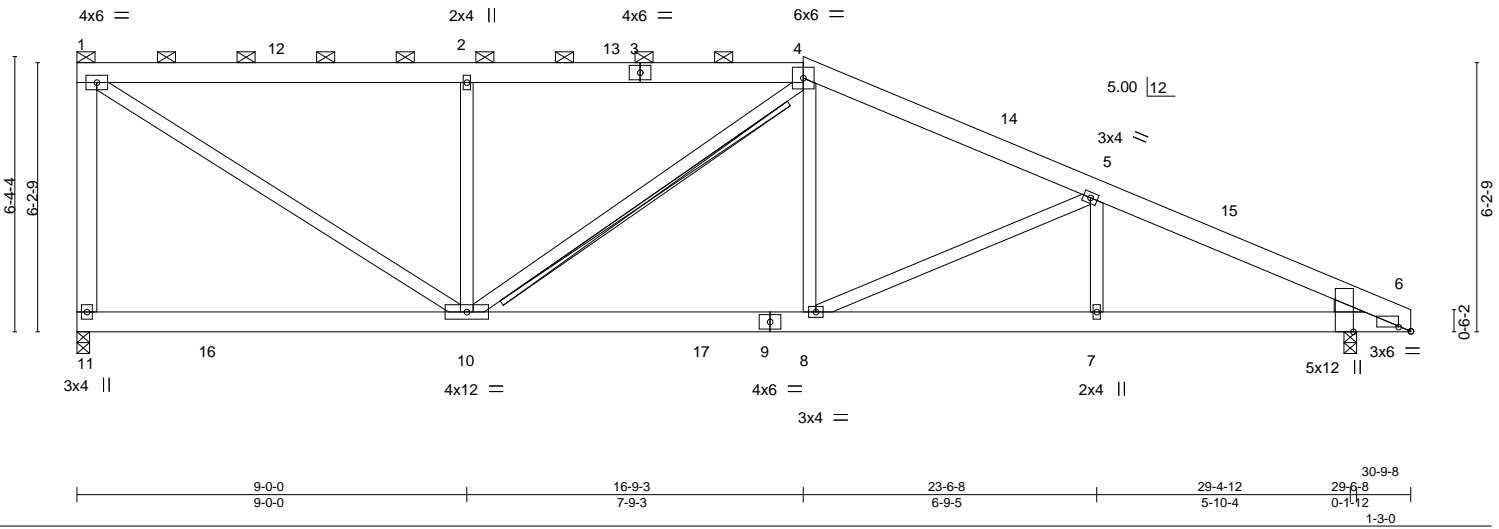


Plate Offsets (X,Y)-- [6:0-3-6,0-1-3], [6:0-0-3,Edge]

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 0.54	Vert(LL)	-0.07 7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.15 7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05 7-8	>999	240	Weight: 219 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11: 2x6 SP No.1	T-Brace: 2x4 SPF No.2 - 4-10
WEDGE	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.
Right: 2x4 SP No.2	Brace must cover 90% of web length.

**REACTIONS.** (size) 11=0-3-8, 6=0-3-8  
 Max Horz 11=-188(LC 13)  
 Max Uplift 11=-117(LC 8), 6=-59(LC 13)  
 Max Grav 11=1240(LC 2), 6=1217(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-11=-1132/361, 1-2=-1412/358, 2-4=-1412/359, 4-5=-1839/430, 5-6=-2516/514  
 BOT CHORD 8-10=-207/1615, 7-8=-407/2260, 6-7=-407/2260  
 WEBS 1-10=-415/1641, 2-10=-582/286, 4-10=-271/108, 4-8=-16/496, 5-8=-698/224, 5-7=0/287

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 16-9-3, Exterior(2) 16-9-3 to 21-2-0, Interior(1) 21-2-0 to 30-7-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 11=117.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 17, 2020

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818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108196
J1120-5401	A12	ROOF SPECIAL	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:36 2020 Page 1  
 ID:3N443qrVo5ReszoeZuaaJL3zGYtF-YZOyMGS3wkA1tn0fqPP??gALgGUW?1Xif3C??fyIHbr



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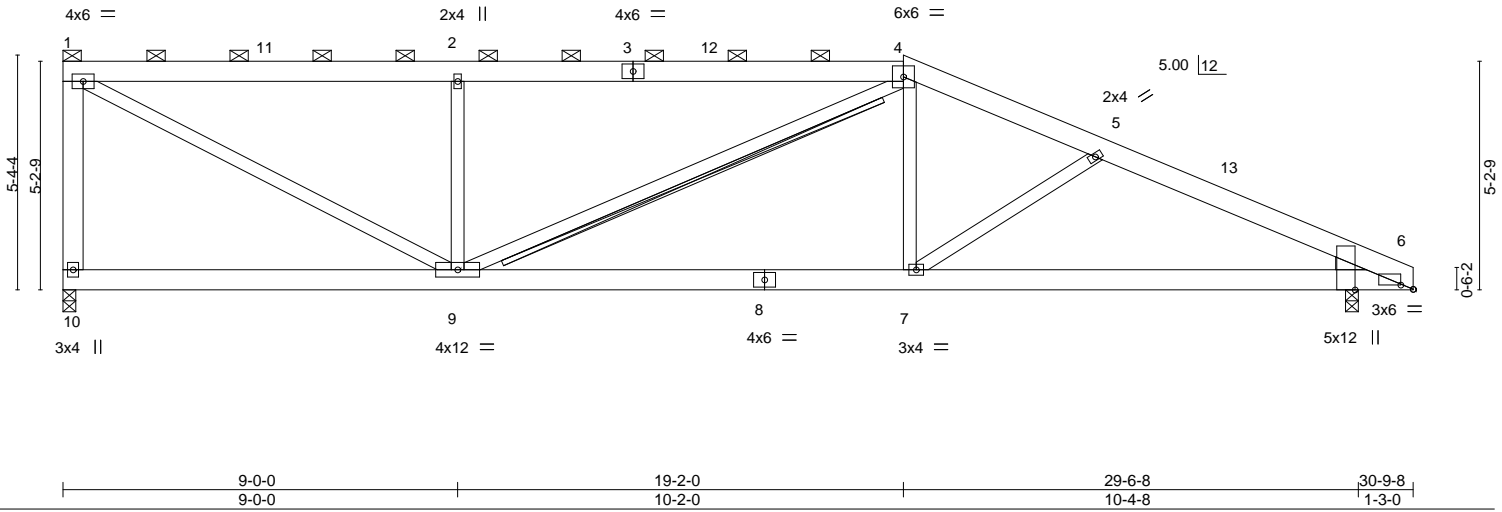


Plate Offsets (X,Y)-- [6:0-3-6,0-1-3], [6:0-0-3,Edge]

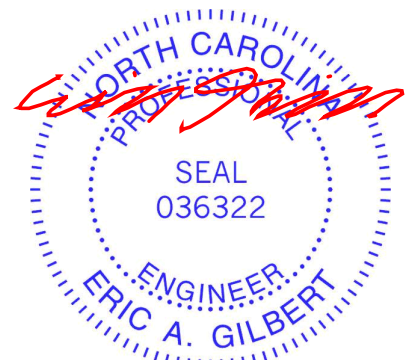
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	Vert(LL) -0.12	6-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(CT) -0.26	6-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Horz(CT) 0.04	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.06	7-9	>999	240		
	Code IRC2015/TPI2014						Weight: 208 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-5 max.): 1-4.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-10: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 4-9
WEDGE	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.
Right: 2x4 SP No.2	Brace must cover 90% of web length.

**REACTIONS.** (size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=-156(LC 13)  
 Max Uplift 10=-121(LC 8), 6=-48(LC 13)  
 Max Grav 10=1217(LC 1), 6=1217(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-10=-1132/352, 1-2=-1740/432, 2-4=-1740/433, 4-5=-2103/488, 5-6=-2437/597  
 BOT CHORD 7-9=-287/1892, 6-7=-481/2188  
 WEBS 1-9=-478/1927, 2-9=-664/325, 4-7=0/541, 5-7=-339/233

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 19-2-0, Exterior(2) 19-2-0 to 23-9-6, Interior(1) 23-9-6 to 30-7-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 10=121.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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





Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108198
J1120-5401	A14-GR	Roof Special Girder	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:40 2020 Page 2  
ID:3N43qrVo5ReszoeZuaaJL3zGYfF-RKeTCdVZ\_yhTMPKQ3FTx9WL0ftoWxuglZhAD8QyIHbn

**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 89 lb up at 0-10-12, 104 lb down and 93 lb up at 1-10-12, 104 lb down and 93 lb up at 3-10-12, 104 lb down and 93 lb up at 5-10-12, 104 lb down and 93 lb up at 7-10-12, 104 lb down and 93 lb up at 9-10-12, 104 lb down and 93 lb up at 11-10-12, 104 lb down and 93 lb up at 13-10-12, 104 lb down and 93 lb up at 15-10-12, 104 lb down and 93 lb up at 17-10-12, 104 lb down and 93 lb up at 19-10-12, 104 lb down and 93 lb up at 21-10-12, 104 lb down and 93 lb up at 23-11-10, and 89 lb down and 54 lb up at 25-10-12, and 110 lb down and 74 lb up at 27-10-12 on top chord, and 76 lb down at 0-10-12, 69 lb down at 1-10-12, 69 lb down at 3-10-12, 69 lb down at 5-10-12, 69 lb down at 7-10-12, 69 lb down at 9-10-12, 69 lb down at 11-10-12, 69 lb down at 13-10-12, 69 lb down at 15-10-12, 69 lb down at 17-10-12, 69 lb down at 19-10-12, 69 lb down at 21-10-12, 69 lb down at 23-10-12, and 63 lb down at 25-10-12, and 77 lb down at 27-10-12 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: 1-5=-60, 5-6=-60, 6-11=-20

Concentrated Loads (lb)

Vert: 5=-104(F) 10=-35(F) 2=-104(F) 8=-35(F) 7=-35(F) 4=-104(F) 12=-114(F) 13=-104(F) 14=-104(F) 15=-104(F) 16=-104(F) 17=-104(F) 18=-104(F) 19=-104(F) 20=-104(F) 21=-104(F) 22=-89(F) 23=-110(F) 24=-38(F) 25=-35(F) 26=-35(F) 27=-35(F) 28=-35(F) 29=-35(F) 30=-35(F) 31=-35(F) 32=-35(F) 33=-35(F) 34=-50(F) 35=-58(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108199
J1120-5401	B1-GR	ROOF SPECIAL GIRDER	1	2		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:42 2020 Page 1  
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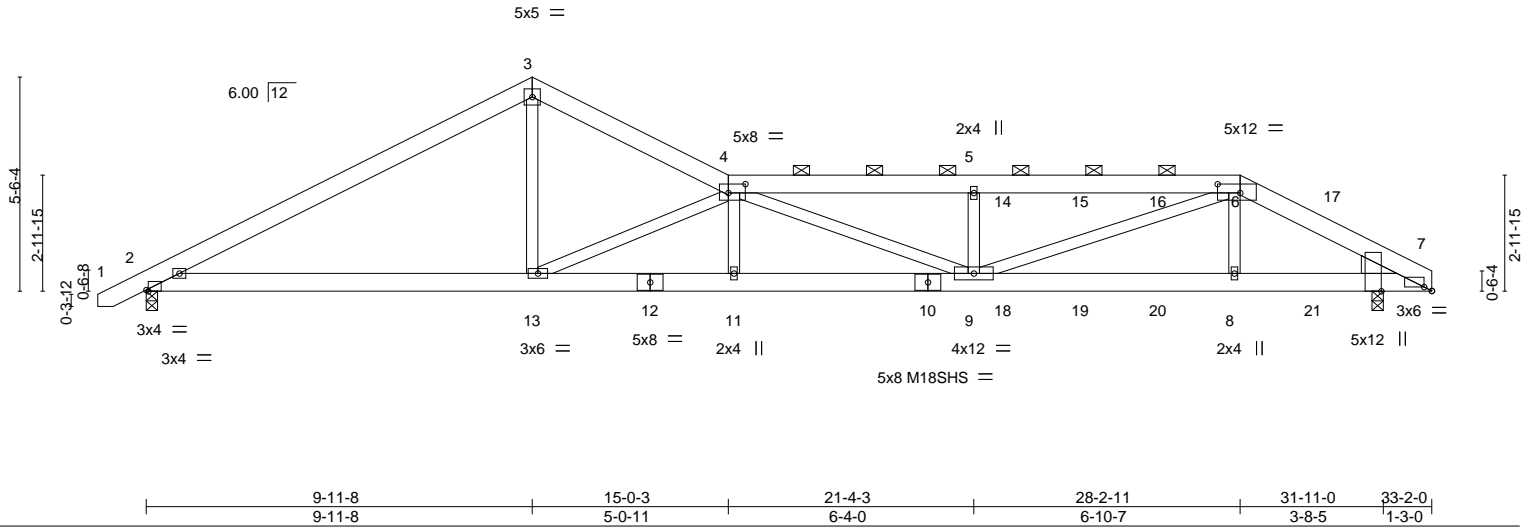


Plate Offsets (X,Y)-- [2:0-0-10,Edge], [4:0-5-4,0-2-12], [6:0-7-0,0-2-12], [7:0-2-6,Edge], [7:0-0-2,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.22	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.44	9-11	>896	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.72	Horz(CT) 0.07	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.18	9-11	>999	240		
							Weight: 421 lb	FT = 20%

