

Job J0821-4934	Truss A1	Truss Type ATTIC	Qty 3	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:00:59 2021 Page 1
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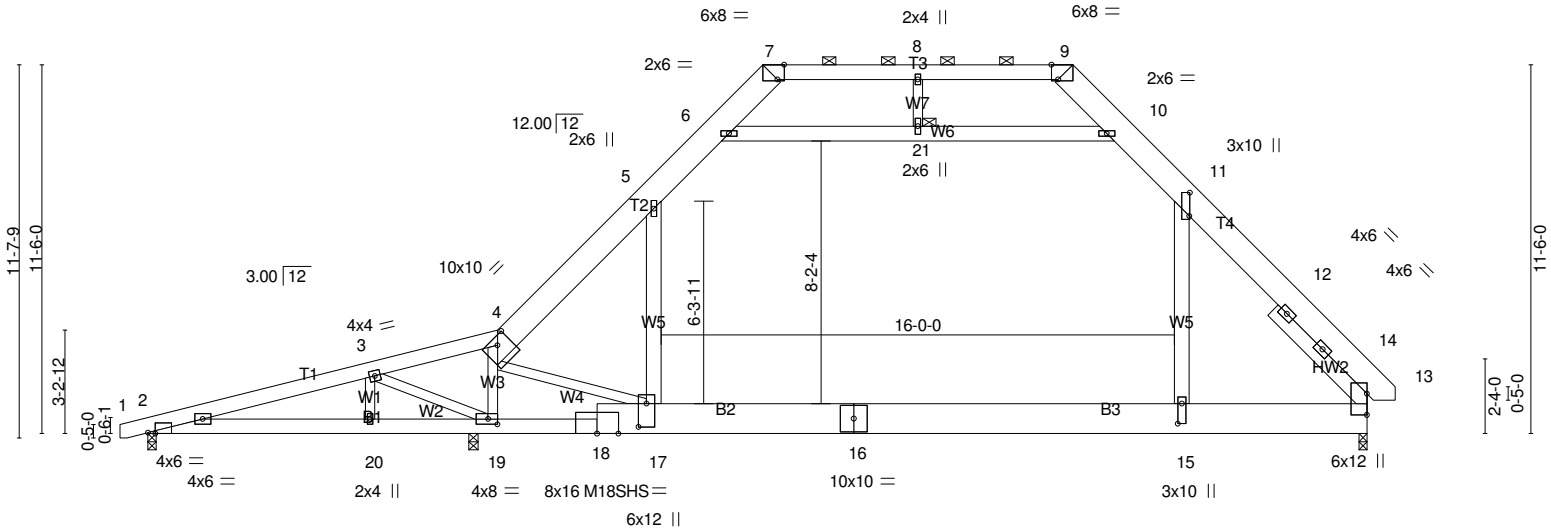
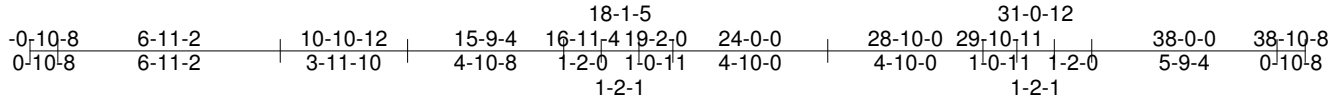


Plate Offsets (X,Y)-- [2:0-2-12,Edge], [4:0-4-12,0-2-12], [7:0-2-8,Edge], [9:0-2-8,Edge], [11:0-8-12,0-0-4], [15:0-7-8,0-1-8], [17:0-8-12,0-3-0], [19:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.25 15-17 >999 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.58	Vert(CT) -0.39 15-17 >836 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 13 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.05 15-17 >999 240		
				Weight: 393 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T2,T4: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x12 SP No.1 *Except* B1: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W5,W6: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 21
SLIDER Right 2x6 SP No.1 - 4-1-10	

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

REACTIONS. (lb/size) 2=465/0-3-0 (min. 0-1-8), 19=2033/0-3-8 (min. 0-2-13), 13=1515/0-3-0 (min. 0-2-5)
Max Horz 2=279(LC 9)
Max Uplift 2=-296(LC 8)
Max Grav 2=465(LC 1), 19=2358(LC 26), 13=1975(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-928/665, 3-22=-883/676, 3-4=-474/474, 4-23=-2308/0, 5-23=-2097/0,
5-6=-1429/158, 6-7=-600/206, 7-8=-423/205, 8-9=-423/205, 9-10=-568/207,
10-11=-1387/153, 11-24=-2292/0, 24-25=-2295/0, 12-25=-2383/0, 12-13=-2496/0
BOT CHORD 2-20=-458/699, 19-20=-458/699, 18-19=-244/321, 17-18=-222/384, 16-17=0/1412,
15-16=0/1412, 15-26=0/1405, 13-26=0/1405
WEBS 3-20=-178/278, 3-19=-813/558, 4-19=-2419/0, 4-17=-9/1582, 5-17=-41/1006,
11-15=0/1521, 6-21=-1511/0, 10-21=-1511/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-3 to 3-7-10, Interior(1) 3-7-10 to 19-4-12, Exterior(2) 19-4-12 to 24-0-0, Interior(1) 24-0-0 to 28-7-4, Exterior(2) 28-7-4 to 33-0-1, Interior(1) 33-0-1 to 38-6-7 zone; end vertical right exposed; porch 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.
 - 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, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 5-6, 10-11, 6-21, 10-21; Wall dead load (5.0psf) on member(s). 5-17, 11-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296.

Job	Truss	Truss Type	Qty	Ply	Ryan & Emily McNeil
J0821-4934	A1	ATTIC	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:00:59 2021 Page 2
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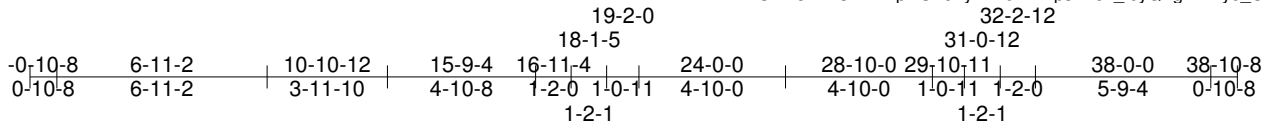
NOTES-

- 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.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job J0821-4934	Truss A1GE	Truss Type GABLE	Qty 1	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:00 2021 Page 1
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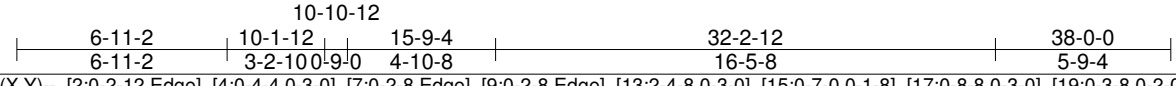
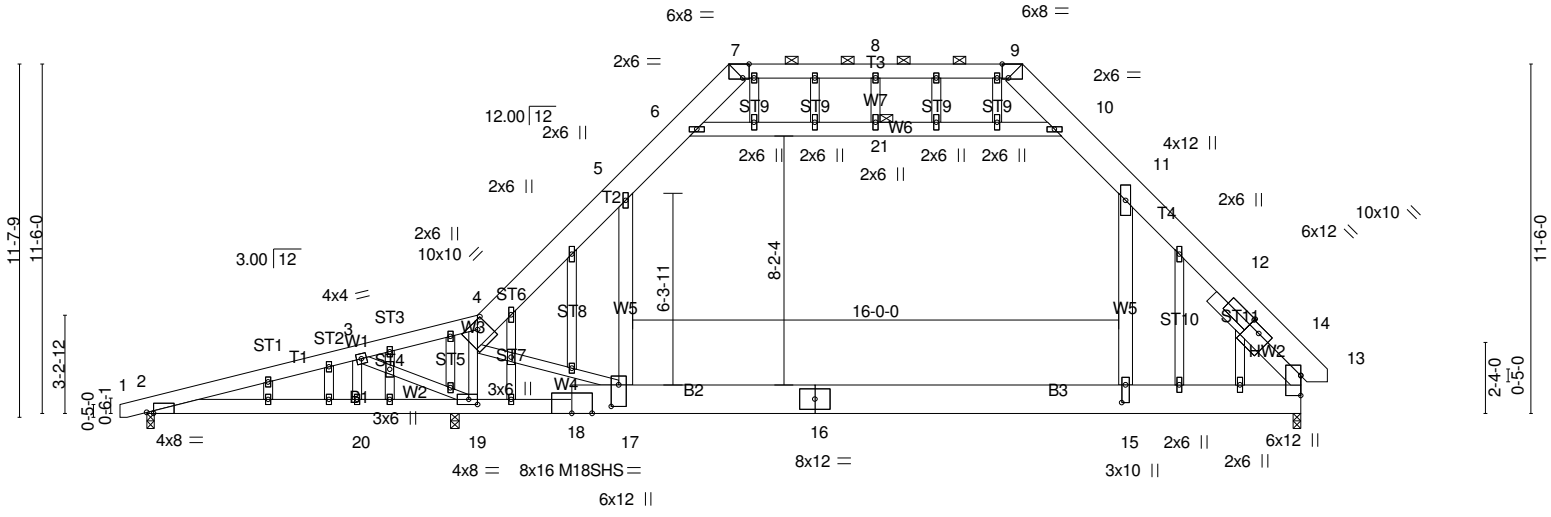


