



Job	Truss	Truss Type	Qty	Ply	Hamilton Addition
J0222-0840	A1-GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Feb 18 11:24:02 2022 Page 2  
ID:owLSGRMGJYQFUQI2Q4ZlbUzjxSu-bJHH9S34h2f7Qmn7MhIm6076LP6oSaudZNHUQHjx3R

**LOAD CASE(S)** Standard

Job J0222-0840	Truss A2	Truss Type ROOF SPECIAL	Qty 4	Ply 1	Hamilton Addition
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Feb 18 11:24:02 2022 Page 1  
ID:owLSGRMGJYQFUQI2Q4ZlbUzjxSu-bJHH9S34h2f7Qmn7Mhlm607\_OP\_dSOjdZNHUHQHjx3R



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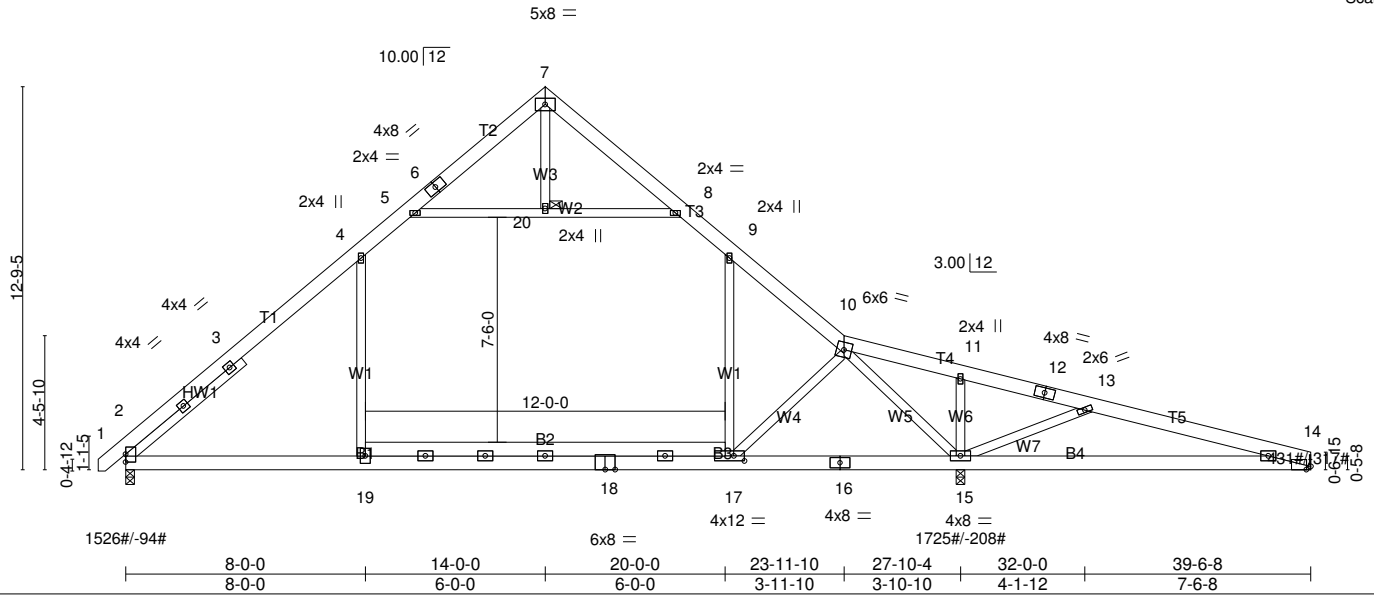


Plate Offsets (X,Y)-- [14:0-1-12,Edge], [17:0-4-4-0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	Vert(LL)	-0.23	17-19	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(CT)	-0.34	17-19	>992		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Horz(CT)	0.04	14	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.20	14-15	>688		
	Code IRC2015/TPI2014						Weight: 307 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 - 5-0-10

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 8-11-9 oc bracing: 14-15.  
 1 Brace at Jt(s): 20