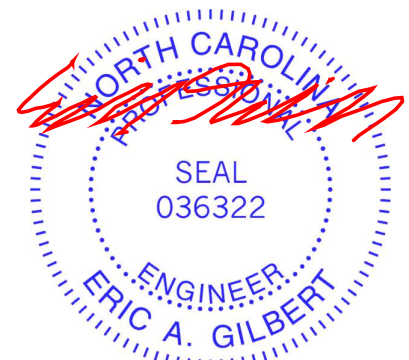
**LUMBER-**  
 TOP CHORD 2x6 SP 2400F 2.0E  
 BOT CHORD 2x6 SP 2400F 2.0E  
 WEBS 2x4 SP No.2  
 WEDGE  
 Right: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8  
 Max Horz 2=73(LC 7)  
 Max Uplift 2=158(LC 8), 7=319(LC 9)  
 Max Grav 2=2082(LC 1), 7=2768(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3765/355, 3-4=-3633/346, 4-5=-9239/1060, 5-6=-9240/1060, 6-7=-5574/643  
 BOT CHORD 2-13=-179/3234, 11-13=-785/8325, 9-11=-784/8343, 8-9=-518/4902, 7-8=-527/4890  
 WEBS 3-13=-197/2738, 4-13=-5688/678, 4-11=0/334, 4-9=-473/1099, 5-9=-568/265, 6-9=-489/4619, 6-8=0/456

- 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 0-7-0 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDD=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 7=319.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 90 lb up at 22-1-4, 153 lb down and 90 lb up at 24-1-4, 153 lb down and 90 lb up at 26-1-4, and 153 lb down and 90 lb up at 28-2-11, and 158 lb down and 84 lb up at 30-1-4 on top chord, and 1363 lb down and 149 lb up at 20-0-8, 75 lb down at 22-1-4, 75 lb down at 24-1-4, 75 lb down at 26-1-4, and 75 lb down at 28-1-4, and 84 lb down at 30-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



November 17, 2020

Continued on page 2

**LOAD CASE(S) Standard**

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

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108199
J1120-5401	B1-GR	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:42 2020 Page 2  
 ID:3N43qrVo5ReszoeZuaaJL3zGYfF-NjIdcJWpWaxBbiTpBgWPEXQOtgX2PmAa1?fKClyIHbl

**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, 6-7=-60, 2-7=-20

Concentrated Loads (lb)

Vert: 6=-113(F) 8=-38(F) 10=-1363(F) 14=-113(F) 15=-113(F) 16=-113(F) 17=-118(F) 18=-38(F) 19=-38(F) 20=-38(F) 21=-66(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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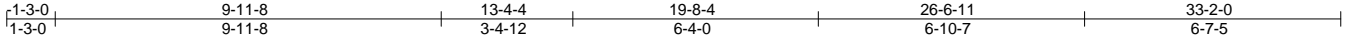


Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108200
J1120-5401	B2	ROOF SPECIAL GIRDER	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:43 2020 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-rvJbqfXSHt32Ds2?kN1en8zXD4sK8EQkGfPtkiylHbk



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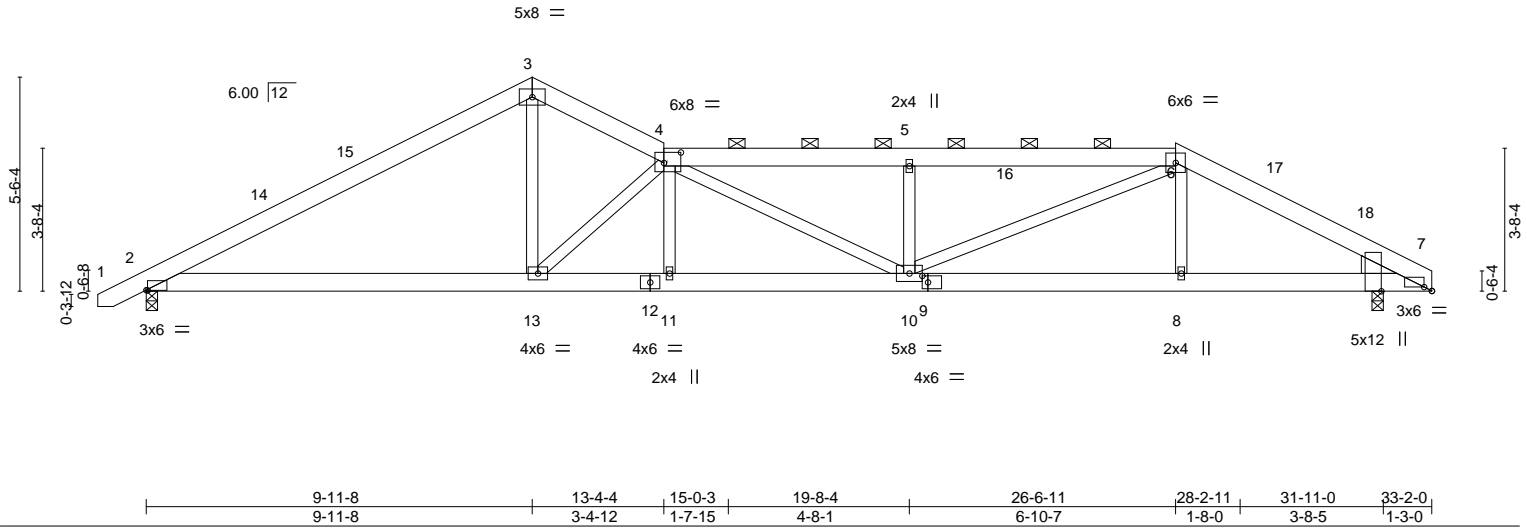


Plate Offsets (X,Y)--	[2:0-0-6,0-0-2], [4:0-5-4,0-3-4], [7:0-0-2,Edge], [7:0-2-6,Edge], [9:0-1-12,0-2-0]
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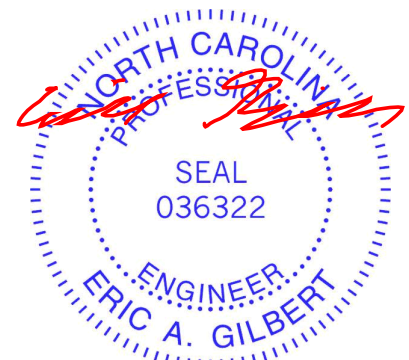
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.15	10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.30	10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.07	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	10-11	>999	240	Weight: 213 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (4-1-2 max.): 4-6.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-9-2 oc bracing.
WEDGE	
Right: 2x6 SP No.1	

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8  
 Max Horz 2=73(LC 9)  
 Max Uplift 2=57(LC 12), 7=119(LC 13)  
 Max Grav 2=1388(LC 1), 7=1314(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2253/523, 3-4=-2135/577, 4-5=-3295/849, 5-6=-3295/849, 6-7=-2491/603  
 BOT CHORD 2-13=-340/1888, 11-13=-652/3143, 10-11=-650/3144, 8-10=-444/2140, 7-8=-441/2148  
 WEBS 3-13=-249/1461, 4-13=-1746/463, 4-10=-65/274, 5-10=-493/234, 6-10=-279/1278,  
 6-8=0/296

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 9-11-8, Exterior(2) 9-11-8 to 13-4-4, Interior(1) 13-4-4 to 26-6-11, Exterior(2) 26-6-11 to 30-11-8, Interior(1) 30-11-8 to 33-0-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=119.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108201
J1120-5401	B3	ROOF SPECIAL GIRDER	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:44 2020 Page 1  
 ID:3N443qrVo5ReszoeZuaaJL3zGYtF-J6t\_1?Y41BBvq0dBI4YtKMWjKUBytI9tUJ8QHByIHbj



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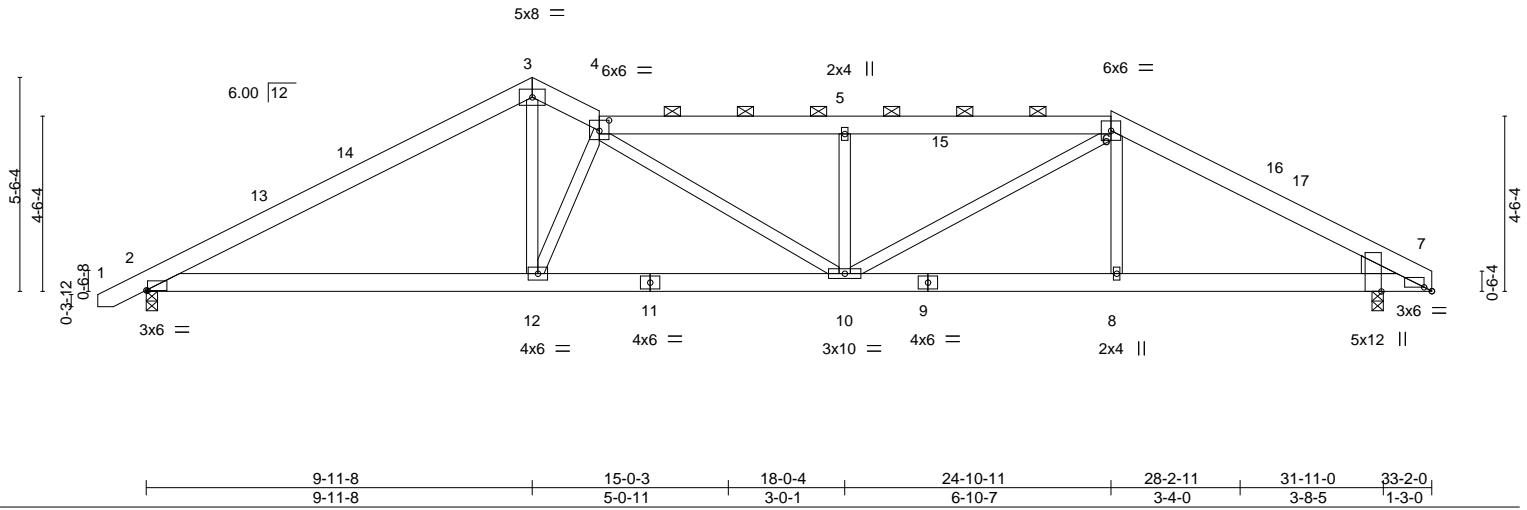


Plate Offsets (X,Y)--	[2:0-0-6,0-0-2], [4:0-3-0,0-3-4], [7:0-2-6,Edge], [7:0-0-2,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.11	10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.22	10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.06	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	10	>999	240	Weight: 213 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (4-6-15 max.): 4-6.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Right: 2x6 SP No.1	

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8  
 Max Horz 2=73(LC 11)  
 Max Uplift 2=57(LC 12), 7=119(LC 13)  
 Max Grav 2=1388(LC 1), 7=1314(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2258/530, 3-4=-2079/574, 4-5=-2693/725, 5-6=-2693/725, 6-7=-2384/570  
 BOT CHORD 2-12=-349/1894, 10-12=-478/2398, 8-10=-393/2026, 7-8=-390/2033  
 WEBS 3-12=-229/1438, 4-12=-1321/353, 4-10=-89/459, 5-10=-480/226, 6-10=-173/776, 6-8=0/343

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 9-11-8, Exterior(2) 9-11-8 to 11-8-4, Interior(1) 11-8-4 to 24-10-11, Exterior(2) 24-10-11 to 29-3-8, Interior(1) 29-3-8 to 33-0-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=119.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

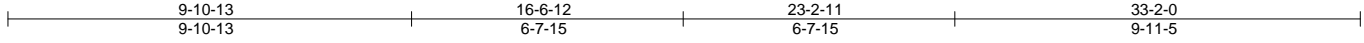


November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108202
J1120-5401	B4	HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:45 2020 Page 1  
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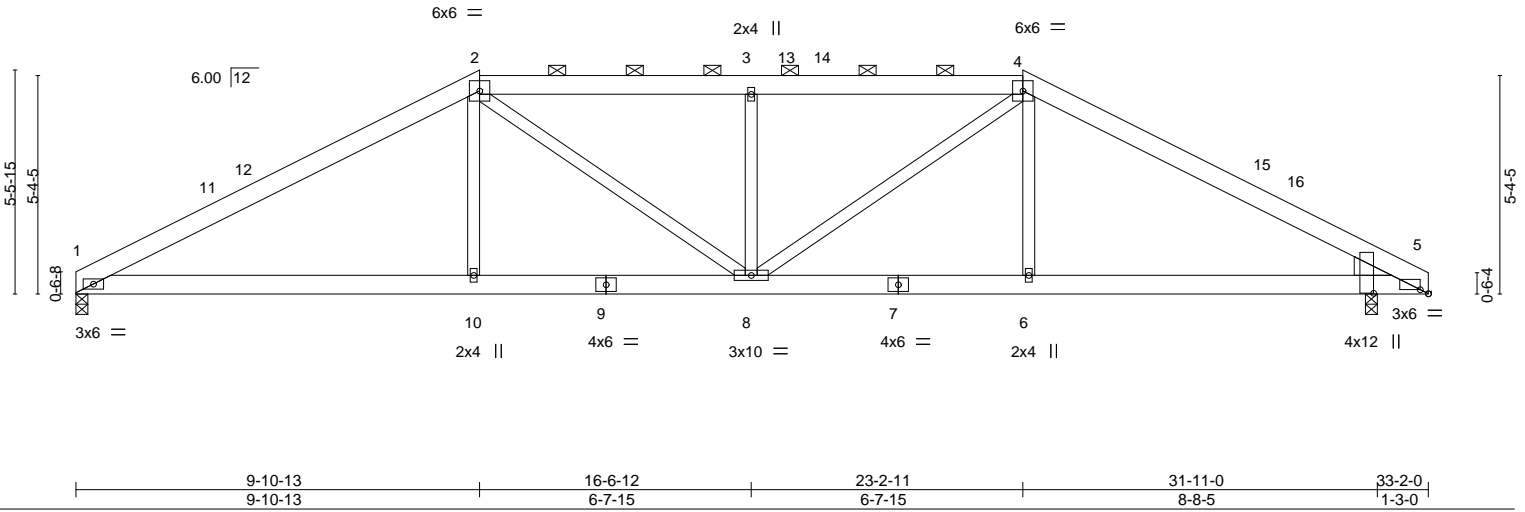