Plate Offsets (X,Y)-- [2:0-2-12,Edge], [4:0-4-4,0-3-0], [7:0-2-8,Edge], [9:0-2-8,Edge], [13:2-4-8,0-3-0], [15:0-7-0,0-1-8], [17:0-8-8,0-3-0], [19:0-3-8,0-2-0], [47:0-5-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.25 15-17 >999 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Vert(CT) -0.33 15-17 >991 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 15-17 >999 240		
				Weight: 428 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T2,T4: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x12 SP No.1 *Except* B1: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W5,W6: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 21
OTHERS 2x4 SP No.2	
SLIDER Right 2x6 SP No.1 ~ 4-1-10	

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

REACTIONS. (lb/size) 2=463/0-3-0 (min. 0-1-8), 19=1866/0-3-8 (min. 0-2-9), 13=1355/0-3-0 (min. 0-2-2)
 Max Horz 2=353(LC 9)
 Max Uplift 2=-407(LC 8), 19=-189(LC 12), 13=-32(LC 13)
 Max Grav 2=463(LC 1), 19=2191(LC 26), 13=1801(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-48=-958/888, 3-48=-914/899, 3-4=-599/554, 4-5=-2068/145, 5-6=-1321/269,
 6-7=-640/251, 7-8=-487/279, 8-9=-487/279, 9-10=-607/281, 10-11=-1284/265,
 11-12=-2030/46, 12-13=-2230/27
 BOT CHORD 2-49=-642/688, 20-49=-642/688, 19-20=-642/688, 18-19=-241/335, 17-18=-229/391,
 16-17=0/1263, 15-16=0/1263, 15-50=0/1257, 13-50=0/1257
 WEBS 3-20=-189/255, 3-19=-781/745, 4-19=-2169/150, 4-17=-235/1423, 5-17=-208/839,
 11-15=0/1296, 6-21=-1335/263, 10-21=-1335/263

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-9-3 to 3-7-10, Exterior(2) 3-7-10 to 19-4-12, Corner(3) 19-4-12 to 24-0-0, Exterior(2) 24-0-0 to 28-7-4, Corner(3) 28-7-4 to 33-0-1, Exterior(2) 33-0-1 to 38-6-7 zone; end vertical right exposed; porch left 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Ryan & Emily McNeil
J0821-4934	A1GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:00 2021 Page 2
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NOTES-

- 9) * 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.
- 10) Ceiling dead load (10.0 psf) on member(s). 4-5, 5-6, 10-11, 6-21, 10-21; Wall dead load (5.0psf) on member(s).5-17, 11-15
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=407, 19=189.
- 13) 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.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

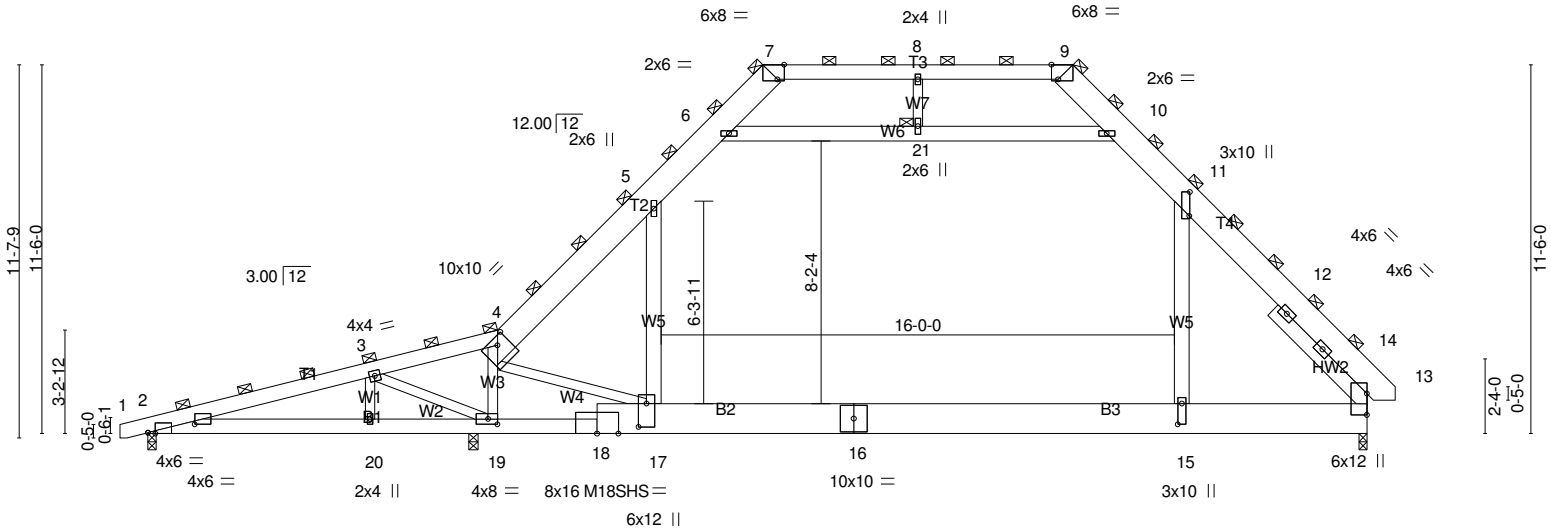
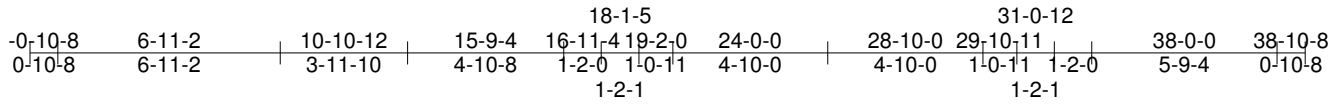


Plate Offsets (X,Y)-- [2:0-2-12,Edge], [2:1-5-8,0-3-2], [3:0-0-0,0-0-0], [4:0-4-4,0-2-12], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-2-8,Edge], [8:0-0-0,0-0-0], [9:0-2-8,Edge], [11:0-9-0,0-0-4], [15:0-7-12,0-1-8], [17:0-8-12,0-3-0], [19:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	5-0-0	TC 0.59	Vert(LL)	-0.31	15-17	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(CT)	-0.40	15-17	>813	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Horz(CT)	0.03	13	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.06	15-17	>999		
	Code IRC2015/TPI2014						Weight: 785 lb	FT = 20%

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
T2,T4: 2x10 SP No.1
BOT CHORD 2x12 SP No.1 *Except*
B1: 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
W5,W6: 2x6 SP No.1
SLIDER Right 2x6 SP No.1 - 4-1-10 | BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 17-19.
JOINTS 1 Brace at Jt(s): 4, 7, 9, 21 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

REACTIONS. (lb/size) 2=1167/0-3-0 (min. 0-1-8), 19=4654/0-3-8 (min. 0-2-4), 13=3390/0-3-0 (min. 0-2-11)
 Max Horz 2=697(LC 9)
 Max Uplift 2=-750(LC 8), 19=-5(LC 9)
 Max Grav 2=1167(LC 1), 19=5485(LC 26), 13=4534(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-22=-2268/1707, 3-22=-2157/1734, 3-4=-1198/1158, 4-23=-5226/98, 5-23=-4697/211,
 5-6=-3303/568, 6-7=-1600/451, 7-8=-1216/415, 8-9=-1216/415, 9-10=-1516/447,
 10-11=-3219/549, 11-24=-5083/49, 24-25=-5091/9, 12-25=-5311/0, 12-13=-5581/0
 BOT CHORD 2-20=-1186/1701, 19-20=-1186/1701, 18-19=-573/844, 17-18=-544/932, 16-17=0/3164,
 15-16=0/3164, 15-26=0/3149, 13-26=0/3149
 WEBS 3-20=-475/632, 3-19=-1929/1427, 4-19=-5449/126, 4-17=-259/3570, 5-17=-515/2117,
 11-15=0/3233, 6-21=-3248/285, 10-21=-3248/285, 8-21=0/363

- 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, 2x10 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x12 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-3 to 3-7-10, Interior(1) 3-7-10 to 19-4-12, Exterior(2) 19-4-12 to 24-0-0, Interior(1) 24-0-0 to 28-7-4, Exterior(2) 28-7-4 to 33-0-1, Interior(1) 33-0-1 to 38-6-7 zone; end vertical right exposed; porch 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.

