

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0920-4368
Lot 78 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: E15100040 thru E15100060

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

North Carolina COA: C-0844



November 16, 2020

Gilbert, Eric

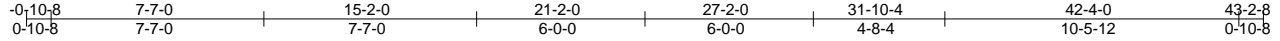
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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 78 South Creek	E15100040
J0920-4368	A1	HOWE	3	1		

Comtech, Inc., Fayetteville, NC - 28314,

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5x8 =

Scale = 1:82.1

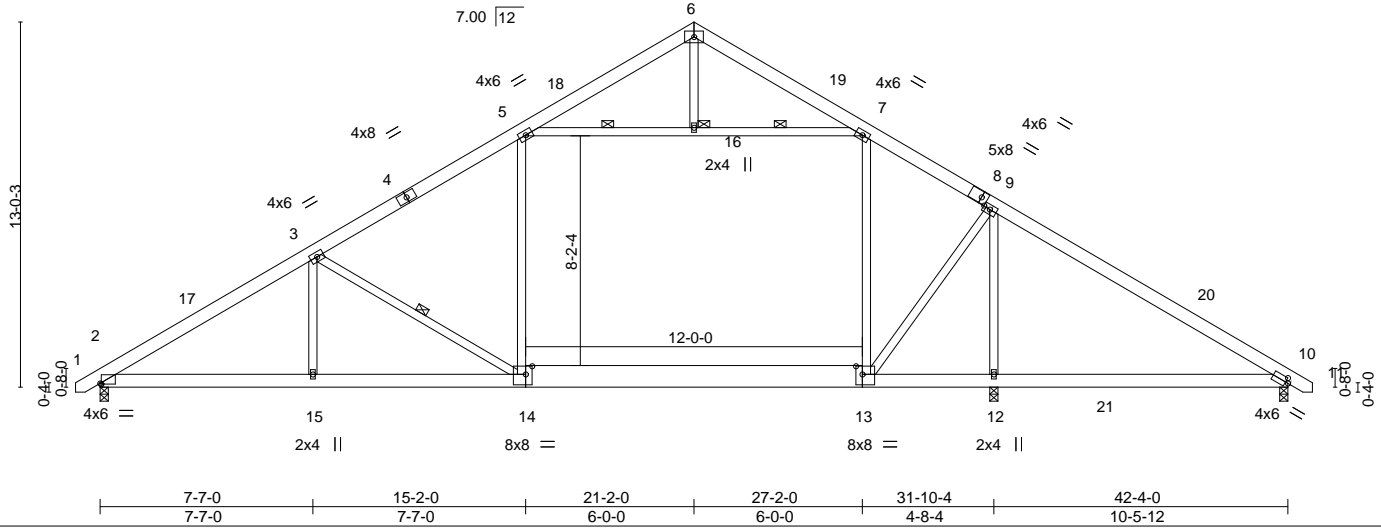


Plate Offsets (X,Y)-- [2:0-0-8,0-0-5], [8:0-2-11,0-2-8], [10:0-1-3,0-2-0], [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

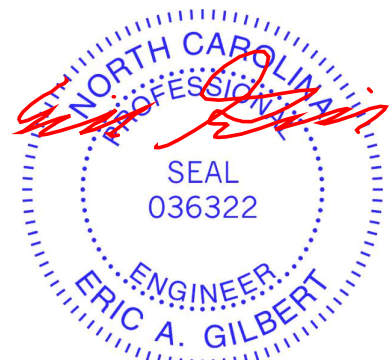
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) 0.22 14-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(CT) -0.37 14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.07 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 324 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-2 oc purlins.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 8-2-5 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-14, 5-16, 7-16
	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8
 Max Horz 2=-407(LC 7)
 Max Uplift 2=-413(LC 9), 12=-661(LC 5), 10=-411(LC 9)
 Max Grav 2=1942(LC 16), 12=821(LC 23), 10=1708(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3208/1039, 3-5=-2592/918, 5-6=-512/342, 6-7=-528/343, 7-9=-2673/983, 9-10=-2958/1001
 BOT CHORD 2-15=-720/2931, 14-15=-720/2932, 13-14=-391/2353, 12-13=-649/2454, 10-12=-650/2450
 WEBS 7-13=-203/899, 9-13=-395/435, 9-12=-705/411, 5-14=-62/728, 3-14=-863/384, 5-16=-1897/679, 7-16=-1897/679

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 16-9-3, Exterior(2) 16-9-3 to 25-6-13, Interior(1) 25-6-13 to 38-7-11, Exterior(2) 38-7-11 to 43-0-8 zone; porch 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 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) except (jt=lb) 2=413, 12=661, 10=411.



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Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100041
J0920-4368	A2	HOWE	2	1		

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ID:Gej8M7ID_8d5xSTMbLIID7ztnZ3-c5gxmUp2jswET3Yo9tvNzYLi8yMellrRNPk8NlygKy

0-10-8	7-7-0	15-2-0	21-2-0	27-2-0	36-2-4	42-4-0	43-2-8
0-10-8	7-7-0	7-7-0	6-0-0	6-0-0	9-0-4	6-1-12	0-10-8

5x8 =

Scale = 1:82.1

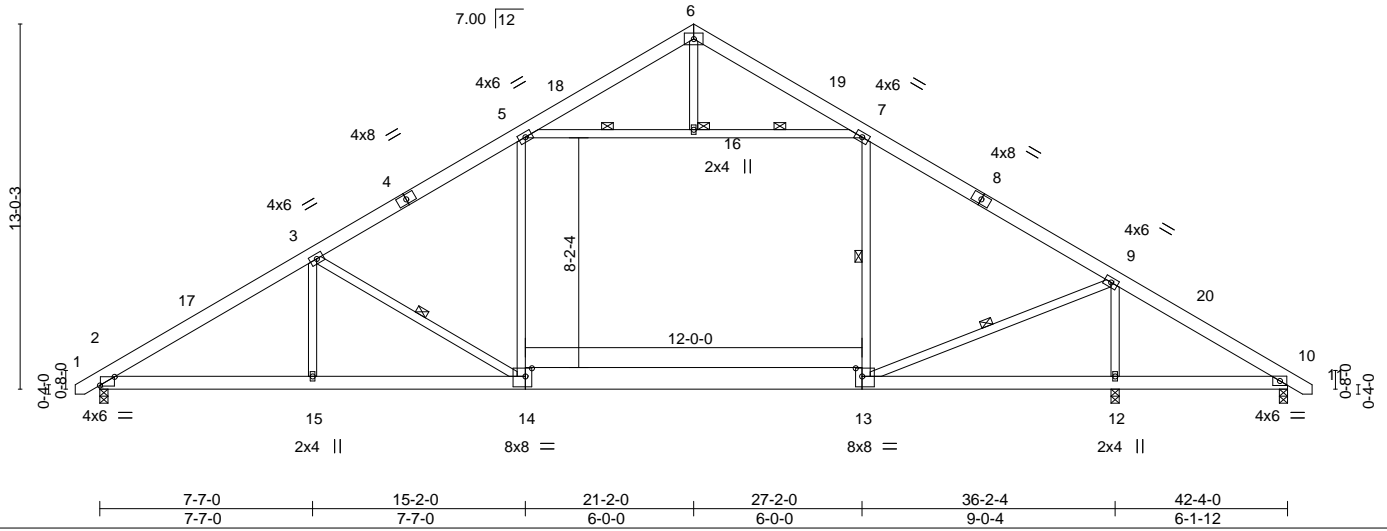


Plate Offsets (X,Y)-- [2:0-6-4,Edge], [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) 0.26 14-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.29	Vert(CT) -0.43 14-15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.07 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 323 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 7-13, 9-13, 3-14, 5-16, 7-16
	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8
 Max Horz 2=407(LC 8)
 Max Uplift 2=399(LC 9), 12=872(LC 5), 10=610(LC 6)
 Max Grav 2=1920(LC 16), 12=1290(LC 21), 10=1633(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3175/1005, 3-5=-2534/885, 5-6=-439/293, 6-7=-485/310, 7-9=-2667/855, 9-10=-2830/1052
 BOT CHORD 2-15=-690/2904, 14-15=-690/2904, 13-14=-363/2299, 12-13=-871/2374, 10-12=-870/2372
 WEBS 7-13=-207/742, 9-13=-487/771, 9-12=-1229/773, 5-14=-60/723, 3-14=-867/382, 5-16=-1867/700, 7-16=-1867/700

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 16-9-3, Exterior(2) 16-9-3 to 25-6-13, Interior(1) 25-6-13 to 38-7-11, Exterior(2) 38-7-11 to 43-0-8 zone; porch 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 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) except (jt=lb) 2=399, 12=872, 10=610.



