

RE: J1020-4751
 Lot 47 South Creek

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J1020-4751
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.3
 Wind Code: N/A Wind Speed: 120 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 26 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E14967274	A01	10/12/2020	21	E14967294	J07	10/12/2020
2	E14967275	A01A	10/12/2020	22	E14967295	J07GE	10/12/2020
3	E14967276	A01AG	10/12/2020	23	E14967296	M01	10/12/2020
4	E14967277	A02	10/12/2020	24	E14967297	M01SG	10/12/2020
5	E14967278	A02A	10/12/2020	25	E14967298	PB01	10/12/2020
6	E14967279	B01	10/12/2020	26	E14967299	PB01GE	10/12/2020
7	E14967280	B01GR	10/12/2020				
8	E14967281	B01SG	10/12/2020				
9	E14967282	C01	10/12/2020				
10	E14967283	C01GE	10/12/2020				
11	E14967284	C02	10/12/2020				
12	E14967285	C02GE	10/12/2020				
13	E14967286	D01	10/12/2020				
14	E14967287	D01GE	10/12/2020				
15	E14967288	D02	10/12/2020				
16	E14967289	D03	10/12/2020				
17	E14967290	E01	10/12/2020				
18	E14967291	E01SG	10/12/2020				
19	E14967292	G01	10/12/2020				
20	E14967293	G01GE	10/12/2020				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville. Truss Design Engineer's Name: Lassiter, Frank My license renewal date for the state of North Carolina is December 31, 2020. North Carolina COA: C-0844



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

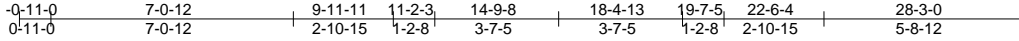
October 12, 2020

Job J1020-4751	Truss A01	Truss Type ATTIC	Qty 3	Ply 1	Lot 47 South Creek Job Reference (optional)	E14967274
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:00 2020 Page 1

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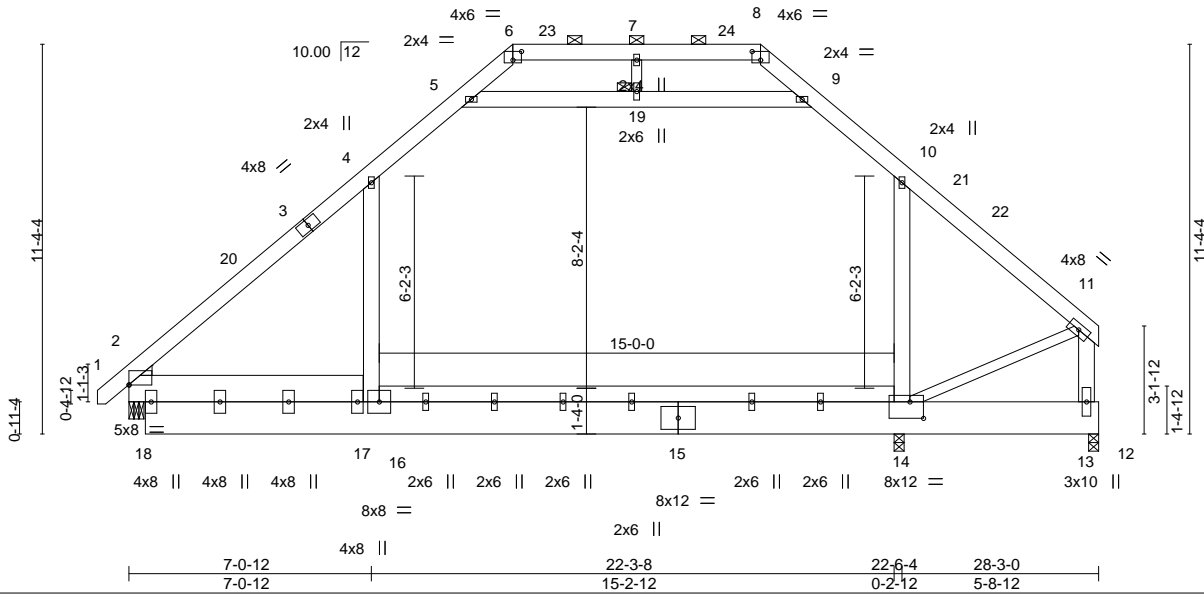


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [6:0-3-0,0-3-0], [8:0-3-0,0-3-0], [14:0-4-12,0-5-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.28	14-16	>948	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.48	14-16	>558	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) -0.03	14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08	14-16	>999	240	Weight: 349 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x12 SP No.1 *Except* 14-16: 2x6 SP No.1, 2-17: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 11-14,7-19: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 19

WEDGE
Left: 2x4 SP No.3

REACTIONS. (size) 14=0-3-8, 13=0-3-8, 2=0-5-4
Max Horz 2=202(LC 9)
Max Uplift 14=-14(LC 13)
Max Grav 14=944(LC 21), 13=1300(LC 20), 2=1705(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1790/0, 4-5=-1218/58, 5-6=-377/233, 8-9=-415/207, 9-10=-1242/69,
10-11=-1723/0, 11-13=-1821/0, 6-7=-251/401, 7-8=-251/401
BOT CHORD 2-16=0/1237, 14-16=0/1215
WEBS 5-19=-1458/0, 9-19=-1458/0, 4-16=0/653, 10-14=-199/490, 11-14=0/1316

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-2-3, Exterior(2R) 11-2-3 to 17-4-14, Interior(1) 17-4-14 to 18-4-13, Exterior(2R) 18-4-13 to 24-7-8, Interior(1) 24-7-8 to 27-10-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-19, 9-19; Wall dead load (5.0psf) on member(s).4-16, 10-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 14.
 - This truss is designed in accordance with the 2018 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.
 - Attic room checked for L/360 deflection.



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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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



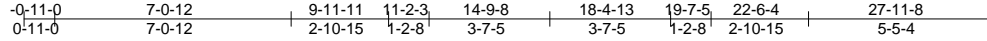
818 Soundside Road
Edenton, NC 27932

Job J1020-4751	Truss A01A	Truss Type ATTIC	Qty 3	Ply 1	Lot 47 South Creek Job Reference (optional)	E14967275
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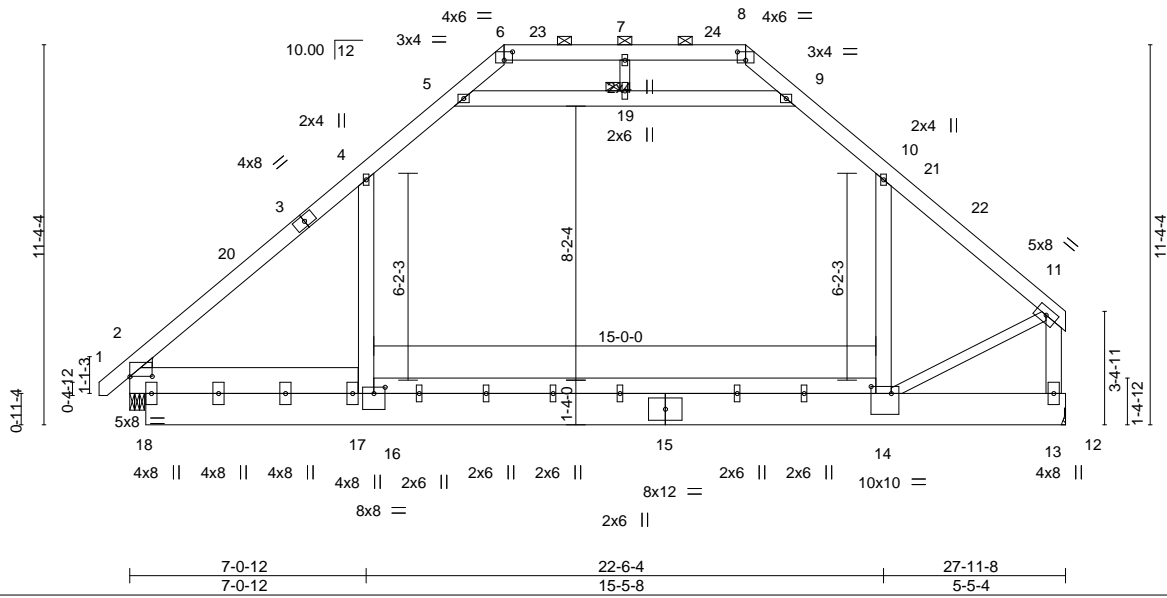


Plate Offsets (X,Y)-- [2:0-8-0,0-0-2], [6:0-3-0,0-3-0], [8:0-3-0,0-3-0], [14:0-7-4,0-2-8], [16:0-4-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0.28	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.47	14-16	>698	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) -0.02	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07	14-16	>999	240	Weight: 347 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
 8-11: 2x6 SP 2400F 2.0E
 BOT CHORD 2x12 SP No.1 *Except*
 14-16: 2x6 SP No.1, 2-17: 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 11-14,7-19: 2x4 SP No.2

WEDGE
 Left: 2x4 SP No.3

REACTIONS. (size) 13=Mechanical, 2=0-5-4
 Max Horz 2=202(LC 9)
 Max Grav 13=1863(LC 2), 2=1810(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2152/0, 4-5=-1400/44, 5-6=-289/389, 8-9=-317/380, 9-10=-1410/40,
 10-11=-2003/0, 11-13=-2212/0, 6-7=-127/621, 7-8=-127/621
 BOT CHORD 2-16=0/1411, 14-16=0/1401
 WEBS 5-19=-1884/0, 9-19=-1884/0, 4-16=0/914, 10-14=-9/815, 11-14=0/1536

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-2-3, Exterior(2R) 11-2-3 to 17-4-14, Interior(1) 17-4-14 to 18-4-13, Exterior(2R) 18-4-13 to 24-7-8, Interior(1) 24-7-8 to 27-7-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-19, 9-19; Wall dead load (5.0psf) on member(s).4-16, 10-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 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.
- Attic room checked for L/360 deflection.



October 12, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 J1020-4751	Truss A01AG	Truss Type GABLE	Qty 1	Ply 1	Lot 47 South Creek	E14967276
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0-11-0 0-11-0	7-0-12 7-0-12	9-11-11 2-10-15	11-2-3 1-2-8	14-9-8 3-7-5	18-4-13 3-7-5	19-7-5 1-2-8	22-6-4 2-10-15	27-11-8 5-5-4
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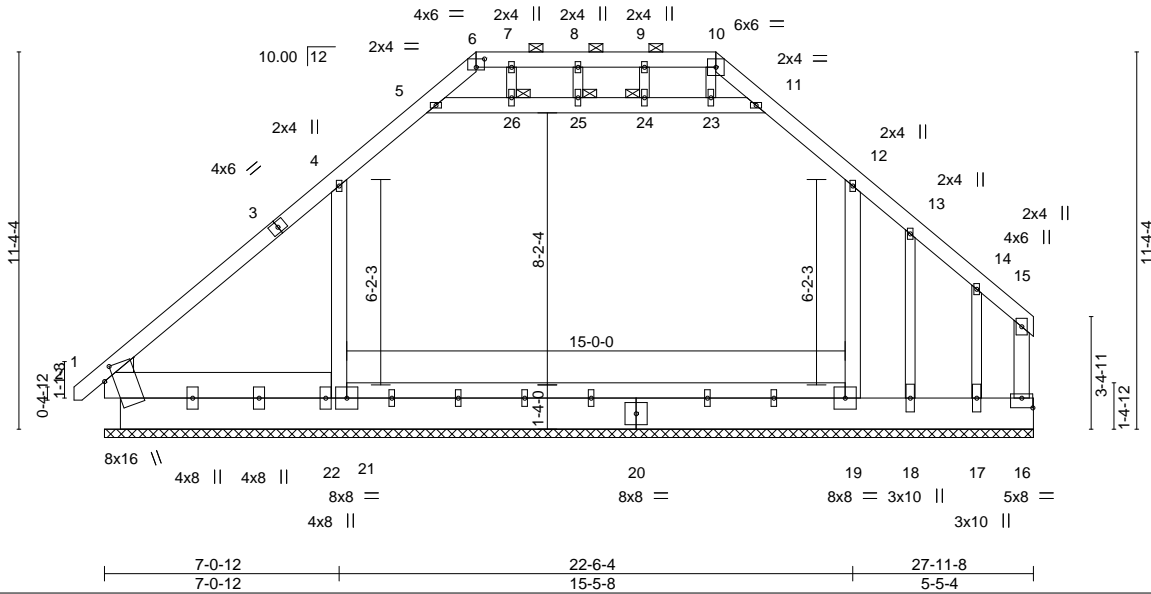


Plate Offsets (X,Y)-- [2:0-4-9,0-3-6], [6:0-3-0,0-3-0], [16:0-4-0,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.00	16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						
							Weight: 357 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x12 SP No.1 *Except*
19-21: 2x6 SP No.1, 2-22: 2x10 SP No.1
WEBS 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS. All bearings 27-11-8.
(lb) - Max Horz 2=252(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16 except 21=114(LC 12), 17=559(LC 1), 18=1306(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 17 except 2=522(LC 1), 21=1525(LC 20), 19=2142(LC 18), 16=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-563/219, 4-5=-615/127, 5-6=-887/109, 10-11=-906/143, 11-12=-619/118, 12-13=-255/75, 13-14=-406/35, 14-15=-569/56, 15-16=-544/38, 6-7=-822/116, 7-8=-822/116, 8-9=-822/116, 9-10=-825/115
BOT CHORD 2-21=-27/288, 19-21=-27/288, 18-19=-27/288, 17-18=-27/288, 16-17=-27/288
WEBS 5-26=-109/557, 25-26=-109/557, 24-25=-109/557, 23-24=-109/557, 11-23=-104/537, 4-21=-704/223, 12-19=-762/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-2-3, Exterior(2R) 11-2-3 to 15-7-0, Interior(1) 15-7-0 to 18-4-13, Exterior(2R) 18-4-13 to 22-6-4, Interior(1) 22-6-4 to 27-7-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x6 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 11-12, 5-26, 25-26, 24-25, 23-24, 11-23; Wall dead load (5.0psf) on member(s).4-21, 12-19



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Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967276
J1020-4751	A01AG	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:04 2020 Page 2
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NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16 except (jt=lb) 21=114, 17=559, 18=1306.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 16) Attic room checked for L/360 deflection.

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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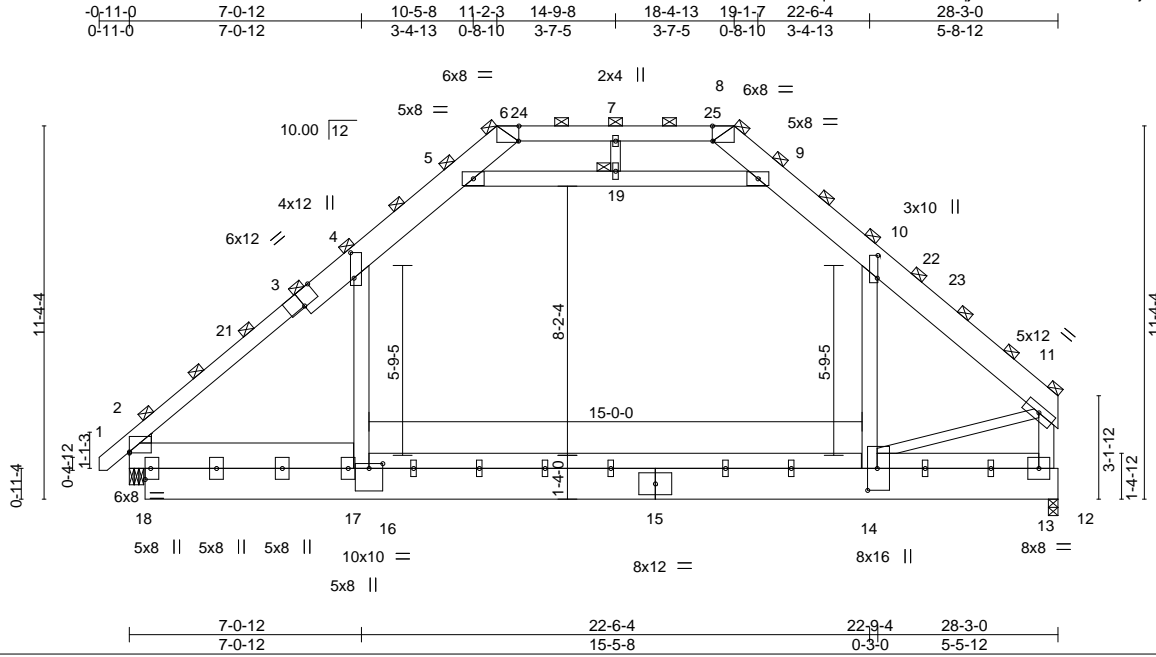
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967277
J1020-4751	A02	ATTIC	1	2		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:06 2020 Page 1

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Scale = 1:70.1

Plate Offsets (X,Y)-- [2:0-0-0,0-0-6], [3:0-6-0,Edge], [4:0-9-5,0-1-4], [6:0-0-2,Edge], [8:0-0-2,Edge], [10:0-8-5,0-0-4], [14:0-8-0,0-3-8], [16:0-5-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.29	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.46	14-16	>720	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.64	Horz(CT) -0.02	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07	14-16	>999	240	Weight: 783 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP 2400F 2.0E *Except*
6-8: 2x6 SP No.1, 1-3: 2x6 SP 2400F 2.0E
BOT CHORD 2x12 SP No.1 *Except*
12-15: 2x12 SP 2400F 2.0E, 16-20: 2x6 SP No.1, 2-17: 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
11-14,7-19: 2x4 SP No.2

WEDGE
Left: 2x4 SP No.3

REACTIONS. (size) 13=0-3-8, 2=0-5-4
Max Horz 2=522(LC 9)
Max Grav 13=6088(LC 2), 2=7190(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-6877/0, 4-5=-4324/53, 5-6=-502/1810, 8-9=-574/1709, 9-10=-4427/33,
10-11=-6487/0, 11-13=-6667/0, 6-7=-20/2640, 7-8=-20/2640
BOT CHORD 2-16=0/4684, 14-16=0/4528
WEBS 5-19=-6968/0, 9-19=-6968/0, 4-16=0/3748, 10-14=0/3255, 11-14=0/4736, 7-19=0/485

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: 2x10 - 2 rows staggered at 0-9-0 oc, 2x12 - 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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCLD=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-6-2, Exterior(2R) 11-6-2 to 17-8-12, Interior(1) 17-8-12 to 18-0-14, Exterior(2R) 18-0-14 to 24-3-9, Interior(1) 24-3-9 to 27-10-15 zone; end vertical 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 2x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-19, 9-19; Wall dead load (5.0psf) on member(s).4-16, 10-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 12, 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 47 South Creek	E14967277
J1020-4751	A02	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:06 2020 Page 2
 ID:wAaOiCu?enbzDlvzeiq6d3zFzeT-E3a8i9qjaOnrM7dWRTC4FrQ7jI5zq5V1rhrtyU9Jt

NOTES-

13) 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: 2-16=-155(F=-104), 14-16=-103, 13-14=-117(F=-65), 12-13=-52, 1-4=-155, 4-5=-207, 5-6=-155, 8-9=-155, 9-10=-207, 10-11=-155, 5-9=-52, 6-8=-155
 Drag: 4-16=-26, 10-14=-26

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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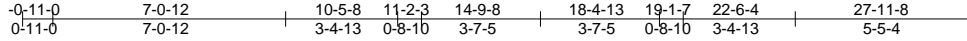
818 Soundside Road
 Edenton, NC 27932

Job J1020-4751	Truss A02A	Truss Type ATTIC	Qty 1	Ply 2	Lot 47 South Creek Job Reference (optional)	E14967278
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:08 2020 Page 1

ID:wAaOICu?enbzDlvzeiq6d3zFzeT-ASiu7rr 6?1ZbQnuZuEYLGWTEYnT8jOoV8AnwmyU9r



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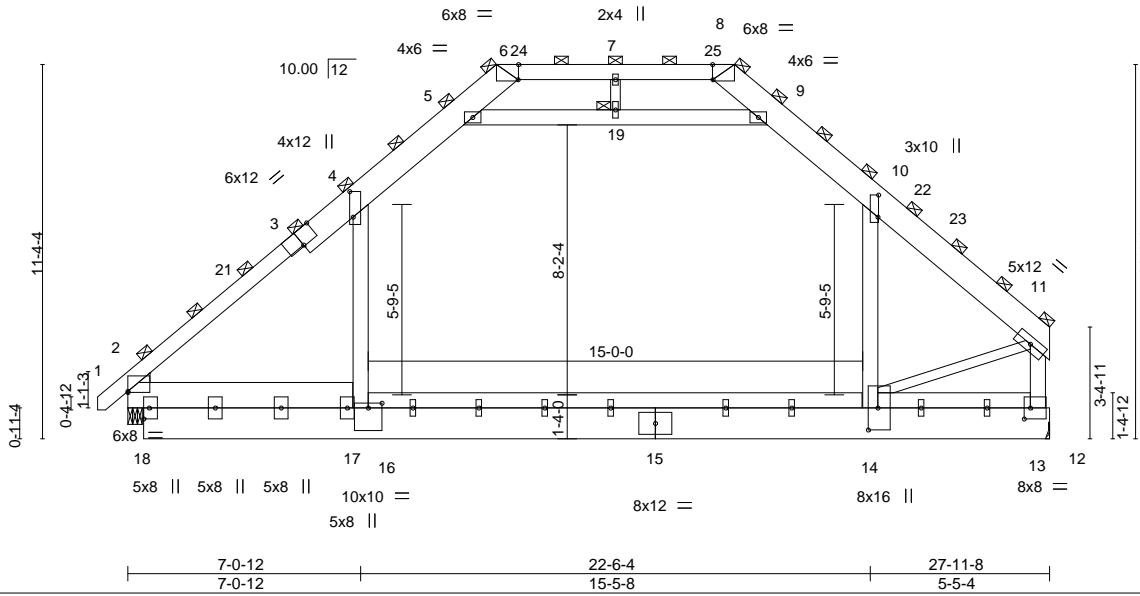


Plate Offsets (X,Y)-- [2:0-0-0,0-0-6], [3:0-6-0,Edge], [4:0-9-5,0-1-4], [6:0-0-2,Edge], [8:0-0-2,Edge], [10:0-8-1,0-0-4], [13:0-2-4,0-4-0], [14:0-8-0,0-3-8], [16:0-5-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.28	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.46	14-16	>711	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT) -0.02	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07	14-16	>999	240	Weight: 776 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP 2400F 2.0E *Except*
6-8: 2x6 SP No.1, 1-3: 2x6 SP 2400F 2.0E
BOT CHORD 2x12 SP No.1 *Except*
12-15: 2x12 SP 2400F 2.0E, 16-20: 2x6 SP No.1, 2-17: 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
11-14,7-19: 2x4 SP No.2

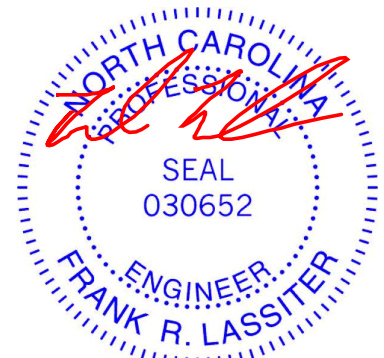
WEDGE
Left: 2x4 SP No.3

REACTIONS. (size) 13=Mechanical, 2=0-5-4
Max Horz 2=522(LC 9)
Max Grav 13=6043(LC 2), 2=7126(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-6727/0, 4-5=-4233/59, 5-6=-548/1746, 8-9=-630/1632, 9-10=-4349/38,
10-11=-6317/0, 11-13=-6830/0, 6-7=-88/2546, 7-8=-88/2546
BOT CHORD 2-16=0/4581, 14-16=0/4419
WEBS 5-19=-6771/0, 9-19=-6771/0, 4-16=0/3661, 10-14=0/3154, 11-14=0/4830, 7-19=0/478

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: 2x10 - 2 rows staggered at 0-9-0 oc, 2x12 - 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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCLD=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-6-2, Exterior(2R) 11-6-2 to 17-8-12, Interior(1) 17-8-12 to 18-0-14, Exterior(2R) 18-0-14 to 24-3-9, Interior(1) 24-3-9 to 27-7-7 zone; end vertical 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 2x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-19, 9-19; Wall dead load (5.0psf) on member(s).4-16, 10-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

Continued on page 2. **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 47 South Creek	E14967278
J1020-4751	A02A	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:08 2020 Page 2
 ID:wAaOiCu?enbZDlvzeiq6d3zFzeT-ASiu7rr_6?1ZbQnuZuEYLGWTEYnT8jOoV8AnwmyU9Jr

NOTES-

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) 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: 2-16=-155(F=-104), 14-16=-103, 13-14=-117(F=-65), 12-13=-52, 1-4=-155, 4-5=-207, 5-6=-155, 8-9=-155, 9-10=-207, 10-11=-155, 5-9=-52, 6-8=-155
 Drag: 4-16=-26, 10-14=-26

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 47 South Creek	E14967279
J1020-4751	B01	COMMON	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:09 2020 Page 1

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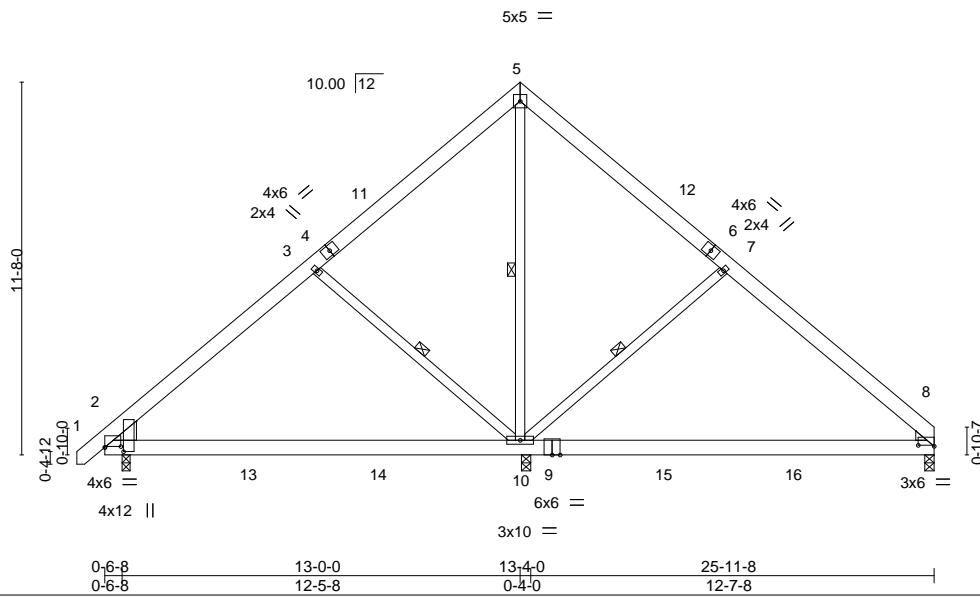


Plate Offsets (X,Y)-- [2:0-1-9,0-7-0], [2:0-6-0,0-0-5], [8:0-6-0,0-0-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.27	8-10	>579	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.40	8-10	>386	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.20	2-10	>768	240		
							Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-10, 5-10, 7-10
WEDGE	
Left: 2x8 SP No.1 , Right: 2x4 SP No.3	

REACTIONS. (size) 10=0-3-8, 8=0-3-8, 2=0-3-0
 Max Horz 2=232(LC 9)
 Max Uplift 10=-32(LC 12), 2=-21(LC 8)
 Max Grav 10=1404(LC 2), 8=555(LC 20), 2=563(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-411/92, 7-8=-409/76
 BOT CHORD 2-10=-138/340, 8-10=0/255
 WEBS 3-10=-401/279, 5-10=-361/42, 7-10=-415/240

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDD=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 13-0-0, Exterior(2R) 13-0-0 to 17-4-13, Interior(1) 17-4-13 to 25-9-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967280
J1020-4751	B01GR	COMMON	1	2		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:10 2020 Page 1

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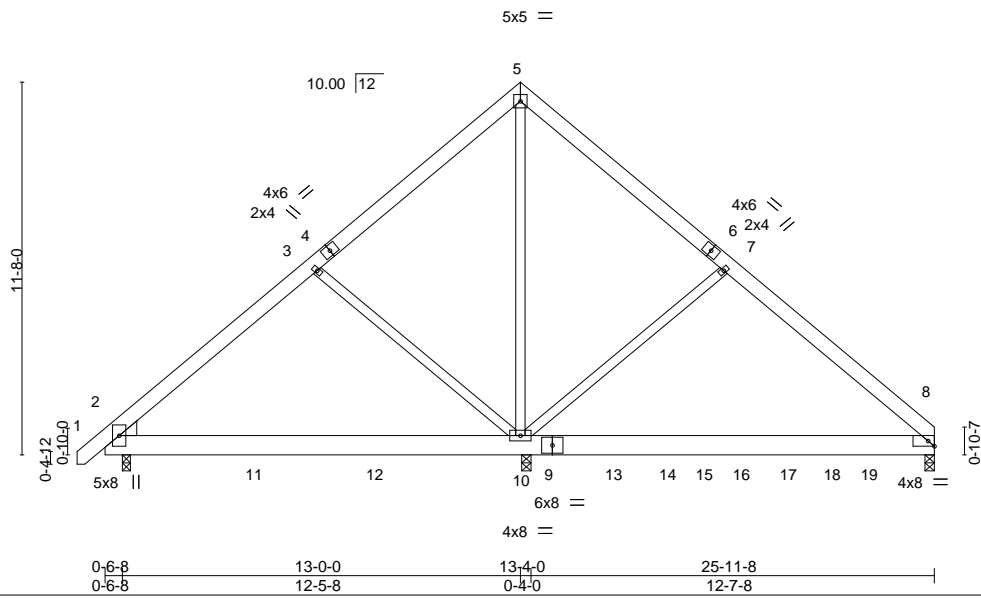


Plate Offsets (X,Y)-- [2:0-4-7,0-9-11], [2:0-2-3,0-2-10], [8:0-2-6,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.16	8-10	>964	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.32	8-10	>476	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.15	Horz(CT) 0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) -0.12	8-10	>999	240	Weight: 408 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.1

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

REACTIONS. (size) 10=0-3-8, 8=0-3-8, 2=0-3-0
 Max Horz 2=232(LC 5)
 Max Uplift 2=102(LC 26)
 Max Grav 10=2275(LC 35), 8=1120(LC 36), 2=493(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-429/70, 7-8=-432/41
 BOT CHORD 2-10=-162/340, 8-10=0/312
 WEBS 3-10=-380/222, 5-10=-346/18, 7-10=-478/178

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=102.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 239 lb down at 13-10-12, 238 lb down at 15-10-12, 238 lb down at 17-10-12, 238 lb down at 19-10-12, and 238 lb down at 21-10-12, and 238 lb down at 23-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



October 12, 2020

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967280
J1020-4751	B01GR	COMMON	1	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:10 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-8=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 9=-234(F) 13=-234(F) 15=-234(F) 16=-234(F) 18=-234(F) 19=-234(F)

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

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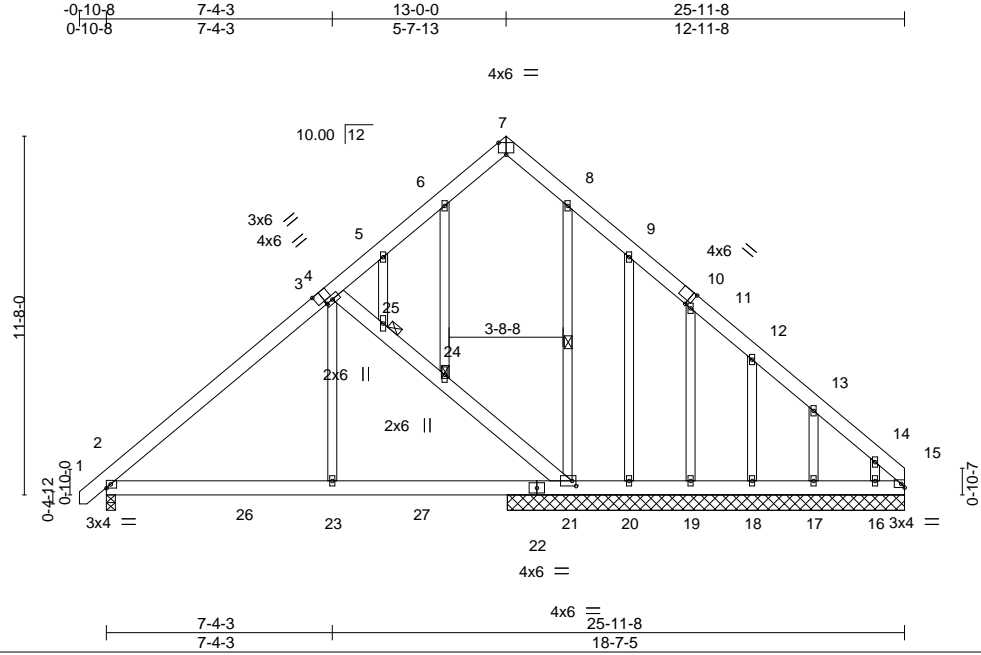
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967281
J1020-4751	B01SG	KINGPOST	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:12 2020 Page 1

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Plate Offsets (X,Y)-- [3:0-3-0,Edge], [7:0-3-0,Edge], [10:0-1-8,Edge], [21:0-1-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.03 2-23	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.05 2-23	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01 15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.03 2-23	>999	240	Weight: 231 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 8-21
4-21: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 24, 25

REACTIONS. All bearings 12-11-0 except (jt=length) 2=0-3-8.
 (lb) - Max Horz 2=290(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 18, 17, 2 except 15=-134(LC 11), 21=-102(LC 12),
 20=-154(LC 13), 16=-184(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 17, 16 except 15=385(LC 13), 21=840(LC 2),
 2=797(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-825/175, 4-5=-265/56, 12-13=-272/115, 13-14=-365/149, 14-15=-503/198
 BOT CHORD 2-23=-128/679, 21-23=-128/679, 20-21=-133/349, 19-20=-133/349, 18-19=-133/349,
 17-18=-133/349, 16-17=-133/349, 15-16=-133/349
 WEBS 4-25=-670/363, 24-25=-634/344, 21-24=-673/358, 4-23=-144/538

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 13-0-0, Exterior(2R) 13-0-0 to 17-4-13, Interior(1) 17-4-13 to 25-11-8 zone; porch left 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 18, 17, 2 except (jt=lb) 15=134, 21=102, 20=154, 16=184.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



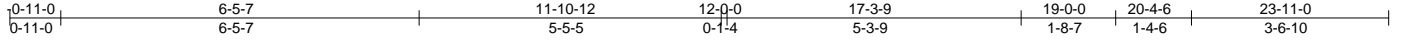
October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967282
J1020-4751	C01	ROOF SPECIAL	6	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:13 2020 Page 1

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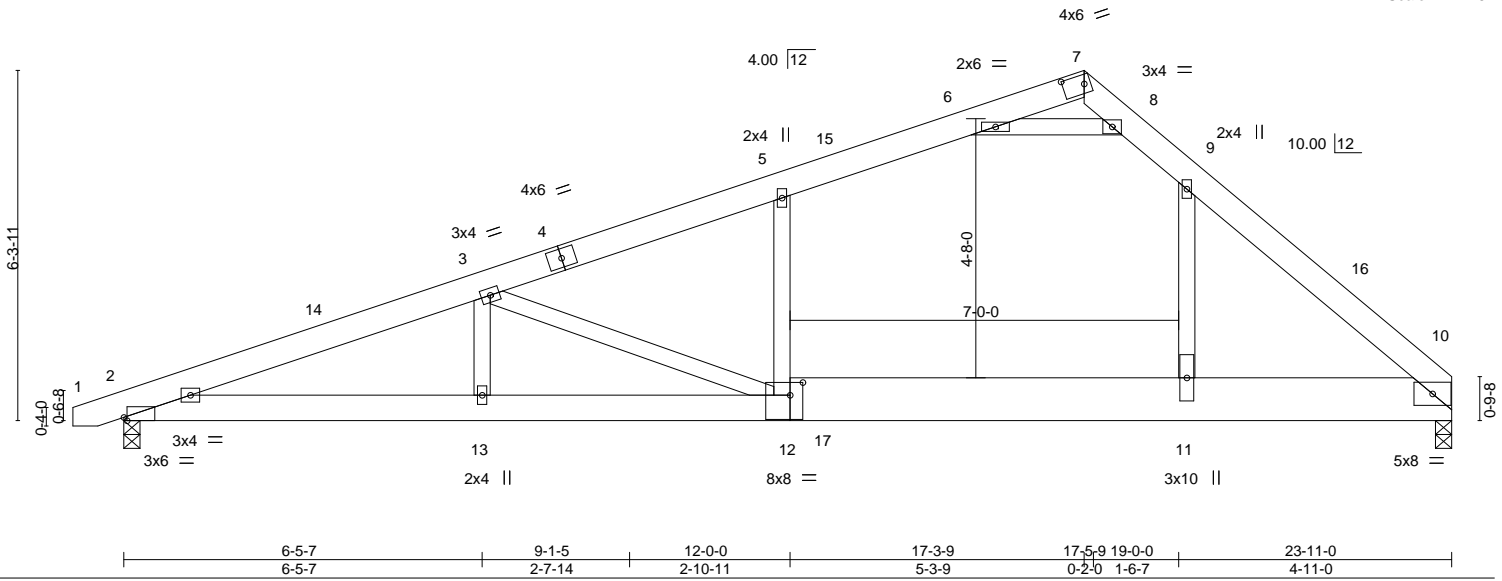


Plate Offsets (X,Y)-- [2:0-0-11,Edge], [7:0-4-10,0-2-0], [12:0-2-12,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.23	12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.41	12-13	>690	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.03	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.13	12-13	>999	240	Weight: 166 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
10-12: 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
5-12,6-8: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 2=0-3-8
Max Horz 2=129(LC 9)
Max Uplift 10=-4(LC 8), 2=-56(LC 8)
Max Grav 10=1133(LC 2), 2=1112(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2641/455, 3-5=-1510/303, 5-6=-1334/330, 6-7=-199/968, 7-8=-117/682,
8-9=-1174/331, 9-10=-1925/339
BOT CHORD 2-13=-385/2462, 12-13=-385/2462, 11-12=-153/1360, 10-11=-152/1354
WEBS 3-13=0/371, 5-12=0/372, 6-8=-2351/561, 3-12=-1214/247, 9-11=-30/966

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 17-3-9, Exterior(2R) 17-3-9 to 21-8-6, Interior(1) 21-8-6 to 23-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 12, 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 47 South Creek	E14967283
J1020-4751	C01GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:14 2020 Page 1
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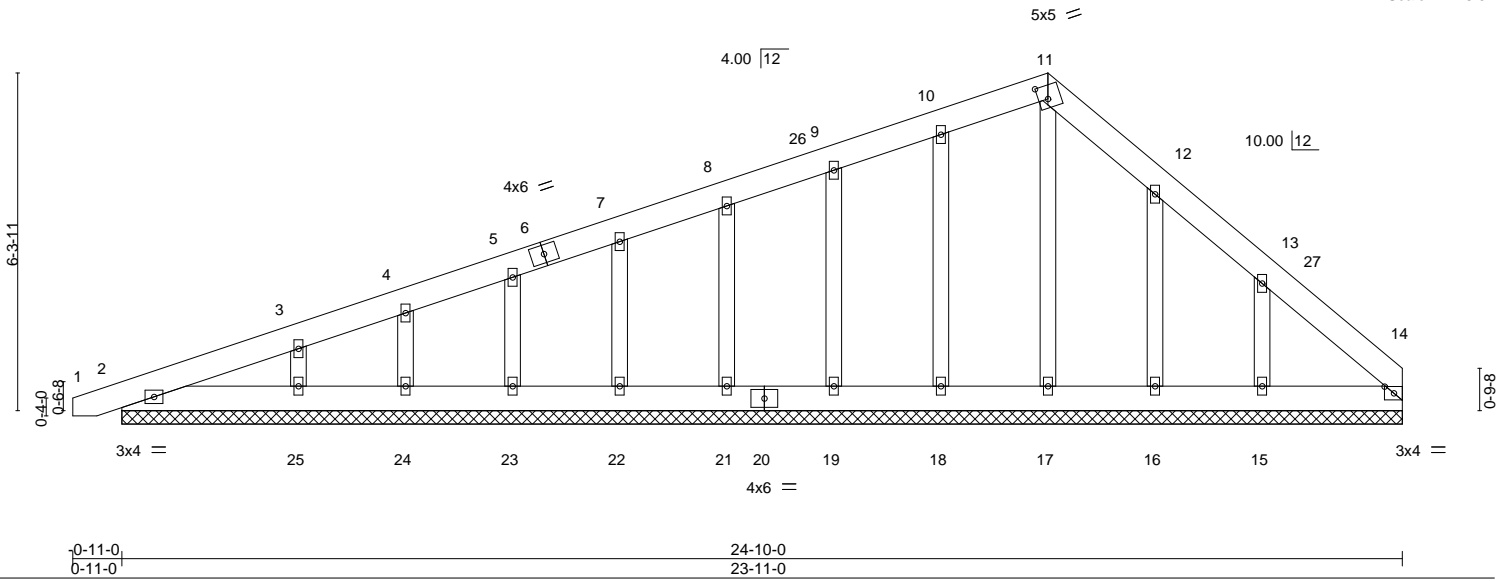


Plate Offsets (X,Y)-- [11:0-2-1,0-3-0], [14:0-2-2,0-1-8]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2018/TPI2014						Weight: 167 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 2-20: 2x6 SP 2400F 2.0E
 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 23-11-0.
 (lb) - Max Horz 2=178(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 19, 21, 22, 23, 24, 25, 16 except 15=136(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 14, 2, 17, 18, 19, 21, 22, 23, 24, 16, 15 except 25=259(LC 25)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-5 to 3-8-8, Exterior(2N) 3-8-8 to 17-3-9, Corner(3R) 17-3-9 to 21-8-6, Exterior(2N) 21-8-6 to 23-11-0 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 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, 18, 19, 21, 22, 23, 24, 25, 16 except (jt=lb) 15=136.
- This truss is designed in accordance with the 2018 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.



October 12, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 47 South Creek	E14967284
J1020-4751	C02	ROOF SPECIAL	6	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:15 2020 Page 1
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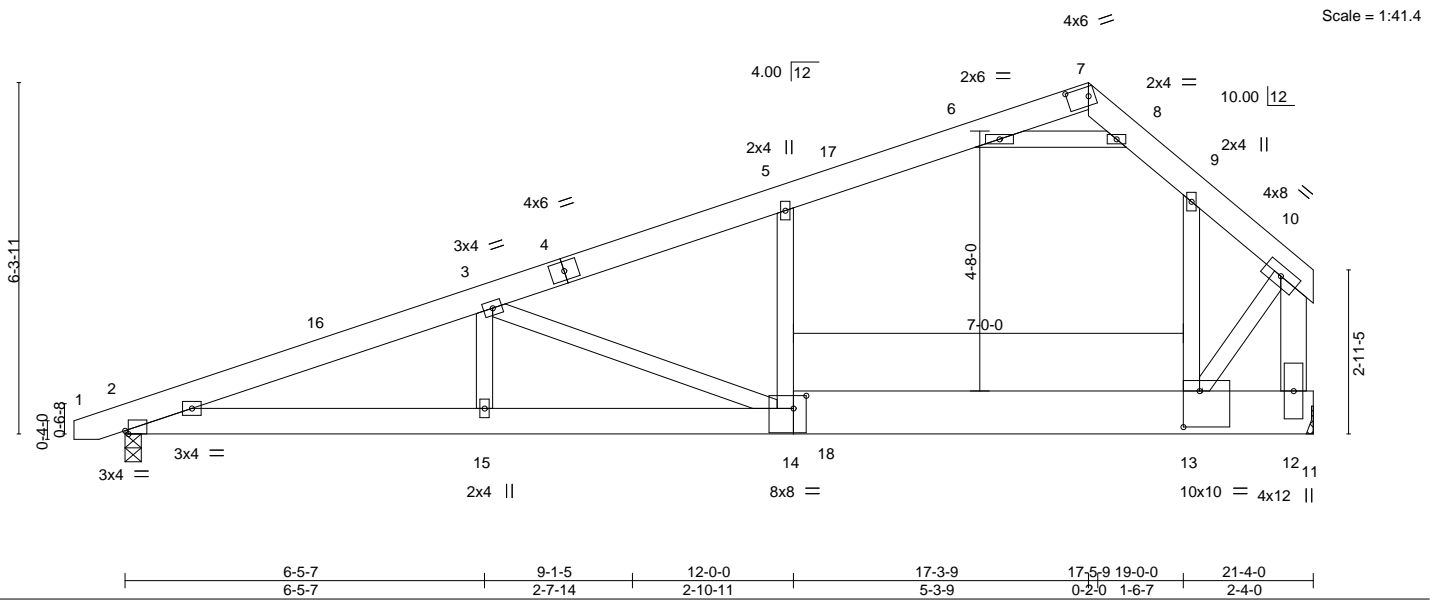


Plate Offsets (X,Y)--	[2:0-0-11,Edge], [7:0-4-10,0-2-0], [13:0-3-8,0-7-12], [14:0-2-12,0-2-12]
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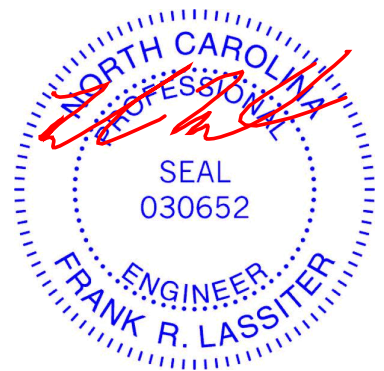
LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	Vert(LL)	-0.22	14-15	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT)	-0.40	14-15	>632		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Horz(CT)	0.02	12	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.13	14-15	>999		
	Code IRC2018/TPI2014						Weight: 157 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-1-13 oc purlins, except end verticals.
BOT CHORD 2x6 SP 2400F 2.0E *Except*	BOT CHORD Rigid ceiling directly applied or 7-3-12 oc bracing.
WEBS 2x4 SP No.2 *Except*	
10-12: 2x6 SP No.1, 5-14,6-8: 2x4 SP No.1	

REACTIONS. (size) 2=0-3-8, 12=Mechanical
 Max Horz 2=126(LC 9)
 Max Uplift 2=51(LC 8), 12=17(LC 8)
 Max Grav 2=976(LC 2), 12=1045(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2257/382, 3-5=-1074/215, 5-6=-936/258, 6-7=-103/733, 7-8=-34/461, 8-9=-871/276, 9-10=-1245/256, 10-12=-2105/405
 BOT CHORD 2-15=-413/2089, 14-15=-413/2088, 13-14=-173/950
 WEBS 3-15=0/408, 5-14=0/265, 6-8=-1663/383, 3-14=-1238/256, 9-13=0/536, 10-13=-288/1590

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 17-3-9, Exterior(2E) 17-3-9 to 20-11-12 zone;C/C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 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.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
 - 7) This truss is designed in accordance with the 2018 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.



October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967285
J1020-4751	C02GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:16 2020 Page 1
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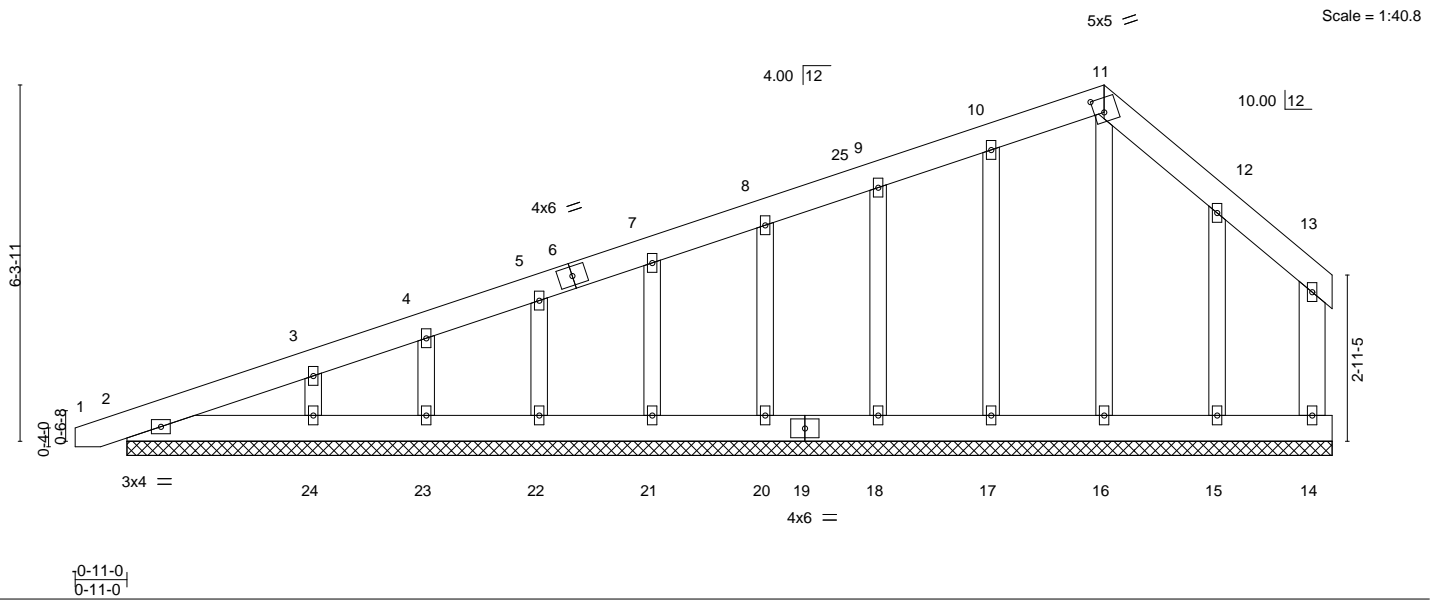


Plate Offsets (X,Y)-- [11:0-2-1,0-3-0]

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 0.03	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 156 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 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 21-4-0.
 (lb) - Max Horz 2=171(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 17, 18, 20, 21, 22, 23, 24, 15
 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 16, 17, 18, 20, 21, 22, 23, 15 except 24=259(LC 25)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDD=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-5 to 3-8-8, Exterior(2N) 3-8-8 to 17-3-9, Corner(3E) 17-3-9 to 20-11-12 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 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, 14, 17, 18, 20, 21, 22, 23, 24, 15.
 - This truss is designed in accordance with the 2018 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.



October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967286
J1020-4751	D01	COMMON	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:17 2020 Page 1

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4x6 =

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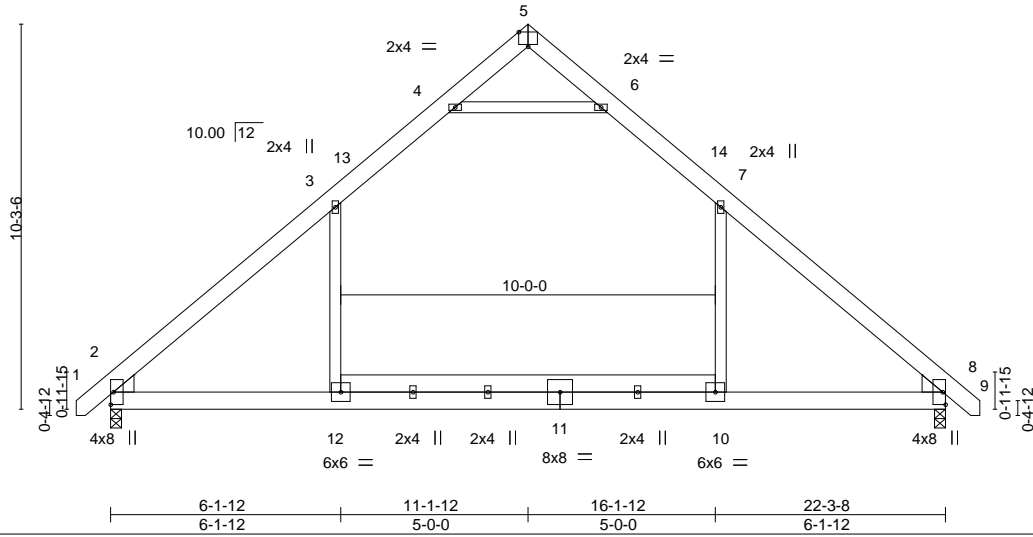


Plate Offsets (X,Y)-- [2:0-0-12,0-5-5], [2:0-0-6,0-0-7], [5:0-3-0,Edge], [8:0-0-6,0-0-7], [8:0-0-12,0-5-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	Vert(LL)	-0.33 10-12	>802	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(CT)	-0.48 10-12	>544	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.13 12	>999	240	Weight: 174 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 10-12: 2x6 SP No.1
 WEDGE
 Left: 2x6 SP No.1 , Right: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
 Max Horz 2=-203(LC 10)
 Max Uplift 8=-1(LC 13), 2=-1(LC 12)
 Max Grav 8=1169(LC 20), 2=1169(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1451/123, 3-4=-868/212, 4-5=-59/428, 5-6=-59/428, 6-7=-868/212, 7-8=-1450/123
 BOT CHORD 2-12=0/937, 10-12=0/938, 8-10=0/937
 WEBS 3-12=0/645, 7-10=0/645, 4-6=-1396/328

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-1-12, Exterior(2R) 11-1-12 to 15-6-9, Interior(1) 15-6-9 to 23-1-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 8, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967287
J1020-4751	D01GE	COMMON SUPPORTED GAB	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:18 2020 Page 1

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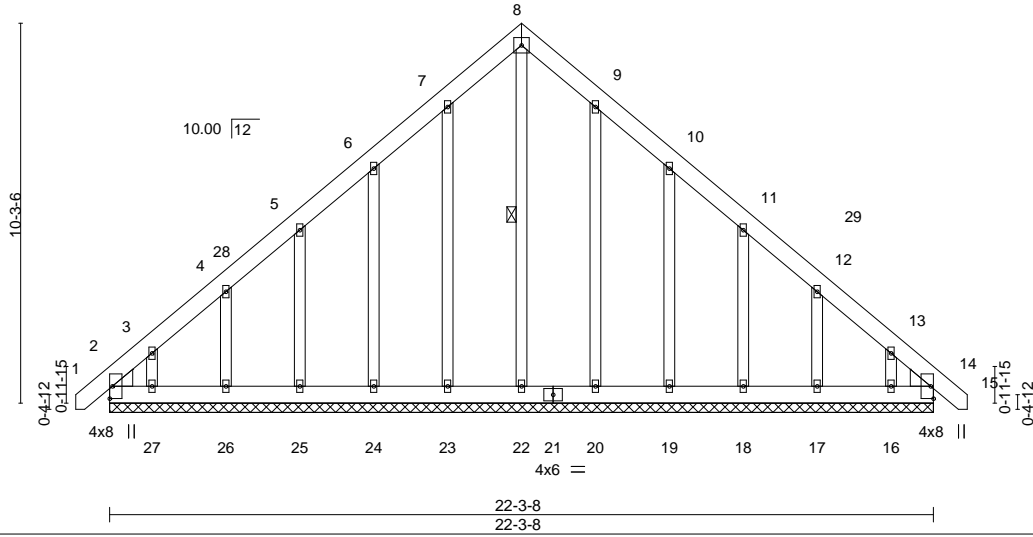


Plate Offsets (X,Y)-- [2:0-0-6,0-0-7], [2:0-0-12,0-5-5], [14:0-0-6,0-0-7], [14:0-0-12,0-5-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	14	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	14	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00	14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 208 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 8-22
WEDGE	
Left: 2x6 SP No.1 , Right: 2x6 SP No.2	

REACTIONS. All bearings 22-3-8.
 (lb) - Max Horz 2=-203(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-279/181, 13-14=-271/133

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-9 to 3-7-4, Exterior(2N) 3-7-4 to 11-1-12, Corner(3R) 11-1-12 to 15-6-9, Exterior(2N) 15-6-9 to 23-1-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967288
J1020-4751	D02	COMMON	6	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:19 2020 Page 1
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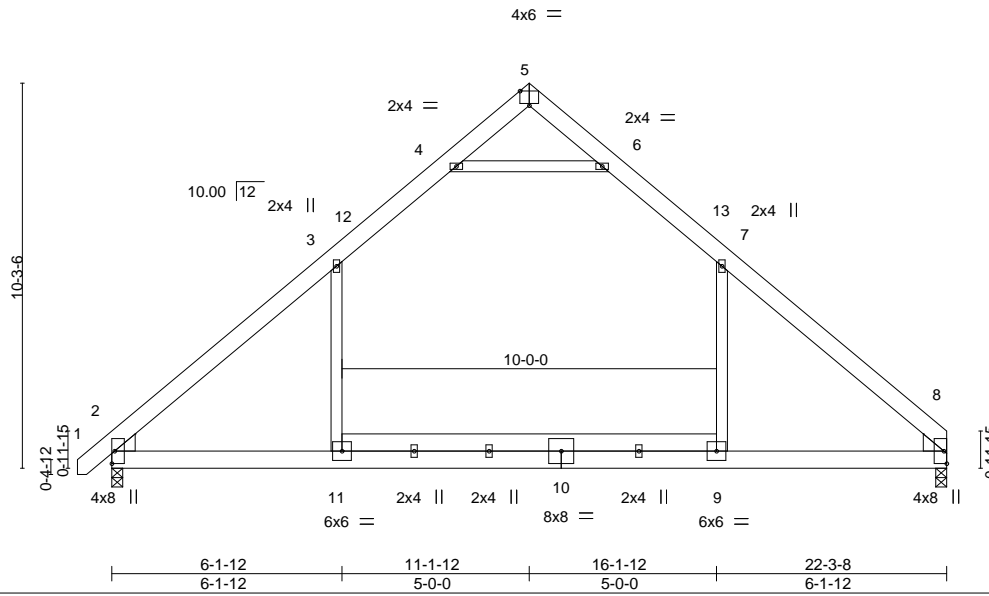


Plate Offsets (X,Y)-- [2:0-0-12,0-5-5], [2:0-0-6,0-0-7], [5:0-3-0,Edge], [8:0-0-6,0-0-7], [8:0-0-12,0-5-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	Vert(LL)	-0.33	9-11	>796	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(CT)	-0.49	9-11	>539		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.13	11	>999		
	Code IRC2018/TPI2014						Weight: 171 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 9-11: 2x6 SP No.1
 WEDGE
 Left: 2x6 SP No.1 , Right: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=202(LC 11)
 Max Uplift 2=-1(LC 12)
 Max Grav 2=1170(LC 19), 8=1116(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1454/124, 3-4=-869/212, 4-5=-62/432, 5-6=-61/432, 6-7=-870/213, 7-8=-1443/121
 BOT CHORD 2-11=0/937, 9-11=0/937, 8-9=0/937
 WEBS 3-11=0/648, 7-9=0/633, 4-6=-1404/332

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 11-1-12, Exterior(2R) 11-1-12 to 15-6-9, Interior(1) 15-6-9 to 22-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 47 South Creek	E14967289
J1020-4751	D03	COMMON	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

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4x6 =

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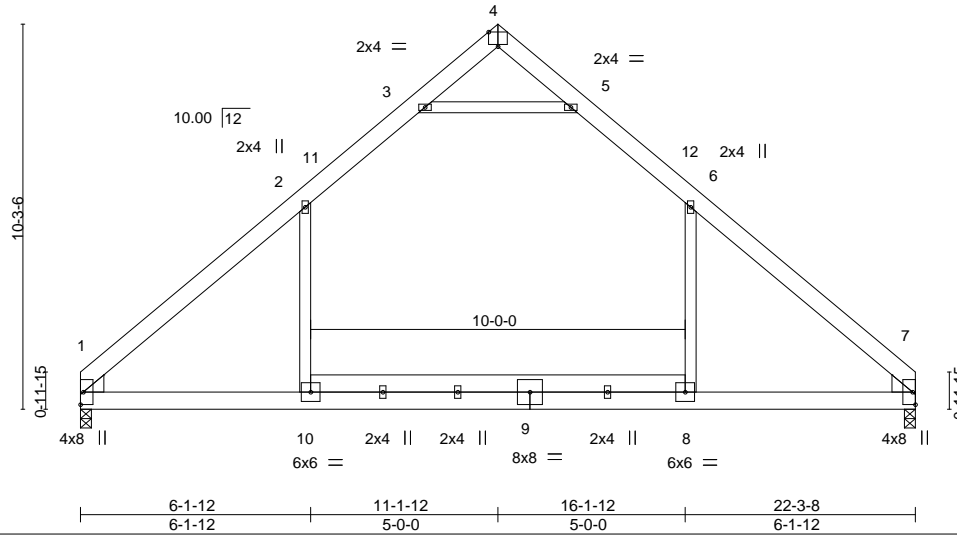


Plate Offsets (X,Y)-- [1:0-0-12,0-5-5], [1:0-0-6,0-0-7], [4:0-3-0,Edge], [7:0-0-6,0-0-7], [7:0-0-12,0-5-5]

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) -0.33	8-10	>789	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.49	8-10	>534	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.14	10	>999	240	Weight: 169 lb	FT = 20%

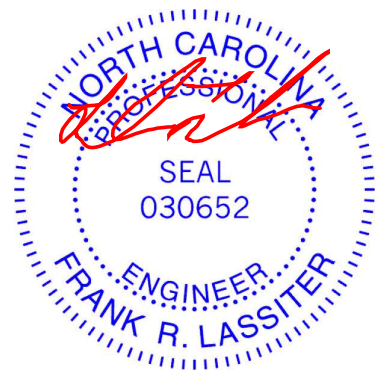
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 8-10: 2x6 SP No.1
 WEDGE
 Left: 2x6 SP No.1 , Right: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 7=0-3-8
 Max Horz 1=199(LC 8)
 Max Grav 1=1117(LC 19), 7=1117(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1447/122, 2-3=-871/214, 3-4=-63/436, 4-5=-63/436, 5-6=-871/214, 6-7=-1446/122
 BOT CHORD 1-10=0/939, 8-10=0/939, 7-8=0/939
 WEBS 2-10=0/636, 6-8=0/636, 3-5=-1410/335

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 11-1-12, Exterior(2R) 11-1-12 to 15-6-9, Interior(1) 15-6-9 to 22-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

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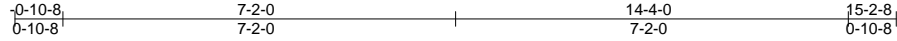
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967290
J1020-4751	E01	COMMON	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

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5x5 =

Scale = 1:42.0

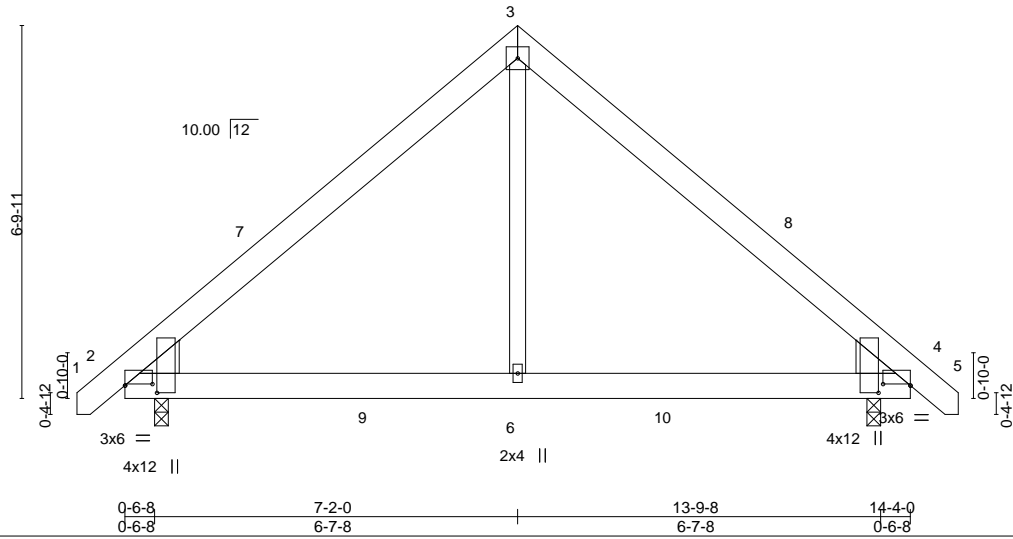


Plate Offsets (X,Y)-- [2:0-6-0,0-0-5], [2:0-1-9,0-7-0], [4:0-6-0,0-0-5], [4:0-1-9,0-7-0]

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 0.22	Vert(LL)	-0.03	2-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.05	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.03	2-6	>999	Weight: 97 lb	FT = 20%

LUMBER-

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

Left: 2x8 SP No.1 , Right: 2x8 SP No.1

BRACING-

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

REACTIONS.

(size) 2=0-3-0, 4=0-3-0
 Max Horz 2=-135(LC 10)
 Max Uplift 2=-39(LC 9), 4=-39(LC 8)
 Max Grav 2=724(LC 2), 4=724(LC 2)

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

TOP CHORD 2-3=-749/341, 3-4=-749/341
 BOT CHORD 2-6=-106/492, 4-6=-106/492
 WEBS 3-6=-201/541

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 7-2-0, Exterior(2R) 7-2-0 to 11-6-13, Interior(1) 11-6-13 to 15-1-1 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

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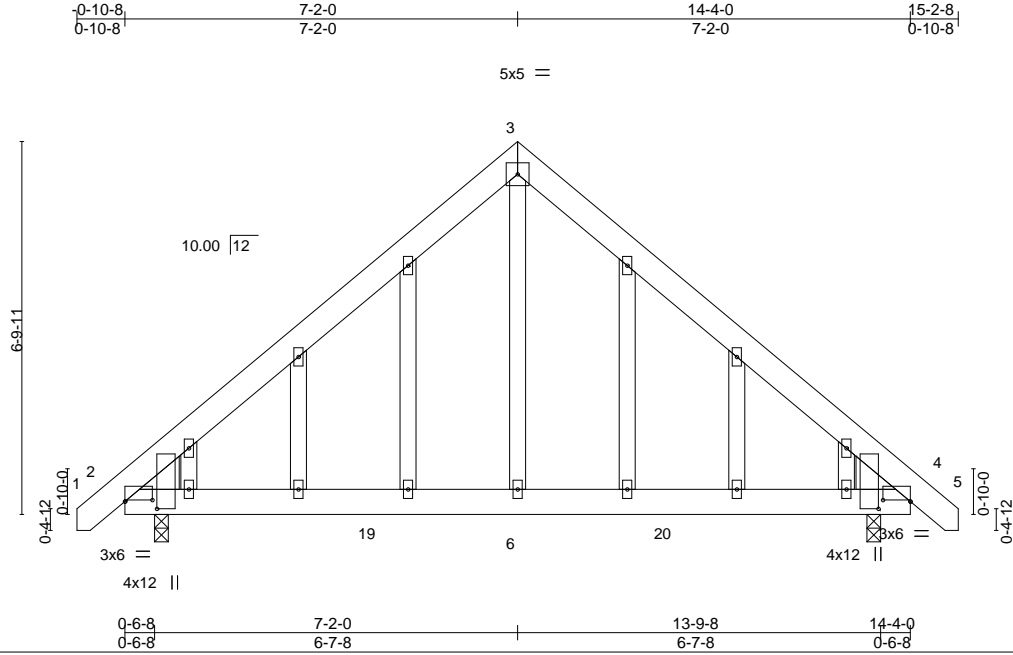


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967291
J1020-4751	E01SG	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:22 2020 Page 1
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Scale = 1:42.0

Plate Offsets (X,Y)-- [2:0-6-0,0-0-5], [2:0-1-9,0-7-0], [4:0-6-0,0-0-5], [4:0-1-9,0-7-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.03	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.05	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.03	2-6	>999	240	Weight: 119 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x8 SP No.1 , Right: 2x8 SP No.1	

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=-169(LC 10)
 Max Uplift 2=-78(LC 12), 4=-78(LC 13)
 Max Grav 2=724(LC 2), 4=724(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-749/313, 3-4=-749/313
 BOT CHORD 2-6=-92/499, 4-6=-92/499
 WEBS 3-6=-198/541

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 7-2-0, Exterior(2R) 7-2-0 to 11-6-13, Interior(1) 11-6-13 to 15-1-1 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



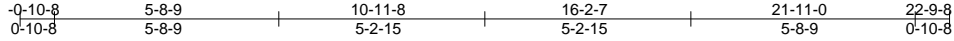
October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967292
J1020-4751	G01	COMMON	5	1		

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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:23 2020 Page 1

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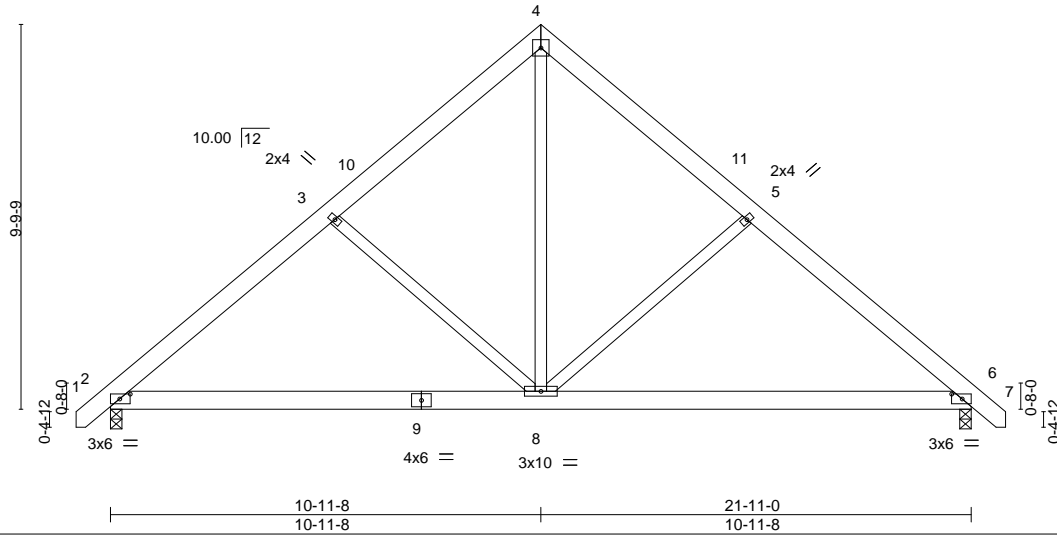


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [6:0-3-3,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.07	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.14	2-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01	2-8	>999	240		
							Weight: 157 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=199(LC 11)
 Max Uplift 2=-2(LC 12), 6=-2(LC 13)
 Max Grav 2=919(LC 1), 6=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1047/183, 3-4=-816/199, 4-5=-816/199, 5-6=-1047/183
 BOT CHORD 2-8=-41/781, 6-8=-30/739
 WEBS 4-8=-109/637, 5-8=-303/204, 3-8=-303/204

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 10-11-8, Exterior(2R) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-8-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 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) 2, 6.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



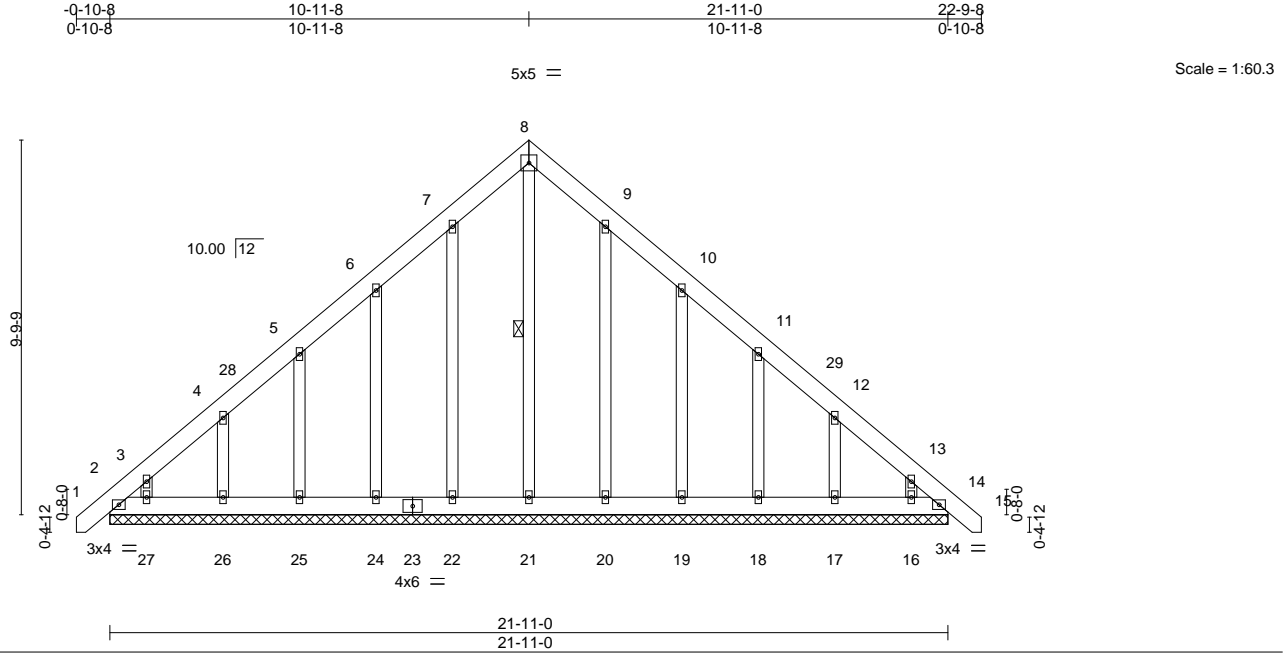
October 12, 2020

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 47 South Creek	E14967293
J1020-4751	G01GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:24 2020 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 14 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.00 14 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 14 n/a n/a		
	Code IRC2018/TPI2014			Weight: 195 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 8-21

REACTIONS. All bearings 21-11-0.
 (lb) - Max Horz 2=249(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16
 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-311/193, 13-14=-265/125

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-1 to 3-7-12, Exterior(2N) 3-7-12 to 10-11-8, Corner(3R) 10-11-8 to 15-4-5, Exterior(2N) 15-4-5 to 22-8-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

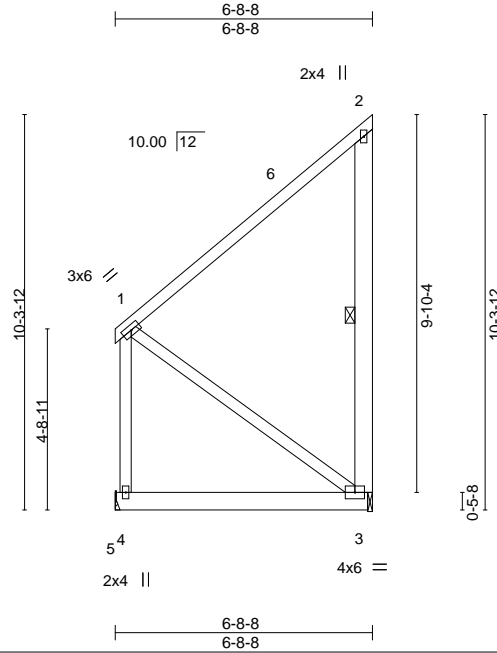


Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967294
J1020-4751	J07	Jack-Closed	6	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:25 2020 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	Vert(LL)	-0.02	3-4	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT)	-0.04	3-4	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	4	****	240		
	Code IRC2018/TPI2014							Weight: 68 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-3

REACTIONS.

(size) 4=Mechanical, 3=0-1-8
 Max Horz 4=144(LC 12)
 Max Uplift 3=-176(LC 12)
 Max Grav 4=257(LC 21), 3=302(LC 19)

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

TOP CHORD 2-3=-204/296
 BOT CHORD 3-4=-328/127
 WEBS 1-3=-158/405

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 6-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 3=176.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

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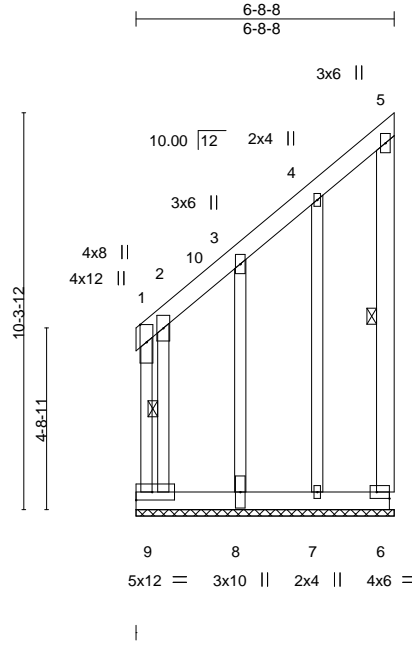
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967295
J1020-4751	J07GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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Scale = 1:59.9

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 91 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-6: 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 1 Row at midpt 5-6, 2-9

REACTIONS. All bearings 6-8-8.
 (lb) - Max Horz 9=206(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 9=139(LC 10), 6=179(LC 12), 8=638(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6, 7 except 9=529(LC 12), 8=357(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-9=860/1989, 1-2=490/1138, 2-3=792/346
 WEBS 3-8=509/1069, 2-9=2806/1178

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-3-4 to 4-8-8, Exterior(2N) 4-8-8 to 6-5-12 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 9, 179 lb uplift at joint 6 and 638 lb uplift at joint 8.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 12, 2020

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967296
J1020-4751	M01	MONOPITCH	8	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:26 2020 Page 1
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Scale = 1:21.4

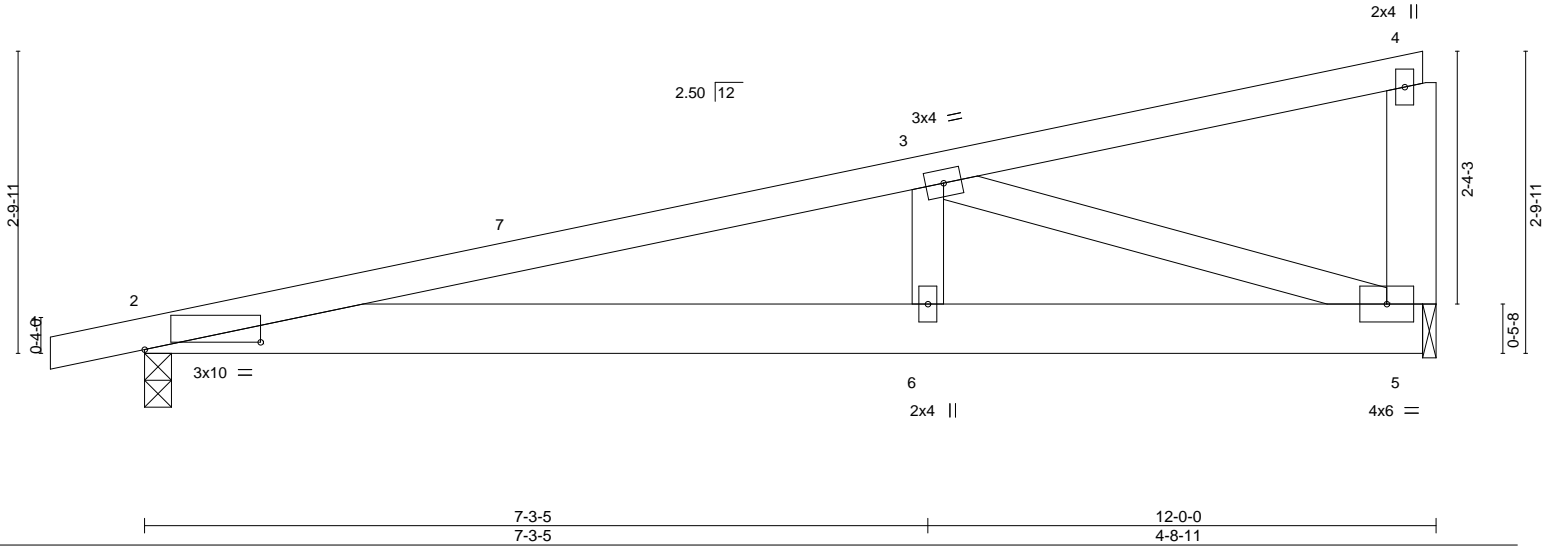


Plate Offsets (X,Y)-- [2:1-0-15,0-0-13]

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 0.39	Vert(LL)	-0.04	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.09	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06	2-6	>999	240	Weight: 60 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-11 oc bracing.

REACTIONS.

(size) 2=0-3-0, 5=0-1-8
Max Horz 2=76(LC 8)
Max Uplift 2=156(LC 8), 5=138(LC 8)
Max Grav 2=528(LC 1), 5=463(LC 1)

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

TOP CHORD 2-3=-1094/659
BOT CHORD 2-6=-718/1030, 5-6=-718/1030
WEBS 3-6=-137/272, 3-5=-1056/733

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-9-4 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
- 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 2 and 138 lb uplift at joint 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967297
J1020-4751	M01SG	GABLE	1	1		

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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:27 2020 Page 1
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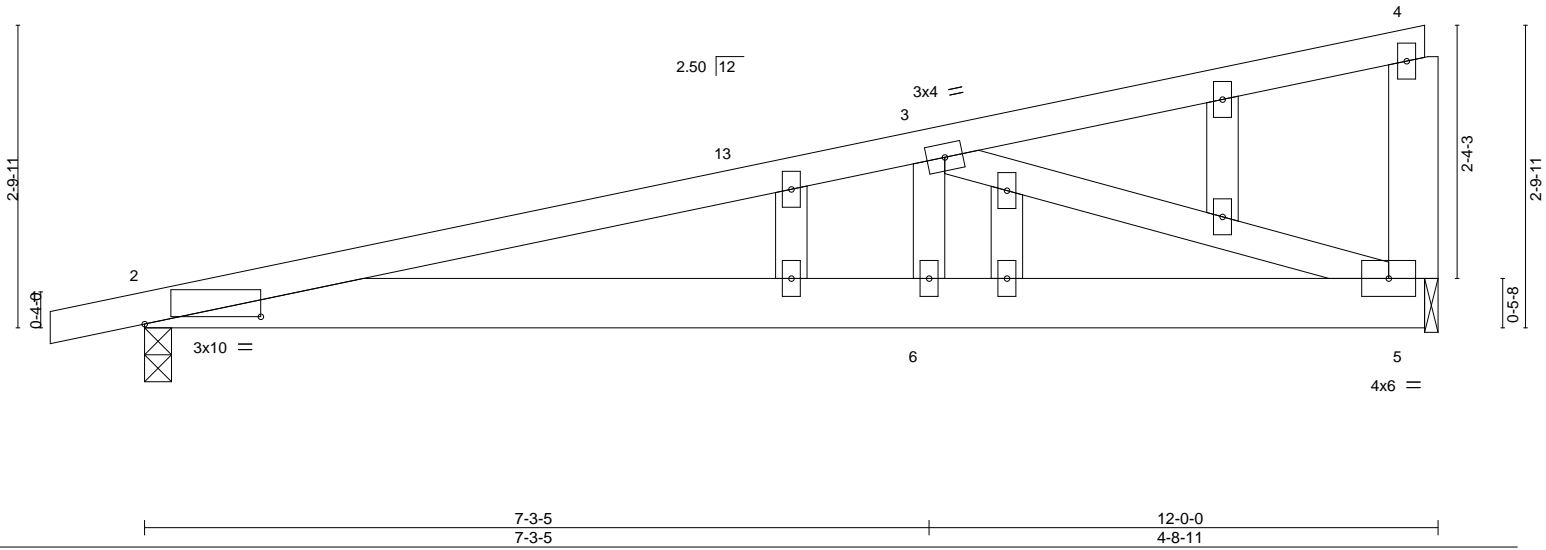


Plate Offsets (X,Y)-- [2:1-0-15,0-0-13]

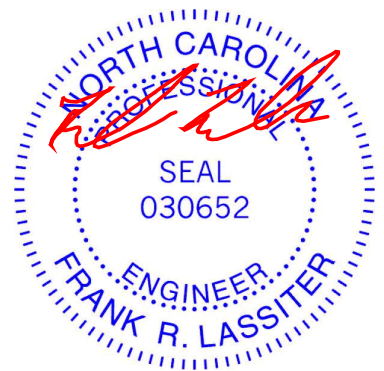
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	0.07	2-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.09	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.
WEBS 2x4 SP No.2 *Except*	
4-5: 2x6 SP No.1	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-0, 5=0-1-8
 Max Horz 2=108(LC 8)
 Max Uplift 2=-236(LC 8), 5=-211(LC 8)
 Max Grav 2=528(LC 1), 5=463(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1094/808
 BOT CHORD 2-6=-891/1030, 5-6=-891/1030
 WEBS 3-6=-134/272, 3-5=-1056/903

- NOTES-**
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; End Jack Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-9-4 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 2 and 211 lb uplift at joint 5.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967298
J1020-4751	PB01	PIGGYBACK	8	1		

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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:31 2020 Page 1
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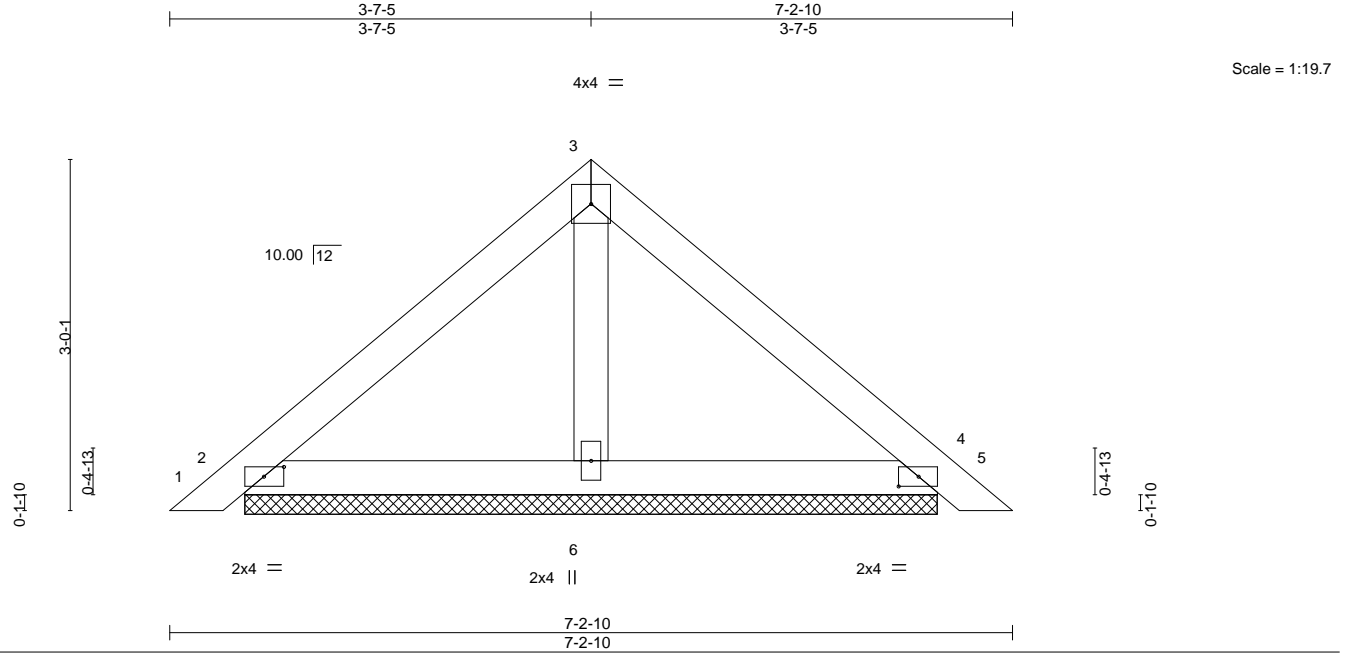


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 26 lb	FT = 20%

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) 2=5-11-3, 4=5-11-3, 6=5-11-3
 Max Horz 2=58(LC 11)
 Max Uplift 2=-17(LC 12), 4=-23(LC 13)
 Max Grav 2=164(LC 1), 4=164(LC 1), 6=196(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2 and 23 lb uplift at joint 4.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2018 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.



October 12, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 47 South Creek	E14967299
J1020-4751	PB01GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Oct 12 12:36:32 2020 Page 1
 ID:wAaOiCu?enbzDlvzeiq6d3zFzeT-T39z9281TN39T6cWzXgAJKVjxDBqmj1K0t_3mNyU9JT

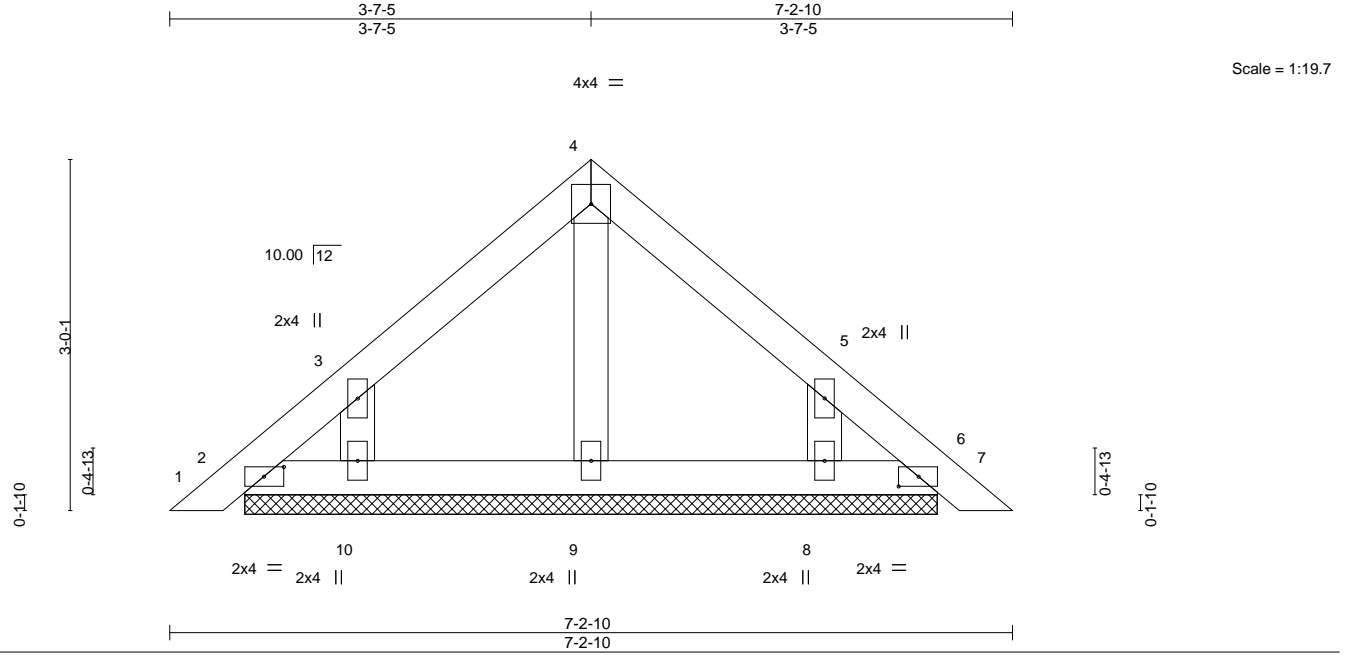


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [5:0-0-0,0-0-0], [6:0-2-1,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	-0.00	6	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00	6	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 28 lb	FT = 20%
	Code IRC2018/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. All bearings 5-11-3.
 (lb) - Max Horz 2=72(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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, 6, 10, 8.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2018 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.



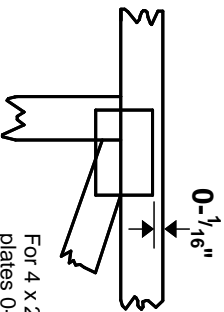
October 12, 2020

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- 1/16" from outside edge of truss.



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

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

PLATE SIZE

4 X 4

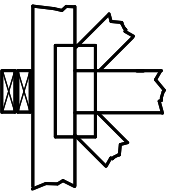
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



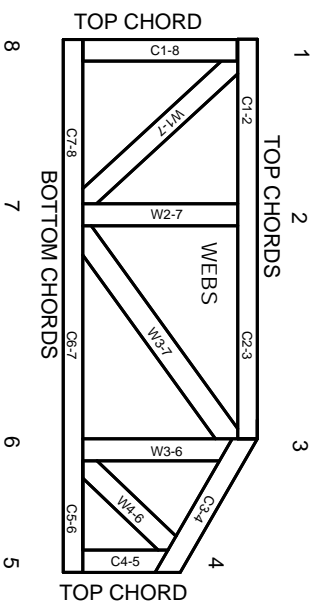
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate
BCSI: Connected Wood Trusses.

Numbering System

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



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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