Job J0821-4934	Truss A2-2PLY	Truss Type ATTIC	Qty 1	Ply 2	Ryan & Emily McNeil Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:01 2021 Page 2
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NOTES-

- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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.
- 9) Ceiling dead load (10.0 psf) on member(s). 4-5, 5-6, 10-11, 6-21, 10-21; Wall dead load (5.0psf) on member(s).5-17, 11-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 2=750.
- 12) 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.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

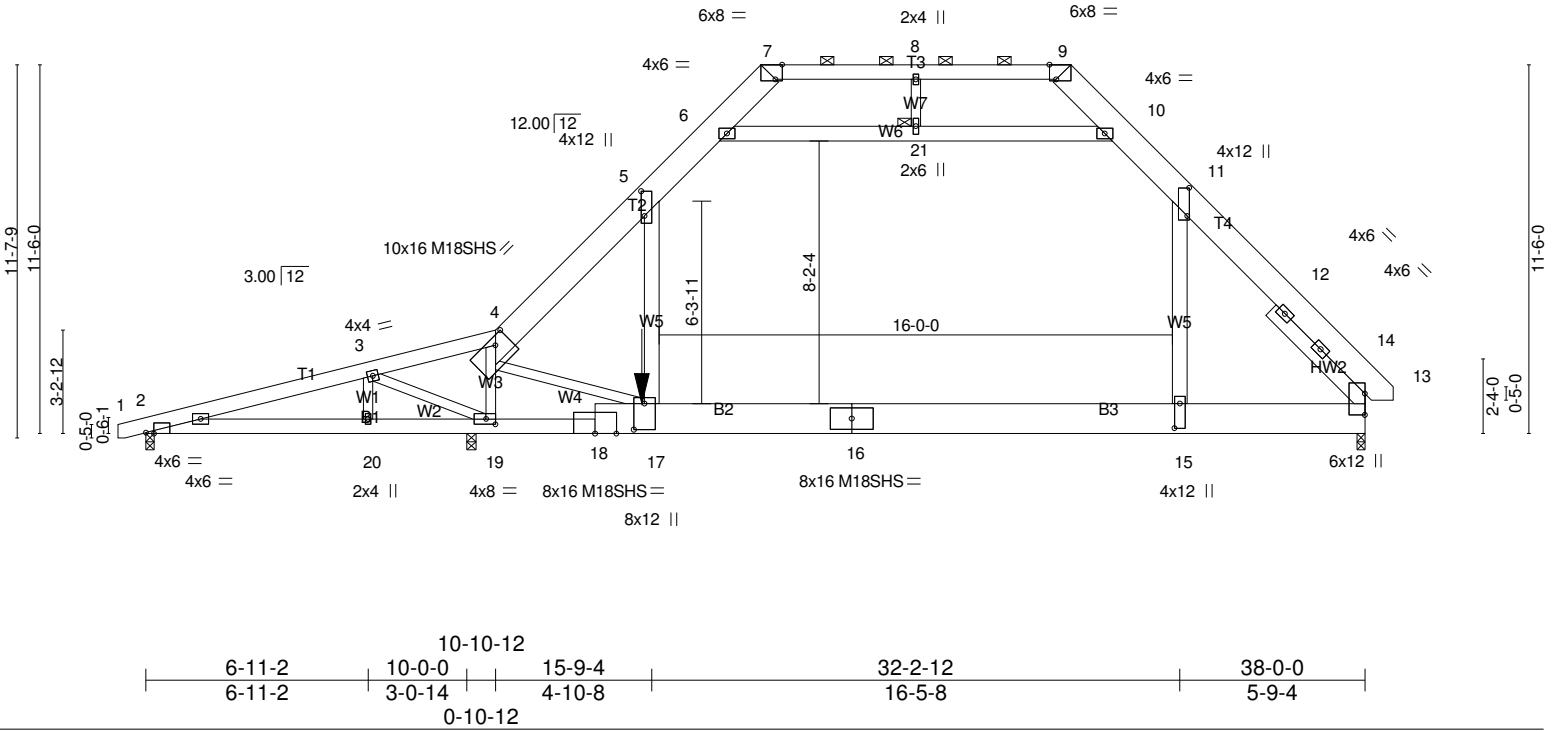
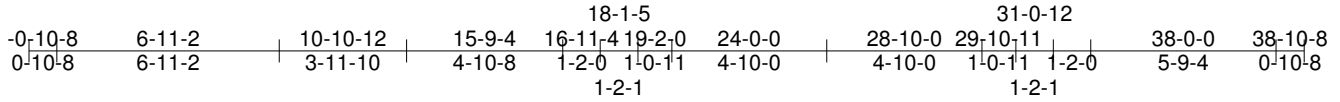


Plate Offsets (X, Y)-- [2:0-2-15,Edge], [4:0-5-4,0-2-12], [5:0-9-4,0-1-4], [7:0-2-8,Edge], [9:0-2-8,Edge], [11:0-10-8,0-0-12], [15:0-9-4,0-2-0], [17:0-9-12,0-4-0], [19:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.94	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(LL) -0.44 15-17 >743 360	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.59	Horz(CT) 0.03 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 17 >999 240		Weight: 1178 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T2,T4: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 7-9.
BOT CHORD 2x12 SP 2400F 2.0E *Except* B1: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W5,W6: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 21
SLIDER Right 2x6 SP No.1 - 4-1-10	

REACTIONS. (lb/size) 2=-224/0-3-0 (min. 0-1-8), 19=6431/0-3-8 (min. 0-2-6), 13=2990/0-3-0 (min. 0-2-6)
Max Horz 2=279(LC 5)
Max Uplift 2=-644(LC 24), 19=-357(LC 5)
Max Grav 2=724(LC 18), 19=8631(LC 22), 13=8533(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2298/2293, 3-4=-1238/2959, 4-5=-8984/0, 5-6=-4506/0, 6-7=-229/1286, 7-8=0/2215, 8-9=0/2215, 9-10=-249/1456, 10-11=-4339/0, 11-12=-10099/0, 12-13=-10329/0
BOT CHORD 2-20=-2162/2008, 19-20=-2162/2008, 18-19=-2559/1393, 18-22=-2576/1660, 17-22=-2136/1632, 16-17=0/5924, 15-16=0/5924, 15-23=0/5874, 13-23=0/5874
WEBS 3-20=-126/756, 3-19=-1262/295, 4-19=-9799/0, 4-17=-435/7128, 5-17=0/6188, 11-15=0/8176, 6-21=-8139/0, 10-21=-8139/0

- NOTES-**
- 3-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, 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x12 - 4 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical right exposed; porch left 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, with BCDL = 10.0psf.

Job J0821-4934	Truss A2GR	Truss Type ATTIC	Qty 2	Ply 3	Ryan & Emily McNeil Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:01 2021 Page 2
ID:xUYlh3FYZsVr2Bxp2ISVcKynEL6-QT?B4Z4xplQzaa5so?eSVrXFQaAgW4V4oCwuZcymxlW

NOTES-

- 9) Ceiling dead load (10.0 psf) on member(s). 4-5, 5-6, 10-11, 6-21, 10-21; Wall dead load (5.0psf) on member(s).5-17, 11-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=644, 19=357.
- 12) 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.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3245 lb down and 743 lb up at 15-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-80, 6-7=-60, 7-9=-60, 9-10=-60, 10-11=-80, 11-14=-60, 2-17=-20, 13-17=-122(F=-102), 6-10=-20

Drag: 5-17=-10, 11-15=-10

Concentrated Loads (lb)

Vert: 22=-3245(B)

Job J0821-4934	Truss A3SGE	Truss Type GABLE	Qty 1	Ply 2	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:02 2021 Page 1
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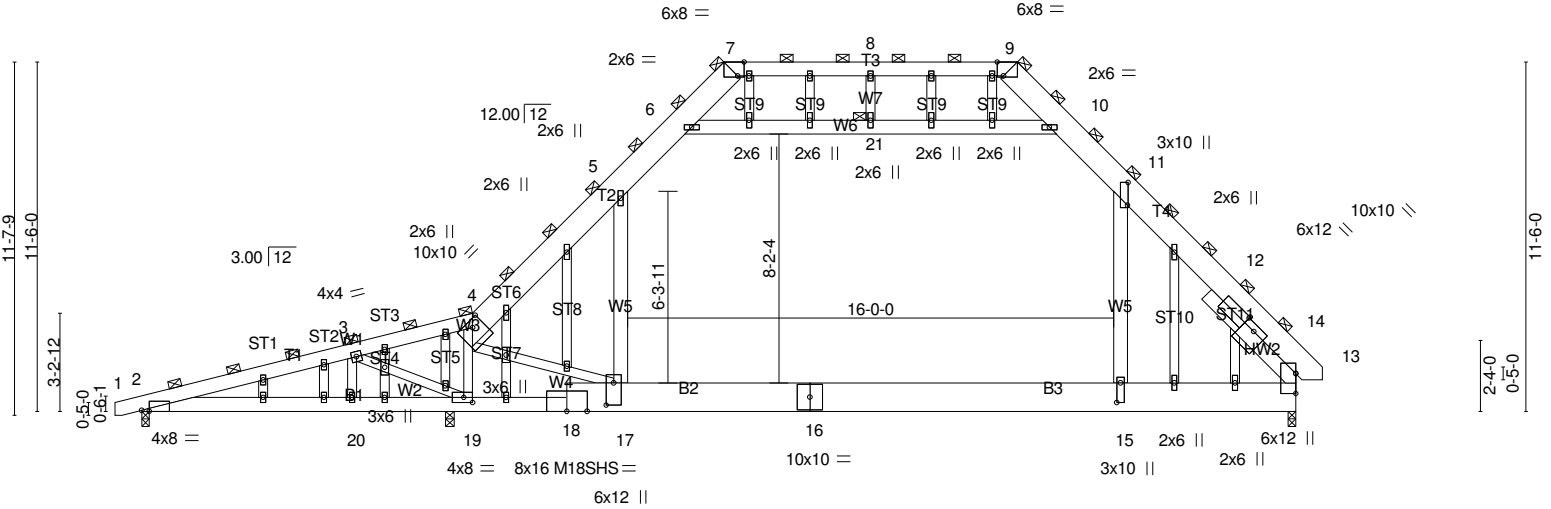
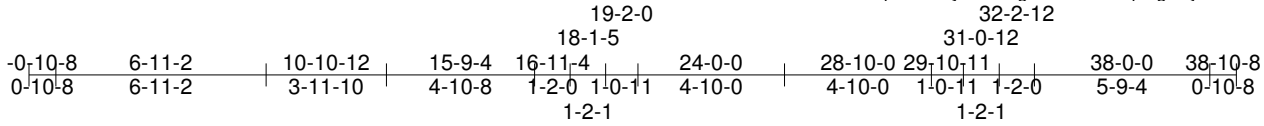