Plate Offsets (X,Y)--	[5:0-2-6,Edge], [5:0-0-2,1-4-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	Vert(LL)	-0.08	8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(CT)	-0.18	5-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.06	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.06	8	>999		
	Code IRC2015/TPI2014						Weight: 207 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except 2-0-0 oc purlins (5-1-11 max.): 2-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8  
 Max Horz 1=-65(LC 8)  
 Max Uplift 1=-39(LC 12), 5=-40(LC 13)  
 Max Grav 1=1315(LC 1), 5=1315(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2278/575, 2-3=-2237/672, 3-4=-2237/672, 4-5=-2282/577  
 BOT CHORD 1-10=-399/1918, 8-10=-402/1911, 6-8=-389/1917, 5-6=-386/1924  
 WEBS 2-10=0/399, 2-8=-121/555, 3-8=-434/187, 4-8=-121/549, 4-6=0/401

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-10-13, Exterior(2) 9-10-13 to 16-1-7, Interior(1) 16-1-7 to 23-2-11, Exterior(2) 23-2-11 to 29-5-5, Interior(1) 29-5-5 to 33-0-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

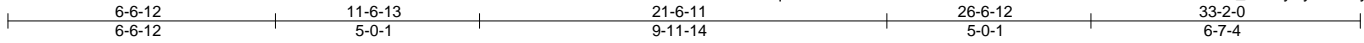


November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108203
J1120-5401	B5	HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:46 2020 Page 1  
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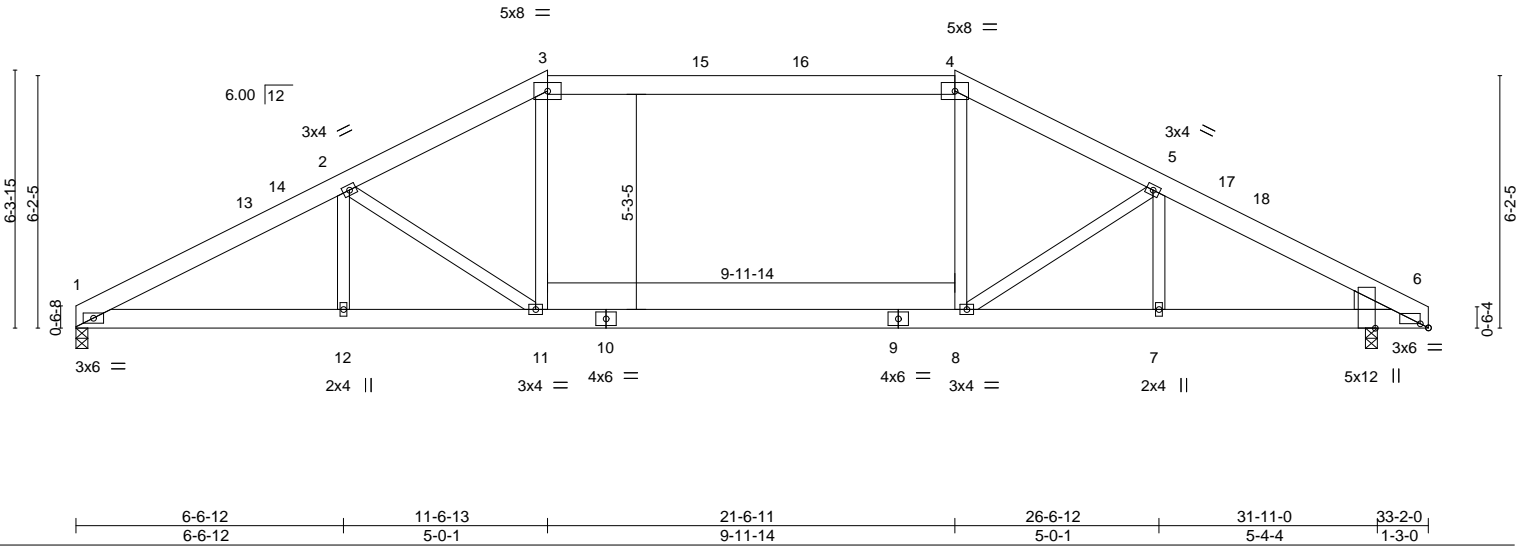


Plate Offsets (X, Y)--	[6:0-2-6,Edge], [6:0-0-2,Edge]
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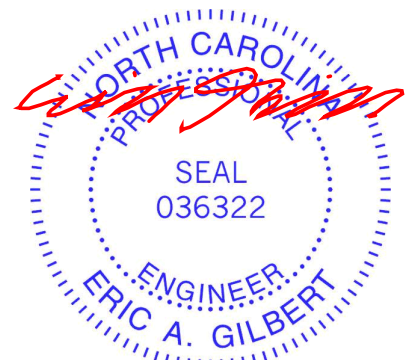
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.24	8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.35	8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.07	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	8	>999	240		
							Weight: 205 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (4-6-10 max.): 3-4.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Right: 2x6 SP No.1	

**REACTIONS.** (size) 1=0-3-8, 6=0-3-8  
 Max Horz 1=-75(LC 8)  
 Max Uplift 1=-51(LC 12), 6=-52(LC 13)  
 Max Grav 1=1382(LC 2), 6=1382(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2570/642, 2-3=-2338/593, 3-4=-2044/570, 4-5=-2339/593, 5-6=-2581/645  
 BOT CHORD 1-12=-509/2232, 11-12=-509/2232, 8-11=-323/2044, 7-8=-500/2245, 6-7=-500/2245  
 WEBS 2-11=-492/225, 3-11=-5/615, 4-8=-6/619, 5-8=-506/229

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-6-13, Exterior(2) 11-6-13 to 17-9-7, Interior(1) 17-9-7 to 21-6-11, Exterior(2) 21-6-11 to 27-9-5, Interior(1) 27-9-5 to 33-0-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



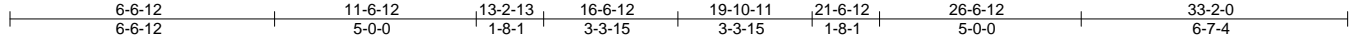
November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108204
J1120-5401	B6	HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:47 2020 Page 1

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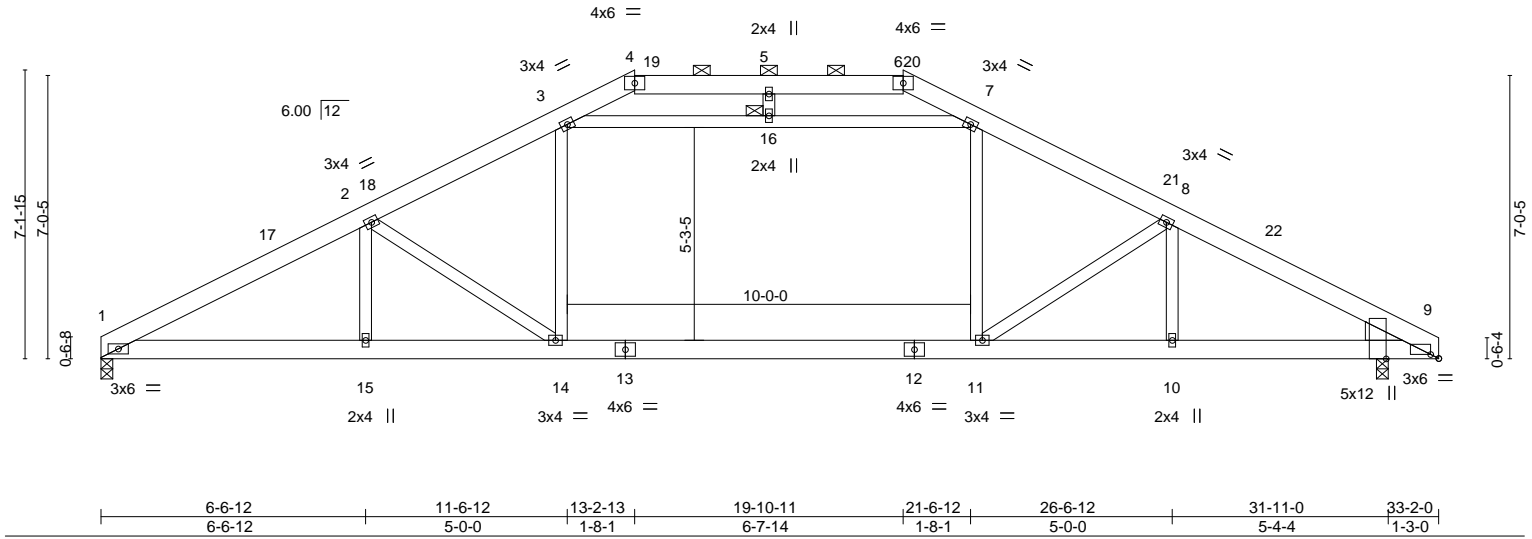


Plate Offsets (X,Y)--	[9:0-2-6,Edge], [9:0-0-2,Edge]
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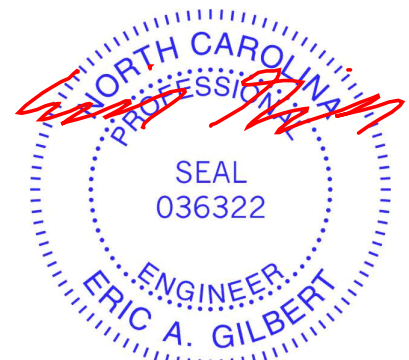
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL) -0.24	11-14	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT) -0.35	11-14	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Horz(CT) 0.06	9	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.11	11	>999	240		
	Code IRC2015/TPI2014						Weight: 222 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 16
WEDGE	
Right: 2x6 SP No.1	

**REACTIONS.** (size) 1=0-3-8, 9=0-3-8  
 Max Horz 1=-86(LC 8)  
 Max Uplift 1=-62(LC 12), 9=-62(LC 13)  
 Max Grav 1=1383(LC 2), 9=1382(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2582/631, 2-3=-2310/582, 3-4=-880/424, 4-5=-819/404, 5-6=-819/404, 6-7=-879/424, 7-8=-2311/582, 8-9=-2593/633  
 BOT CHORD 1-15=-500/2246, 14-15=-500/2246, 11-14=-304/2001, 10-11=-492/2260, 9-10=-492/2260  
 WEBS 2-14=-605/238, 8-11=-619/242, 3-16=-1208/175, 7-16=-1208/175, 3-14=-26/662, 7-11=-27/666

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-2-13, Exterior(2) 13-2-13 to 19-5-7, Interior(1) 19-5-7 to 19-10-11, Exterior(2) 19-10-11 to 26-1-5, Interior(1) 26-1-5 to 33-0-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
  - 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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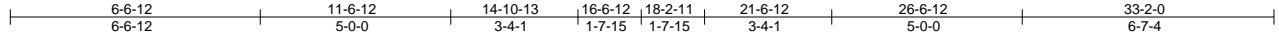


Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108205
J1120-5401	B7	HIP	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:48 2020 Page 1

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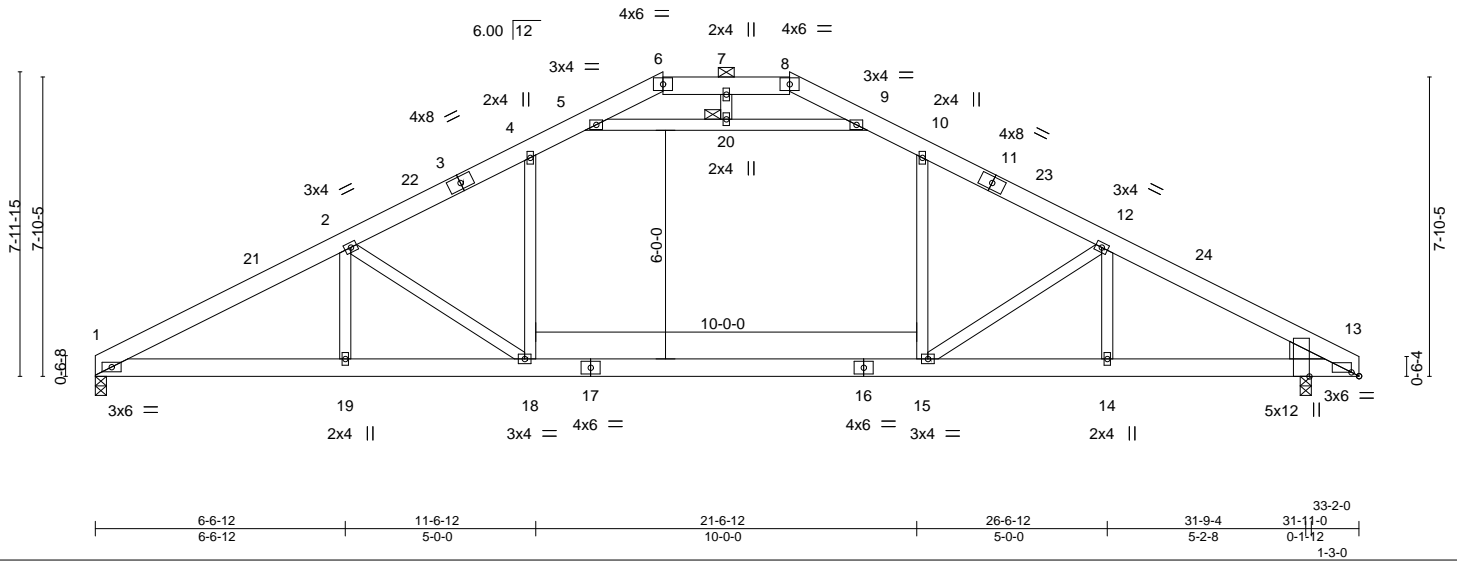


Plate Offsets (X,Y)-- [13:0-2-6,Edge], [13:0-0-2,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.27 15-18	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT)	-0.41 15-18	>951	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Horz(CT)	0.06 13	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.13 18	>999	240	Weight: 219 lb	FT = 20%
	Code IRC2015/TPI2014							