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

**REACTIONS.** (lb/size) 2=1149/0-3-8 (min. 0-1-13), 15=1625/0-3-8 (min. 0-2-1), 14=431/Mechanical  
 Max Horz 2=-295(LC 10)  
 Max Uplift 2=-94(LC 12), 15=-208(LC 13), 14=-317(LC 9)  
 Max Grav 2=1526(LC 19), 15=1725(LC 26), 14=431(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1797/234, 3-4=-1577/261, 4-5=-1146/354, 8-9=-1216/356, 9-10=-1861/344,  
 10-11=-599/631, 11-12=-585/616, 12-13=-605/592, 13-21=-932/779, 14-21=-979/766  
 BOT CHORD 2-22=-72/1368, 19-22=-72/1368, 18-19=-75/1369, 17-18=-75/1357, 16-17=-223/1566,  
 15-16=-223/1566, 14-15=-714/921  
 WEBS 4-19=0/767, 9-17=-135/818, 5-20=-1325/382, 8-20=-1325/382, 10-17=-300/343,  
 10-15=-1760/199, 13-15=-672/384

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-9-9 to 3-7-4, Interior(1) 3-7-4 to 14-0-0, Exterior(2) 14-0-0 to 18-8-0, Interior(1) 18-8-0 to 39-5-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 4x6 MT20 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, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 15=208, 14=317.
  - 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.

**LOAD CASE(S)** Standard

Job J0222-0840	Truss A3	Truss Type ROOF SPECIAL	Qty 4	Ply 1	Hamilton Addition
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Feb 18 11:24:03 2022 Page 1  
ID:owLSGRMGJYQFUQI2Q4ZlbUzjxSu-3WrfNn4iSMn\_2wMJwPp?iDf97oKsBrzno111yjzjx3Q

0-11-0	8-0-0	14-0-0	20-0-0	23-11-10	27-10-4	32-0-0	39-10-0	40-9-0
0-11-0	8-0-0	6-0-0	6-0-0	3-11-10	3-10-10	4-1-12	7-10-0	0-11-0

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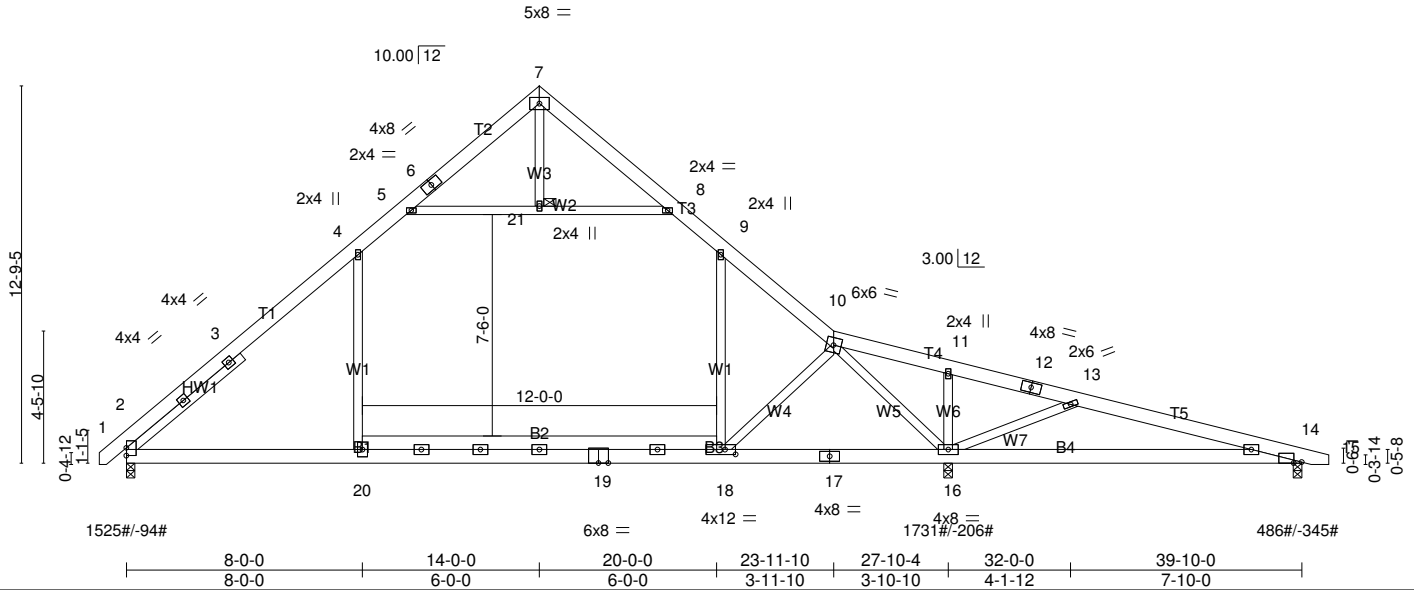