Plate Offsets (X,Y)-- [2:0-2-15,Edge], [4:0-4-4,0-2-12], [7:0-2-8,Edge], [9:0-2-8,Edge], [11:0-9-0,0-0-4], [13:2-4-8,0-3-0], [15:0-7-12,0-1-8], [17:0-8-12,0-3-0], [19:0-3-8,0-2-0], [47:0-5-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	5-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(LL) -0.31 15-17 >999 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.40 15-17 >813 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 15-17 >999 240		
				Weight: 856 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 T2,T4: 2x10 SP No.1
 BOT CHORD 2x12 SP No.1 *Except*
 B1: 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.2 *Except*
 W5,W6: 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Right 2x6 SP No.1 - 4-1-10

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
 (Switched from sheeted: Spacing > 2-0-0).
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 6-0-0 oc bracing: 17-19.
 JOINTS 1 Brace at Jt(s): 4, 7, 9, 21

REACTIONS. (lb/size) 2=1167/0-3-0 (min. 0-1-8), 19=4654/0-3-8 (min. 0-2-4), 13=3390/0-3-0 (min. 0-2-10)
 Max Horz 2=881(LC 9)
 Max Uplift 2=-1029(LC 8), 19=-471(LC 12), 13=-81(LC 13)
 Max Grav 2=1167(LC 1), 19=5485(LC 26), 13=4502(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-48=-2372/2256, 3-48=-2261/2283, 3-4=-1479/1414, 4-5=-5190/368, 5-6=-3303/677,
 6-7=-1600/629, 7-8=-1216/698, 8-9=-1216/698, 9-10=-1516/702, 10-11=-3219/666,
 11-12=-5083/126, 12-13=-5581/78
 BOT CHORD 2-49=-1639/1701, 20-49=-1639/1701, 19-20=-1639/1701, 18-19=-601/844, 17-18=-585/962,
 16-17=0/3164, 15-16=0/3164, 15-50=0/3149, 13-50=0/3149
 WEBS 3-20=-468/632, 3-19=-1929/1843, 4-19=-5449/356, 4-17=-566/3599, 5-17=-515/2117,
 11-15=0/3233, 6-21=-3348/663, 10-21=-3348/663, 8-21=0/393

NOTES-
 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x12 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 3) Unbalanced roof live loads have been considered for this design.
 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-9-3 to 3-7-10, Exterior(2) 3-7-10 to 19-4-12, Corner(3) 19-4-12 to 24-0-0, Exterior(2) 24-0-0 to 28-7-4, Corner(3) 28-7-4 to 33-0-1, Exterior(2) 33-0-1 to 38-6-7 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 Continued on page 2

Job J0821-4934	Truss A3SGE	Truss Type GABLE	Qty 1	Ply 2	Ryan & Emily McNeil Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:02 2021 Page 2
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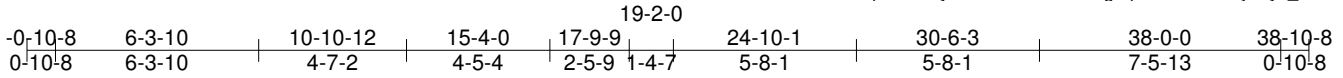
NOTES-

- 5) 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.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Ceiling dead load (10.0 psf) on member(s). 4-5, 5-6, 10-11, 6-21, 10-21; Wall dead load (5.0psf) on member(s).5-17, 11-15
- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-17
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=1029, 19=471.
- 15) 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.
- 16) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job J0821-4934	Truss B1	Truss Type Piggyback Base	Qty 5	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:03 2021 Page 1
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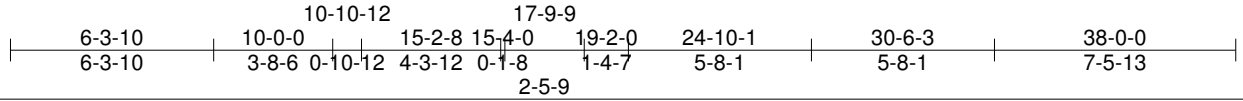
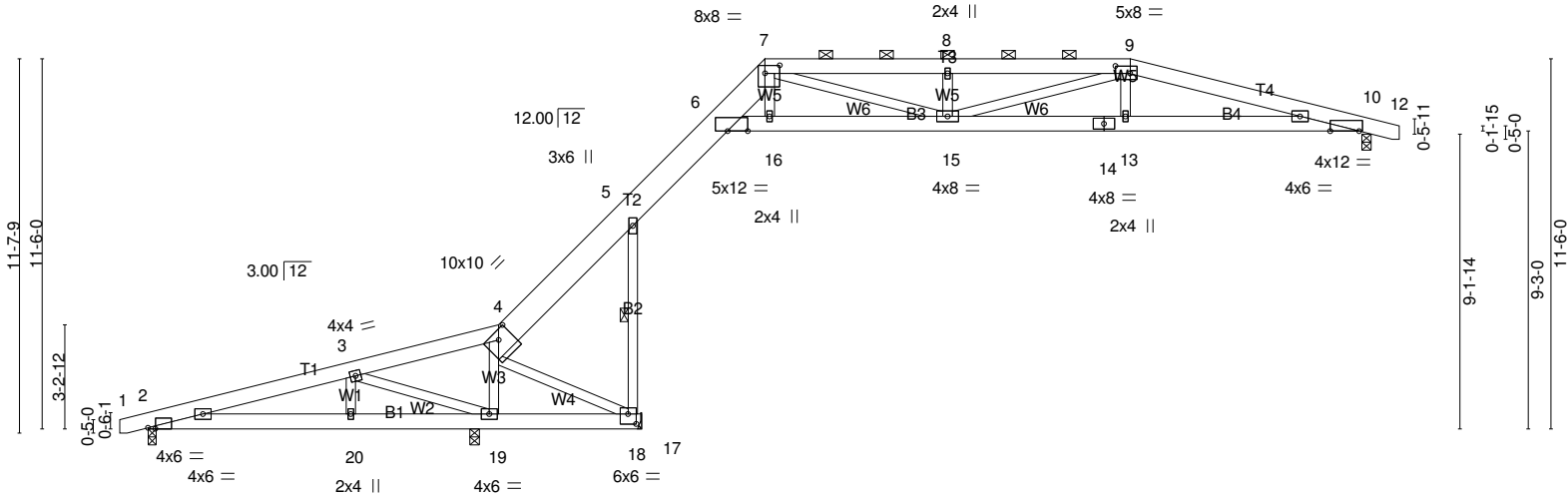


Plate Offsets (X,Y)-- [2:0-2-12,Edge], [4:0-5-0,0-3-0], [6:0-7-8,0-0-0], [7:0-5-8,0-3-0], [9:0-5-8,0-2-12], [10:0-10-12,Edge], [18:0-3-0,0-3-12]

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 0.42	Vert(LL)	-0.12	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.24	13-15	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.14	11	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.10	13-15	>999		
								Weight: 255 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T2: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins, except 2-0-0 oc purlins (4-10-11 max.): 7-9.
BOT CHORD 2x6 SP No.1 *Except* B2: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19. 5-1-0 oc bracing: 5-18
WEBS 2x4 SP No.2	

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

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0, 18=Mechanical.
 (lb) - Max Horz 2=321(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 19 except 18=245(LC 12), 11=123(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=396(LC 23), 19=627(LC 23), 18=1158(LC 1), 11=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-21=-527/58, 3-21=-474/68, 3-4=-267/461, 4-5=-308/471, 5-6=-605/115, 6-7=-1537/356,
 7-22=-2435/588, 8-22=-2428/589, 8-9=-2429/591, 9-23=-2454/516, 10-23=-2491/504
 BOT CHORD 2-20=-194/469, 19-20=-194/469, 18-19=-302/36, 5-18=-1314/537, 6-16=-310/1352,
 15-16=-309/1380, 14-15=-437/2395, 13-14=-437/2395, 10-13=-442/2381
 WEBS 3-19=-831/210, 7-16=0/351, 7-15=-216/1127, 8-15=-279/162, 9-15=-84/256, 9-13=0/298,
 4-18=-42/350

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-9-3 to 3-7-10, Interior(1) 3-7-10 to 19-2-0, Exterior(2) 19-2-0 to 23-6-13, Interior(1) 23-6-13 to 38-9-3 zone; C-C for members and 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 100 lb uplift at joint(s) 2, 19 except (jt=lb) 18=245, 11=123.