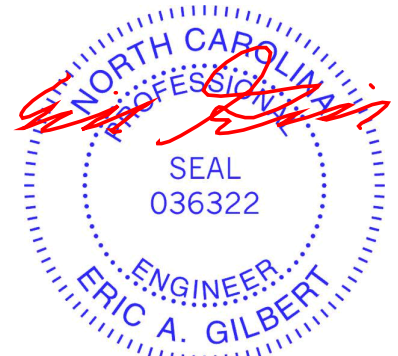
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 WEDGE  
 Right: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except  
 2-0-0 oc purlins (6-0-0 max.): 6-8.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 20

**REACTIONS.** (size) 1=0-3-8, 13=0-3-8  
 Max Horz 1=-97(LC 8)  
 Max Uplift 1=-71(LC 12), 13=-72(LC 13)  
 Max Grav 1=1383(LC 2), 13=1382(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2603/584, 2-4=-2274/546, 4-5=-1841/539, 9-10=-1840/539, 10-12=-2275/547,  
 12-13=-2614/586  
 BOT CHORD 1-19=-459/2280, 18-19=-459/2280, 15-18=-266/1929, 14-15=-450/2285, 13-14=-450/2285  
 WEBS 2-18=-697/234, 12-15=-711/238, 4-18=-38/726, 10-15=-39/730, 5-20=-2041/407,  
 9-20=-2041/407

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 14-10-13, Exterior(2) 14-10-13 to 24-5-5, Interior(1) 24-5-5 to 33-0-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



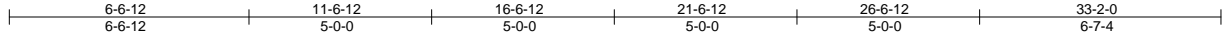
818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108206
J1120-5401	B8	Common	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:49 2020 Page 1  
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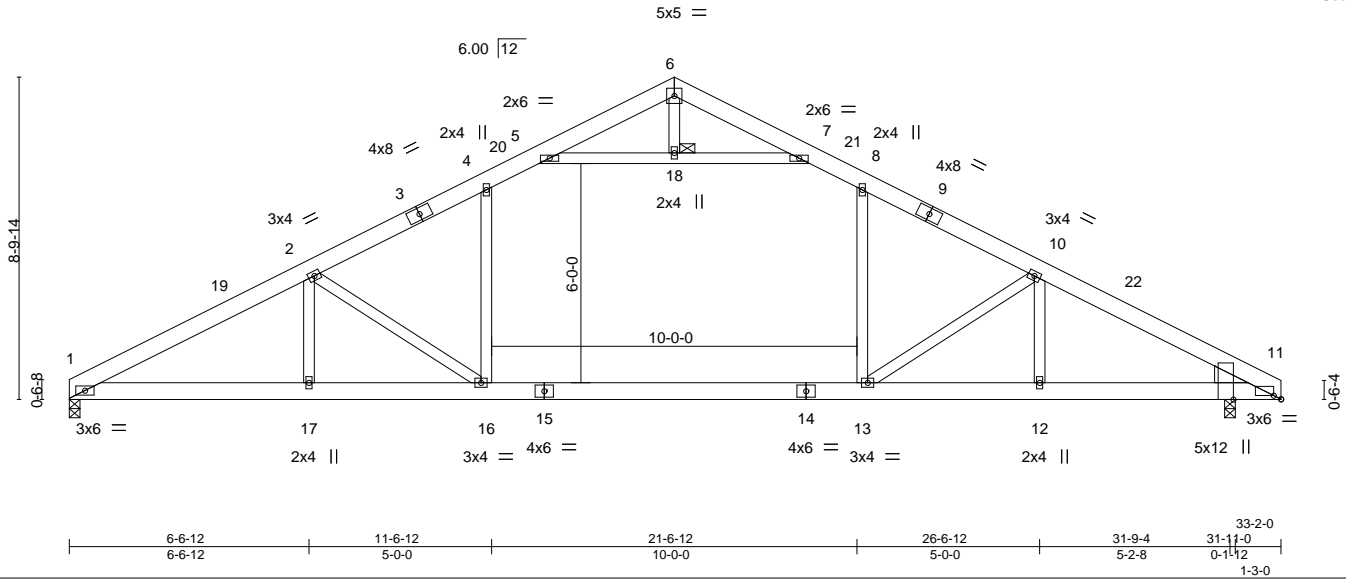


Plate Offsets (X,Y)-- [11:0-2-6,Edge], [11:0-0-2,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.27 13-16	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT)	-0.41 13-16	>951	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.41	Horz(CT)	0.06 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.14 16	>999	240	Weight: 221 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 18

**REACTIONS.** (size) 1=0-3-8, 11=0-3-8  
 Max Horz 1=109(LC 11)  
 Max Uplift 1=-79(LC 12), 11=-79(LC 13)  
 Max Grav 1=1383(LC 2), 11=1382(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2603/531, 2-4=-2273/482, 4-5=-1839/479, 7-8=-1838/479, 8-10=-2274/482, 10-11=-2615/533  
 BOT CHORD 1-17=-379/2323, 16-17=-379/2323, 13-16=-207/1927, 12-13=-380/2285, 11-12=-380/2285  
 WEBS 2-16=-707/209, 10-13=-720/211, 4-16=-28/728, 8-13=-28/732, 5-18=-1965/396, 7-18=-1965/396

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 16-6-12, Exterior(2) 16-6-12 to 20-11-8, Interior(1) 20-11-8 to 33-0-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.



November 17, 2020

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Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108207
J1120-5401	C1	COMMON	3	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:50 2020 Page 1  
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-8FEF12crd1x2Yx5LFLfHZdlVviDXnmtFblUryIHbd



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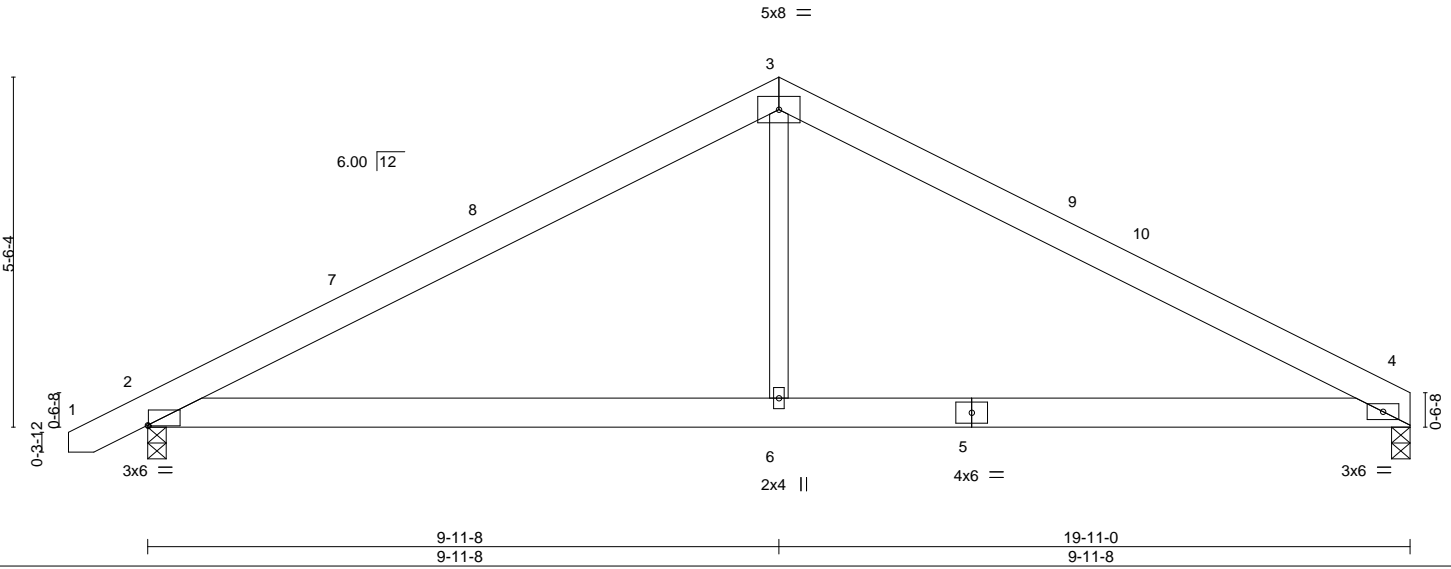


Plate Offsets (X,Y)-- [2:0-0-2,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.05	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.12	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	2-6	>999	240	Weight: 109 lb	FT = 20%

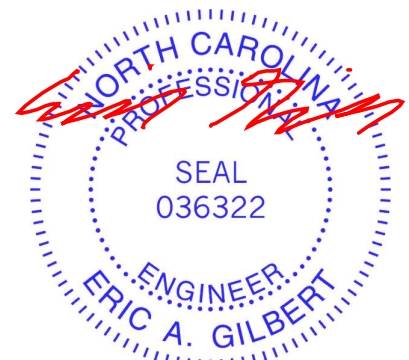
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-11-3 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=0-3-8, 2=0-3-8  
 Max Horz 2=73(LC 11)  
 Max Uplift 4=-47(LC 13), 2=-64(LC 12)  
 Max Grav 4=783(LC 1), 2=859(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1126/268, 3-4=-1123/279  
 BOT CHORD 2-6=-109/888, 4-6=-109/888  
 WEBS 3-6=0/480

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-10 to 3-4-3, Interior(1) 3-4-3 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 19-9-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



November 17,2020

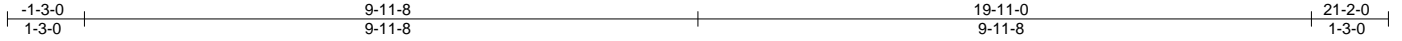
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

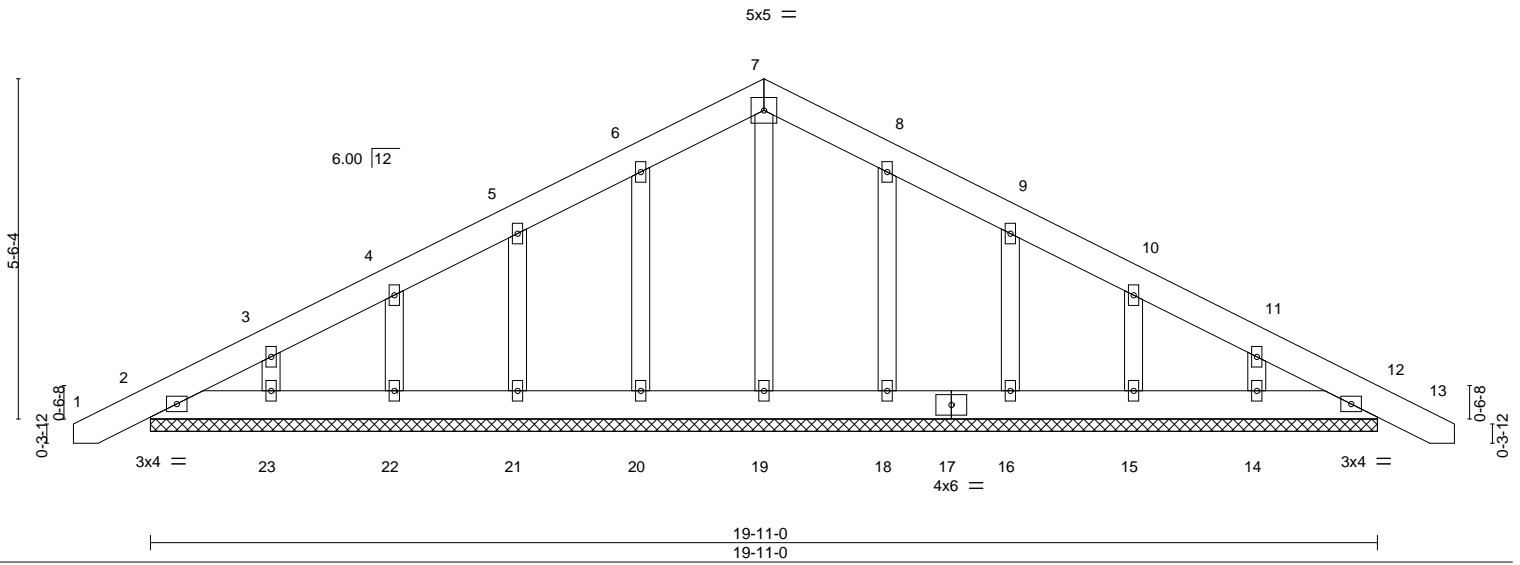
Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108208
J1120-5401	C1GE	COMMON SUPPORTED GAB	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:51 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYf-cSodVOdTOL3vA5fYC3AW6qI2xJjy0?2v5vL11HylHbc



Scale = 1:37.4



<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 0.03	Vert(LL)	-0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 138 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

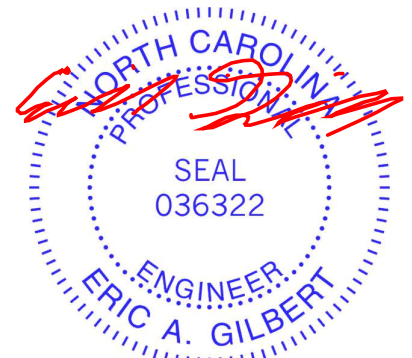
**REACTIONS.**

All bearings 19-11-0.  
 (lb) - Max Horz 2=111(LC 16)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 16, 15, 14, 12  
 Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 18, 16, 15, 14, 12

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 18, 16, 15, 14, 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



November 17, 2020

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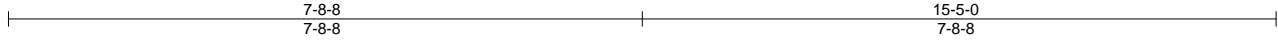


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108209
J1120-5401	D1	COMMON	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:52 2020 Page 1  
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-4eM?jke59eBmoFEkmmhle2r9ii?EIRg3KZ4rZjylHbb