Plate Offsets (X,Y)-- [14:0-3-4,Edge], [18:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.23 18-20 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.34 18-20 >991 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 14 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.21 14-16 >678 240		
				Weight: 311 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 - 5-0-10

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 8-11-3 oc bracing: 14-16.  
 JOINTS 1 Brace at Jt(s): 21

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

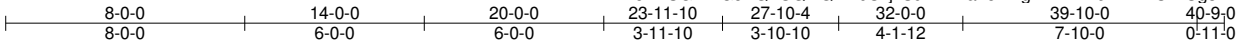
**REACTIONS.** (lb/size) 2=1148/0-3-8 (min. 0-1-13), 16=1634/0-3-8 (min. 0-2-1), 14=486/0-3-8 (min. 0-1-8)  
 Max Horz 2=-297(LC 10)  
 Max Uplift 2=-94(LC 12), 16=-206(LC 13), 14=-345(LC 9)  
 Max Grav 2=1525(LC 19), 16=1731(LC 26), 14=486(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1795/233, 3-4=-1575/260, 4-5=-1145/353, 8-9=-1215/356, 9-10=-1859/343,  
 10-11=-594/627, 11-12=-580/616, 12-13=-600/588, 13-22=-954/788, 14-22=-990/775  
 BOT CHORD 2-23=-70/1368, 20-23=-70/1368, 19-20=-73/1369, 18-19=-73/1357, 17-18=-221/1564,  
 16-17=-221/1564, 14-16=-718/934  
 WEBS 4-20=0/766, 9-18=-134/816, 5-21=-1323/382, 8-21=-1323/382, 10-18=-297/341,  
 10-16=-1760/198, 13-16=-688/385

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-9-9 to 3-7-4, Interior(1) 3-7-4 to 14-0-0, Exterior(2) 14-0-0 to 18-8-0, Interior(1) 18-8-0 to 40-5-7 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 4x6 MT20 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 16=206, 14=345.
  - 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.

**LOAD CASE(S)** Standard

Job J0222-0840	Truss A4	Truss Type ROOF SPECIAL	Qty 4	Ply 1	Hamilton Addition
Comtech, Inc., Fayetteville, NC 28309, Anthony Williams					
Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Feb 18 11:24:04 2022 Page 1					
ID:owLSGRMGJYQFUQI2Q4ZlbUzjxSu-YiP1a75KDgvr14xWT6KEBRCKrCg3wIEw0hmaU9zjx3P					
Job Reference (optional)					