Job	Truss	Truss Type	Qty	Ply	Ryan & Emily McNeil
J0821-4934	B1	Piggyback Base	5	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:03 2021 Page 2
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NOTES-

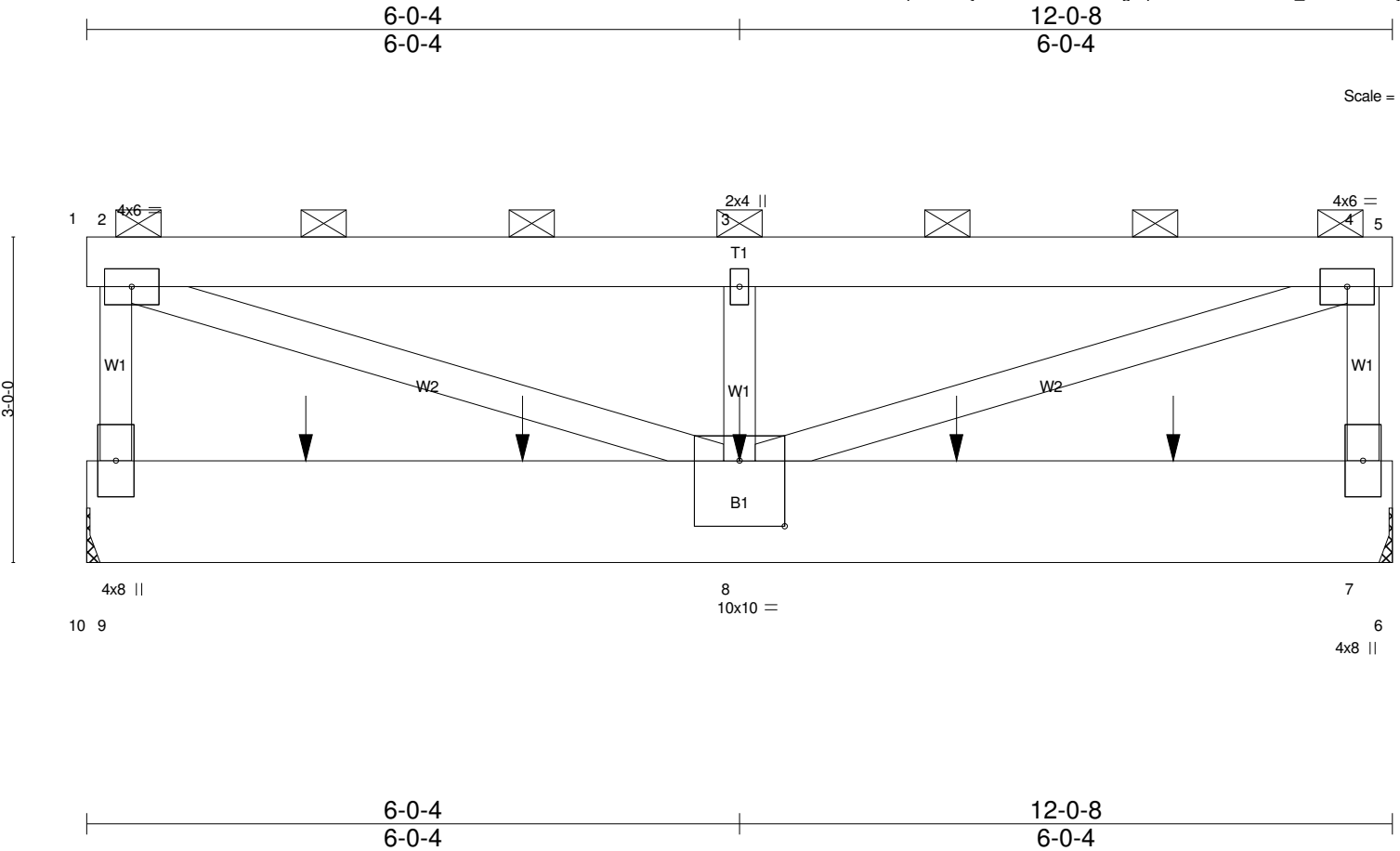
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job J0821-4934	Truss FT1	Truss Type FLAT	Qty 1	Ply 2	Ryan & Emily McNeil
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Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:03 2021 Page 1
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Scale = 1:19.7

Plate Offsets (X,Y)-- [8:0-5-0,0-7-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) -0.05 8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.09 8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 8 >999 240	Weight: 220 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x12 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=3265/Mechanical, 7=3265/Mechanical
 Max Uplift 9=-723(LC 8), 7=-723(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-1882/523, 2-11=-4281/1046, 3-11=-4281/1046, 3-12=-4281/1046, 4-12=-4281/1046,
 4-7=-1882/523
 WEBS 2-8=-1081/4432, 3-8=-268/314, 4-8=-1081/4432

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x12 - 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 Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 12-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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) except (jt=lb) 9=723, 7=723.
 - 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.
 - 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) 1118 lb down and 285 lb up at 2-0-4, 1118 lb down and 285 lb up at 4-0-4, 1118 lb down and 285 lb up at 6-0-4, and 1118 lb down and 285 lb up at 8-0-4, and 1118 lb down and 285 lb up at 10-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Job J0821-4934	Truss FT1	Truss Type FLAT	Qty 1	Ply 2	Ryan & Emily McNeil Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

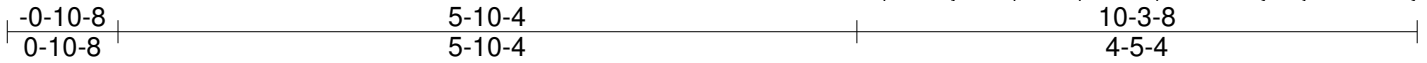
Vert: 1-2=-20, 2-4=-60, 4-5=-20, 6-10=-20

Concentrated Loads (lb)

Vert: 8=-1118(B) 13=-1118(B) 14=-1118(B) 15=-1118(B) 16=-1118(B)

Job J0821-4934	Truss M1	Truss Type Monopitch	Qty 2	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

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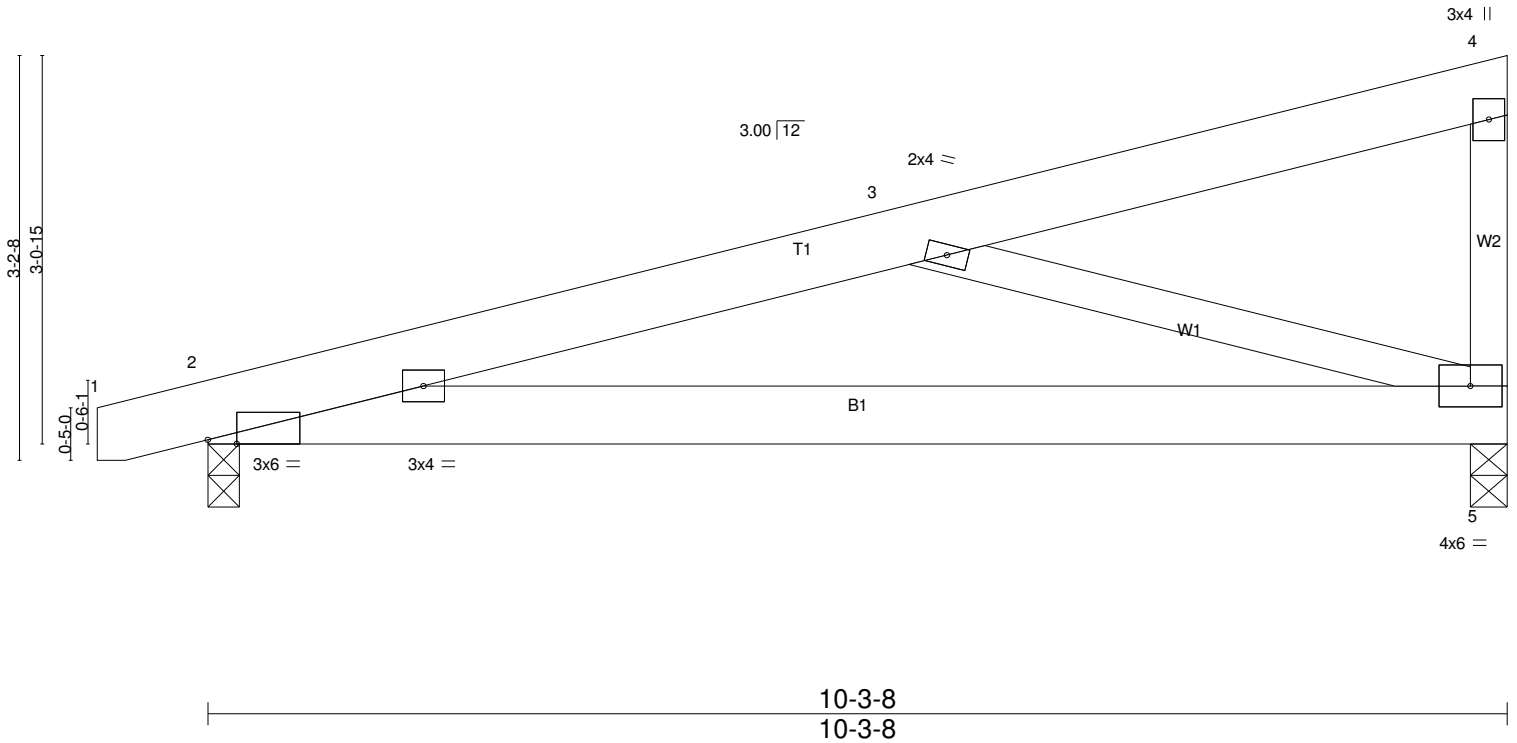


Plate Offsets (X,Y)-- [2:0-2-12,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL) -0.09	2-5	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(CT) -0.18	2-5	>678	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.19	2-5	>617	240		
	Code IRC2015/TPI2014						Weight: 61 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-8 oc bracing.