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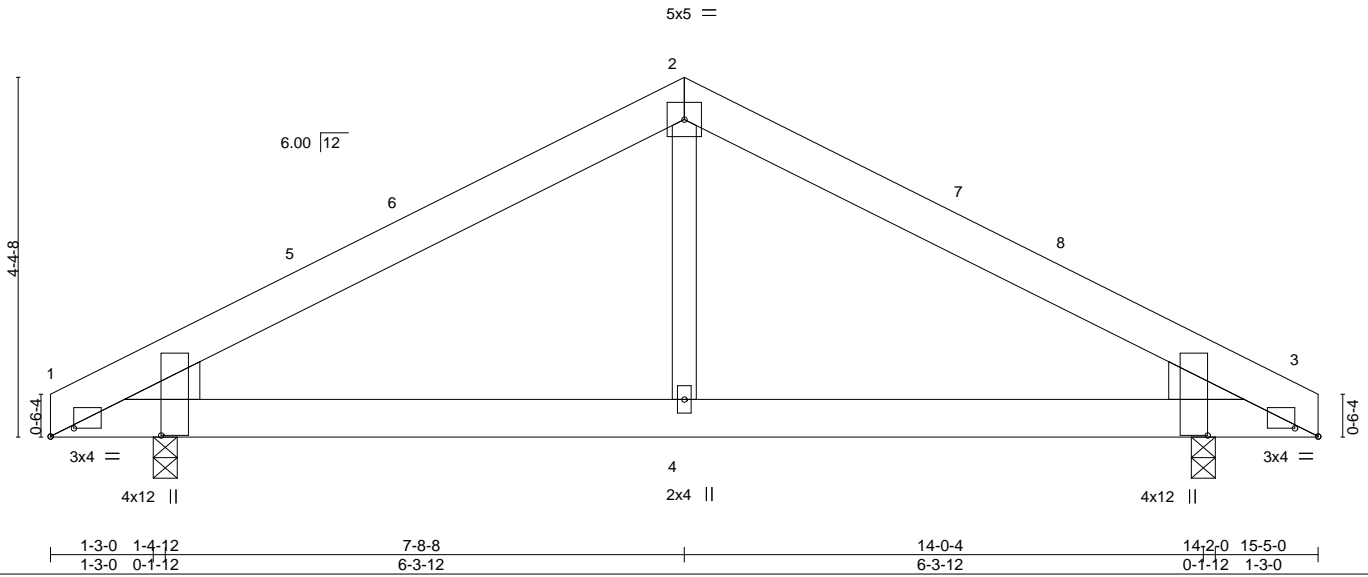


Plate Offsets (X,Y)-- [1:0-3-6,0-1-3], [1:0-0-2,1-4-2], [3:0-3-6,0-1-3], [3:0-0-2,1-4-2]

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 0.28	Vert(LL)	-0.02 1-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.05 1-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.01 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.01 1-4	>999	240	Weight: 87 lb	FT = 20%

**LUMBER-**

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

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

**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.

**REACTIONS.**

(size) 1=0-3-8, 3=0-3-8  
Max Horz 1=-51(LC 10)  
Max Uplift 1=-36(LC 12), 3=-36(LC 13)  
Max Grav 1=605(LC 1), 3=605(LC 1)

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

TOP CHORD 1-2=-865/249, 2-3=-865/249  
BOT CHORD 1-4=-108/684, 3-4=-108/684  
WEBS 2-4=0/368

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 7-8-8, Exterior(2) 7-8-8 to 12-1-5, Interior(1) 12-1-5 to 15-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

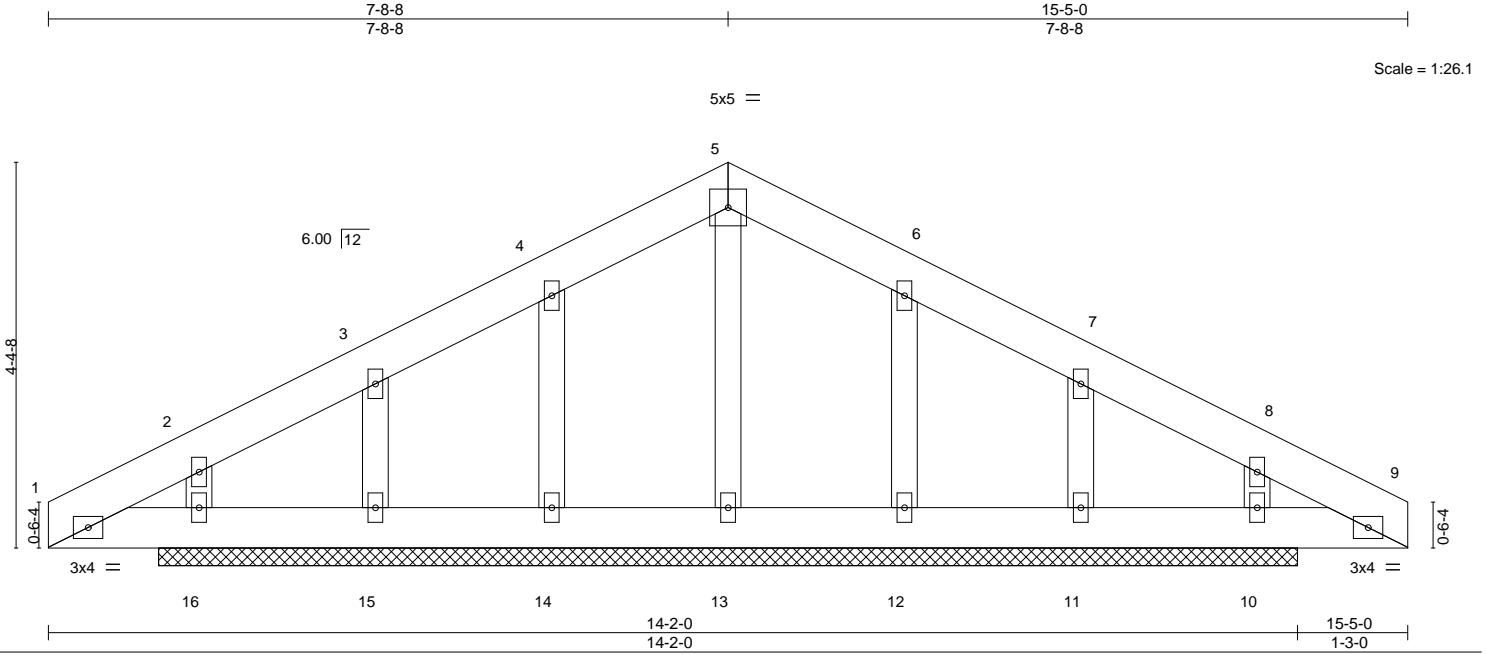
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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108210
J1120-5401	D1GE	COMMON SUPPORTED GAB	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:53 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYtF-YqwNw4fjwyJdPPpwKTC\_BFNOC6PCUvdCZDqP59yIHba



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a	Weight: 96 lb	FT = 20%
	Code IRC2015/TPI2014				

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

**REACTIONS.** All bearings 12-11-0.  
 (lb) - Max Horz 16=-79(LC 17)  
 Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 12, 11, 10  
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 12, 11, 10

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 16, 12, 11, 10.
  - 9) Non Standard bearing condition. Review required.



November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108211
J1120-5401	D2	COMMON	3	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:54 2020 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-01Um8QgLvGRU1YO6uBkDkTwV1WhcDLlntZydcylHbZ



Scale = 1:27.3

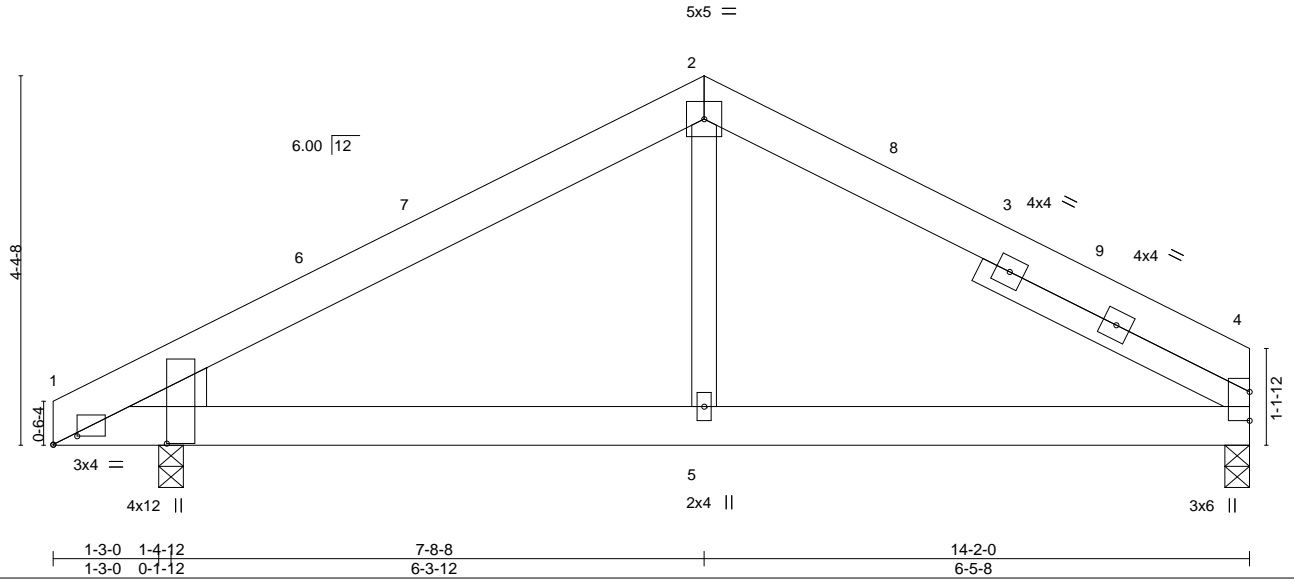


Plate Offsets (X,Y)-- [1:0-3-6,0-1-3], [1:0-0-2,1-4-2]

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 0.29	Vert(LL)	-0.02	1-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.05	1-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.01	1-5	>999	Weight: 84 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x6 SP No.1  
 SLIDER Right 2x4 SP No.2 -H 3-7-5

**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.

**REACTIONS.**

(size) 4=0-3-8, 1=0-3-8  
 Max Horz 1=-51(LC 10)  
 Max Uplift 4=-29(LC 13), 1=-36(LC 12)  
 Max Grav 4=561(LC 1), 1=561(LC 1)

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

TOP CHORD 1-2=-746/230, 2-4=-746/248  
 BOT CHORD 1-5=-85/575, 4-5=-85/575  
 WEBS 2-5=0/334

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 7-8-8, Exterior(2) 7-8-8 to 12-1-5, Interior(1) 12-1-5 to 14-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 1.



November 17, 2020

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818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108212
J1120-5401	G1	COMMON	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:54 2020 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-01Um8QgLhGRU1YO6uBkDkTwUoWhEDL?LntZydcylHbZ



Scale = 1:31.4

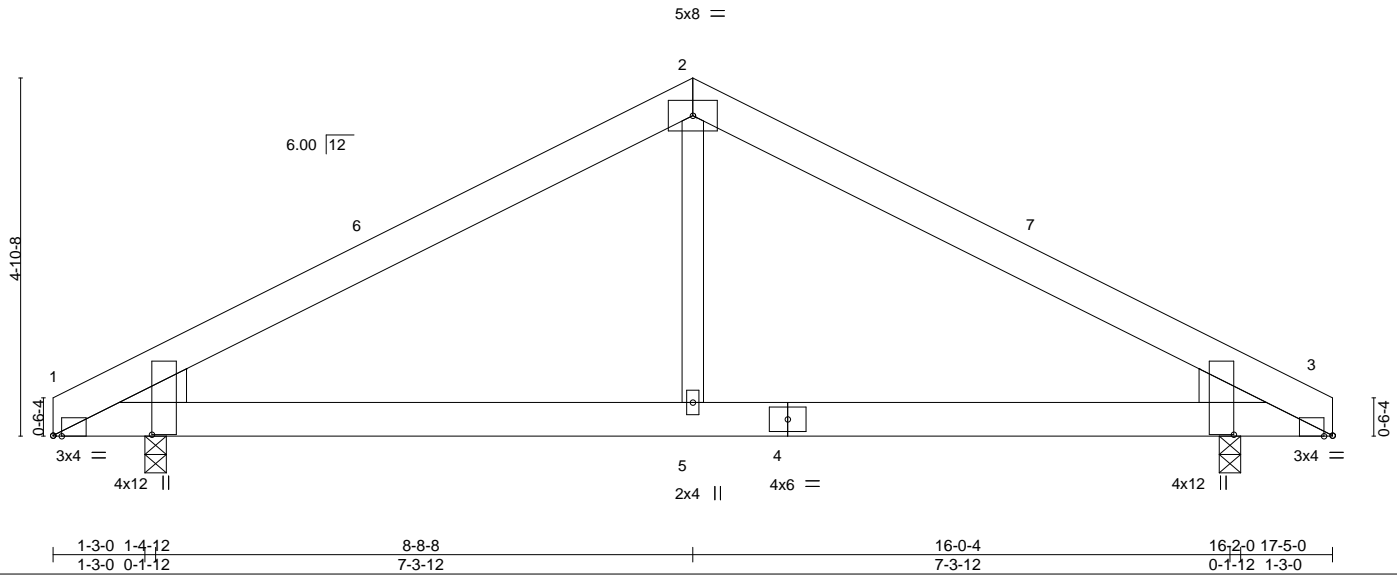


Plate Offsets (X,Y)-- [1:0-1-6,Edge], [1:0-0-2,1-4-2], [3:0-1-6,Edge], [3:0-0-2,1-4-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.03	1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07	1-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	1-5	>999	240	Weight: 97 lb	FT = 20%