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Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100042
J0920-4368	A3	COMMON	5	1		

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 Job Reference (optional)

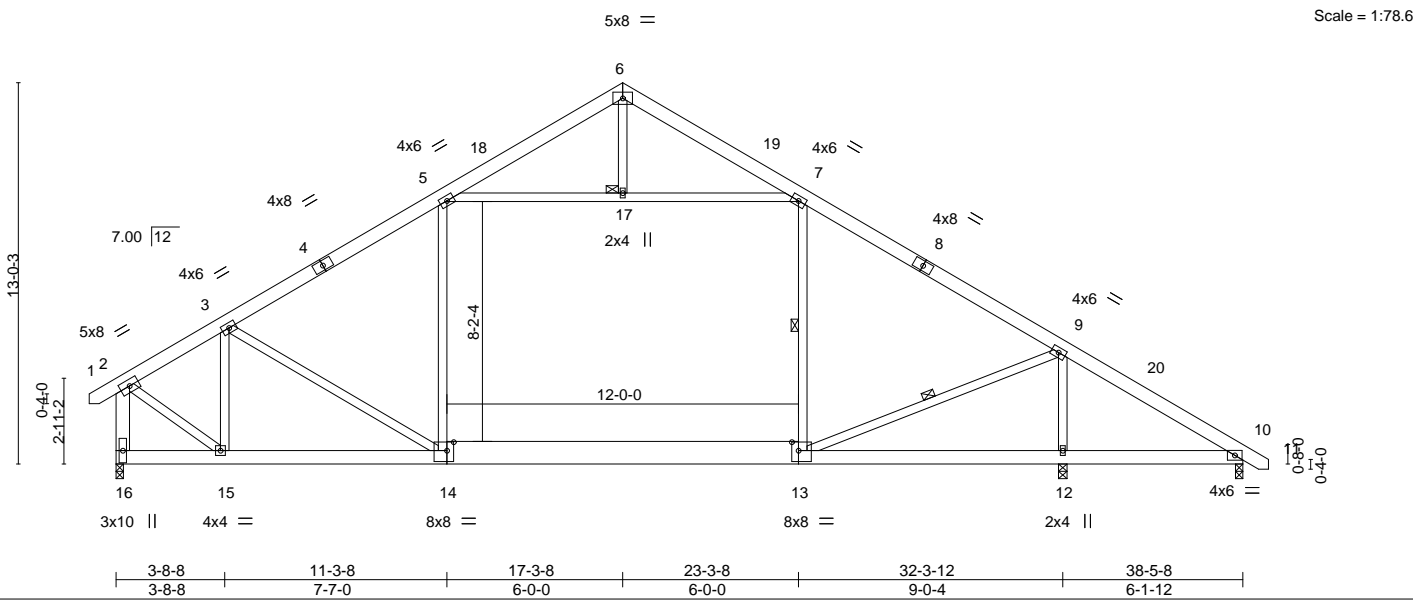


Plate Offsets (X,Y)-- [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

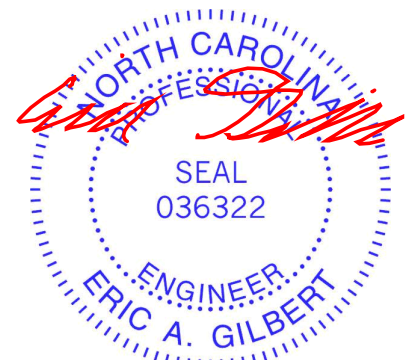
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	-0.15	13-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.21	13-14	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Horz(CT)	0.03	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R					Weight: 315 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 7-13, 9-13
2-16: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 16=0-3-0, 12=0-3-8, 10=0-3-0
 Max Horz 16=-456(LC 7)
 Max Uplift 16=-336(LC 9), 12=-773(LC 5), 10=-603(LC 6)
 Max Grav 16=1673(LC 16), 12=1788(LC 17), 10=946(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1407/539, 3-5=-1829/681, 5-6=-441/287, 6-7=-453/295, 7-9=-1995/665,
 9-10=-1614/1047, 2-16=-1634/615
 BOT CHORD 15-16=-360/411, 14-15=-393/1455, 13-14=-245/1703, 12-13=-867/1335, 10-12=-866/1333
 WEBS 7-13=-204/465, 9-13=-417/1212, 9-12=-1699/691, 5-14=0/421, 2-15=-374/1385,
 3-14=-46/449, 3-15=-740/271, 5-17=-1295/542, 7-17=-1295/542

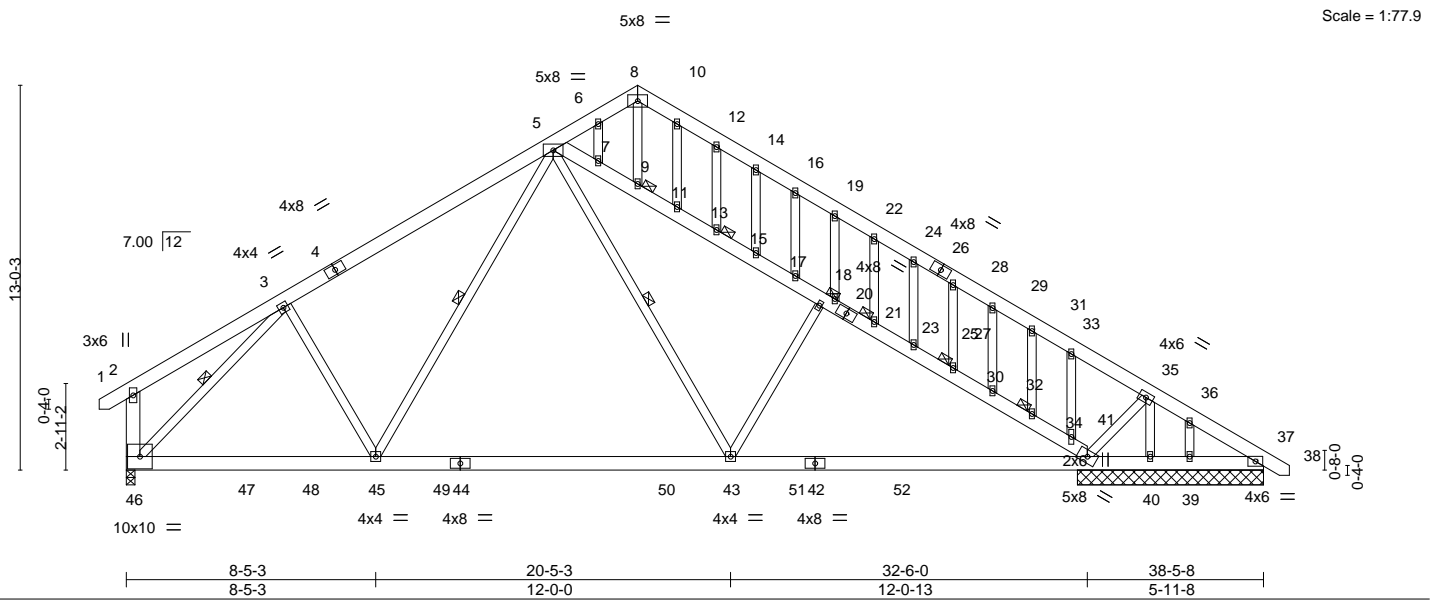
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-0 to 3-8-8, Interior(1) 3-8-8 to 12-10-11, Exterior(2) 12-10-11 to 21-8-5, Interior(1) 21-8-5 to 34-9-3, Exterior(2) 34-9-3 to 39-2-0 zone; end vertical left exposed; porch 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 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) except (jt=lb) 16=336, 12=773, 10=603.



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Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100043
J0920-4368	A3GE	FINK	1	1		

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 ID: gDOH_9v5H3?fovBxGTISrlztnZ0-y2UqpCtBYOZXZqQmyQVYgb3ZUz7uzw3AXc7v2zyIgtK
 23-5-3 32-6-0 38-5-8 39-4-0
 0-11-0 5-5-3 14-3-8 17-3-8 6-1-11 9-0-13 5-11-8 0-10-8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.29 43-45 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.68	Vert(CT) -0.40 43-45 >960 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.04 37 n/a n/a		
	Code IRC2015/TPI2014			Weight: 381 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 2-46: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-6-4 oc bracing.
 WEBS 1 Row at midpt 5-45, 5-43, 3-46
 JOINTS 1 Brace at Jt(s): 9, 18, 13, 23, 27, 32

REACTIONS. All bearings 6-3-8 except (jt=length) 46=0-3-8.
 (lb) - Max Horz 46=-567(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 40 except 39=-169(LC 10), 46=-505(LC 9), 41=-1069(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 37 except 40=327(LC 10), 39=274(LC 17), 46=1621(LC 16), 41=1464(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-221/345, 3-5=-1745/1727, 5-6=-377/346, 6-8=-338/343, 8-10=-290/316, 10-12=-307/298, 12-14=-314/263, 14-16=-336/239, 16-19=-323/169, 19-22=-285/64, 22-24=-316/34, 24-28=-348/16, 28-29=-383/15, 29-31=-416/13, 31-33=-444/20, 33-35=-478/220, 35-36=-345/115, 36-37=-399/199, 5-7=-1641/1851, 7-9=-1642/1839, 9-11=-1610/1775, 11-13=-1615/1785, 13-15=-1627/1811, 15-17=-1636/1828, 17-18=-1662/1889, 18-20=-1660/1884, 20-23=-1698/1981, 23-25=-1711/2002, 25-27=-1738/2023, 27-30=-1767/2046, 30-32=-1790/2064, 32-34=-1830/2087, 34-41=-2099/2281, 2-46=-277/332
 BOT CHORD 45-46=-981/1636, 43-45=-684/1407, 41-43=-1332/1834, 40-41=-187/367, 39-40=-187/367, 37-39=-187/367
 WEBS 3-45=-186/348, 18-43=-511/458, 5-45=-576/505, 5-43=-992/901, 19-20=-267/236, 33-34=-421/358, 3-46=-1730/1388, 35-41=-146/271

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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 2x4 MT20 unless otherwise indicated.
 - * 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) 40 except (jt=lb) 39=169, 46=505, 41=1069.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