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

REACTIONS. (lb/size) 5=398/0-3-8 (min. 0-1-8), 2=457/0-3-0 (min. 0-1-8)
Max Horz 2=91(LC 8)
Max Uplift 5=-164(LC 8), 2=-178(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-705/458, 3-6=-660/473
BOT CHORD 2-5=-562/658
WEBS 3-5=-651/513

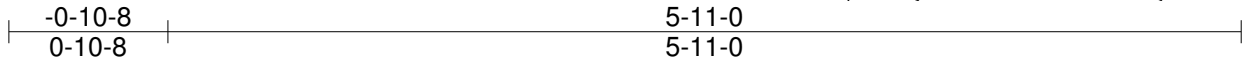
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-3 to 3-7-10, Interior(1) 3-7-10 to 10-1-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=164, 2=178.
 - 5) 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.
 - 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

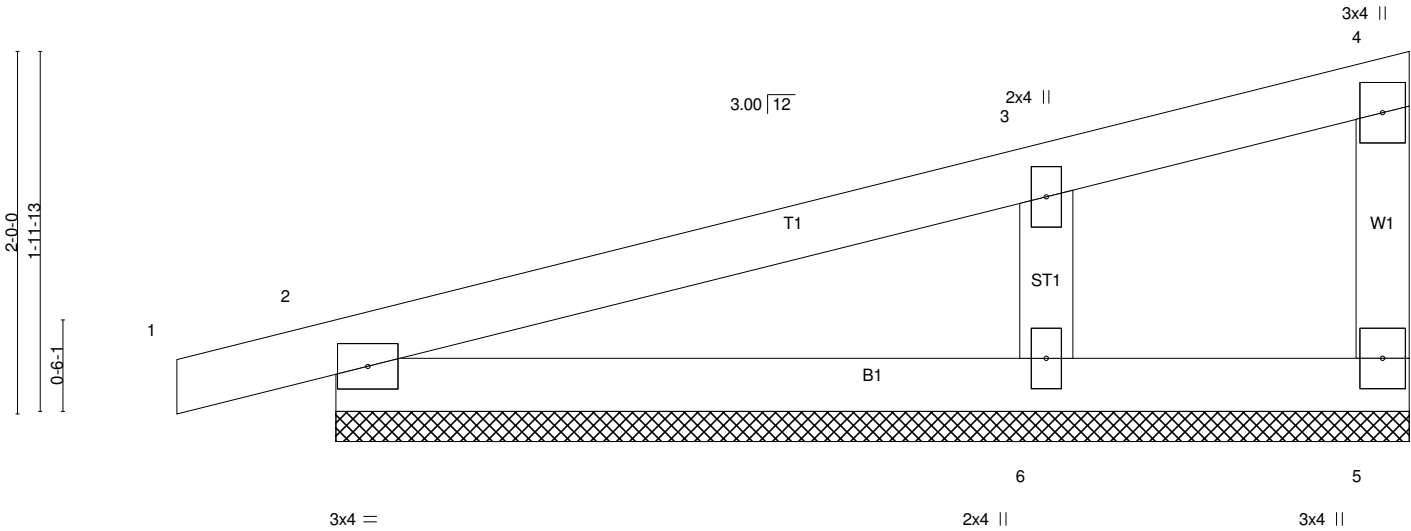
Job J0821-4934	Truss M2GE	Truss Type MONOPITCH SUPPORTED	Qty 2	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:05 2021 Page 1
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Scale = 1:12.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a		
	Code IRC2015/TPI2014			Weight: 23 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 5=17/5-11-0 (min. 0-1-8), 2=188/5-11-0 (min. 0-1-8), 6=310/5-11-0 (min. 0-1-8)
Max Horz 2=78(LC 8)
Max Uplift 5=7(LC 8), 2=-71(LC 8), 6=-103(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-229/374

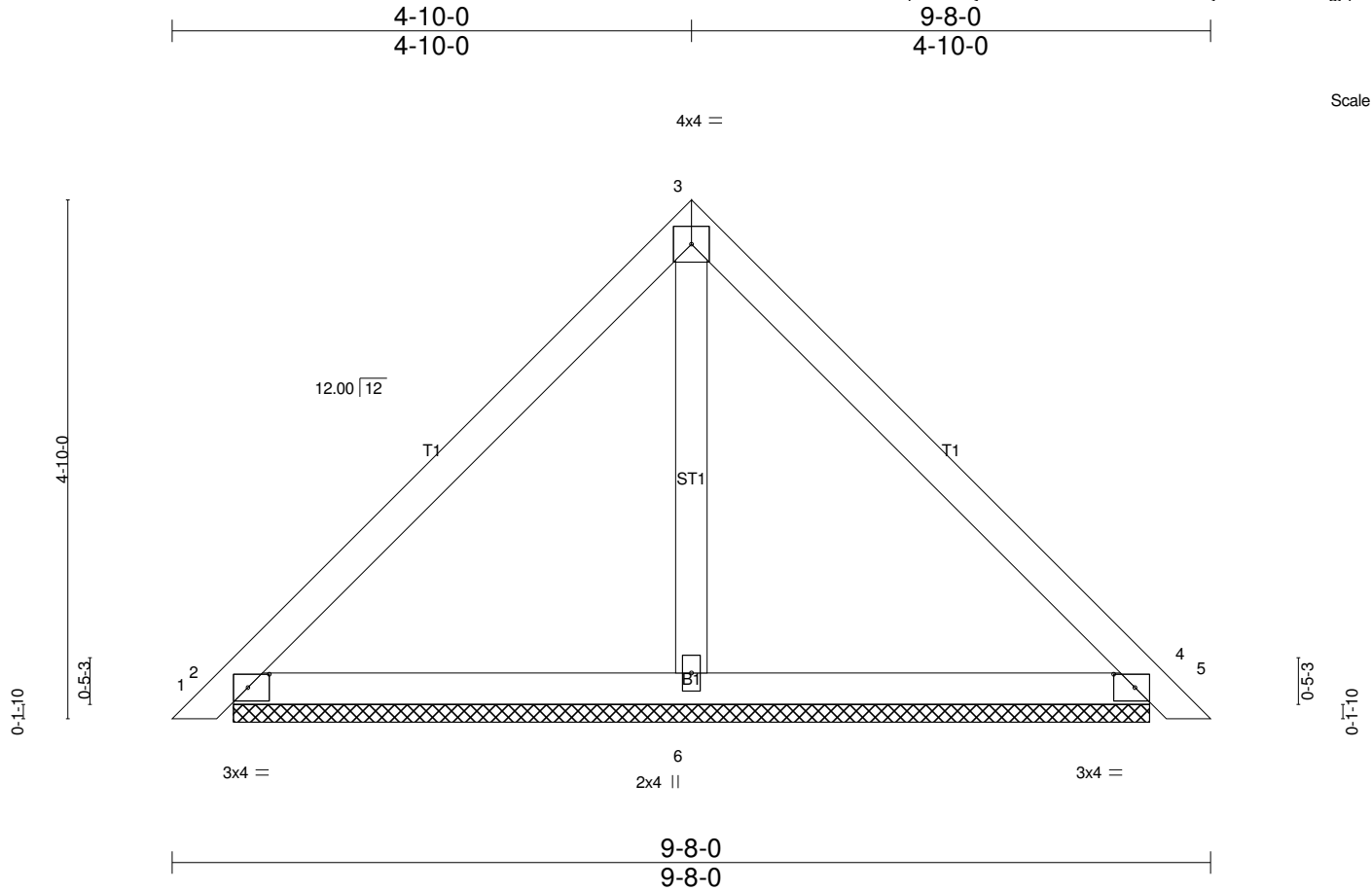
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 5-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=103.
 - 8) 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 J0821-4934	Truss PB-2PLY	Truss Type PIGGYBACK	Qty 1	Ply 2	Ryan & Emily McNeil
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Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:05 2021 Page 1
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Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	0.01	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 78 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 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. (lb/size) 2=231/8-6-6 (min. 0-1-8), 4=231/8-6-6 (min. 0-1-8), 6=264/8-6-6 (min. 0-1-8)
Max Horz 2=111(LC 11)
Max Uplift 2=-40(LC 13), 4=-43(LC 13)
Max Grav 2=231(LC 1), 4=231(LC 1), 6=266(LC 3)