**LUMBER-**

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

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

**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.

**REACTIONS.**

(size) 1=0-3-8, 3=0-3-8  
 Max Horz 1=57(LC 9)  
 Max Uplift 1=-41(LC 12), 3=-41(LC 13)  
 Max Grav 1=685(LC 1), 3=685(LC 1)

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

TOP CHORD 1-2=-983/256, 2-3=-983/251  
 BOT CHORD 1-5=-105/779, 3-5=-105/779  
 WEBS 2-5=0/419

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-8-8, Exterior(2) 8-8-8 to 13-1-5, Interior(1) 13-1-5 to 17-3-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

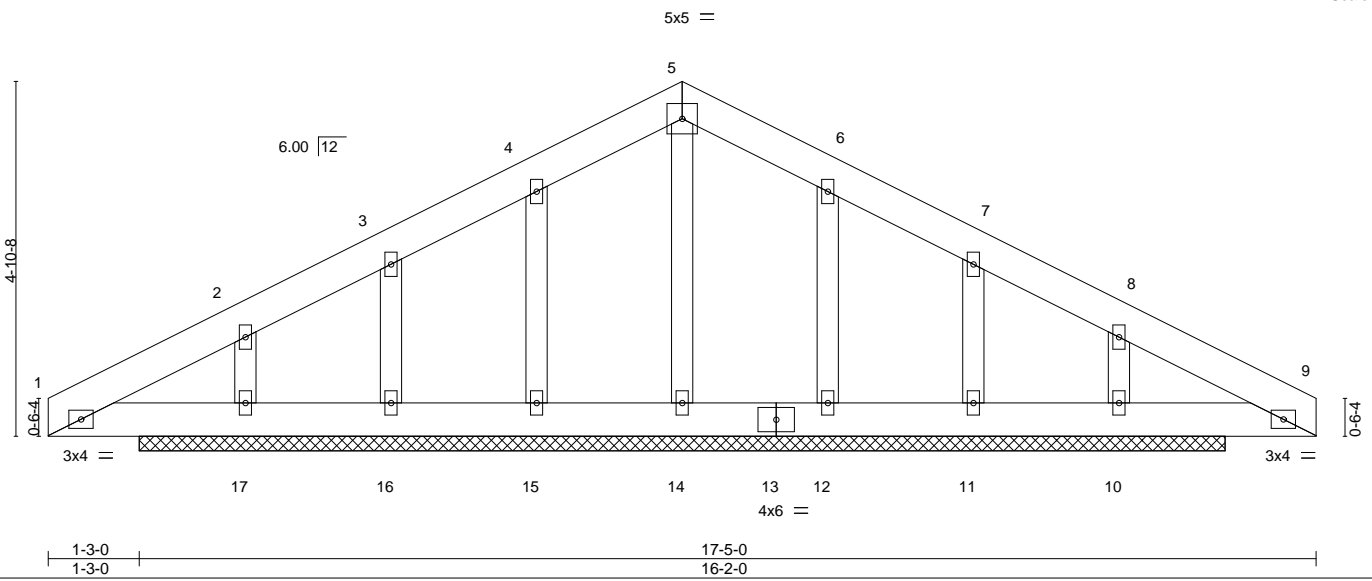
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108213
J1120-5401	G1GE	COMMON SUPPORTED GAB	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:56 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYtF-zPbWZ6hbDtiCGsYV?cmhpu?uvKRuHFseFA23iUylHbX



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 111 lb	FT = 20%

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

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

**REACTIONS.** All bearings 14-11-0.  
 (lb) - Max Horz 17=89(LC 16)  
 Max Uplift All uplift 100 lb or less at joint(s) 15, 16, 17, 12, 11, 10  
 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 12, 11 except 14=259(LC 1), 17=327(LC 23), 10=327(LC 24)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 17, 12, 11, 10.
  - 9) Non Standard bearing condition. Review required.



November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108214
J1120-5401	G2	COMMON	5	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:57 2020 Page 1  
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Scale = 1:30.6

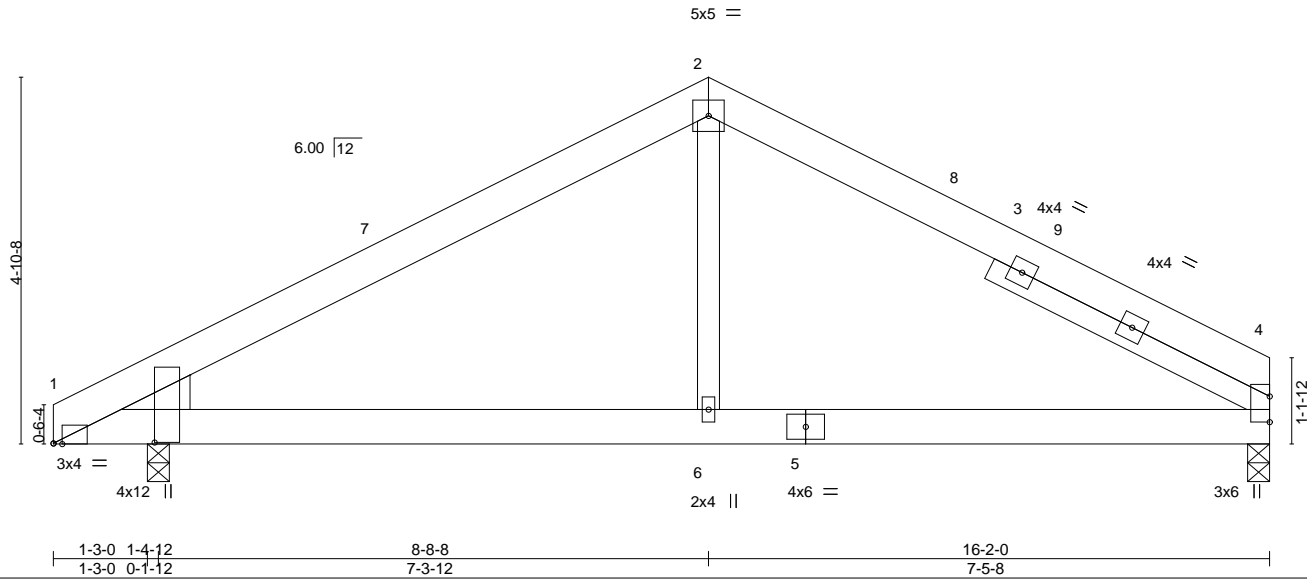


Plate Offsets (X,Y)-- [1:0-1-6,Edge], [1:0-0-2,1-4-2]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	Vert(LL) -0.04	1-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT) -0.08	1-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.02	1-6	>999	240	Weight: 95 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x6 SP No.1  
 SLIDER Right 2x4 SP No.2 -H 4-2-0

**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.

**REACTIONS.** (size) 4=0-3-8, 1=0-3-8  
 Max Horz 1=57(LC 11)  
 Max Uplift 4=34(LC 13), 1=41(LC 12)  
 Max Grav 4=641(LC 1), 1=641(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-863/238, 2-4=-861/251  
 BOT CHORD 1-6=-85/668, 4-6=-85/668  
 WEBS 2-6=0/383

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-8-8, Exterior(2) 8-8-8 to 13-1-5, Interior(1) 13-1-5 to 16-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 1.



November 17, 2020

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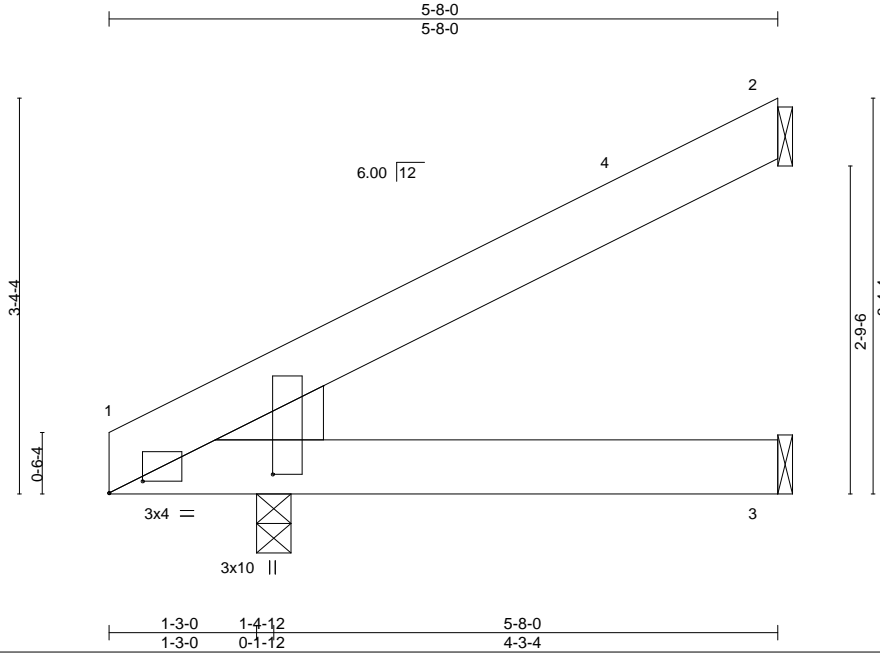


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108215
J1120-5401	X1	Jack-Open	19	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:57 2020 Page 1  
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Scale = 1:19.5

Plate Offsets (X,Y)-- [1:0-3-6,0-1-3], [1:0-1-14,1-4-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	-0.01	1-3	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.02	1-3	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	1	****	Weight: 31 lb	FT = 20%
	Code IRC2015/TPI2014							

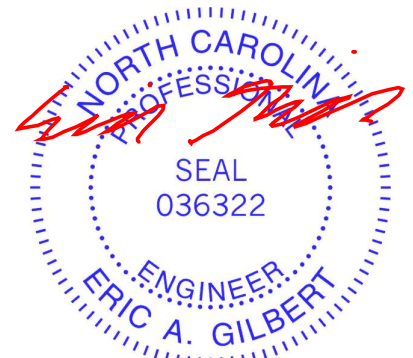
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEDGE  
 Left: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=Mechanical, 3=Mechanical, 1=0-3-8  
 Max Horz 1=92(LC 12)  
 Max Uplift 2=80(LC 12)  
 Max Grav 2=164(LC 1), 3=109(LC 3), 1=218(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 5-7-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.



November 17, 2020

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818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108216
J1120-5401	X1A	Jack-Open	6	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:58 2020 Page 1  
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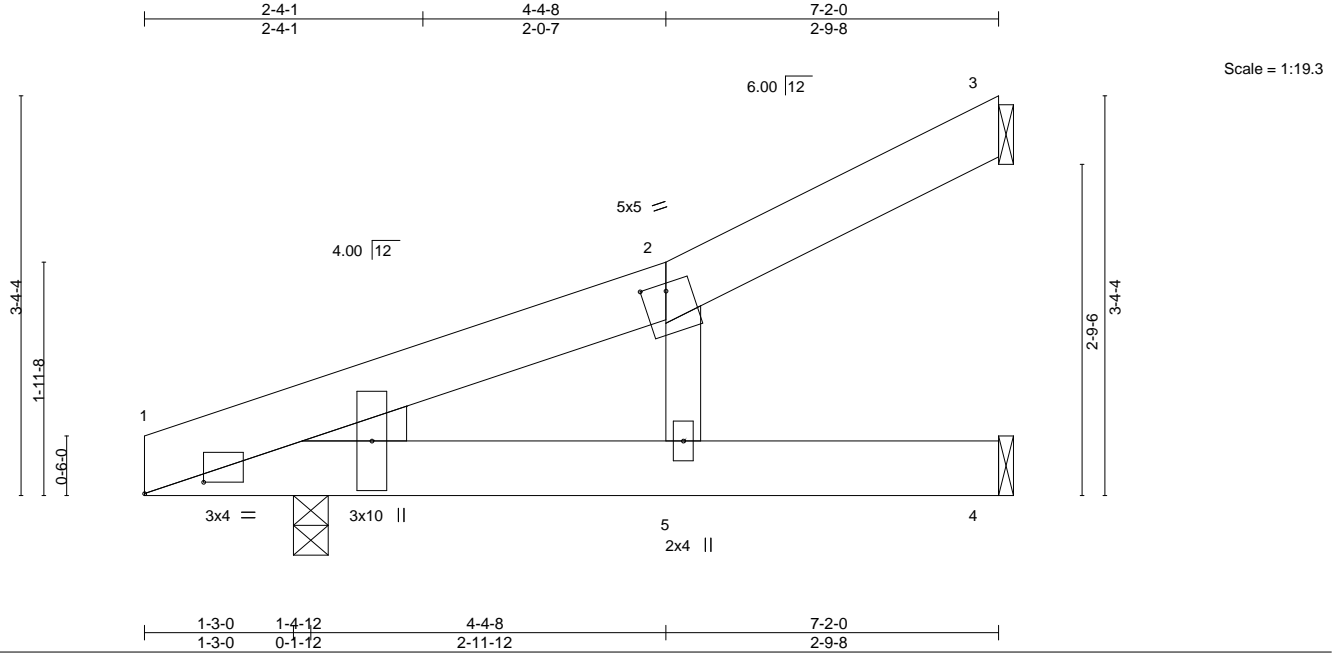


Plate Offsets (X,Y)-- [1:0-5-15,0-1-2], [2:0-2-8,0-0-12]

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 0.12	Vert(LL)	-0.04 1-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.10 1-5	>844	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.05 1-5	>999	240	Weight: 39 lb	FT = 20%

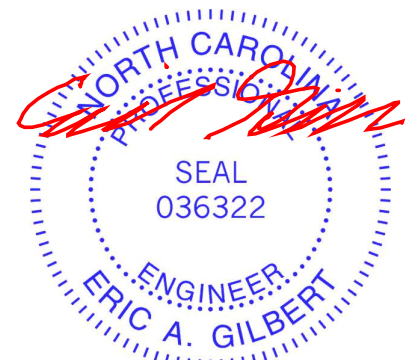
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.2

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

**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 1=0-3-8  
 Max Horz 1=92(LC 12)  
 Max Uplift 3=39(LC 12), 4=10(LC 12), 1=11(LC 12)  
 Max Grav 3=82(LC 1), 4=196(LC 1), 1=278(LC 1)

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-4-8, Interior(1) 4-4-8 to 7-1-4 zone; cantilever left exposed ;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 where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit 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) 3, 4, 1.