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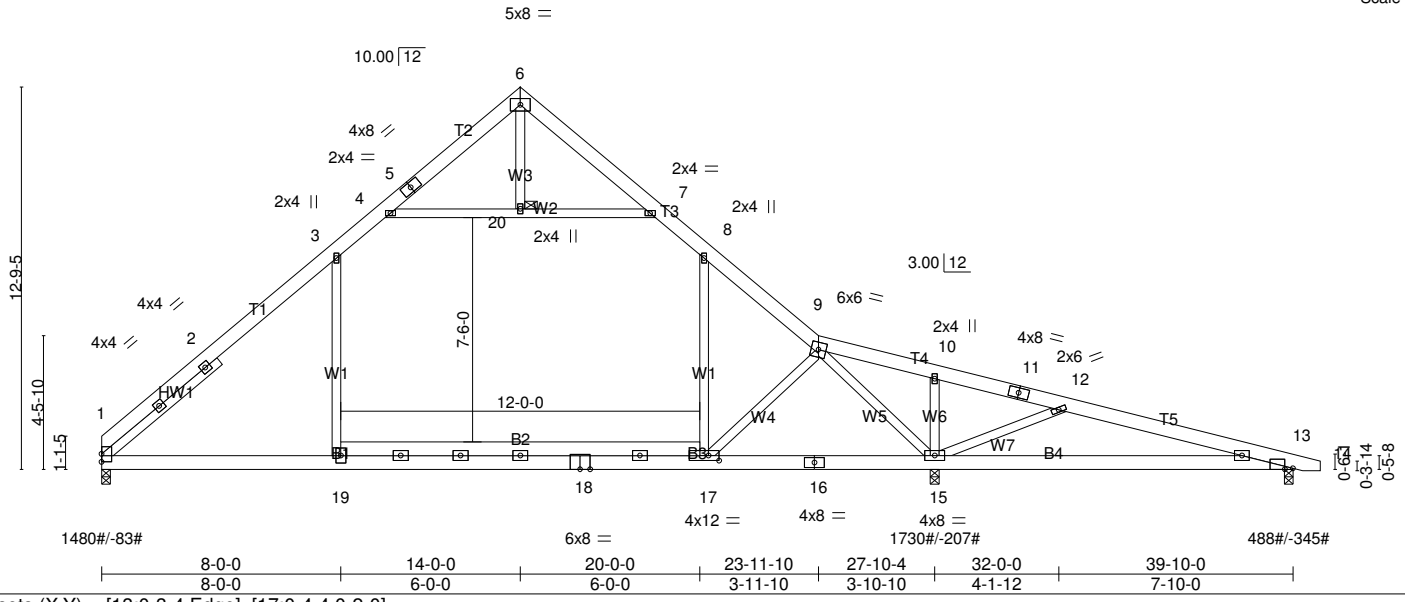


Plate Offsets (X,Y)-- [13:0-3-4,Edge], [17:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CS.I.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.23 17-19 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.34 17-19 >990 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.21 13-15 >678 240		
				Weight: 308 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 - 5-0-10

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 8-11-5 oc bracing: 13-15.  
 JOINTS 1 Brace at Jt(s): 20

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

**REACTIONS.** (lb/size) 1=1100/0-3-8 (min. 0-1-12), 15=1633/0-3-8 (min. 0-2-1), 13=488/0-3-8 (min. 0-1-8)  
 Max Horz 1=-297(LC 8)  
 Max Uplift1=-83(LC 12), 15=-207(LC 13), 13=-345(LC 9)  
 Max Grav 1=1480(LC 19), 15=1730(LC 26), 13=488(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1768/235, 2-21=-1637/239, 3-21=-1577/269, 3-4=-1147/359, 7-8=-1217/355,  
 8-9=-1862/344, 9-10=-598/626, 10-11=-584/614, 11-12=-604/587, 12-22=-958/787,  
 13-22=-994/774  
 BOT CHORD 1-23=-70/1370, 19-23=-70/1370, 18-19=-73/1371, 17-18=-73/1359, 16-17=-220/1567,  
 15-16=-220/1567, 13-15=-717/938  
 WEBS 3-19=0/766, 8-17=-134/818, 4-20=-1326/383, 7-20=-1326/383, 9-17=-299/341,  
 9-15=-1760/199, 12-15=-688/385

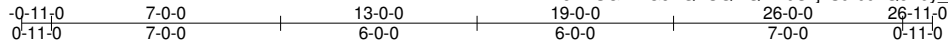
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 14-0-0, Exterior(2) 14-0-0 to 18-8-0, Interior(1) 18-8-0 to 40-5-7 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 4x6 MT20 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, with BCCL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 15=207, 13=345.
  - 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.