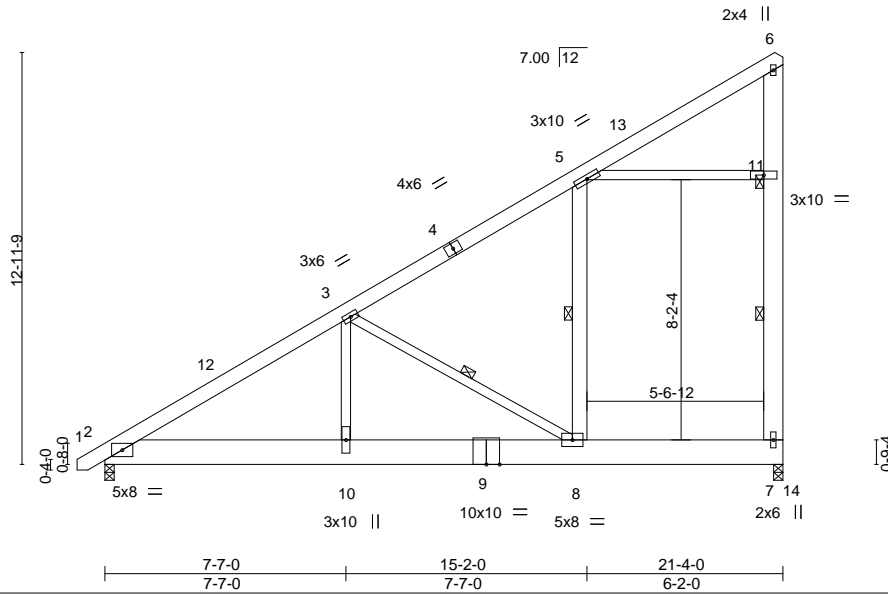
Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100044
J0920-4368	A4	ROOF TRUSS	6	1		

Comtech, Inc., Fayetteville, NC - 28314,

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ID:ccW1PrxLpgFN2DLKNuKwwAztnZ_QF2C1XupJihOB_?yW70nCobkRNPdiLzJmGsSaPylgKs

-0-10-8 7-7-0 15-2-0 21-0-15 21-4-0
 0-10-8 7-7-0 7-7-0 5-10-15 0-3-1



Scale = 1:72.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) 0.37 8-10 >680 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.55 8-10 >458 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 225 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 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-8, 5-8, 7-11
5-8: 2x6 SP No.1, 6-7: 2x8 SP No.1	JOINTS 1 Brace at Jt(s): 11

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=547(LC 9)
 Max Uplift 2=86(LC 9), 7=380(LC 9)
 Max Grav 2=921(LC 16), 7=1156(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1460/162, 3-5=-358/98, 5-6=-354/644
 BOT CHORD 2-10=-645/1484, 8-10=-645/1484
 WEBS 3-10=-221/806, 3-8=-1526/662, 5-11=-613/268, 7-11=-545/310, 6-11=-544/309

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 16-7-9, Exterior(2) 16-7-9 to 21-0-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) * This truss has been designed for a 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.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=380.



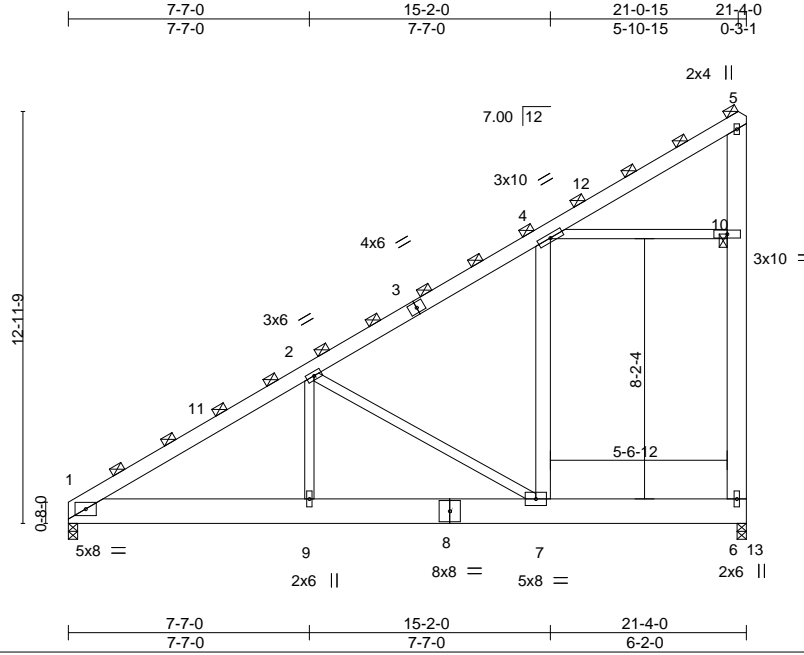
November 16, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100045
J0920-4368	A4A	ROOF TRUSS	1	2		

Comtech, Inc., Fayetteville, NC - 28314,

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ID:ccW1PrxLpgFN2DLKNuKwwAztNz_QF2C1XupJihOB_?yW70nCobkpNR8iN0JmGsSaPylgKs



Scale = 1:72.5

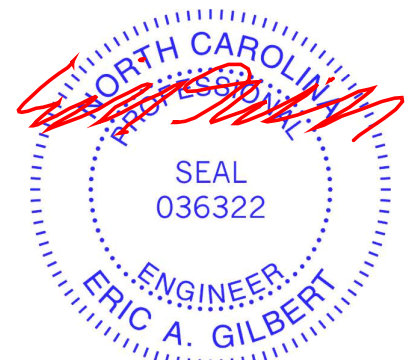
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	3-3-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) 0.30 7-9 >836 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.63	Vert(CT) -0.44 7-9 >564 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 447 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x10 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
4-7: 2x6 SP No.1, 5-6: 2x8 SP No.1	JOINTS 1 Brace at Jt(s): 5, 10

REACTIONS. (size) 1=0-3-8, 6=0-3-8
 Max Horz 1=866(LC 9)
 Max Uplift 1=-108(LC 9), 6=-618(LC 9)
 Max Grav 1=1415(LC 16), 6=1880(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2380/288, 2-4=-581/159, 4-5=-578/1046
 BOT CHORD 1-9=-1073/2408, 7-9=-1073/2408, 6-7=-128/289
 WEBS 2-9=-375/1307, 2-7=-2475/1105, 4-7=-148/297, 4-10=-996/440, 6-10=-886/506,
 5-10=-884/505

- NOTES-**
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 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.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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 16-7-9, Exterior(2) 16-7-9 to 21-0-6 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 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) except (jt=lb) 1=108, 6=618.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



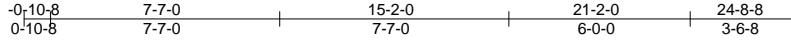
November 16, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100046
J0920-4368	A5	GABLE	3	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:05 2020 Page 1

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5x8 ||

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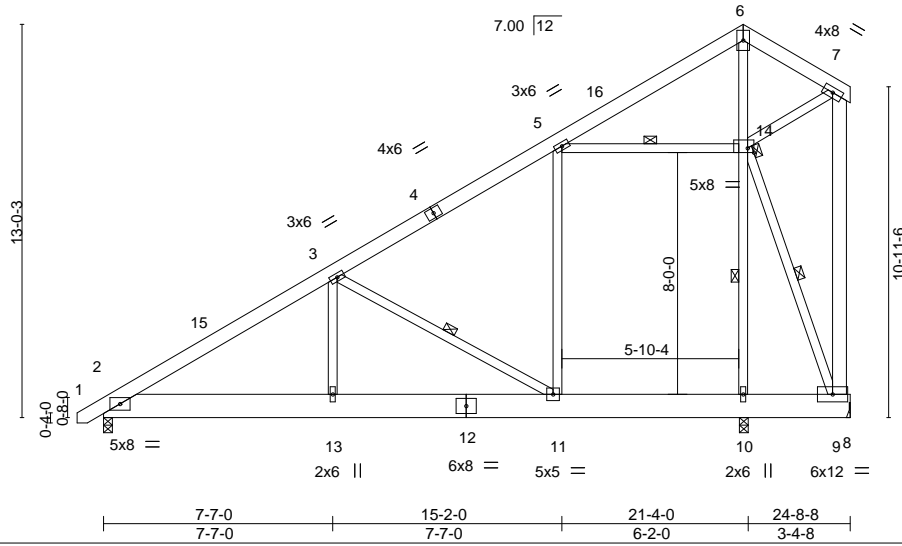


Plate Offsets (X,Y)-- [14:0-2-8,0-1-12]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) 0.07	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.13	11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.60	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic -0.03	10-11	2718	360		
							Weight: 265 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.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 7-9: 2x6 SP No.1	WEBS 1 Row at midpt 3-11, 10-14, 5-14, 9-14
	JOINTS 1 Brace at Jt(s): 14

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 9=Mechanical
 Max Horz 2=499(LC 9)
 Max Uplift 2=71(LC 9), 10=63(LC 9), 9=104(LC 23)
 Max Grav 2=969(LC 17), 10=1896(LC 17), 9=103(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1405/124, 3-5=-676/0, 5-6=-312/1356, 6-7=-272/1298, 7-9=-249/1236
 BOT CHORD 2-13=-504/1433, 11-13=-504/1433, 10-11=-157/578, 9-10=-157/576
 WEBS 3-13=0/348, 3-11=-996/404, 5-11=0/399, 10-14=-865/240, 6-14=-1596/528, 5-14=-1644/420, 7-14=-1236/305, 9-14=-1647/446

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 16-9-3, Exterior(2) 16-9-3 to 24-4-4 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 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.
 - Ceiling dead load (10.0 psf) on member(s). 5-14; Wall dead load (5.0psf) on member(s). 5-11, 10-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
 - 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, 10 except (jt=lb) 9=104.
 - Attic room checked for L/360 deflection.