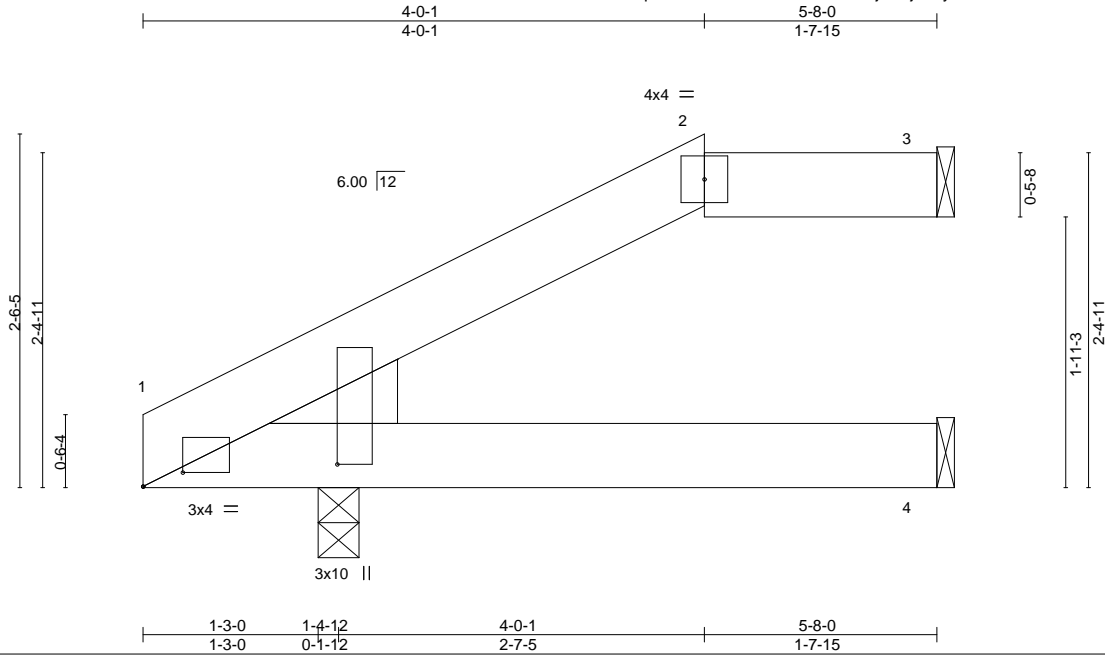


November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108217
J1120-5401	X2	JACK-OPEN	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:58 2020 Page 1  
ID:3N43qrVo5RezoeZuaaJL3zGYtF-vojGznjskUyWVAiu71o9uJ5CL75B9ASxiUXAmNylHbV



Scale = 1:16.4

Plate Offsets (X,Y)-- [1:0-3-6,0-1-3], [1:0-1-14,1-4-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	-0.01	1-4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.02	1-4	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.01	1-4	>999	Weight: 30 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except 2-0-0 oc purlins: 2-3.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 1=0-3-8  
Max Horz 1=63(LC 12)  
Max Uplift 3=41(LC 9), 1=9(LC 12)  
Max Grav 3=149(LC 1), 4=103(LC 3), 1=218(LC 1)

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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) 3, 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 17, 2020

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

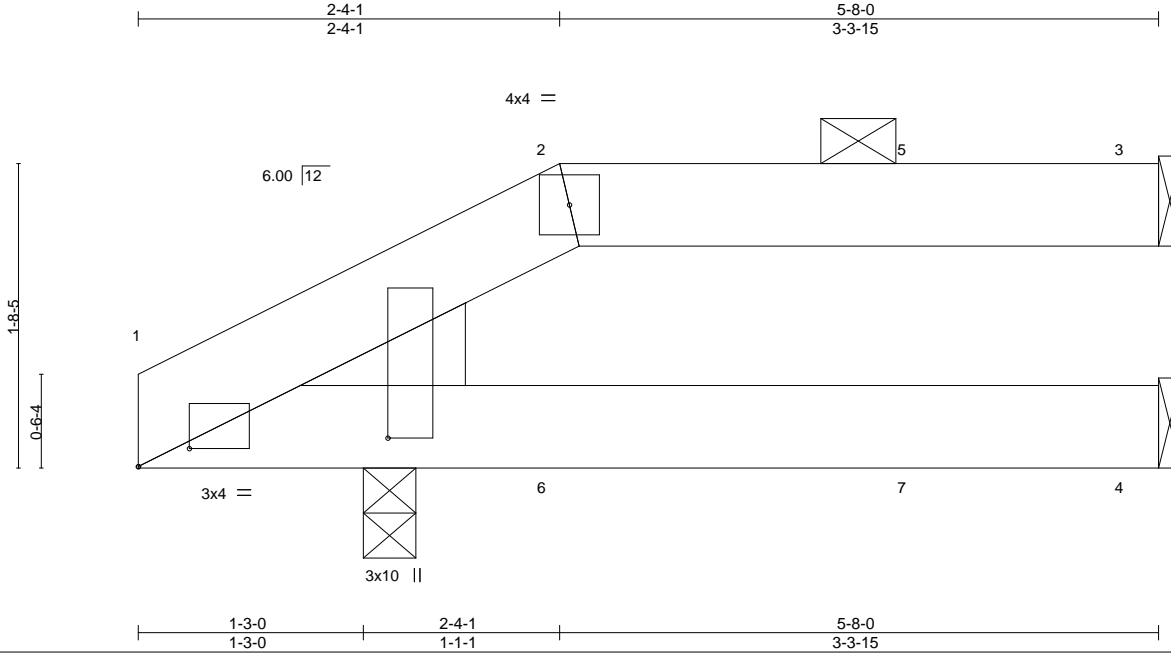
818 Soundside Road  
Edenton, NC 27932



Job J1120-5401	Truss X3	Truss Type Jack-Open Girder	Qty 1	Ply 1	Lot 67 South Creek Job Reference (optional)	E15108218
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 11:59:59 2020 Page 1  
ID:3N43qrV05ReszoeZuaaJL3zGYtF-N\_HfB7jUVo4n8KH4gkJORWdNSXQ0udi5x8HjJpyIHbU



Scale = 1:12.8

Plate Offsets (X,Y)-- [1:0-3-6,0-1-3], [1:0-1-14,1-4-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	-0.01	1-4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	-0.02	1-4	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.02	3	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Wind(LL)	0.01	1-4	>999	Weight: 30 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except 2-0-0 oc purlins: 2-3.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 1=0-3-8  
Max Horz 1=40(LC 8)  
Max Uplift 3=61(LC 5), 1=-23(LC 8)  
Max Grav 3=170(LC 1), 4=117(LC 3), 1=239(LC 1)

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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) 3, 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 44 lb up at 2-4-12, and 32 lb down and 44 lb up at 4-4-12 on top chord, and 14 lb down at 2-4-12, and 14 lb down at 4-4-12 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=-60, 1-4=-20

Concentrated Loads (lb)  
Vert: 2=-19(F) 5=-19(F) 6=-6(F) 7=-6(F)



November 17, 2020

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108219
J1120-5401	XB1	Jack-Open	4	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 12:00:00 2020 Page 1  
 ID:3N443qrVo5ReszoeZuaaJL3zGYtF-rBr1OTk6G6CdITrGESqdzkAXsxmGd4yEAo0HrFylHbT

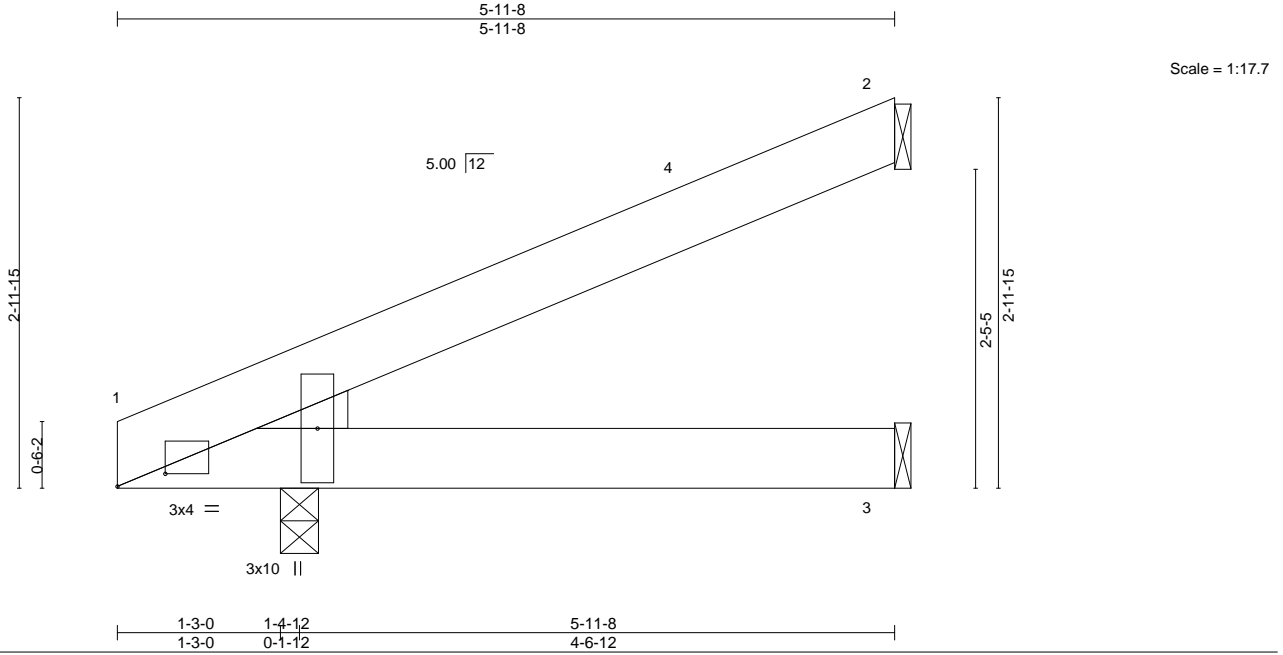


Plate Offsets (X,Y)-- [1:0-4-6,0-1-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.01	1-3	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.03	1-3	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	1	****	240		
							Weight: 30 lb	FT = 20%

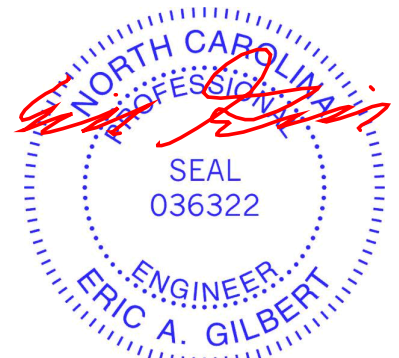
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=Mechanical, 3=Mechanical, 1=0-3-8  
 Max Horz 1=81(LC 12)  
 Max Uplift 2=77(LC 12), 1=7(LC 12)  
 Max Grav 2=172(LC 1), 3=115(LC 3), 1=230(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 5-10-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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, 1.



November 17, 2020

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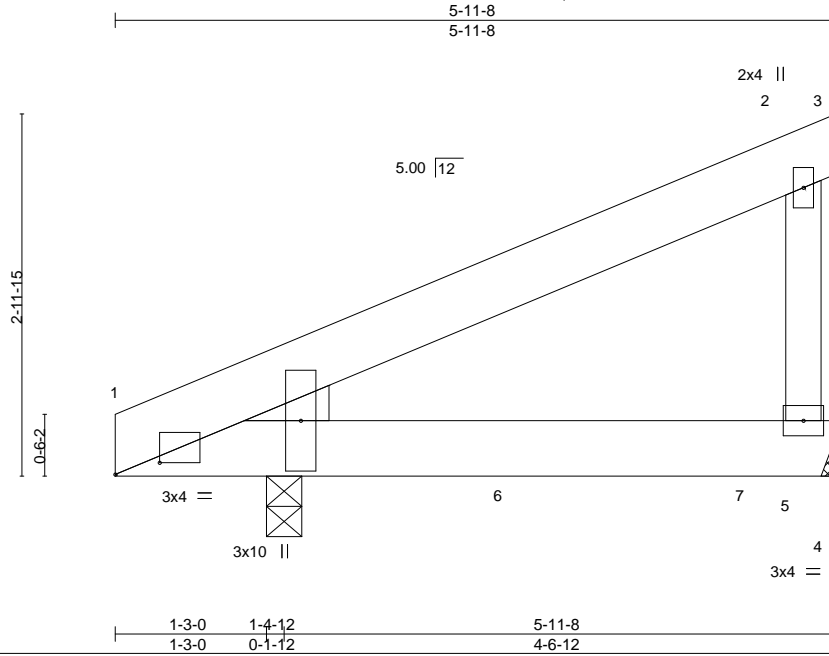


818 Soundside Road  
 Edenton, NC 27932

Job J1120-5401	Truss XB1-GR	Truss Type Jack-Closed Girder	Qty 1	Ply 2	Lot 67 South Creek	E15108220
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Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 13:06:16 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYtF-Um2N6FpolXauASNR\_OpL1WlqTV\_0j7tad1691TylHVb



Scale = 1:19.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL)	-0.04	1-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(CT)	-0.09	1-5	>746		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00		n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Wind(LL)	0.03	1-5	>999	Weight: 67 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=Mechanical, 1=0-3-8 (min. 0-1-8)  
 Max Horz 1=81(LC 8)  
 Max Uplift 5=129(LC 8), 1=35(LC 8)  
 Max Grav 5=1383(LC 1), 1=600(LC 1)