**LOAD CASE(S)** Standard

Job J0222-0840	Truss B1-GE	Truss Type GABLE	Qty 1	Ply 1	Hamilton Addition
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Feb 18 11:24:05 2022 Page 1  
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5x5 =

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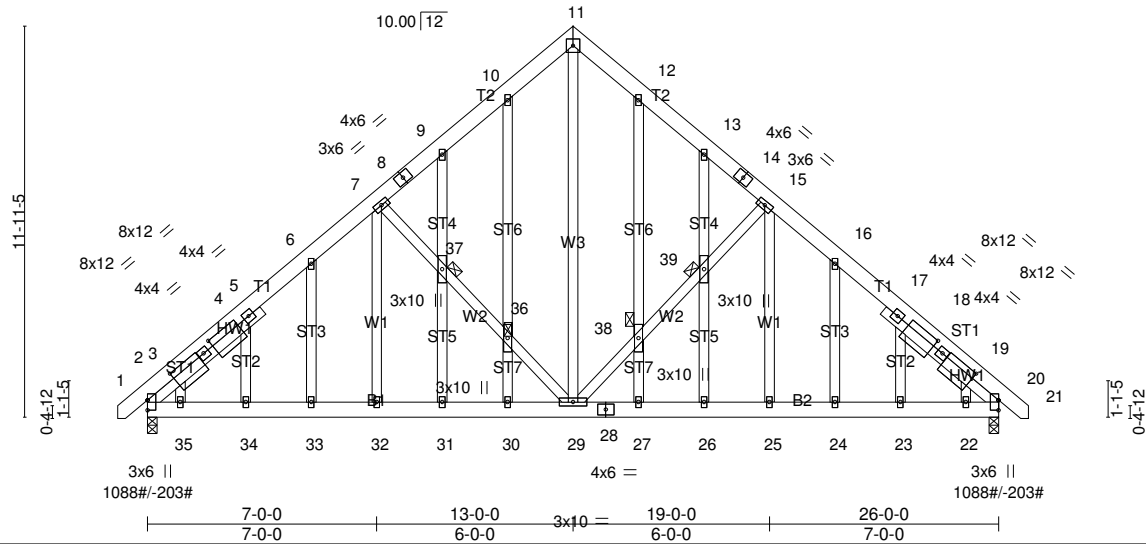


Plate Offsets (X,Y)-- [3:1-0-8,0-2-4], [4:2-7-0,0-2-8], [18:2-7-0,0-2-8], [19:1-0-8,0-2-4]

<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 0.10	Vert(LL)	-0.02	31	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.04	30-31	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.02	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	33-34	>999		
								Weight: 290 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.2  
SLIDER Left 2x4 SP No.2 - 4-5-15, Right 2x4 SP No.2 - 4-5-15

**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.  
JOINTS 1 Brace at Jt(s): 36, 37, 38, 39

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

**REACTIONS.** (lb/size) 2=1088/0-3-8 (min. 0-1-8), 20=1088/0-3-8 (min. 0-1-8)  
Max Horz 2=-345(LC 10)  
Max Uplift 2=203(LC 12), 20=-203(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1299/244, 3-4=-1234/270, 4-5=-1129/321, 5-6=-1141/349, 6-7=-1147/409,  
7-8=-924/327, 8-9=-914/340, 9-10=-951/409, 10-11=-922/450, 11-12=-922/450,  
12-13=-951/409, 13-14=-914/340, 14-15=-924/327, 15-16=-1147/409, 16-17=-1141/349,  
17-18=-1129/321, 18-19=-1234/270, 19-20=-1299/244  
BOT CHORD 2-35=-229/977, 34-35=-228/977, 33-34=-227/977, 32-33=-227/977,  
30-31=-227/977, 29-30=-227/977, 28-29=-96/861, 27-28=-96/861, 26-27=-96/861,  
25-26=-96/861, 24-25=-96/861, 23-24=-96/861, 22-23=-97/861, 20-22=-98/861  
WEBS 11-29=-422/884, 29-38=-522/331, 38-39=-514/323, 15-39=-511/325, 15-25=-127/255,  
7-37=-511/324, 36-37=-514/322, 29-36=-522/330, 7-32=-126/255

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 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) except (jt=lb) 2=203, 20=203.
  - 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.

**LOAD CASE(S)** Standard

Job J0222-0840	Truss B2	Truss Type Common	Qty 12	Ply 1	Hamilton Addition
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Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Fri Feb 18 11:24:05 2022 Page 1  
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0-11-0 6-7-12 13-0-0 19-4-4 26-0-0 26-11-0  
0-11-0 6-7-12 6-4-4 6-4-4 6-7-12 0-11-0

5x5 =

Scale = 1:68.6

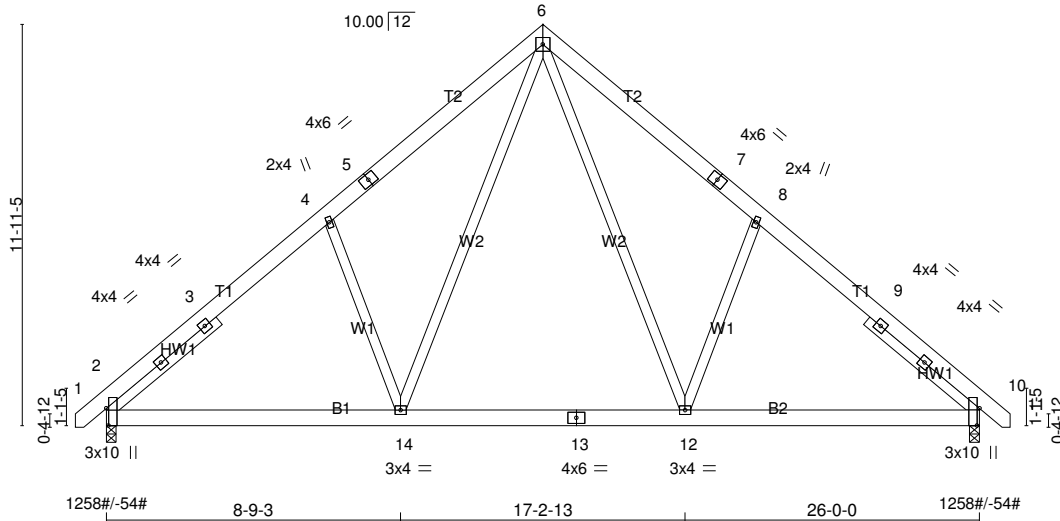


Plate Offsets (X,Y)-- [2:0-6-3,Edge], [10:0-6-3,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.07 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.50	Vert(CT) -0.10 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 2-14 >999 240		
				Weight: 212 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
SLIDER Left 2x4 SP No.2 - 4-3-7, Right 2x4 SP No.2 - 4-3-7

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

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

**REACTIONS.** (lb/size) 2=1088/0-3-8 (min. 0-1-8), 10=1088/0-3-8 (min. 0-1-8)  
Max Horz 2=-276(LC 10)  
Max Uplift 2=-54(LC 12), 10=-54(LC 13)  
Max Grav 2=1258(LC 19), 10=1258(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1507/259, 3-15=-1397/266, 4-15=-1382/292, 4-5=-1376/398, 5-16=-1311/409,  
6-16=-1269/442, 6-17=-1269/442, 7-17=-1311/409, 7-8=-1377/398, 8-18=-1381/292,  
9-18=-1397/266, 9-10=-1507/259  
BOT CHORD 2-19=-85/1198, 19-20=-85/1198, 14-20=-85/1198, 14-21=0/814, 13-21=0/814, 13-22=0/814,  
12-22=0/814, 12-23=-71/1058, 23-24=-71/1058, 10-24=-71/1058  
WEBS 6-12=-197/777, 8-12=-432/308, 6-14=-197/777, 4-14=-432/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-9-9 to 3-7-4, Interior(1) 3-7-4 to 13-0-0, Exterior(2) 13-0-0 to 17-4-13, Interior(1) 17-4-13 to 26-9-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 2, 10.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-0840	Truss B3-GE	Truss Type GABLE	Qty 1	Ply 1	Hamilton Addition
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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5x5 =