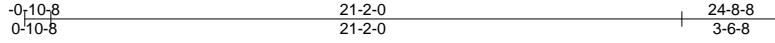
November 16, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100047
J0920-4368	A5GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:06 2020 Page 1

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5x5 =

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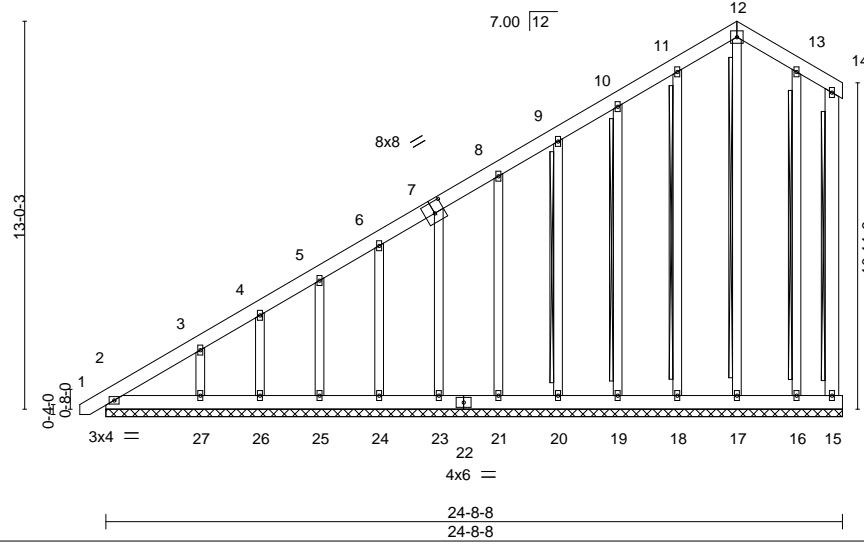


Plate Offsets (X,Y)-- [7:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) -0.00	15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 270 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1
OTHERS 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 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 14-15, 12-17, 11-18, 10-19, 9-20, 13-16
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. All bearings 24-8-8.
(lb) - Max Horz 2=727(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 17, 16 except 18=-110(LC 9), 19=-128(LC 9), 20=-123(LC 9), 21=-130(LC 9), 23=-128(LC 9), 24=-105(LC 9), 25=-129(LC 9), 26=-102(LC 9), 27=-229(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 15, 17, 18, 19, 20, 21, 23, 24, 25, 26, 16 except 2=330(LC 9), 27=300(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-772/569, 3-4=-630/445, 4-5=-553/391, 5-6=-467/322, 6-7=-392/263, 7-8=-312/204
WEBS 3-27=-276/233

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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 requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - * 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, 15, 17, 16 except (jt=lb) 18=110, 19=128, 20=123, 21=130, 23=128, 24=105, 25=129, 26=102, 27=229.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - Attic room checked for L/360 deflection.



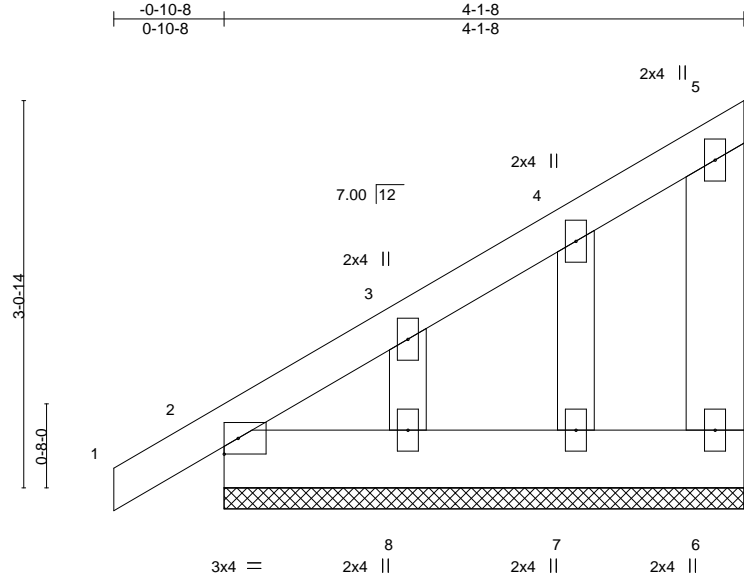
November 16, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100048
J0920-4368	A6GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

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4-1-8
4-1-8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.00	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 27 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-1-8.
(lb) - Max Horz 2=171(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 8=110(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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
- 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 1-4-0 oc.
- 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, 7 except (jt=lb) 8=110.



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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 78 South Creek	E15100049
J0920-4368	B1	FINK	7	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:07 2020 Page 1
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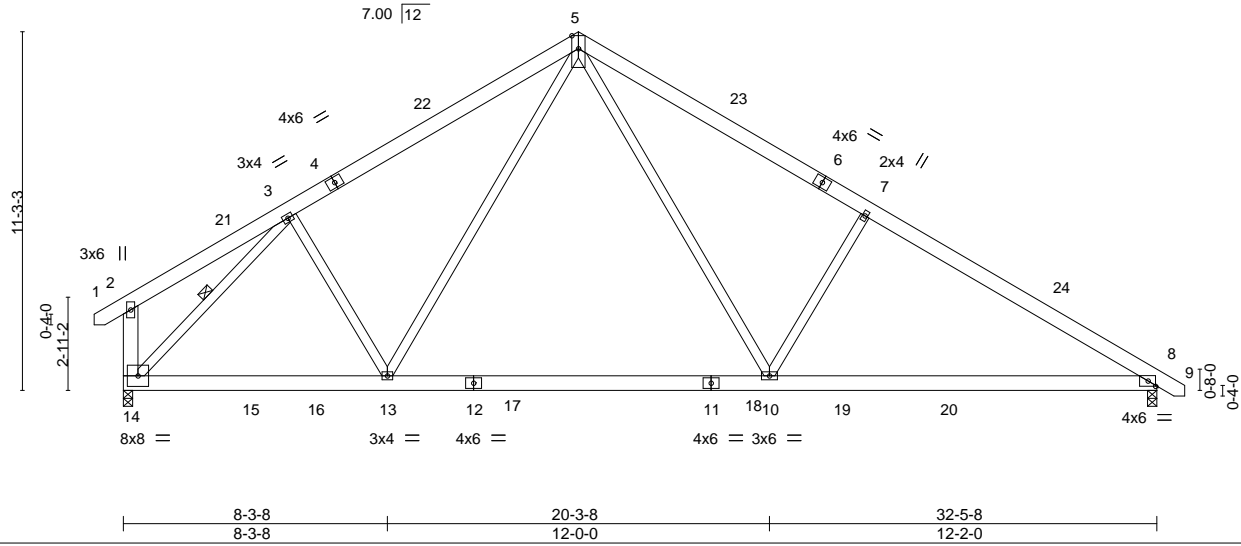


Plate Offsets (X,Y)-- [8:0-2-13,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.29	10-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.39	10-13	>977	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.04	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 2-14: 2x6 SP No.1	WEBS 1 Row at midpt 3-14

REACTIONS. (size) 14=0-3-8, 8=0-3-8
 Max Horz 14=-400(LC 7)
 Max Uplift 14=-260(LC 9), 8=-285(LC 10)
 Max Grav 14=1556(LC 16), 8=1565(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-5=-1663/735, 5-7=-2118/857, 7-8=-2316/793, 2-14=-252/265
 BOT CHORD 13-14=-287/1459, 10-13=-125/1252, 8-10=-487/1878
 WEBS 3-13=-105/308, 5-13=-144/476, 5-10=-305/1232, 7-10=-672/430, 3-14=-1669/471

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 9-10-11, Exterior(2) 9-10-11 to 18-8-5, Interior(1) 18-8-5 to 28-9-3, Exterior(2) 28-9-3 to 33-2-0 zone; end vertical 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 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) except (jt=lb) 14=260, 8=285.



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Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100050
J0920-4368	B1GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:09 2020 Page 1
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 32-5-8 33-4-0
 18-2-0 0-10-8

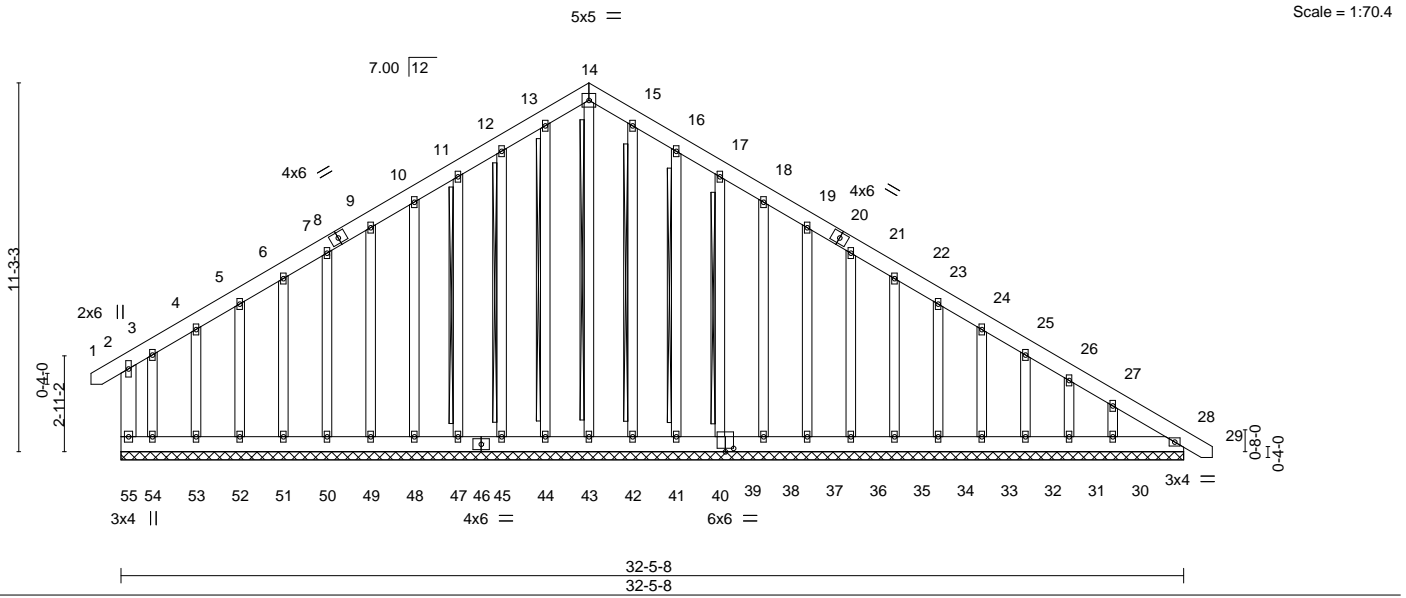


Plate Offsets (X,Y)-- [39:0-0-0,0-2-12], [39:0-3-0,0-1-4], [40:0-1-12,0-0-0]

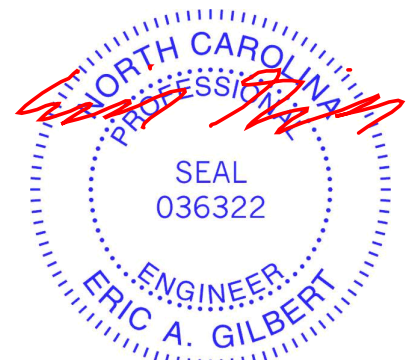
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) 0.00	28	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) 0.00	28	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01	28	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 375 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.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 14-43, 13-44, 12-45, 11-47, 15-42, 16-41, 17-40
OTHERS 2x4 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 32-5-8.
 (lb) - Max Horz 55=400(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 43, 45, 47, 48, 49, 50, 51, 52, 53, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30 except 55=340(LC 7), 28=-120(LC 6), 54=-417(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 28, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30 except 55=408(LC 6), 54=444(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-9=-221/298, 9-10=-265/351, 10-11=-309/405, 11-12=-359/464, 12-13=-402/518, 13-14=-391/499, 14-15=-391/499, 15-16=-402/518, 16-17=-359/464, 17-18=-309/405, 18-19=-265/351, 19-21=-221/298, 25-26=-251/236, 26-27=-266/250, 27-28=-317/291
 BOT CHORD 54-55=-250/287, 53-54=-250/287, 52-53=-250/287, 51-52=-250/287, 50-51=-250/287, 49-50=-250/287, 48-49=-250/287, 47-48=-250/287, 45-47=-250/287, 44-45=-250/287, 43-44=-250/287, 42-43=-250/287, 41-42=-250/287, 40-41=-250/287, 38-40=-250/287, 37-38=-250/287, 36-37=-250/287, 35-36=-250/287, 34-35=-250/287, 33-34=-250/287, 32-33=-250/287, 31-32=-250/287, 30-31=-250/287, 28-30=-250/287

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-0 to 3-7-8, Exterior(2) 3-7-8 to 9-10-11, Corner(3) 9-10-11 to 18-8-5, Exterior(2) 18-8-5 to 28-9-3, Corner(3) 28-9-3 to 33-2-0 zone; end vertical 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 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.



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 78 South Creek	E15100050
J0920-4368	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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NOTES-

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 43, 45, 47, 48, 49, 50, 51, 52, 53, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30 except (jt=lb) 55=340, 28=120, 54=417.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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



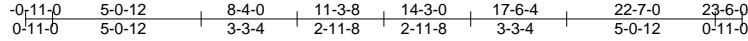
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100051
J0920-4368	C1	ATTIC	4	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:11 2020 Page 1

ID:k6oy8H5VlguX6Drpe63zywztnYn-BnXEiG_qQ9hF9CcU_p9fXUx05bC2a6cUjWotsyIlgKk



6x8 =

Scale = 1:78.5

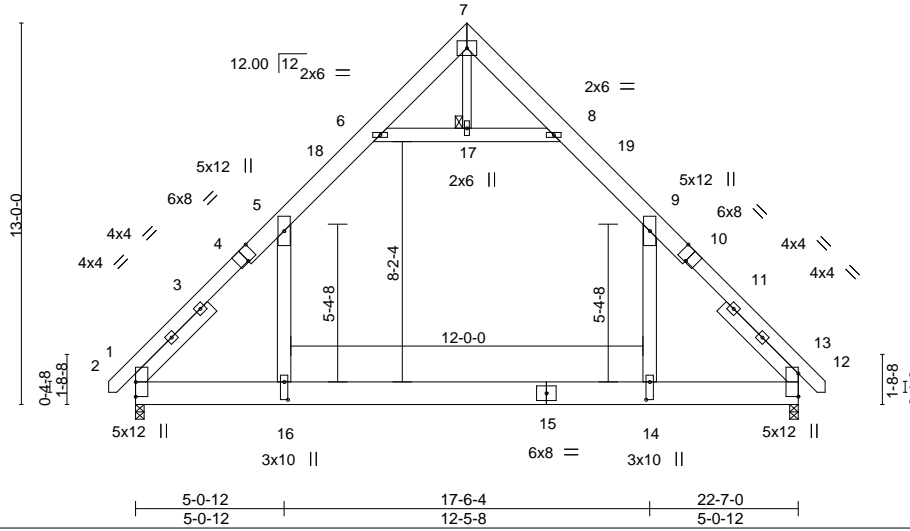


Plate Offsets (X,Y)-- [4:0-4-0,Edge], [10:0-4-0,Edge], [14:0-7-4,0-1-8], [16:0-7-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL)	-0.19 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT)	-0.31 14-16	>861	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic	-0.13 14-16	1176	360	Weight: 248 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 1-4,10-13: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 7-17: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 17
SLIDER Left 2x6 SP No.1 -x 3-8-0, Right 2x6 SP No.1 -x 3-8-0	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=389(LC 5)
 Max Grav 2=1540(LC 18), 12=1540(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-2127/133, 5-6=-1138/323, 8-9=-1138/323, 9-12=-2126/133
 BOT CHORD 2-16=0/1205, 14-16=0/1205, 12-14=0/1205
 WEBS 6-17=-1402/457, 8-17=-1402/457, 5-16=0/1063, 9-14=0/1063

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 6-10-11, Exterior(2) 6-10-11 to 15-8-5, Interior(1) 15-8-5 to 18-11-9, Exterior(2) 18-11-9 to 23-4-6 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 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.
 - Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17; Wall dead load (5.0psf) on member(s).5-16, 9-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
 - Attic room checked for L/360 deflection.



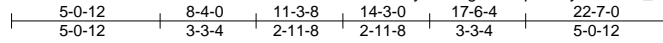
November 16,2020

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100052
J0920-4368	C2	ATTIC	9	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:12 2020 Page 1

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6x8 =

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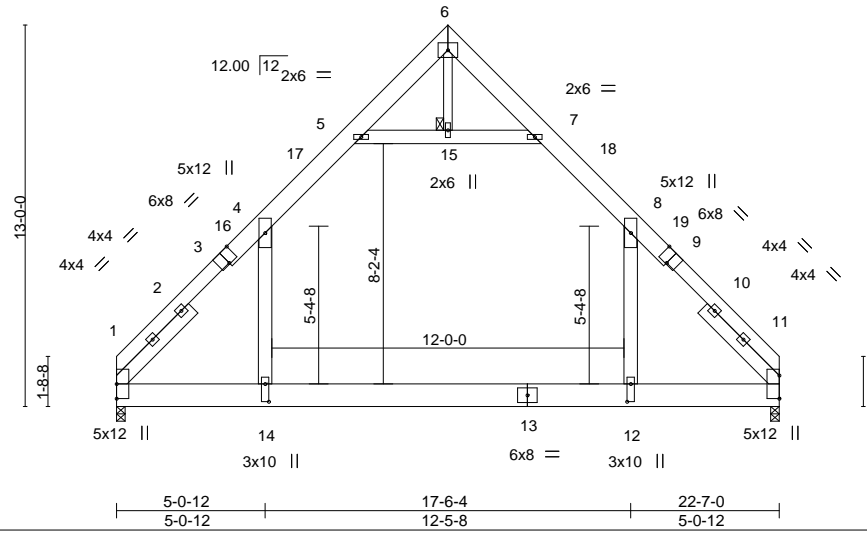


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [9:0-4-0,Edge], [12:0-7-4,0-1-8], [14:0-7-4,0-1-8]

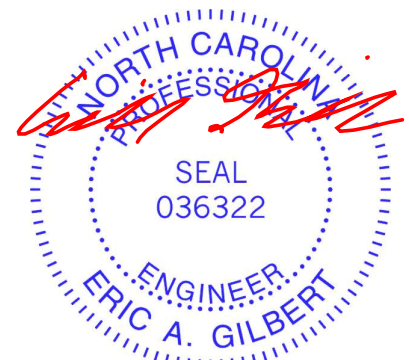
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.19	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.32	12-14	>860	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic -0.13	12-14	1176	360		
							Weight: 243 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 6-15: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 15
SLIDER Left 2x6 SP No.1 -x 3-8-0, Right 2x6 SP No.1 -x 3-8-0	

REACTIONS. (size) 1=0-3-8, 11=0-3-8
 Max Horz 1=389(LC 5)
 Max Grav 1=1514(LC 18), 11=1514(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-4=-2130/145, 4-5=-1140/332, 7-8=-1139/332, 8-11=-2129/146
 BOT CHORD 1-14=0/1211, 12-14=0/1211, 11-12=0/1211
 WEBS 5-15=-1401/478, 7-15=-1401/478, 4-14=0/1064, 8-12=0/1064

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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 6-10-11, Exterior(2) 6-10-11 to 15-8-5, Interior(1) 15-8-5 to 18-2-3, Exterior(2) 18-2-3 to 22-7-0 zone; end vertical 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 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s). 4-14, 8-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - Attic room checked for L/360 deflection.



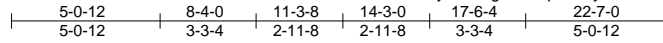
November 16, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100053
J0920-4368	C2-GR	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:14 2020 Page 1

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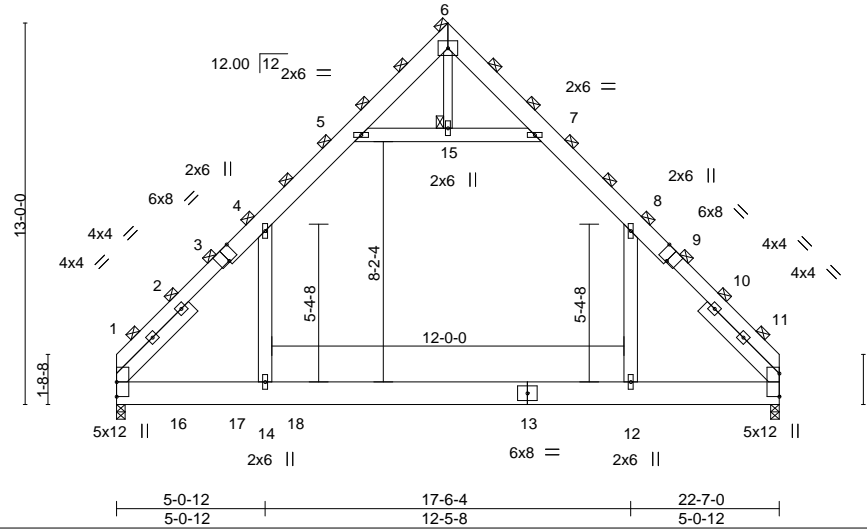


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [9:0-4-0,Edge]

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)	-0.14 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT)	-0.23 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.11	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic	-0.09 12-14	1588	360	Weight: 486 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1 *Except*
1-3,9-11: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
6-15: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 3-8-0, Right 2x6 SP No.1 -x 3-8-0

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 15

REACTIONS.

(size) 1=0-3-8, 11=0-3-8
Max Horz 1=584(LC 31)
Max Uplift 1=87(LC 8)
Max Grav 1=2331(LC 42), 11=2284(LC 41)

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

TOP CHORD 1-4=-3231/89, 4-5=-1721/242, 5-6=-194/326, 6-7=-185/322, 7-8=-1725/253,
8-11=-3225/83
BOT CHORD 1-14=0/1835, 12-14=0/1835, 11-12=0/1835
WEBS 5-15=-2079/336, 7-15=-2079/336, 4-14=-75/1580, 8-12=-40/1567

NOTES-

- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- * 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.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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) 97 lb down and 111 lb up at 2-0-12, and 97 lb down and 111 lb up at 4-0-12, and 97 lb down and 111 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Continued on page 2



November 16, 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/TPI 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 78 South Creek	E15100053
J0920-4368	C2-GR	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:14 2020 Page 2
 ID:k6oy8H5VlguX6Drpe63zywztnYn-cMCNKI0ij43q0gL3fxjM97ZYypFmnU?xIT1XTGylgKh

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-14=-30, 12-14=-60, 11-12=-30, 1-4=-90, 4-5=-120, 5-6=-90, 6-7=-90, 7-8=-120, 8-11=-90, 5-7=-30

Drag: 4-14=-15, 8-12=-15

Concentrated Loads (lb)

Vert: 16=-97(B) 17=-97(B) 18=-97(B)

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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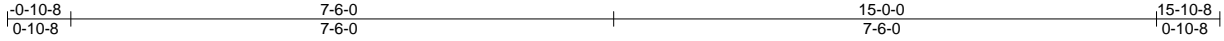
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100054
J0920-4368	D1	COMMON	4	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:15 2020 Page 1

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5x12 ||

Scale: 3/8"=1'

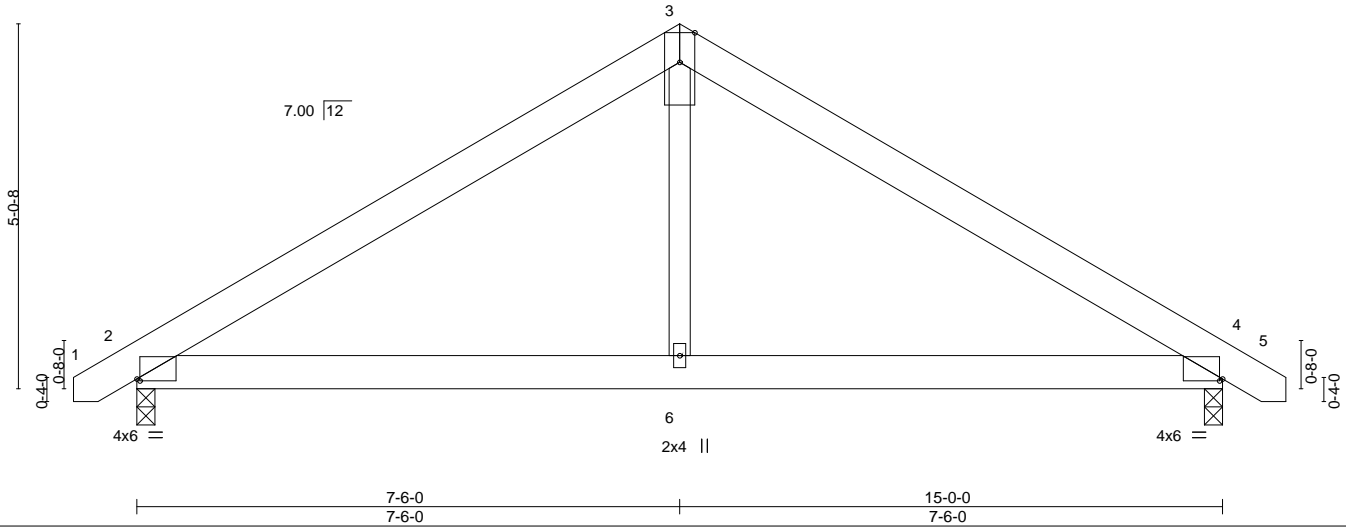


Plate Offsets (X,Y)-- [2:0-0-8,0-0-5], [4:0-0-8,0-0-5]

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 0.30	Vert(LL)	0.06	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	0.05	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	-0.01	4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						Weight: 87 lb	FT = 20%

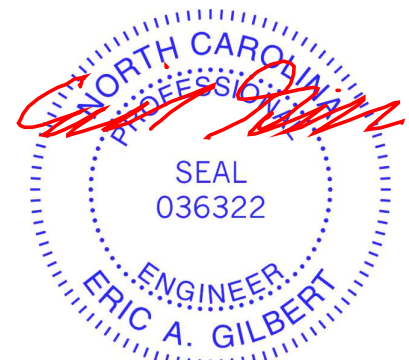
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=153(LC 8)
 Max Uplift 2=-208(LC 6), 4=-208(LC 5)
 Max Grav 2=640(LC 1), 4=640(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-786/1051, 3-4=-786/1051
 BOT CHORD 2-6=-741/584, 4-6=-741/584
 WEBS 3-6=-642/216

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch 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 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=208, 4=208.



November 16, 2020

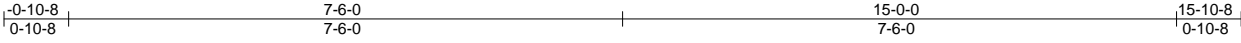
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100055
J0920-4368	D1GE	GABLE	1	1		

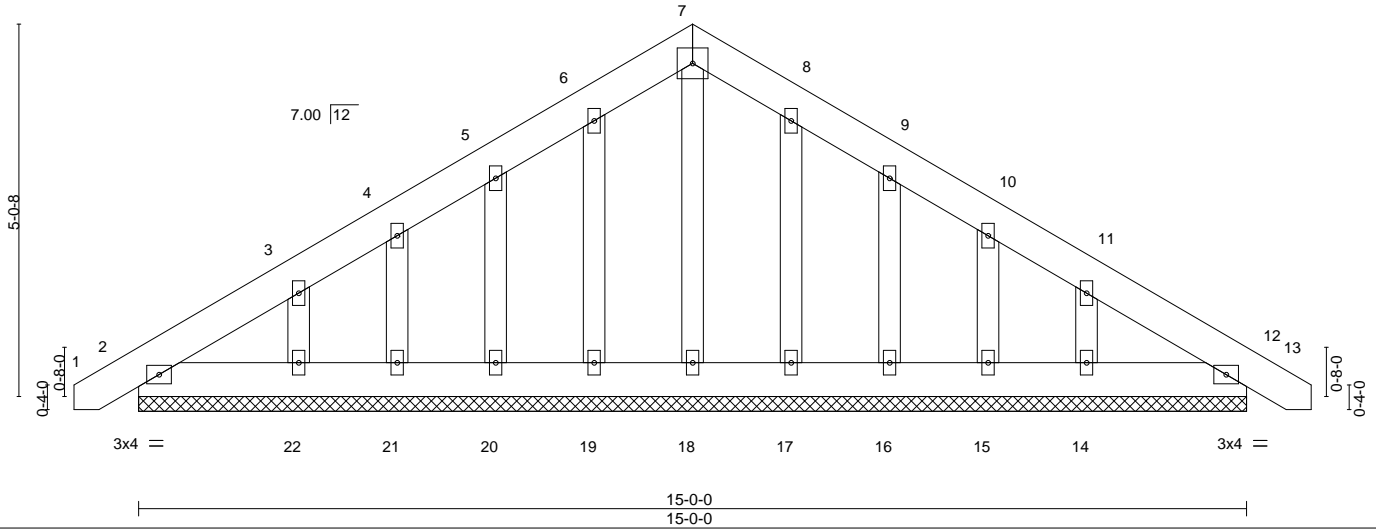
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:16 2020 Page 1
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5x5 =

Scale = 1:31.2



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 0.03	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	12	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 113 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 15-0-0.
(lb) - Max Horz 2=191(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 17, 16, 15 except 22=135(LC 9), 14=131(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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 requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- * 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, 12, 19, 20, 21, 17, 16, 15 except (jt=lb) 22=135, 14=131.



November 16, 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 78 South Creek	E15100056
J0920-4368	G1	COMMON	5	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:17 2020 Page 1

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5x8 =

Scale = 1:43.8

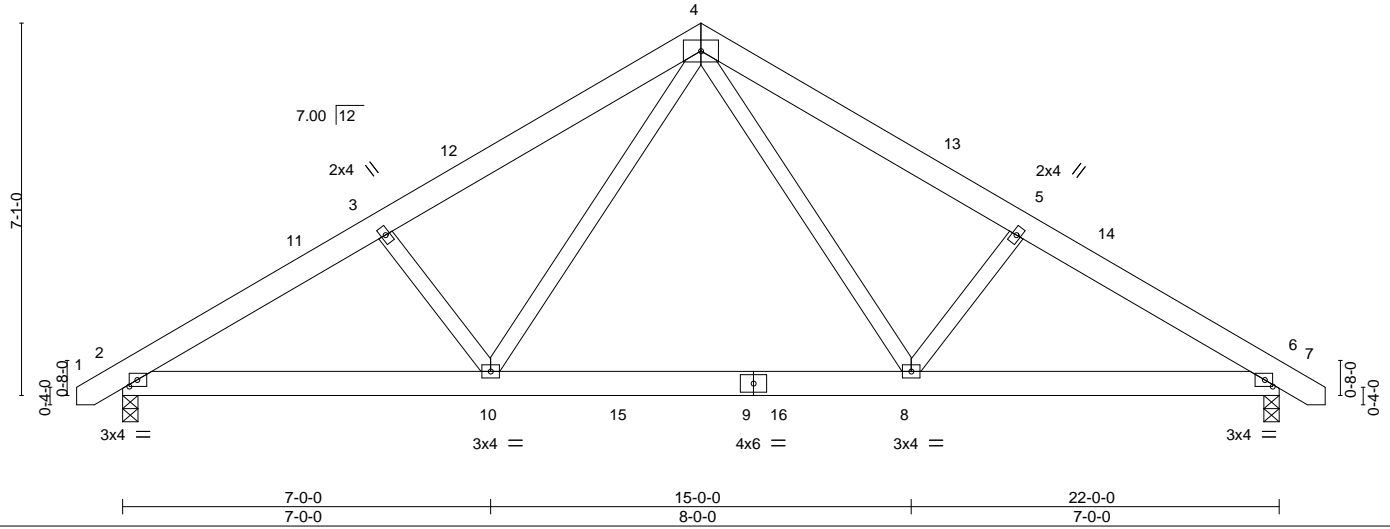


Plate Offsets (X,Y)-- [2:0-1-13,0-1-8], [6:0-1-13,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.06	8-10	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	-0.10	8-10	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 148 lb	FT = 20%

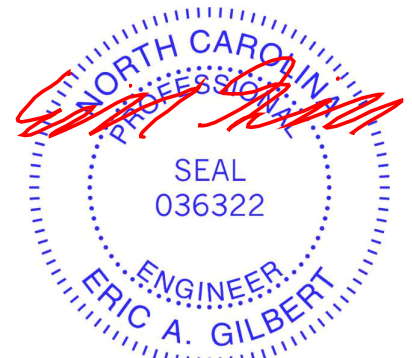
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-218(LC 7)
 Max Uplift 2=-192(LC 9), 6=-192(LC 10)
 Max Grav 2=948(LC 16), 6=948(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1468/585, 3-4=-1396/603, 4-5=-1396/603, 5-6=-1468/585
 BOT CHORD 2-10=-377/1285, 8-10=-136/826, 6-8=-377/1173
 WEBS 4-8=-167/563, 5-8=-362/265, 4-10=-167/563, 3-10=-362/265

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 6-7-3, Exterior(2) 6-7-3 to 15-4-13, Interior(1) 15-4-13 to 18-3-11, Exterior(2) 18-3-11 to 22-8-8 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 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) except (jt=lb) 2=192, 6=192.



November 16, 2020

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

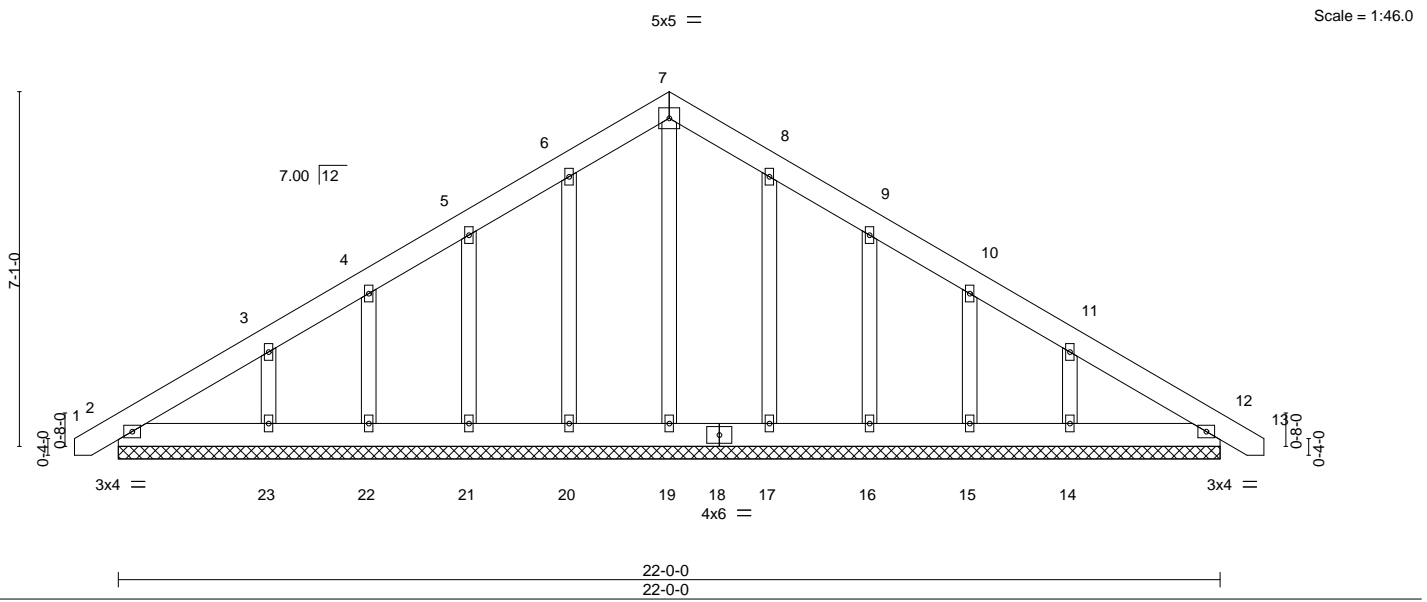
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 78 South Creek	E15100057
J0920-4368	G1GE	COMMON SUPPORTED GAB	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:18 2020 Page 1
 ID:ccW1PrxLpgFN2DLKNuKwwAztnZ_U7StAg3DnJaGUHequnnIJzjNIQk7jIBWC5?lc1ylgkd



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) 0.00 12 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) 0.00 12 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 164 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 22-0-0.
 (lb) - Max Horz 2=272(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 17, 12 except 21=136(LC 9), 22=103(LC 9), 23=195(LC 9), 16=138(LC 10), 15=103(LC 10), 14=192(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 12 except 23=280(LC 16), 14=277(LC 17)

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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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 requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - * 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, 17, 12 except (jt=lb) 21=136, 22=103, 23=195, 16=138, 15=103, 14=192.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



November 16, 2020

Job J0920-4368	Truss V1	Truss Type VALLEY	Qty 1	Ply 1	Lot 78 South Creek	E15100058
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:18 2020 Page 1
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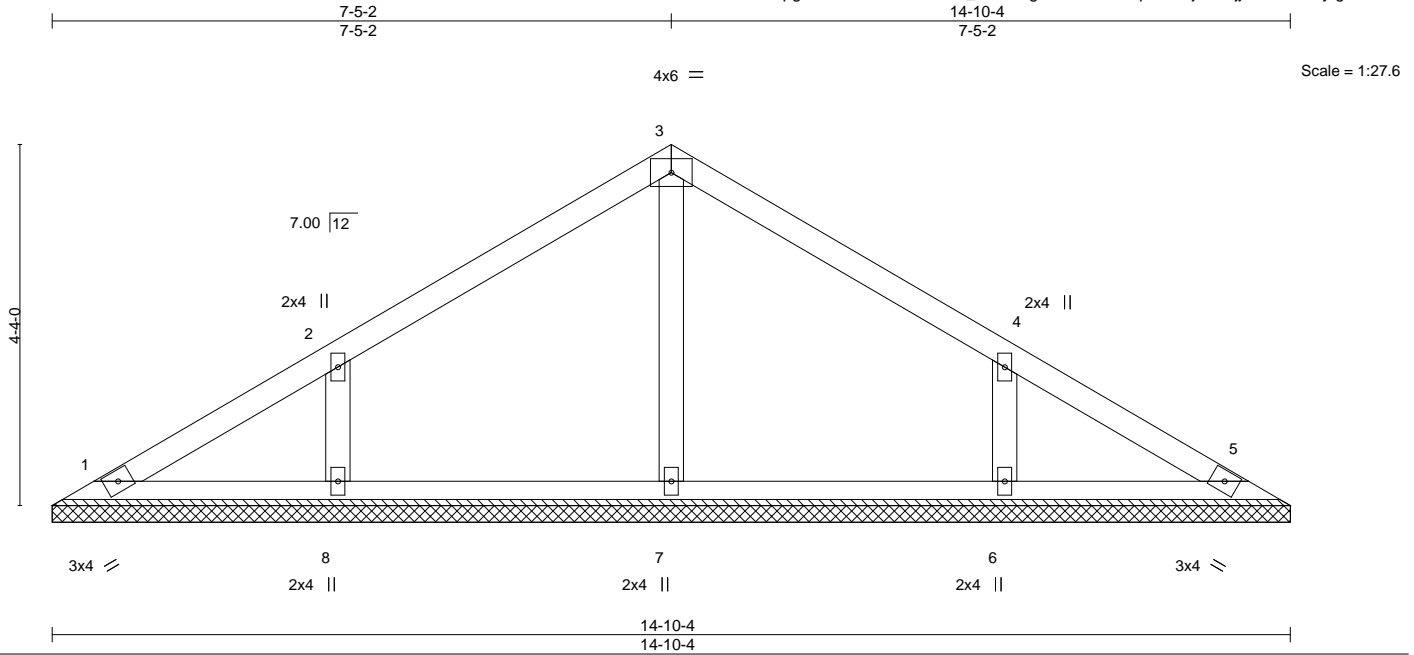


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

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 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 56 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 14-10-4.
(lb) - Max Horz 1=128(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=143(LC 9), 6=143(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=288(LC 1), 8=350(LC 16), 6=350(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-317/249, 4-6=-317/249

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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 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 except (jt=lb) 8=143, 6=143.



November 16, 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

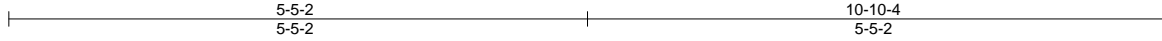
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100059
J0920-4368	V2	VALLEY	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

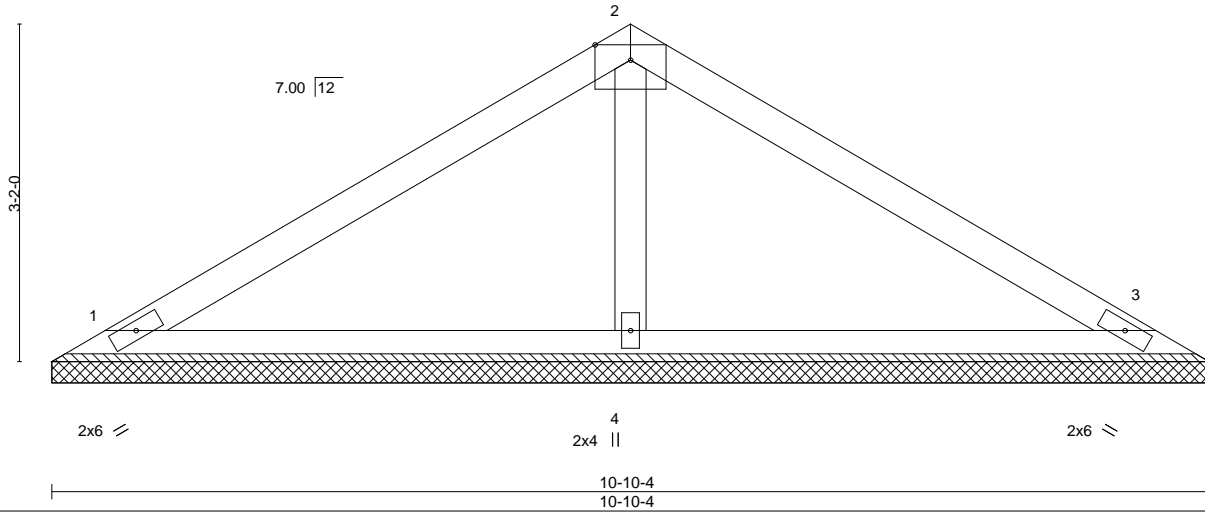
8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:19 2020 Page 1

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5x8 M18SHS =

Scale = 1:21.6



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 0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 37 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.

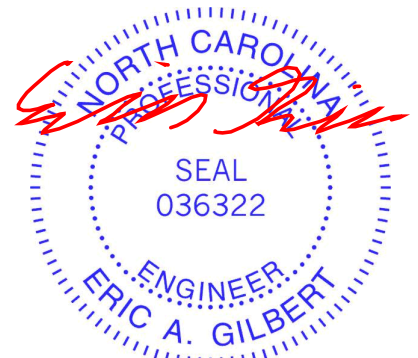
REACTIONS.

(size) 1=10-10-4, 3=10-10-4, 4=10-10-4
 Max Horz 1=-91(LC 7)
 Max Uplift 1=-46(LC 9), 3=-55(LC 10), 4=-65(LC 9)
 Max Grav 1=178(LC 20), 3=184(LC 17), 4=432(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-310/201

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=5.0psf; 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
- All plates are MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- * 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, 4.



November 16, 2020

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

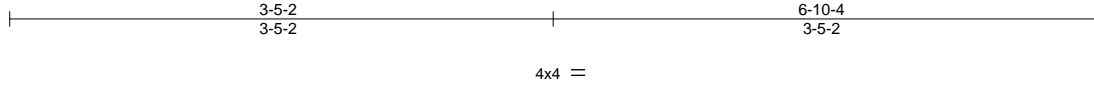
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



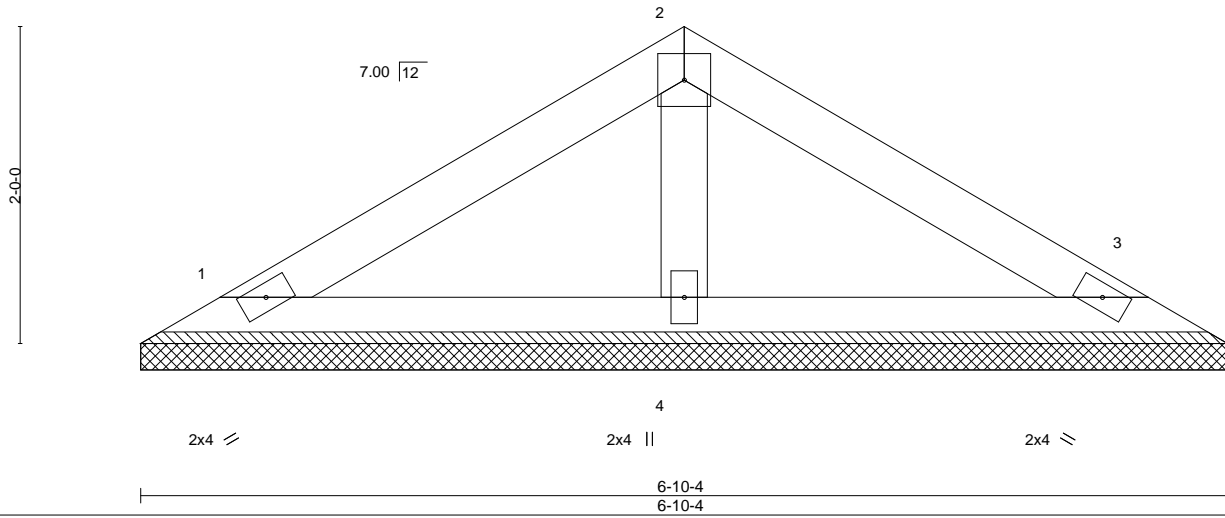
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 78 South Creek	E15100060
J0920-4368	V3	VALLEY	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Nov 16 07:51:20 2020 Page 1
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Scale = 1:14.5



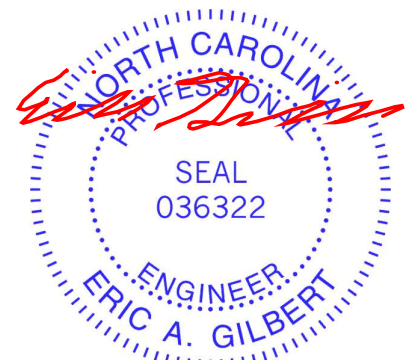
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 22 lb	FT = 20%
	Code IRC2015/TPI2014				

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

REACTIONS. (size) 1=6-10-4, 3=6-10-4, 4=6-10-4
 Max Horz 1=54(LC 8)
 Max Uplift 1=-39(LC 9), 3=-44(LC 10), 4=-15(LC 9)
 Max Grav 1=121(LC 1), 3=125(LC 17), 4=219(LC 1)

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

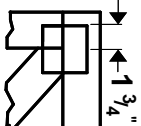
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) * 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



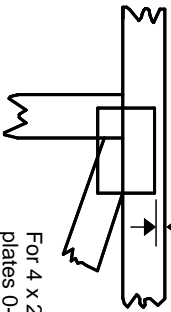
November 16, 2020

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

* Plate location details available in **MITek 20/20 software or upon request.**

PLATE SIZE

4 X 4

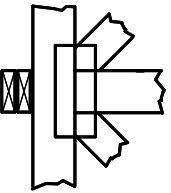
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



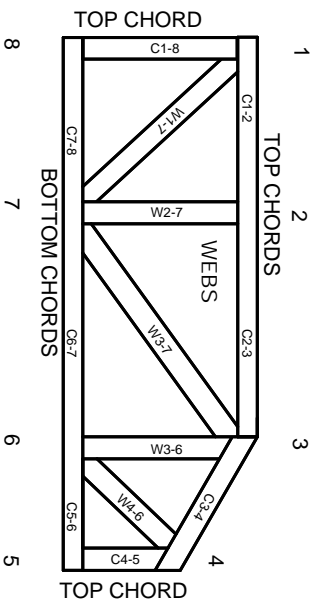
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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 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/TPI 1 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.