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

**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.  
 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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 129 lb uplift at joint 5 and 35 lb uplift at joint 1.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 763 lb down and 67 lb up at 3-3-12, and 766 lb down and 63 lb up at 5-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**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, 1-4=-20



November 17, 2020

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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818 Soundside Road  
 Edenton, NC 27932

Job J1120-5401	Truss XB1-GR	Truss Type Jack-Closed Girder	Qty 1	Ply <b>2</b>	Lot 67 South Creek  Job Reference (optional)	E15108220
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Comtech, Inc., Fayetteville, NC 28309, Mitek

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 13:06:16 2020 Page 2  
ID:3N43qrVo5ReszoeZuaaJL3zGYtF-Um2N6FpolXauASNR\_0pL1WlqTV\_0j7tadl691TylHVb

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 6--763(B) 7--766(B)

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108221
J1120-5401	XB2	Jack-Open Girder	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 12:00:02 2020 Page 1  
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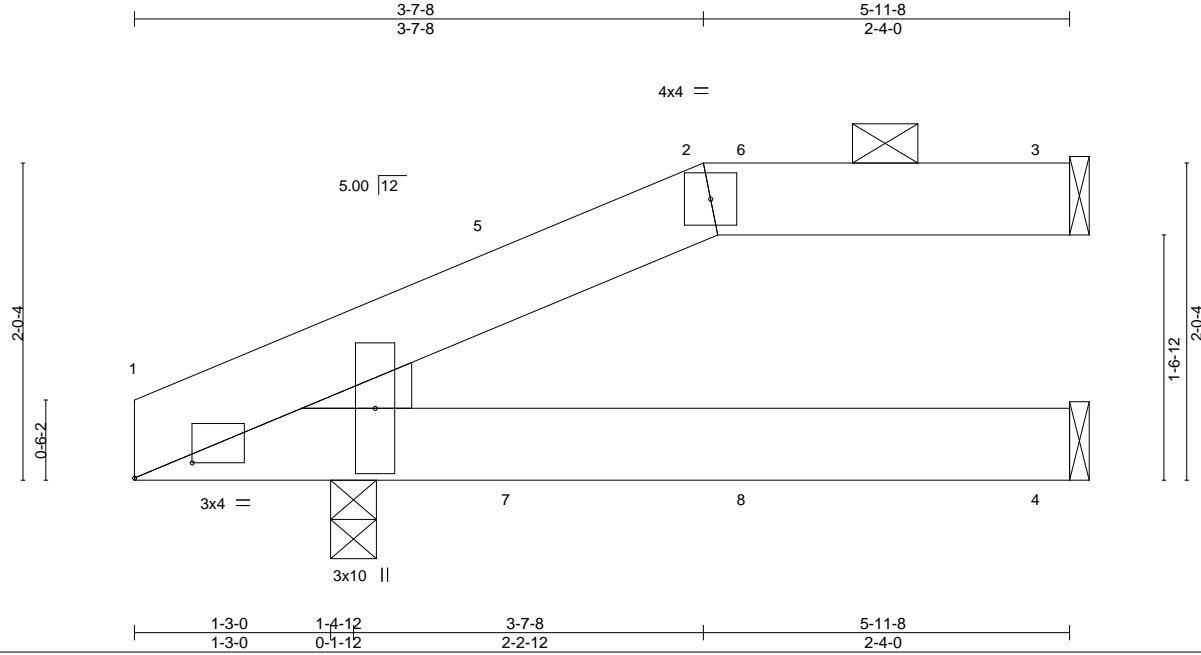


Plate Offsets (X,Y)-- [1:0-4-6,0-1-3]

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) -0.01	1-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03	1-4	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01	1-4	>999	240	Weight: 30 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except  
 2-0-0 oc purlins: 2-3.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

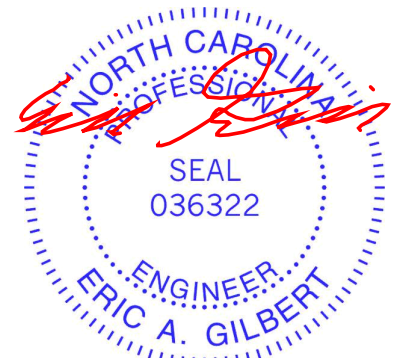
**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 1=0-3-8  
 Max Horz 1=51(LC 8)  
 Max Uplift 3=61(LC 5), 1=-19(LC 8)  
 Max Grav 3=178(LC 1), 4=124(LC 3), 1=259(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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) 3, 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 31 lb up at 2-6-4, and 37 lb down and 52 lb up at 4-0-4 on top chord, and 17 lb down at 2-6-4, and 16 lb down at 4-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) 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: 1-2=-60, 2-3=-60, 1-4=-20
- Concentrated Loads (lb)  
 Vert: 5=-16(F) 6=-24(F) 7=-16(F) 8=-8(F)



November 17, 2020

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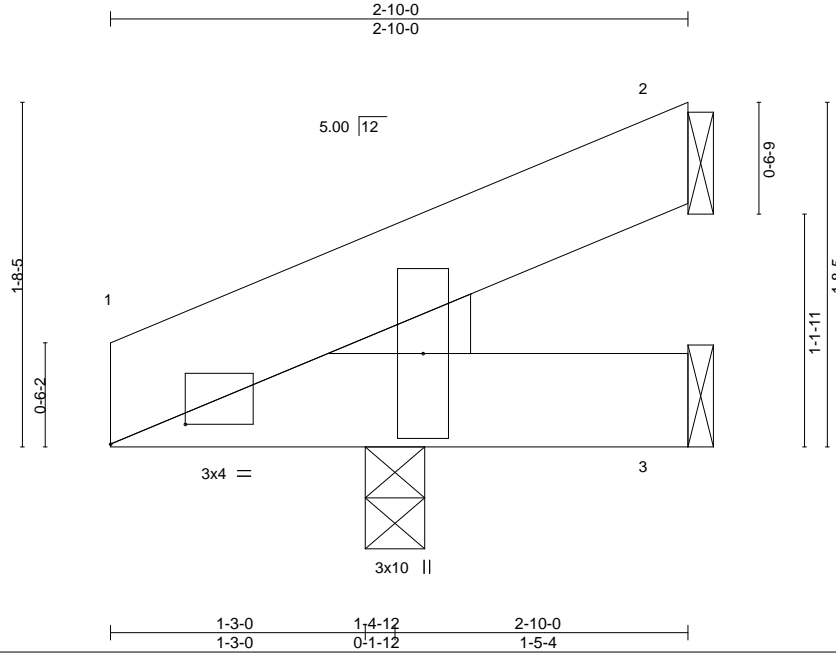
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108222
J1120-5401	Y1	Jack-Open	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 12:00:03 2020 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-GIX91Vn\_Z1aCcxarvaOKbMo5S8pcqRhgsMfXSayIHbQ



Scale = 1:11.3

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

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 0.05	Vert(LL)	-0.00	1	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1-3	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	1	****	Weight: 15 lb	FT = 20%

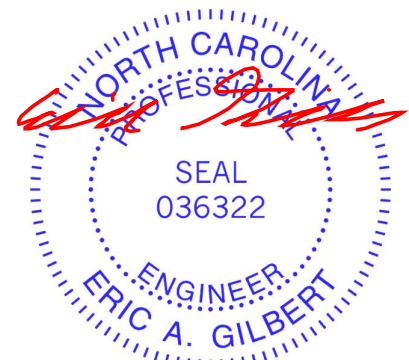
**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEDGE  
 Left: 2x4 SP No.2

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

**REACTIONS.** (size) 2=Mechanical, 3=Mechanical, 1=0-3-8  
 Max Horz 1=39(LC 12)  
 Max Uplift 2=36(LC 12), 1=-3(LC 12)  
 Max Grav 2=79(LC 1), 3=52(LC 3), 1=105(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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, 1.



November 17, 2020

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

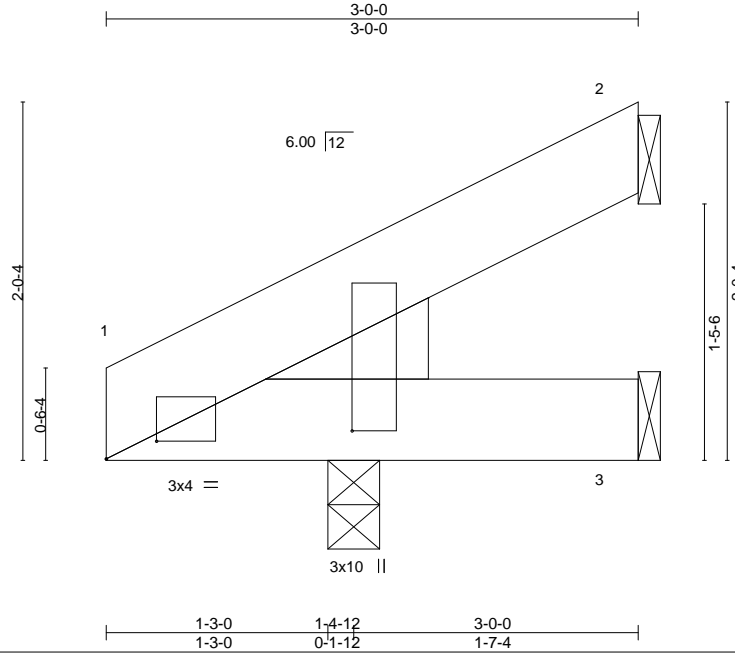


Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108223
J1120-5401	YB1	JACK-OPEN	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 12:00:03 2020 Page 1

ID:3N43qrVo5ReszoeZuaaJL3zGYtF-GlX91Vn\_Z1aCcxarvaOKbMo5V8pZqRhgsmFxSayIHbQ



Scale = 1:13.0

Plate Offsets (X,Y)--	[1:0-3-6,0-1-3], [1:0-1-14,1-4-10]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	-0.00	1	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	1-3	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	1	****	Weight: 18 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** (size) 2=Mechanical, 3=Mechanical, 1=0-3-8  
Max Horz 1=49(LC 12)  
Max Uplift 2=42(LC 12)  
Max Grav 2=84(LC 1), 3=56(LC 3), 1=112(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.

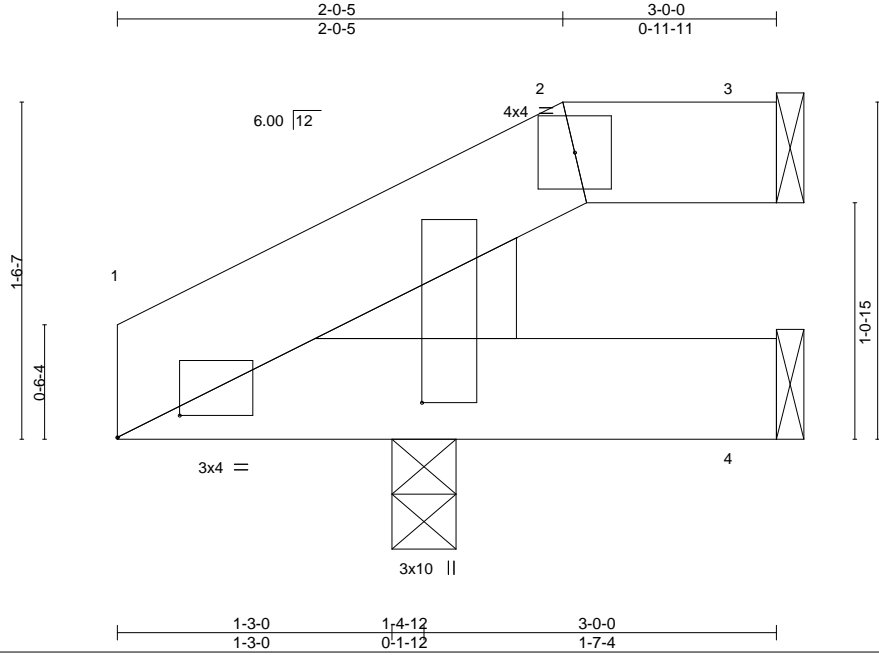


November 17, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 67 South Creek	E15108224
J1120-5401	YB2	JACK-OPEN	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Nov 17 12:00:04 2020 Page 1  
 ID:3N43qrVo5ReszoeZuaaJL3zGYIF-ky4YErndKKi3E591THvZ7aLGPY9qZuxq5Q\_U\_1ylHbP



Scale = 1:10.5

Plate Offsets (X,Y)-- [1:0-3-6,0-1-3], [1:0-1-14,1-4-10]

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 0.04	Vert(LL)	-0.00	1	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.00	1	>999	Weight: 17 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except 2-0-0 oc purlins: 2-3.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 1=0-3-8  
 Max Horz 1=35(LC 12)  
 Max Uplift 3=-22(LC 9), 1=-4(LC 12)  
 Max Grav 3=76(LC 1), 4=53(LC 3), 1=112(LC 1)

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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) 3, 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 17, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



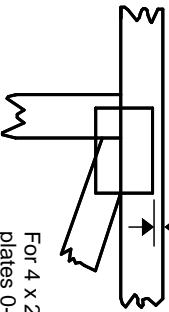
818 Soundside Road  
 Edenton, NC 27932

# 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- 1/16" from outside edge of truss.



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

\* Plate location details available in **MITek 20/20 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



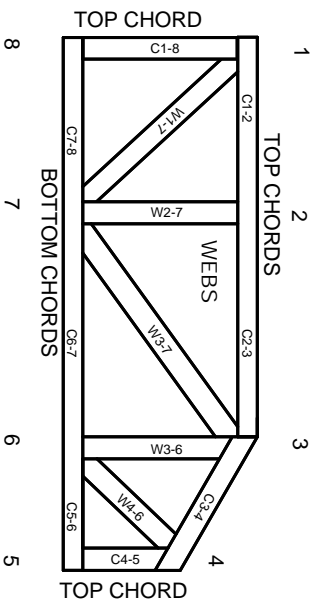
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate  
BCSI: 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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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



# 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 T or 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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.