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

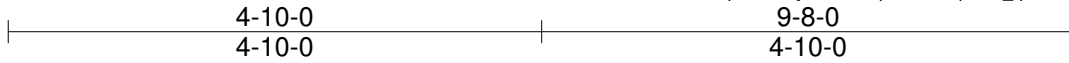
NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords 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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 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, 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job J0821-4934	Truss PBA	Truss Type Piggyback	Qty 5	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

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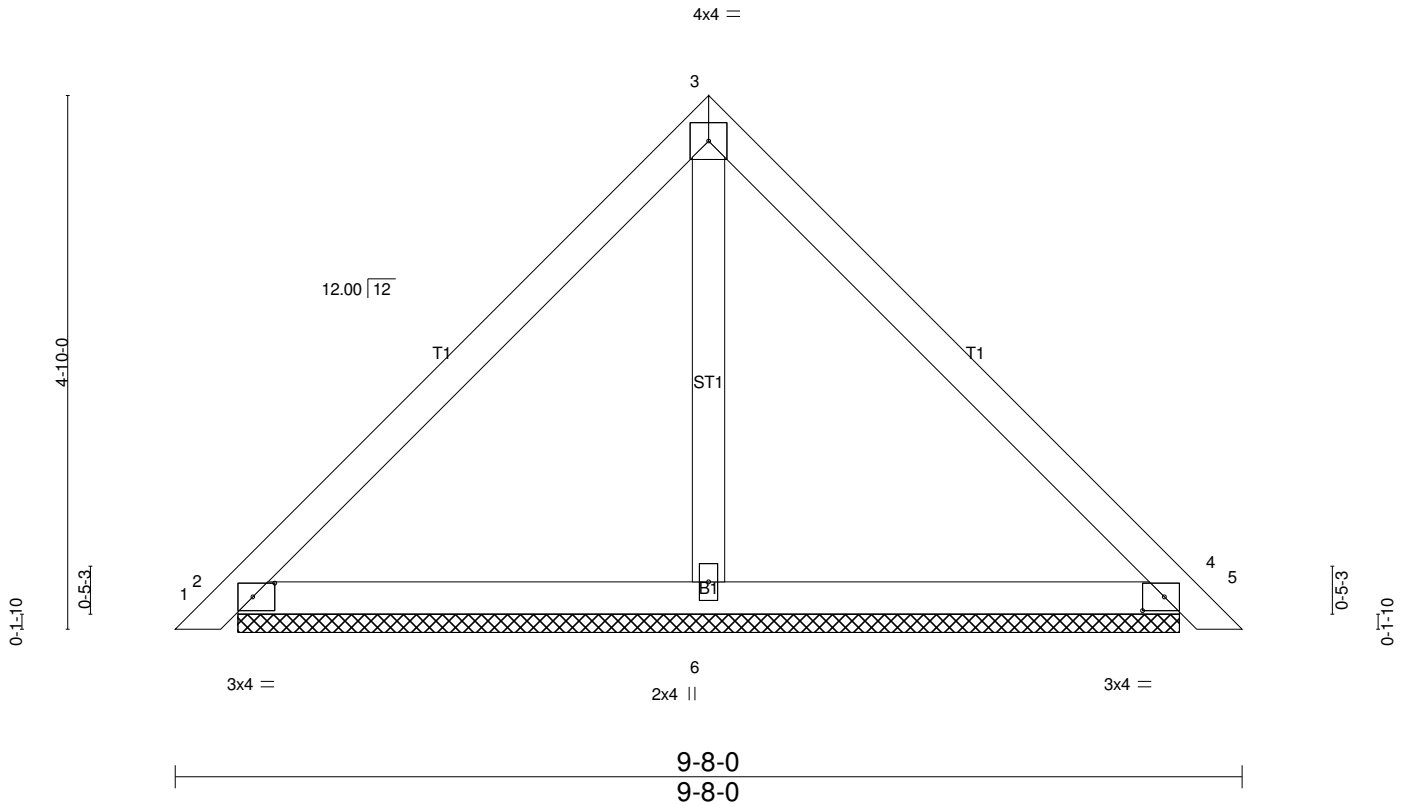


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL)	0.01	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	0.02	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 39 lb	FT = 20%

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

BRACING-
 TOP CHORD
 BOT CHORD

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

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

REACTIONS. (lb/size) 2=231/8-6-6 (min. 0-1-8), 4=231/8-6-6 (min. 0-1-8), 6=264/8-6-6 (min. 0-1-8)
 Max Horz 2=-111(LC 10)
 Max Uplift 2=-40(LC 13), 4=-43(LC 13)
 Max Grav 2=231(LC 1), 4=231(LC 1), 6=266(LC 3)

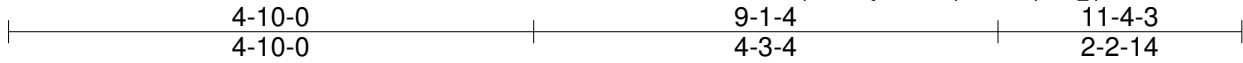
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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, 4.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job J0821-4934	Truss PBC	Truss Type Piggyback	Qty 5	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

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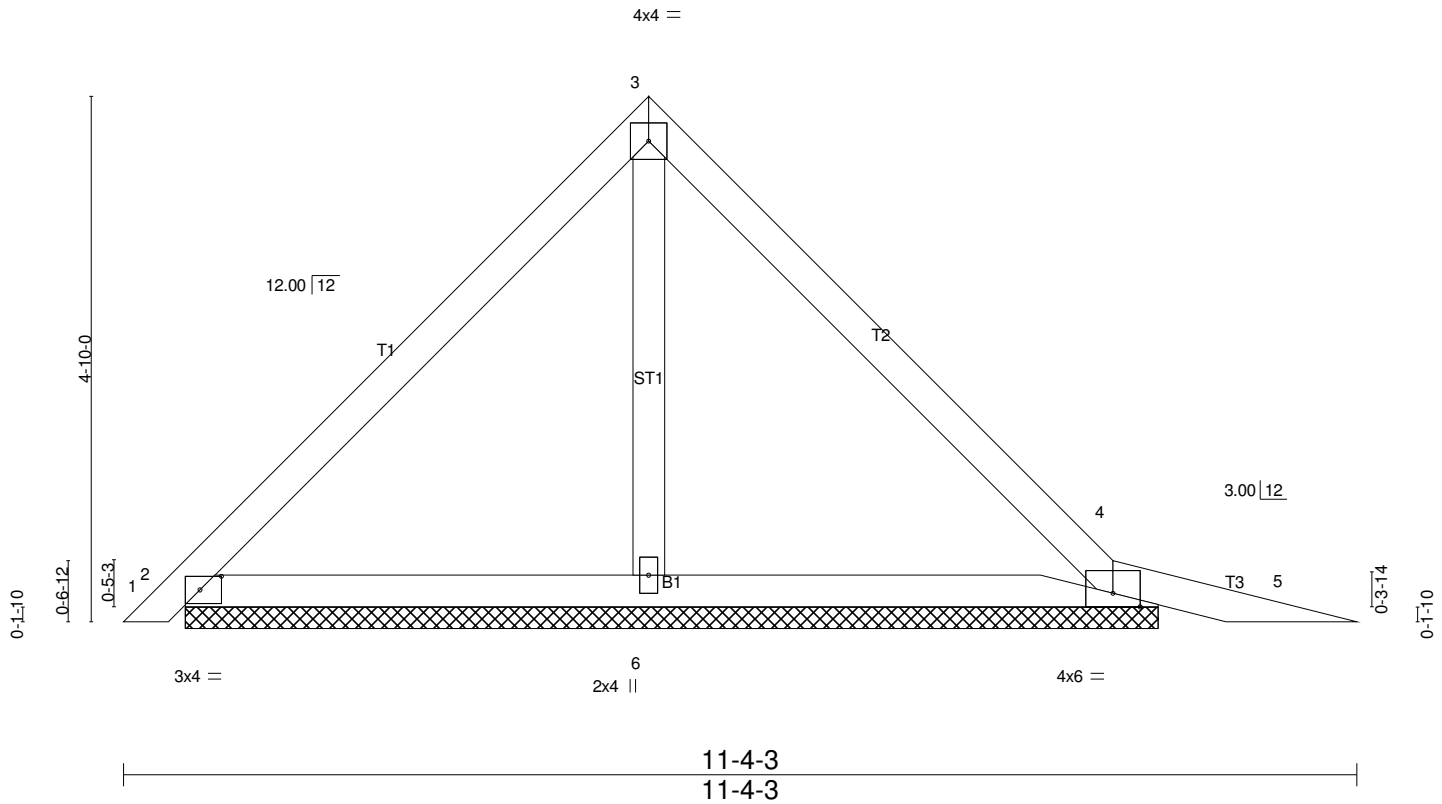


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 42 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (lb/size) 4=317/8-11-7 (min. 0-1-8), 2=222/8-11-7 (min. 0-1-8), 6=263/8-11-7 (min. 0-1-8)
 Max Horz 2=-113(LC 8)
 Max Uplift 4=-54(LC 13), 2=-29(LC 13)