Scale = 1:70.4

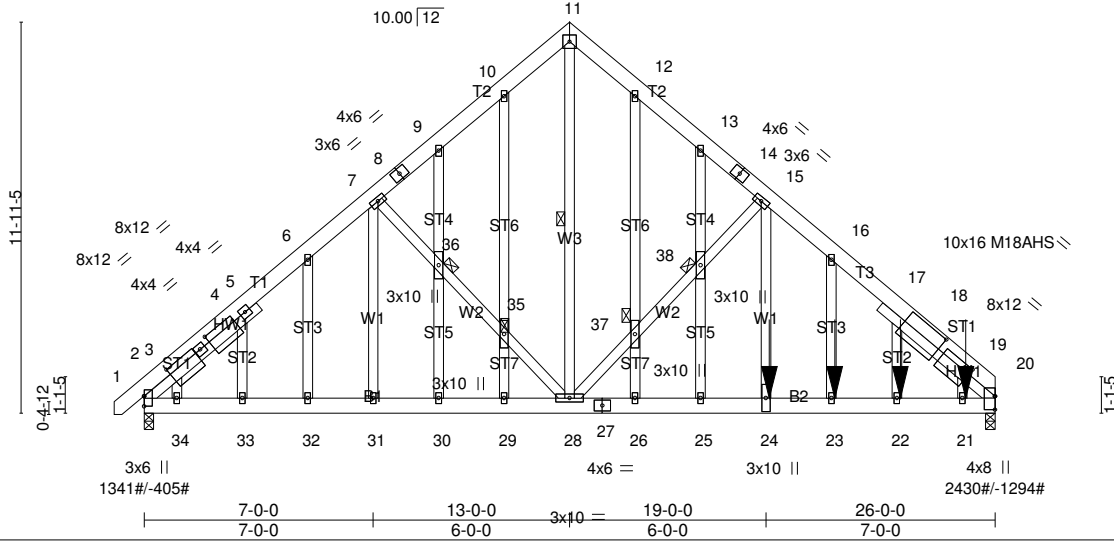


Plate Offsets (X,Y)-- [3:1-0-8,0-2-4], [4:2-7-0,0-2-8], [18:2-3-0,0-4-8], [19:1-0-8,0-2-4]

<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 0.37	Vert(LL)	0.16 22-23	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.15 22-23	>999	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.46	Horz(CT)	0.03 20	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 288 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.2  
SLIDER Left 2x4 SP No.2 - 4-5-15, Right 2x4 SP No.2 - 4-5-15

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.  
WEBS 1 Row at midpt 11-28  
JOINTS 1 Brace at Jt(s): 35, 36, 37, 38

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

**REACTIONS.** (lb/size) 2=1341/0-3-8 (min. 0-1-9), 20=2430/0-3-8 (min. 0-2-14)  
Max Horz 2=344(LC 5)  
Max Uplift 2=-405(LC 8), 20=-1294(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1676/462, 3-4=-1618/495, 4-5=-1484/505, 5-6=-1483/542, 6-7=-1464/577,  
7-8=-1248/559, 8-9=-1179/571, 9-10=-1215/635, 10-11=-1098/624, 11-12=-1124/645,  
12-13=-1231/641, 13-14=-1273/615, 14-15=-1304/603, 15-16=-2009/1014, 16-17=-2201/1078,  
17-18=-2090/990, 18-19=-2413/1136, 19-20=-2741/1316  
BOT CHORD 2-34=-449/1204, 33-34=-448/1205, 32-33=-447/1204, 31-32=-447/1204, 30-31=-447/1204,  
29-30=-447/1204, 28-29=-447/1204, 27-28=-743/1691, 26-27=-743/1691, 25-26=-743/1691,  
24-25=-743/1691, 23-24=-743/1691, 22-23=-743/1691, 21-22=-741/1688, 20-21=-731/1674  
WEBS 11-28=-658/1101, 28-37=-1211/982, 37-38=-1183/957, 15-38=-1204/978, 15-24=-686/897,  
7-36=-457/328, 35-36=-459/325, 28-35=-466/333, 19-21=-267/377

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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 MT20 plates unless otherwise indicated.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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) except (jt=lb) 2=405, 20=1294.
  - 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) 411 lb down and 337 lb up at 19-1-4, 411 lb down and 337 lb up at 21-1-4, and 411 lb down and 337 lb up at 23-1-4, and 412 lb down and 336 lb up at 25-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Hamilton Addition
J0222-0840	B3-GE	GABLE	1	1	Job Reference (optional)

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**NOTES-**

12) 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: 1-11=-60, 11-20=-60, 2-20=-20

Concentrated Loads (lb)

Vert: 24=-411(B) 23=-411(B) 22=-411(B) 21=-412(B)