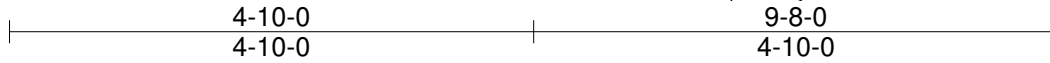
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-8 to 9-1-4, Interior(1) 9-1-4 to 10-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 4, 2.
 - 7) 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.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

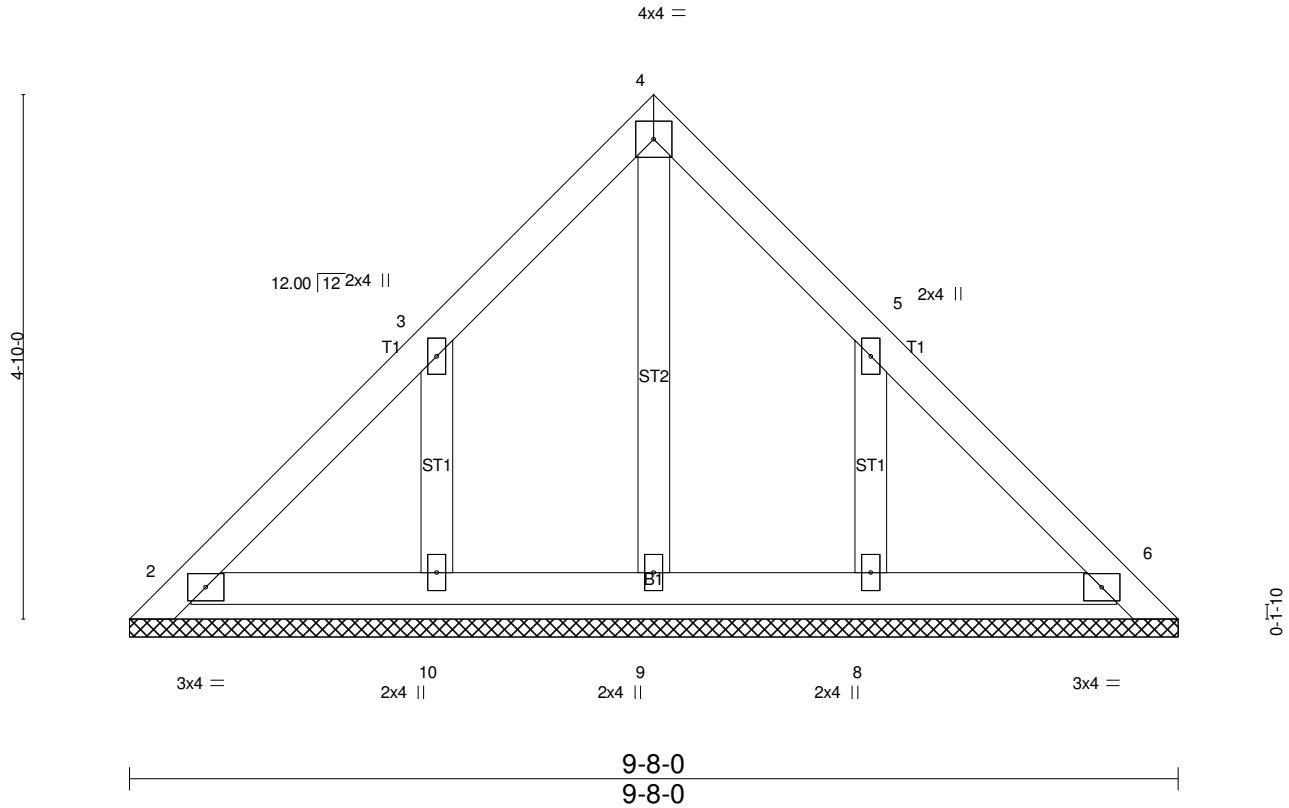
LOAD CASE(S) Standard

Job J0821-4934	Truss PBGE	Truss Type GABLE	Qty 1	Ply 1	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:07 2021 Page 1
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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) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 45 lb	FT = 20%

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

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

REACTIONS. All bearings 9-8-0.
(lb) - Max Horz 1=-139(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7, 6 except 1=-151(LC 10), 2=-113(LC 12), 10=-168(LC 12), 8=-167(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

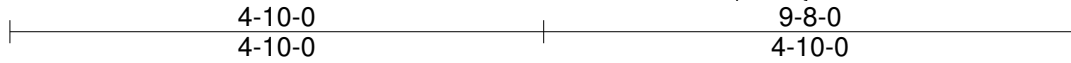
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable 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.
 - Bearing at joint(s) 7, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6 except (jt=lb) 1=151, 2=113, 10=168, 8=167.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job J0821-4934	Truss PBSGE	Truss Type GABLE	Qty 1	Ply 2	Ryan & Emily McNeil
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)

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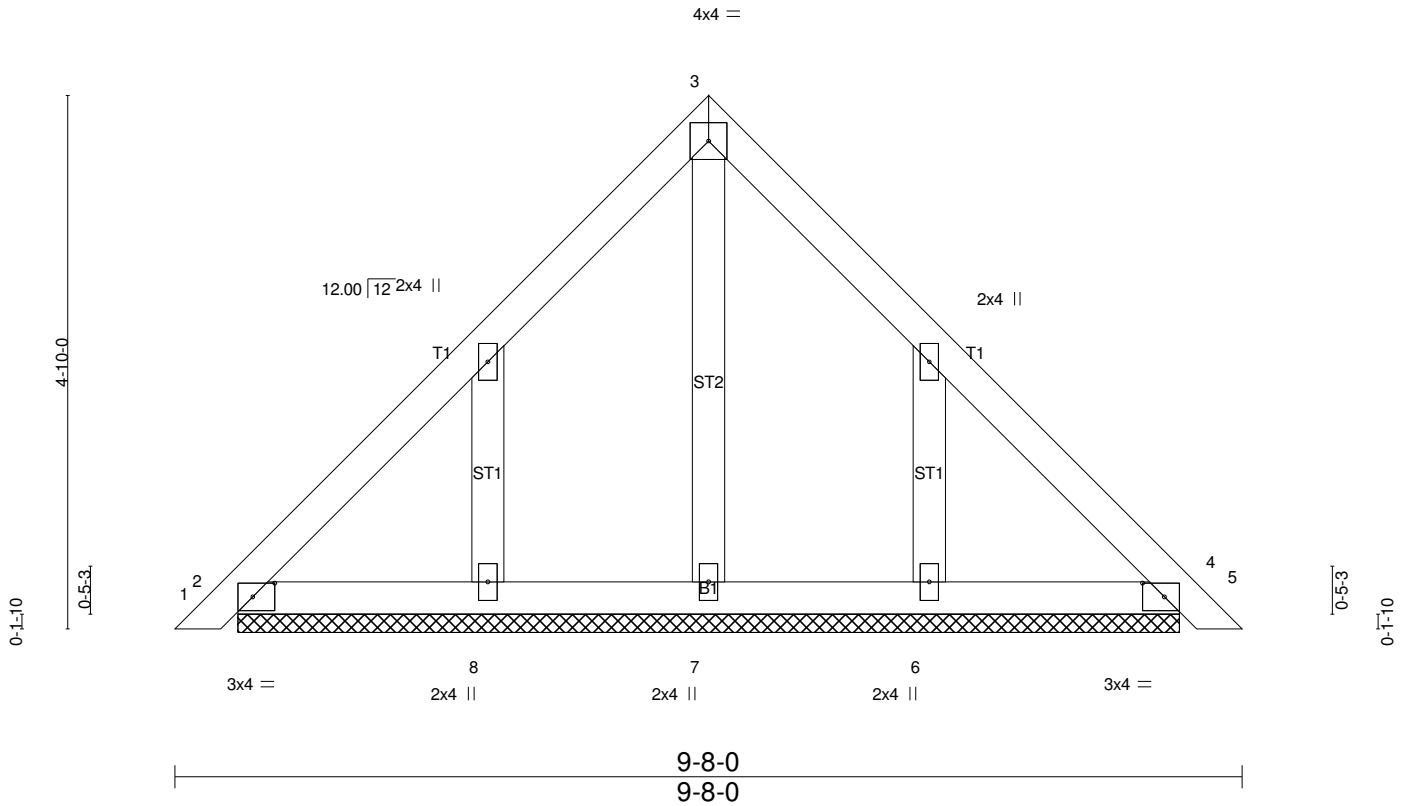


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) 0.01 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 91 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 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 8-6-6.
(lb) - Max Horz 2--139(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2--104(LC 12), 4--104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 6 except 2=296(LC 1), 4=296(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3--252/124, 3-4--252/124

- NOTES-**
- 1) Ply to ply nailing inadequate
 - 2) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 - 3) 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.
 - 4) Unbalanced roof live loads have been considered for this design.
 - 5) Wind: ASCE 7-10; Vult=130mph 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 6) 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.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 104 lb uplift at joint 4.
 - 12) 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.

Job J0821-4934	Truss PBSGE	Truss Type GABLE	Qty 1	Ply 2	Ryan & Emily McNeil Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309

Run: 82.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Aug 17 14:01:07 2021 Page 2
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NOTES-

13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard