

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0320-1282
Weaver/Lot 1 Fultz Farm/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E14217107 thru E14217130

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

North Carolina COA: C-0844



March 23,2020

Gilbert, Eric

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

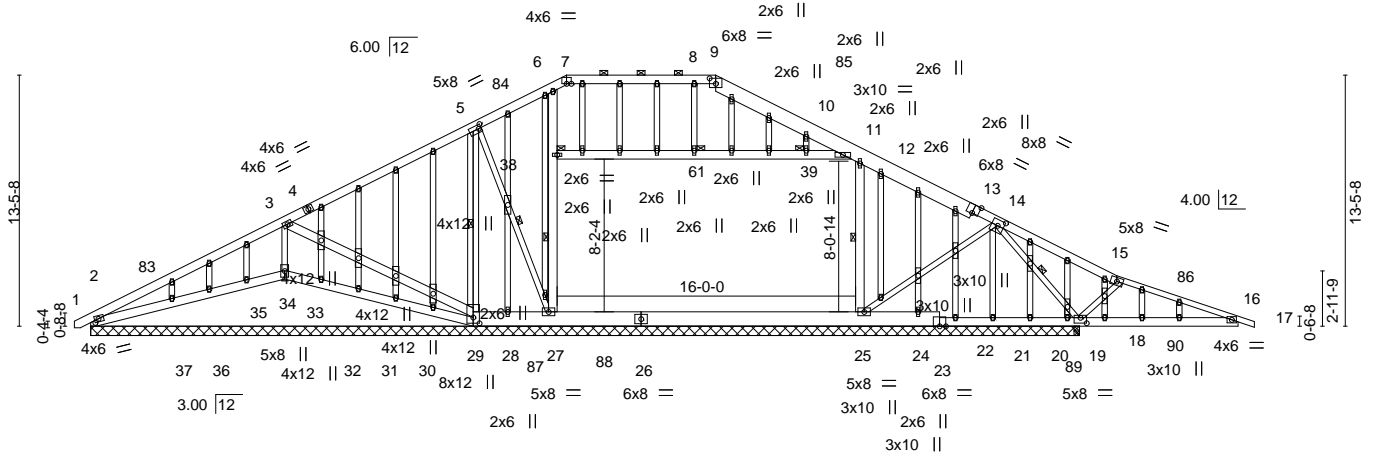
Job J0320-1282	Truss A1GE	Truss Type GABLE	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217107
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:49 2020 Page 1
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-9YnRiEdLwMnaB5OKwPk3B4S3uxNzCFBAkQ?3nzY0ua

-0-10-8 0-10-8	39-4-7 38-5-15	49-4-0 9-11-9	55-10-8 6-6-8	62-4-8 6-6-0	63-3-0 0-10-8
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Scale = 1:123.5



-0-10-8 0-10-8	21-4-8 20-6-0	53-8-12 32-4-4	62-4-8 8-7-12	63-3-0 0-10-8
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Plate Offsets (X,Y)-- [2:0-2-9,0-2-0], [5:0-1-12,0-2-8], [9:0-4-0,0-3-8], [13:0-4-0,Edge], [14:0-4-0,0-3-12], [18:0-4-0,0-3-8], [29:0-3-12,0-4-0]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(LL) -0.10 25-27 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Vert(CT) -0.14 25-27 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.01 18 n/a n/a		
			Wind(LL) 0.01 2-37 >999 240		
				Weight: 706 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 5-9-10 oc purlins, except
9-13: 2x10 SP No.1, 15-17: 2x4 SP No.1	2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
26-29: 2x10 SP No.1, 23-26: 2x10 SP 2400F 2.0E	WEBS 1 Row at midpt 27-38, 12-25, 5-29, 5-27, 14-18
WEBS 2x4 SP No.2 *Except*	JOINTS 1 Brace at Jt(s): 38, 39, 61
3-29,6-27,12-25,11-38: 2x6 SP No.1	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 53-0-0.
(lb) - Max Horz 2=266(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 37, 36 except 2=154(LC 13),
34=-428(LC 12), 29=-178(LC 12), 25=-262(LC 13), 18=-929(LC 9), 28=-668(LC 18), 24=-659(LC 18), 19=-616(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 37, 36, 35, 33, 32, 31, 30, 21, 20
except 2=353(LC 1), 34=1230(LC 1), 29=326(LC 26), 27=1155(LC 18), 25=1292(LC 21), 18=2306(LC 25), 18=2304(LC 1), 22=310(LC 18), 19=329(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-472/267, 3-5=-900/613, 5-6=-827/784, 6-7=-744/729, 9-10=-825/716,
10-11=-922/681, 11-12=-895/658, 12-14=-802/393, 14-15=-1002/1155, 15-16=-964/910,
7-8=-694/747, 8-9=-694/747
BOT CHORD 2-37=-100/363, 36-37=-68/327, 35-36=-82/346, 34-35=-78/339, 33-34=-80/341,
32-33=-80/343, 31-32=-80/343, 30-31=-80/343, 29-30=-80/342, 28-29=-55/677,
27-28=-52/678, 25-27=-31/661, 24-25=-45/372, 22-24=-57/372, 21-22=-45/372,
20-21=-45/372, 19-20=-45/372, 18-19=-45/372, 16-18=-799/998
WEBS 3-29=-70/434, 14-25=-300/545, 3-34=-1052/623, 12-25=-658/601, 5-29=-433/306,
14-18=-1866/1204

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 25-6-1, Corner(3) 25-6-1 to 29-10-14, Exterior(2) 29-10-14 to 33-6-0, Corner(3) 33-6-0 to 37-10-13, Exterior(2) 37-10-13 to 62-4-8 zone; cantilever 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.



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 1 Fultz Farm/Harnett	E14217107
J0320-1282	A1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:50 2020 Page 2
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-dlKpvaer6DUeBLgbdwzcOcdolGcievLPO9YbEzY0uZ

NOTES-

- 4) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 36 except (jt=lb) 2=154, 34=428, 29=178, 25=262, 18=929, 28=668, 24=659, 19=616.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

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818 Soundside Road
Edenton, NC 27932

Job J0320-1282	Truss A2	Truss Type ROOF TRUSS	Qty 5	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217108
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:51 2020 Page 1

ID:Sdzs0uuuUIT3B?9ODOR?ZKyk2HC-5xuB7wfTtXcVpVFnrLRC9c9jfiWARYOUe2v67gzY0uY

0-10-8	10-4-12	20-6-0	25-0-0	31-9-0	38-5-15	41-0-0	48-5-8	55-0-0	61-6-0	62-4-8
0-10-8	10-4-12	10-1-4	4-6-0	6-9-0	6-9-0	2-6-1	7-5-8	6-6-8	6-6-0	0-10-8

Scale = 1:117.1

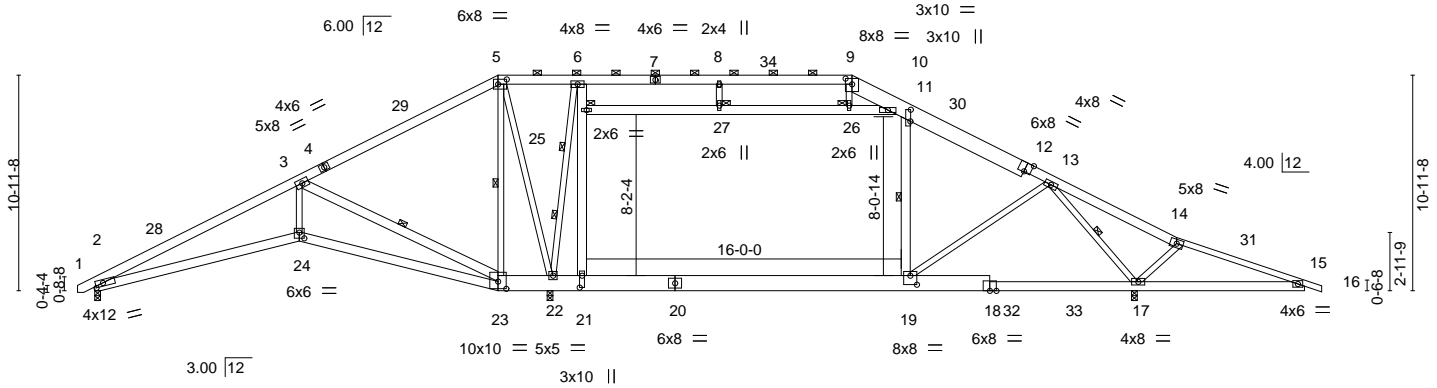


Plate Offsets (X,Y)--	[2:0-4-9,0-2-0], [5:0-5-4,0-3-0], [9:0-4-0,0-3-8], [11:0-7-2,0-0-4], [12:0-4-0,Edge], [19:0-4-0,0-5-8], [21:0-7-4,0-1-8], [23:0-5-0,0-4-7], [24:0-3-0,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.40	19-21	>897	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.69	19-21	>522		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.28	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	2-24	>999		
								Weight: 537 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins, except
9-12: 2x10 SP No.1, 14-16: 2x4 SP No.1	2-0-0 oc purlins (4-3-8 max.): 5-9.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
20-23,18-20: 2x10 SP 2400F 2.0E	WEBS 1 Row at midpt 3-23, 11-19, 5-23, 13-17
WEBS 2x4 SP No.2 *Except*	2 Rows at 1/3 pts 6-22
3-23,6-21,11-19,10-25: 2x6 SP No.1, 6-22: 2x4 SP No.1	JOINTS 1 Brace at Jt(s): 25, 26, 27

REACTIONS. (size) 2=0-3-8, 22=0-3-8, 17=0-3-8 (req. 0-3-9)
 Max Horz 2=-141(LC 10)
 Max Grav 2=1522(LC 2), 22=1856(LC 26), 17=2995(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4764/135, 3-5=-1854/71, 9-10=-2219/74, 10-11=-2250/25, 11-13=-2554/0, 13-14=-862/1146, 14-15=-853/902, 5-6=-1794/53, 6-8=-2140/34, 8-9=-2145/33
 BOT CHORD 2-24=0/4285, 23-24=0/4276, 22-23=0/1585, 21-22=0/2141, 19-21=0/2174, 17-19=0/1461, 15-17=-792/858
 WEBS 3-23=-3000/310, 6-22=-2620/0, 21-25=0/2118, 6-25=0/2195, 13-19=-93/1100, 3-24=0/2269, 11-19=-259/554, 9-26=0/349, 5-23=-412/213, 5-22=0/1139, 13-17=-3312/507

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-0, Exterior(2) 20-6-0 to 24-7-8, Interior(1) 24-7-8 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf 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.
 - 7) Ceiling dead load (10.0 psf) on member(s). 10-11, 25-27, 26-27, 10-26; Wall dead load (5.0psf) on member(s).21-25, 11-19
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
 - 9) WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
 - 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



March 23, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 1 Fultz Farm/Harnett	E14217108
J0320-1282	A2	ROOF TRUSS	5	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:51 2020 Page 2
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NOTES-

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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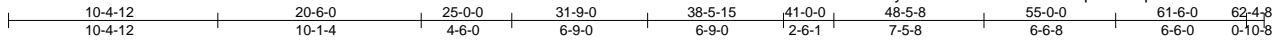
818 Soundside Road
 Edenton, NC 27932

Job J0320-1282	Truss A2A	Truss Type ROOF TRUSS	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217109
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:52 2020 Page 1

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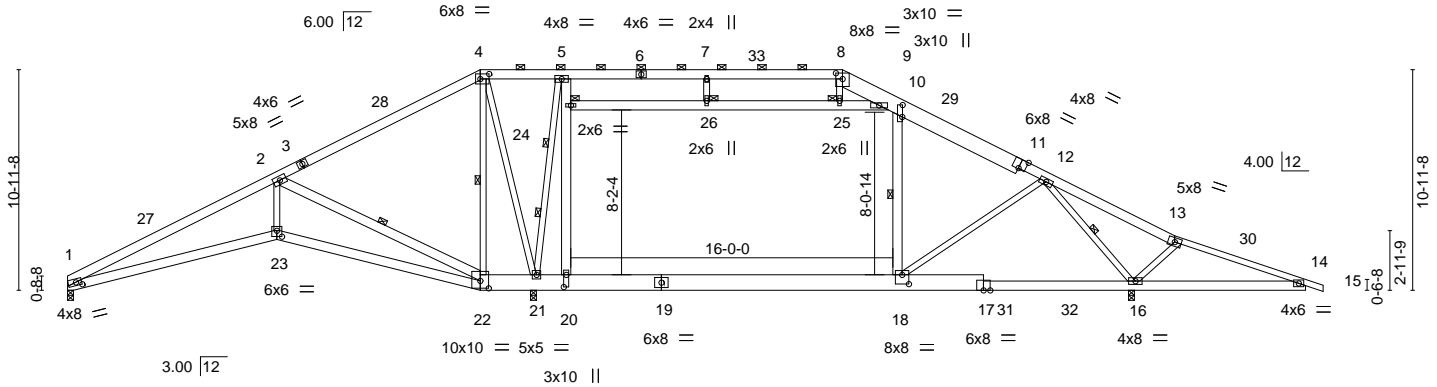


Plate Offsets (X,Y)--	[1:0-3-7,0-2-0], [4:0-5-4,0-3-0], [8:0-4-0,0-3-8], [10:0-7-2,0-0-4], [11:0-4-0,Edge], [18:0-4-0,0-5-8], [20:0-7-4,0-1-8], [22:0-5-0,0-4-7], [23:0-3-0,0-3-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.40	18-20	>897	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.69	18-20	>522	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.28	16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11	23	>999	240		
							Weight: 535 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied, except
8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1	2-0-0 oc purlins (4-3-8 max.): 4-8.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
19-22,17-19: 2x10 SP 2400F 2.0E	WEBS 1 Row at midpt 2-22, 10-18, 4-22, 12-16
WEBS 2x4 SP No.2 *Except*	2 Rows at 1/3 pts 5-21
2-22,5-20,10-18,9-24: 2x6 SP No.1, 5-21: 2x4 SP No.1	JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS. (size) 1=0-3-8, 21=0-3-8, 16=0-3-8 (req. 0-3-9)
 Max Horz 1=-142(LC 10)
 Max Grav 1=1478(LC 2), 21=1858(LC 26), 16=2995(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4768/154, 2-4=-1854/71, 8-9=-2218/73, 9-10=-2249/23, 10-12=-2554/0,
 12-13=-862/1146, 13-14=-853/902, 4-5=-1793/51, 5-7=-2140/32, 7-8=-2144/31
 BOT CHORD 1-23=-9/4290, 22-23=-7/4281, 21-22=0/1585, 20-21=0/2141, 18-20=0/2173,
 16-18=0/1461, 14-16=-792/858
 WEBS 2-22=-3007/337, 5-21=-2621/0, 20-24=0/2118, 5-24=0/2195, 12-18=-93/1100,
 2-23=0/2270, 10-18=-259/554, 8-25=0/349, 4-22=-412/213, 4-21=0/1139,
 12-16=-3312/507

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-0, Exterior(2) 20-6-0 to 24-7-8, Interior(1) 24-7-8 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf 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.
 - 7) Ceiling dead load (10.0 psf) on member(s). 9-10, 24-26, 25-26, 9-25; Wall dead load (5.0psf) on member(s).20-24, 10-18
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20
 - 9) WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
 - 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



March 23,2020

Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 1 Fultz Farm/Harnett	E14217109
J0320-1282	A2A	ROOF TRUSS	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:52 2020 Page 2
ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-Z7SZKGf6erkLRfqz?2zRhpA6sTAPbdtieff6zY0uX

NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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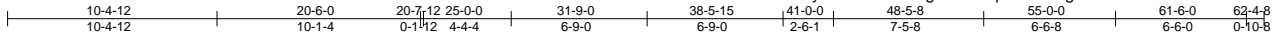
818 Soundside Road
Edenton, NC 27932

Job J0320-1282	Truss A3	Truss Type ROOF TRUSS	Qty 3	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217110
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:53 2020 Page 1

ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-2K0xYcgk08sC2pOAZmUgE1E4?VGUvbn5MODCZzY0uW



Scale = 1:114.4

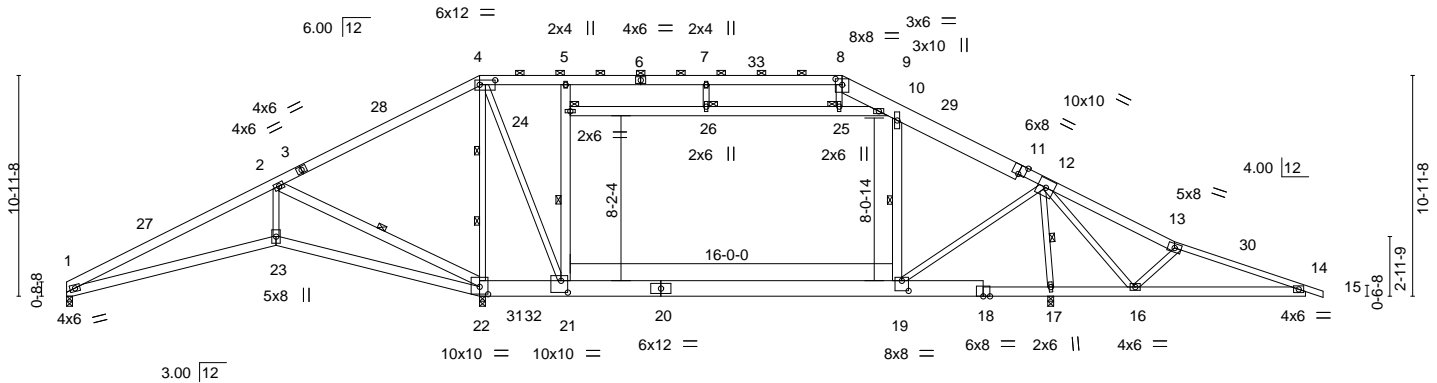


Plate Offsets (X,Y)-- [4:0-9-4,0-2-12], [8:0-4-0,0-3-8], [11:0-4-0,Edge], [19:0-4-0,0-6-0], [21:0-4-0,0-7-0], [22:0-5-0,0-4-7]

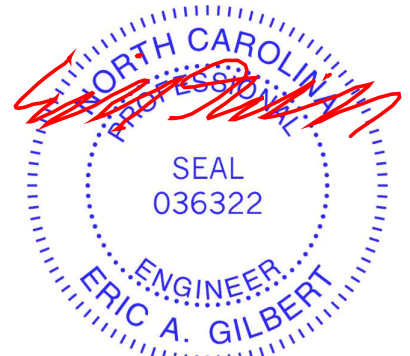
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL)	-0.32	19-21	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.50	19-21	>687		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.13	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06	1-23	>999		
								Weight: 528 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except
8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1	2-0-0 oc purlins (5-9-15 max.): 4-8.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
20-22,18-20: 2x10 SP 2400F 2.0E, 14-18: 2x6 SP 2400F 2.0E	WEBS 1 Row at midpt 2-22, 21-24, 10-19, 12-17
WEBS 2x4 SP No.2 *Except*	2 Rows at 1/3 pts 4-22
2-22,5-21,10-19,9-24: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 24, 25, 26

REACTIONS. (size) 1=0-3-8, 22=0-3-8, 17=0-3-8
 Max Horz 1=-142(LC 10)
 Max Grav 1=875(LC 24), 22=2457(LC 2), 17=3015(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2249/0, 2-4=-510/93, 8-9=-1369/11, 9-10=-1336/0, 10-12=-1415/0,
 12-13=-840/1215, 13-14=-832/976, 4-5=-1200/0, 5-7=-1221/0, 7-8=-1226/0
 BOT CHORD 1-23=-20/1994, 22-23=-19/1986, 21-22=-26/642, 19-21=0/1221, 17-19=-1226/1170,
 16-17=-1293/1186, 14-16=-861/840
 WEBS 2-22=-1992/248, 21-24=-944/229, 5-24=-715/241, 12-19=-462/2640, 2-23=0/1165,
 10-19=-907/518, 8-25=0/350, 12-16=-441/446, 4-22=-2328/44, 4-21=0/2414,
 12-17=-3101/791

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-0, Exterior(2) 20-6-0 to 24-9-4 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf 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.
 - 7) Ceiling dead load (10.0 psf) on member(s). 9-10, 24-26, 25-26, 9-25; Wall dead load (5.0psf) on member(s).21-24, 10-19
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
 - 9) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 23, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 1 Fultz Farm/Harnett	E14217110
J0320-1282	A3	ROOF TRUSS	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:53 2020 Page 2
 ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-2K0xYcgkO8sC2pOAZmUgE1E4?VGUvbn5MODCZzY0uW

NOTES-

11) Attic room checked for L/360 deflection.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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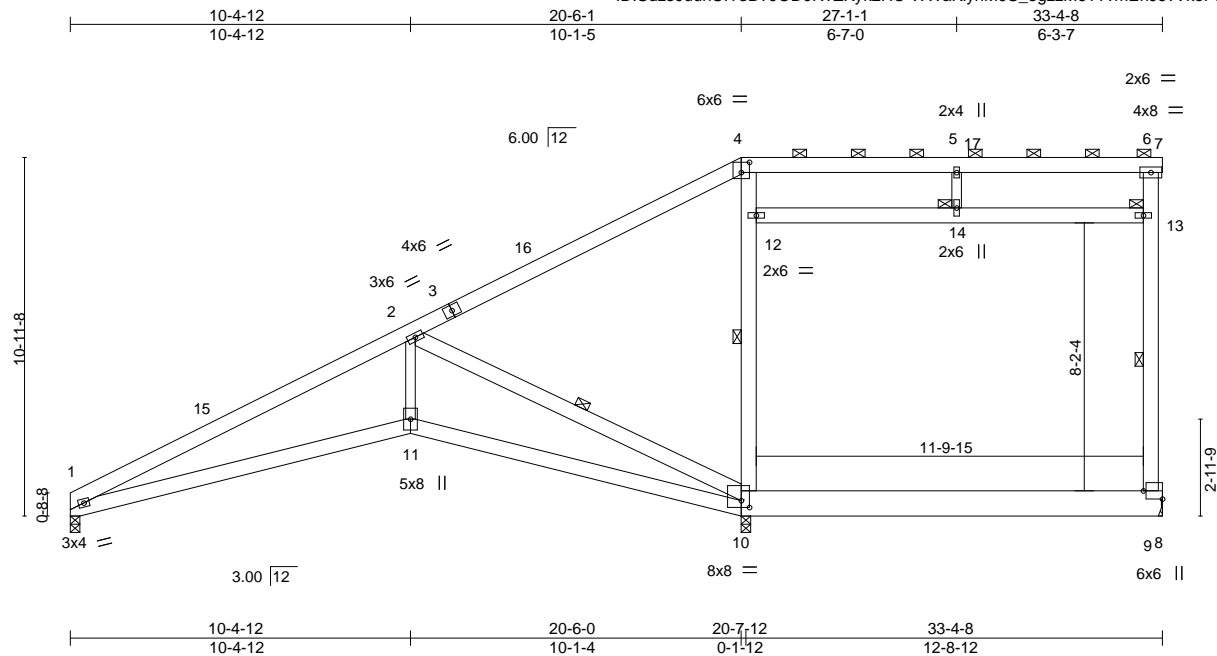
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Job J0320-1282	Truss A4	Truss Type ROOF TRUSS	Qty 3	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217111
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:54 2020 Page 1

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Scale = 1:70.4

Plate Offsets (X,Y)--	[4:0-3-0,0-3-12], [9:Edge,0-7-0], [10:0-3-0,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.24	9-10	>629	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.35	9-10	>436	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.11	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.08	1-11	>999	240		
									Weight: 289 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD 2x6 SP No.1 *Except* 8-10: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-11,5-14: 2x4 SP No.2	WEBS 1 Row at midpt 9-13, 2-10, 10-12
	JOINTS 1 Brace at Jt(s): 6, 13, 14

REACTIONS. (size) 9=Mechanical, 1=0-3-8, 10=0-3-8
 Max Horz 1=343(LC 12)
 Max Grav 9=1093(LC 2), 1=809(LC 1), 10=1861(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1961/301, 2-4=-333/203, 9-13=-523/107, 6-13=-371/100
 BOT CHORD 1-11=-935/1730, 10-11=-933/1720
 WEBS 2-11=-328/1031, 2-10=-1810/826, 10-12=-836/436, 4-12=-589/425

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 20.0psf 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) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s). 10-12
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Attic room checked for L/360 deflection.

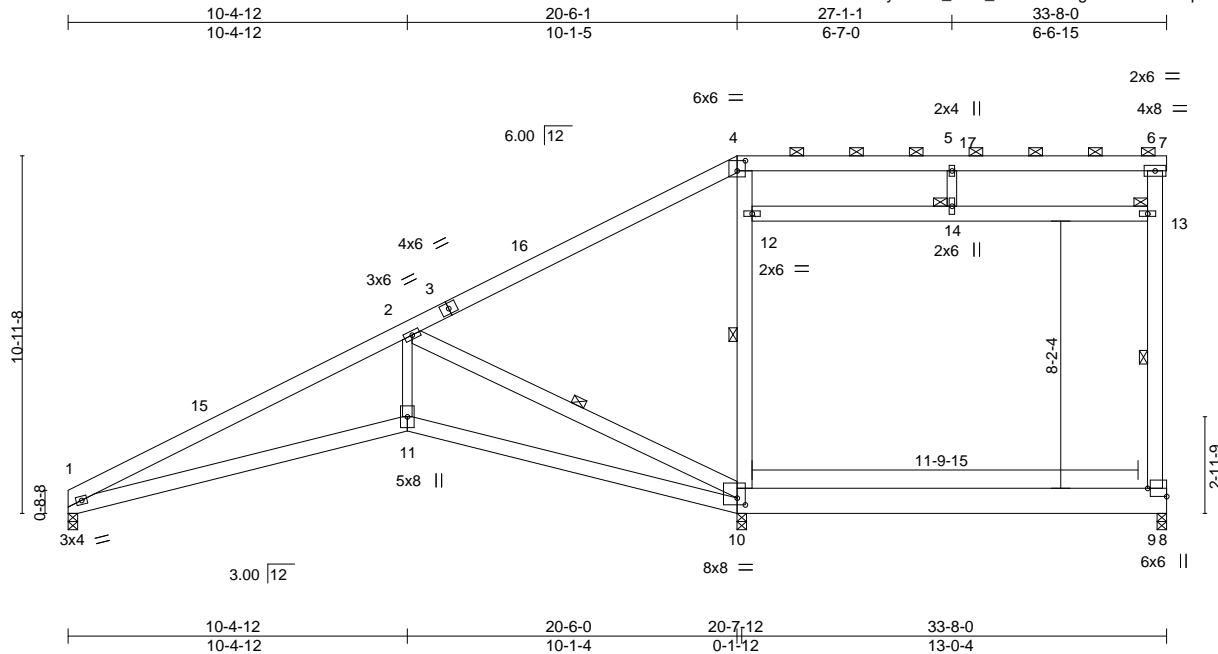


March 23, 2020

Job J0320-1282	Truss A4A	Truss Type ROOF TRUSS	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217112
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:55 2020 Page 1
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Scale = 1:70.6

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

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.26	9-10	>589	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.38	9-10	>407		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.11	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.08	1-11	>999		
								Weight: 292 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 8-10: 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 2-11,5-14: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 9-13, 2-10, 10-12
 JOINTS 1 Brace at Jt(s): 6, 13, 14

REACTIONS.

(size) 9=0-3-8, 1=0-3-8, 10=0-3-8
 Max Horz 1=343(LC 12)
 Max Grav 9=1120(LC 2), 1=811(LC 1), 10=1883(LC 2)

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

TOP CHORD 1-2=-1965/303, 2-4=-332/200, 9-13=-536/110, 6-13=-382/106
 BOT CHORD 1-11=-936/1733, 10-11=-935/1723
 WEBS 2-11=-329/1032, 2-10=-1808/827, 10-12=-846/437, 4-12=-594/425

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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 20.0psf 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) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s).10-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
- 7) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Attic room checked for L/360 deflection.



March 23, 2020

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Job J0320-1282	Truss A5	Truss Type ROOF TRUSS	Qty 4	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217113
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:56 2020 Page 1
ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-Svi4Aeich3EnvG7kEu1NsfscbjGD6K7DnKctptzY0uT

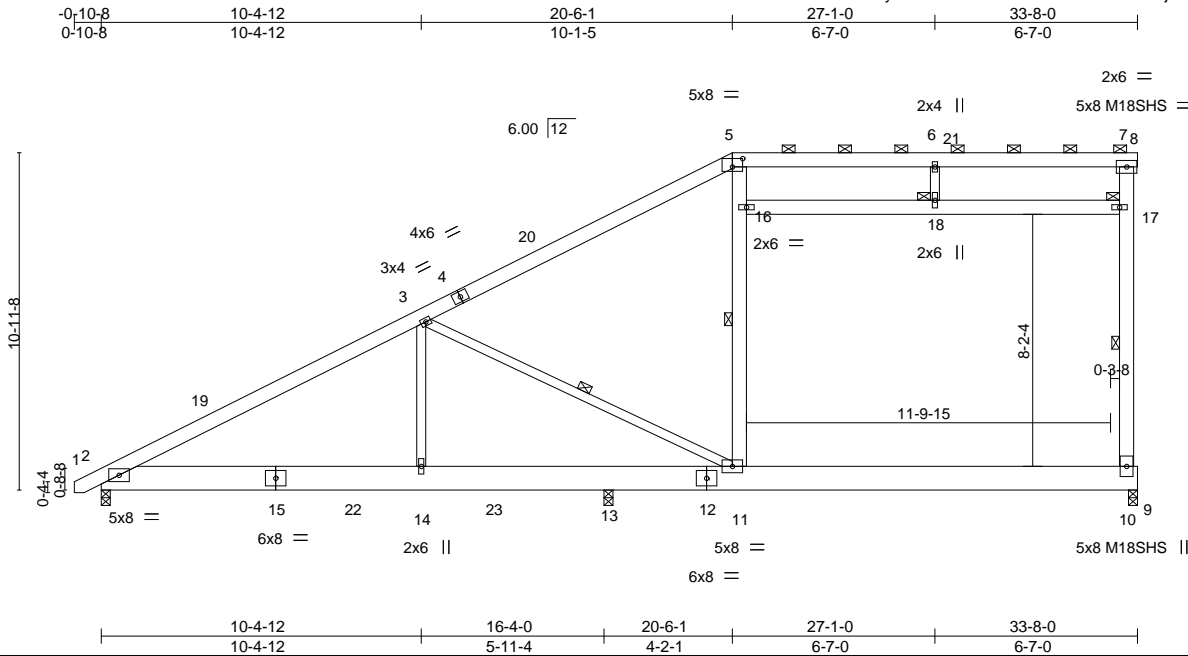


Plate Offsets (X,Y)-- [5:0-4-0,0-3-4]

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 0.63	Vert(LL)	-0.28	10-11	>726	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.51	10-11	>395	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	-0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	10-11	>999		
								Weight: 318 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP 2400F 2.0E *Except*
 2-15: 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-14,3-11,6-18: 2x4 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.): 5-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 10-17, 3-11, 11-16
 JOINTS 1 Brace at Jt(s): 7, 17, 18

REACTIONS.

(size) 10=0-3-8, 2=0-3-8, 13=0-3-8
 Max Horz 2=345(LC 12)
 Max Uplift 2=-37(LC 12)
 Max Grav 10=1269(LC 2), 2=621(LC 1), 13=2097(LC 2)

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

TOP CHORD 2-3=-417/220, 3-5=-308/138, 10-17=-559/113, 7-17=-413/111
 BOT CHORD 2-14=-422/308, 13-14=-422/308, 11-13=-422/308
 WEBS 3-14=-631/188, 3-11=-157/312, 11-16=-779/421, 5-16=-534/411

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18; Wall dead load (5.0psf) on member(s). 11-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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.



March 23, 2020

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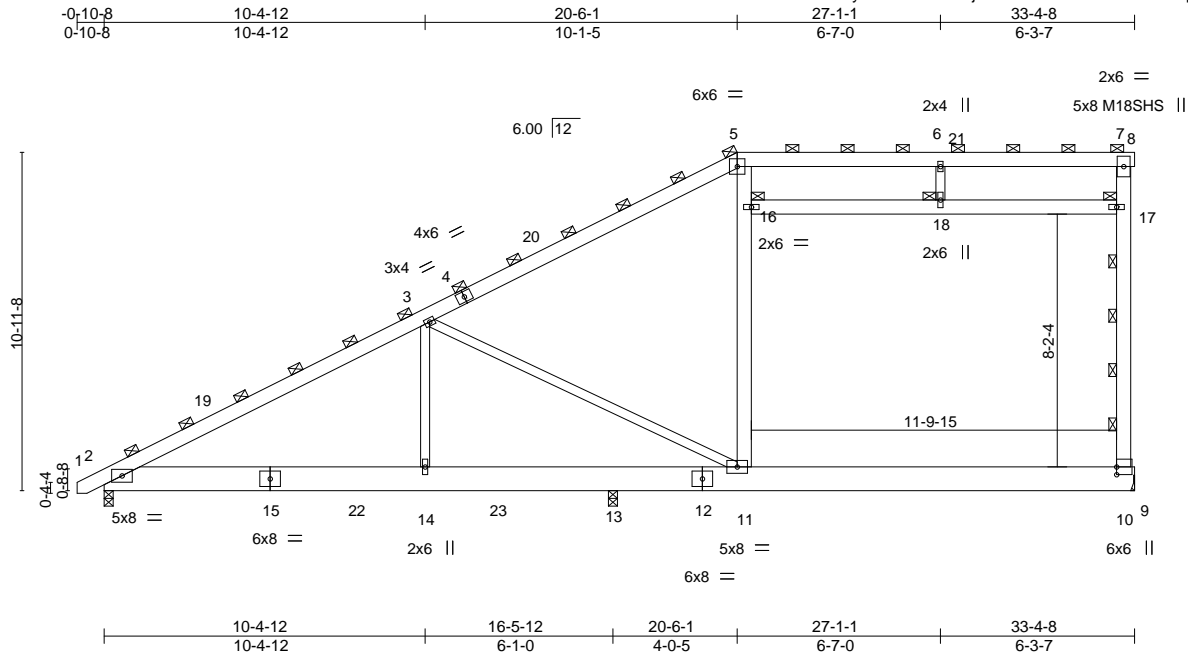
818 Soundside Road
 Edenton, NC 27932

Job J0320-1282	Truss A6	Truss Type ROOF TRUSS	Qty 2	Ply 2	Weaver/Lot 1 Fultz Farm/Harnett	E14217114
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:57 2020 Page 1

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-w5F50zjESNNeXQixobYcOtPoJ7d1rpqN0_MQLKzY0uS



Scale = 1:74.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.23	10-11	>864	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.42	10-11	>470	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.43	Horz(CT) -0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	10-11	>999	240		
							Weight: 631 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP 2400F 2.0E *Except*
 2-15: 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-14,3-11,6-18: 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
 (Switched from sheeted: Spacing > 2-8-0).
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 5, 7, 16, 17, 18

REACTIONS.

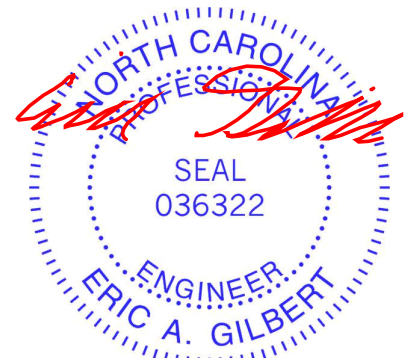
(size) 10=Mechanical, 2=0-3-8, 13=0-3-8
 Max Horz 2=603(LC 12)
 Max Uplift 2=-62(LC 12)
 Max Grav 10=2185(LC 2), 2=1093(LC 1), 13=3607(LC 2)

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

TOP CHORD 2-3=-753/340, 3-5=-540/247, 5-6=-349/23, 6-7=-348/23, 10-17=-956/193,
 7-17=-706/184
 BOT CHORD 2-14=-735/559, 13-14=-735/559, 11-13=-735/559, 10-11=-279/346
 WEBS 3-14=-1060/333, 3-11=-308/537, 11-16=-1346/735, 5-16=-927/719, 16-18=-209/281,
 17-18=-209/281, 6-18=-69/267

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: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18; Wall dead load (5.0psf) on member(s). 11-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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.



March 23, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

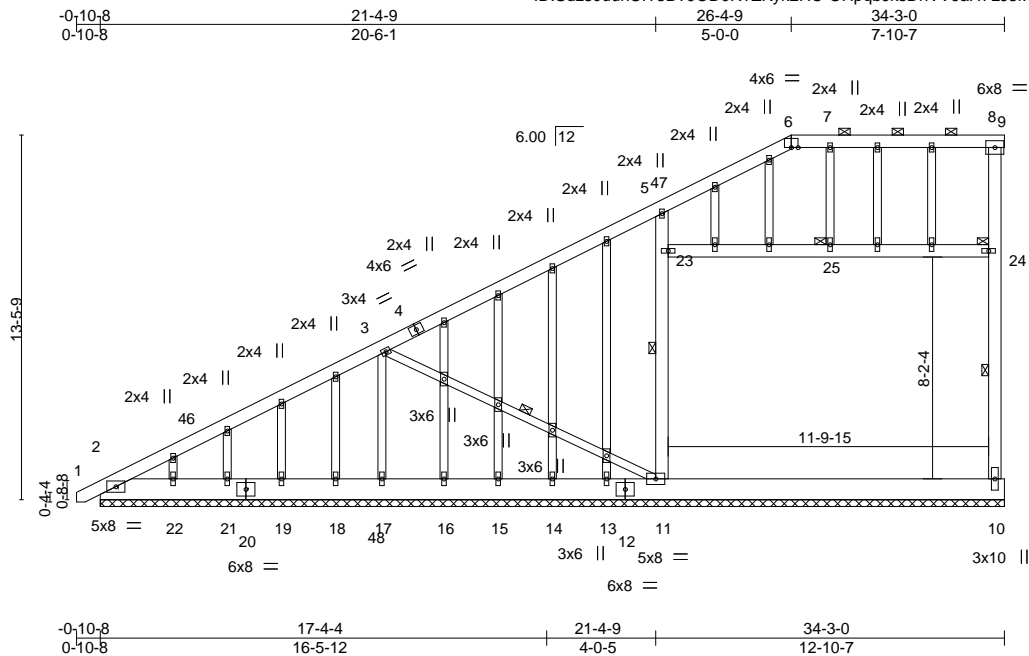


818 Soundside Road
 Edenton, NC 27932

Job J0320-1282	Truss A7GE	Truss Type GABLE	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217115
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:58 2020 Page 1
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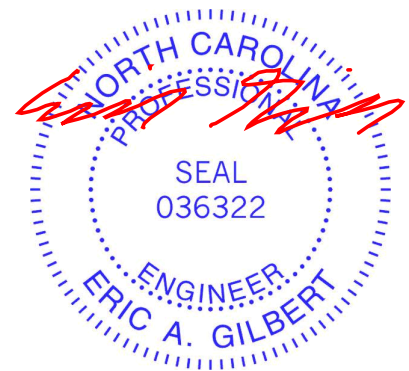
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Vert(CT) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.13 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 402 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS 2x6 SP No.1 *Except* 3-17,3-11,7-25: 2x4 SP No.2	WEBS 1 Row at midpt 10-24, 3-11, 11-23
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 24, 25

REACTIONS. All bearings 33-4-8.
 (lb) - Max Horz 2=613(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 21 except 9=452(LC 1), 10=214(LC 9), 17=291(LC 12), 11=184(LC 12), 22=219(LC 12), 13=712(LC 18)
 Max Grav All reactions 250 lb or less at joint(s) 9, 2, 14, 15, 16, 18, 19, 21 except 10=1059(LC 2), 17=561(LC 1), 11=1723(LC 2), 22=396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-681/327, 3-5=-648/361, 5-6=-308/33, 10-24=-933/545, 8-24=-819/535
 BOT CHORD 2-22=-419/281, 21-22=-419/281, 19-21=-419/281, 18-19=-419/281, 17-18=-419/281, 16-17=-419/281, 15-16=-419/281, 14-15=-419/281, 13-14=-419/281, 11-13=-419/281
 WEBS 3-17=-519/342, 3-11=-134/268, 11-23=-920/760, 5-23=-727/751, 23-25=-270/273, 24-25=-270/273

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 25-6-1, Corner(3) 25-6-1 to 29-10-14, Exterior(2) 29-10-14 to 33-4-8 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.
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 23-25, 24-25; Wall dead load (5.0psf) on member(s).11-23
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 21 except (jt=lb) 9=452, 10=214, 17=291, 11=184, 22=219, 13=712.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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.



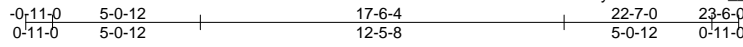
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J0320-1282	Truss B1	Truss Type PIGGYBACK ATTIC	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217116
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:34:59 2020 Page 1	
					ID: Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-sTNDoflV_dMmksJv0b4TIUAOwG3JjifUHRXPCzY0uQ	



6x8 =

Scale = 1:78.9

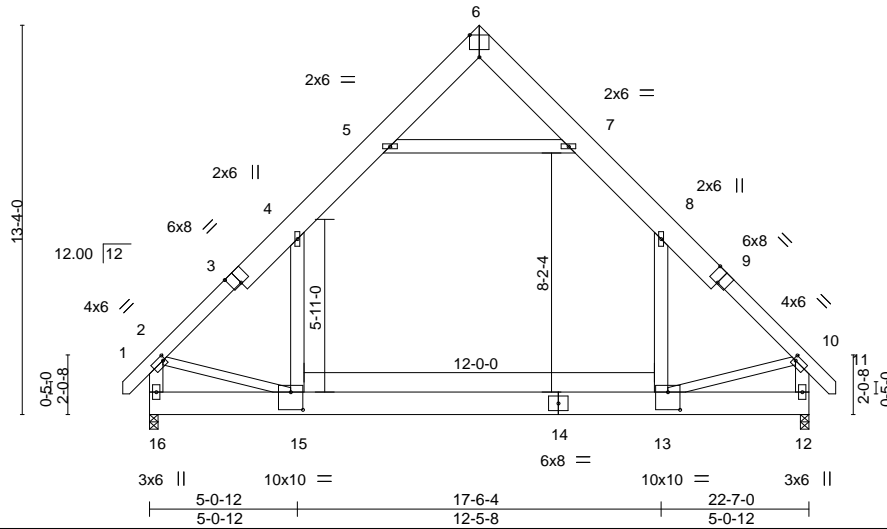


Plate Offsets (X,Y)-- [2:0-1-0,0-2-0], [3:0-4-0,Edge], [6:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-0,0-2-0], [13:0-5-0,0-7-4], [15:0-5-0,0-7-4]

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 0.40	Vert(LL)	-0.16	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.26	13-15	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05	13-15	>999		
								Weight: 268 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
1-3,9-11: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-15,10-13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

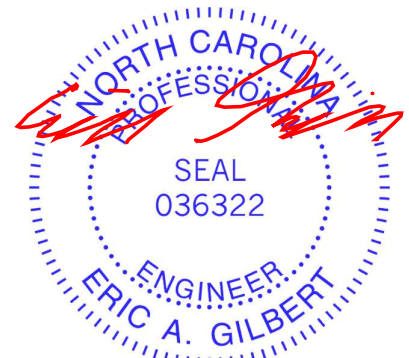
(size) 16=0-3-8, 12=0-3-8
Max Horz 16=-339(LC 10)
Max Grav 16=1534(LC 21), 12=1534(LC 20)

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

TOP CHORD 2-4=-1750/0, 4-5=-1096/188, 7-8=-1096/188, 8-10=-1749/0, 2-16=-1719/46,
10-12=-1720/46
BOT CHORD 15-16=-328/473, 13-15=0/1137
WEBS 4-15=0/828, 8-13=0/828, 5-7=-1268/253, 2-15=0/1031, 10-13=0/1036

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 11-4-0, Corner(3) 11-4-0 to 15-8-13, Exterior(2) 15-8-13 to 23-5-2 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Attic room checked for L/360 deflection.



March 23,2020

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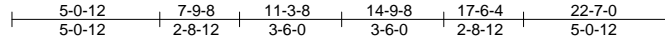
818 Soundside Road
Edenton, NC 27932

Job J0320-1282	Truss B2	Truss Type ATTIC	Qty 8	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217117
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:00 2020 Page 1

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6x8 =

Scale = 1:78.9

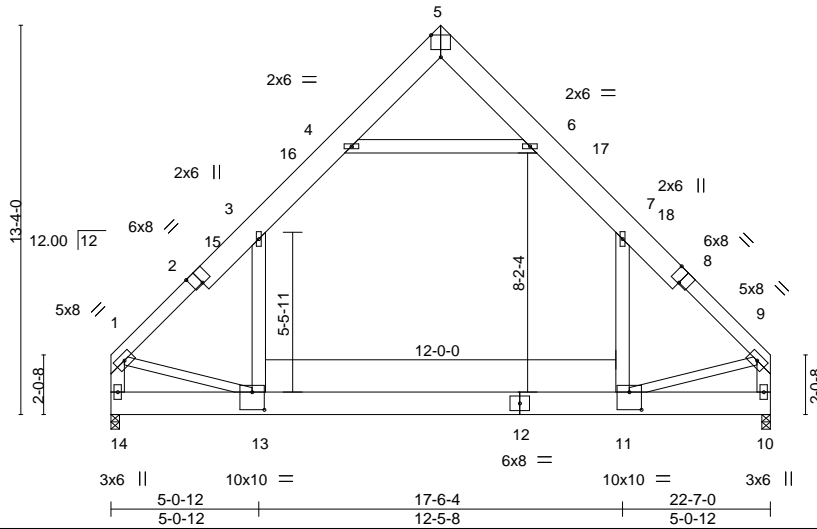


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [11:0-5-0,0-7-4], [13:0-5-0,0-7-4]

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 0.43	Vert(LL)	-0.16 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.26 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05 11-13	>999	240	Weight: 263 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
1-2,8-9: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
1-13,9-11: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

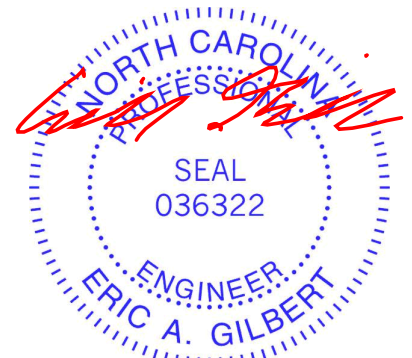
(size) 10=0-3-8, 14=0-3-8
Max Horz 14=-260(LC 8)
Max Grav 10=1493(LC 20), 14=1493(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1744/0, 3-4=-1099/150, 6-7=-1099/150, 7-9=-1743/0, 1-14=-1678/0, 9-10=-1679/0
BOT CHORD 13-14=-286/376, 11-13=0/1123
WEBS 4-6=-1292/180, 3-13=0/807, 7-11=0/807, 1-13=0/1078, 9-11=0/1081

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-4-12 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 20.0psf 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). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- Attic room checked for L/360 deflection.



March 23, 2020

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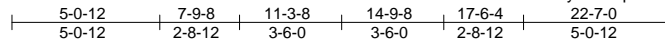


818 Soundside Road
Edenton, NC 27932

Job J0320-1282	Truss B3	Truss Type ATTIC	Qty 1	Ply 2	Weaver/Lot 1 Fultz Farm/Harnett	E14217118
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:01 2020 Page 1
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6x8 =

Scale = 1:78.9

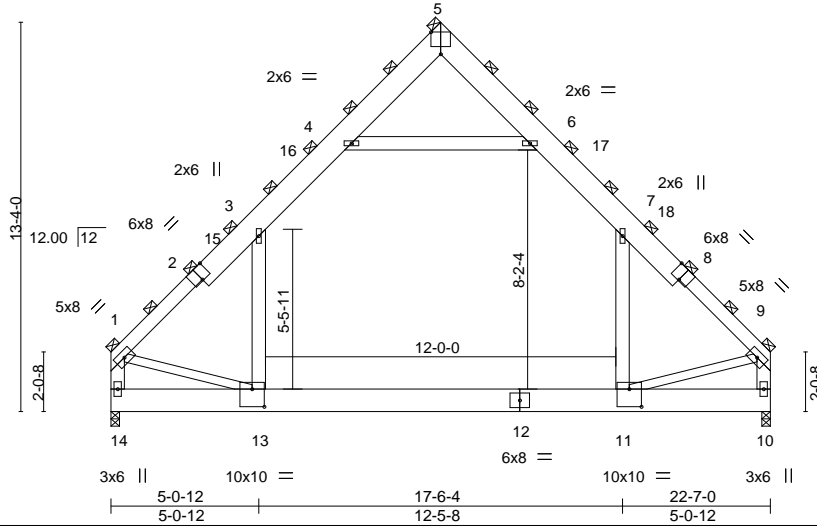


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [11:0-5-0,0-7-4], [13:0-5-0,0-7-4]

LOADING (psf)	SPACING-	4-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.16 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.26 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05 11-13	>999	240		
								Weight: 526 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
1-2,8-9: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
1-13,9-11: 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 10=0-3-8, 14=0-3-8
Max Horz 14=-520(LC 8)
Max Grav 10=2986(LC 20), 14=2986(LC 21)

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

TOP CHORD 1-3=-3487/0, 3-4=-2199/300, 4-5=-180/451, 5-6=-180/451, 6-7=-2199/300, 7-9=-3487/0,
1-14=-3357/0, 9-10=-3358/0
BOT CHORD 13-14=-573/751, 11-13=0/2247, 10-11=-102/329
WEBS 4-6=-2584/361, 3-13=0/1614, 7-11=0/1614, 1-13=0/2155, 9-11=0/2162

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.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc; 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-4-12 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 20.0psf 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). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 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.



March 23, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job J0320-1282	Truss G1	Truss Type QUEENPOST	Qty 7	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217119
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:02 2020 Page 1	
0-10-8 0-10-8					5-9-3 5-9-3	
11-0-0 5-2-13					16-2-13 5-2-13	
22-0-0 5-9-3					22-10-8 0-10-8	
Job Reference (optional)					ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-H23LRhNHV?xdBbua98n5w6ls8LjW786AF3B0XzY0uN	

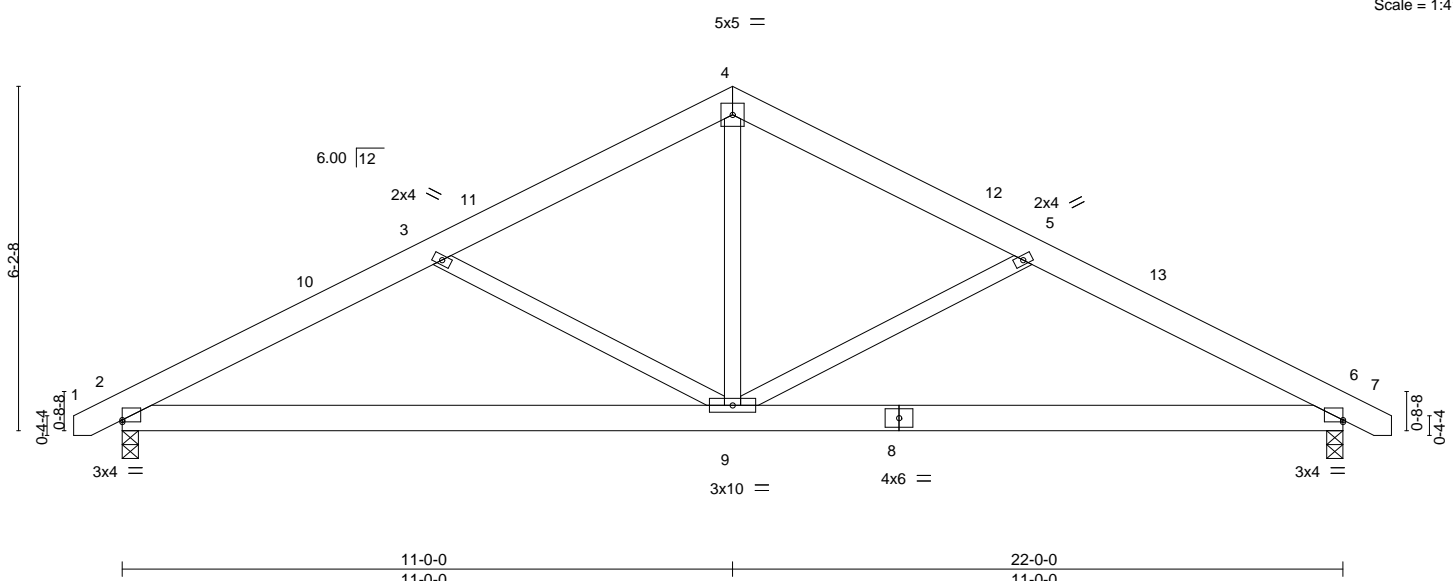
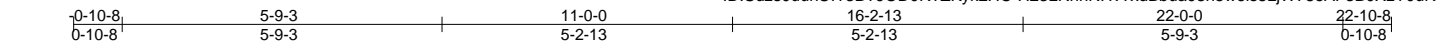


Plate Offsets (X,Y)--	[2:Edge,0-0-7], [6:0-0-0,0-0-7]
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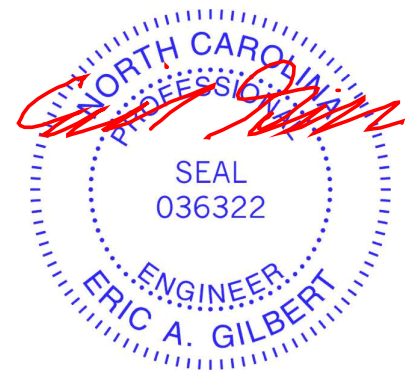
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL) -0.07	6-9	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(CT) -0.15	6-9	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.02	9	>999	240		
	Code IRC2015/TPI2014						Weight: 139 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	

REACTIONS. (size) 6=0-3-8, 2=0-3-8
 Max Horz 2=-76(LC 10)
 Max Uplift 6=-64(LC 13), 2=-64(LC 12)
 Max Grav 6=920(LC 1), 2=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1389/378, 3-4=-1062/288, 4-5=-1062/288, 5-6=-1389/378
 BOT CHORD 2-9=-252/1174, 6-9=-256/1174
 WEBS 3-9=-359/240, 4-9=-73/616, 5-9=-359/240

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-8-10 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 20.0psf 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) 6, 2.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Job J0320-1282	Truss G1GE	Truss Type HIP SUPPORTED GABLE	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217120
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:03 2020 Page 1	
					ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-IFdje1o?2D7oFL958sf0e8fyFXnFFdRFOvpkYzzY0uM	
Job Reference (optional)						

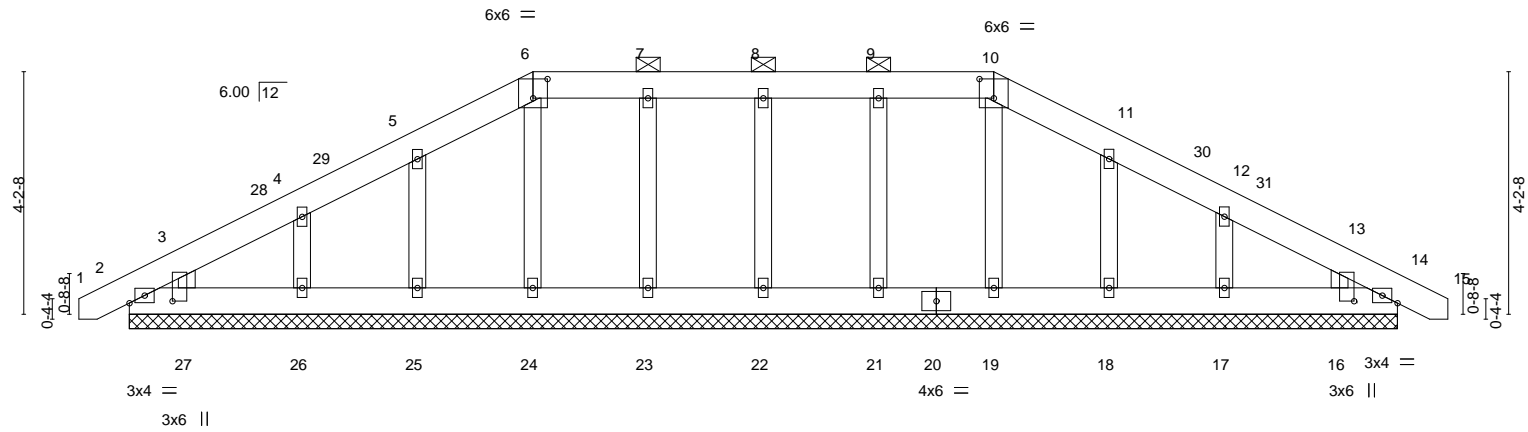
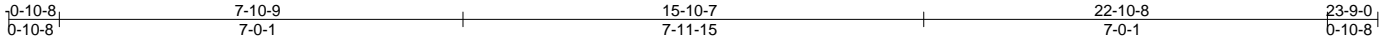


Plate Offsets (X,Y)--	[3:0-0-14,0-1-12], [6:0-3-0,0-4-0], [10:0-3-0,0-4-0], [13:0-0-14,0-1-12], [16:0-0-0,0-1-12], [16:0-0-7,0-9-1], [27:0-0-0,0-1-12], [27:0-0-7,0-8-15]
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LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	-0.00	14	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	14	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 148 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
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 6-10.
OTHERS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-0-0.
 (lb) - Max Horz 2=-78(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 26, 27, 18, 17, 16, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 19, 21, 22, 23, 24, 25, 26, 27, 18, 17, 16, 14

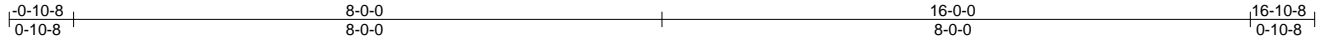
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 7-0-1, Corner(3) 7-0-1 to 11-4-13, Exterior(2) 11-4-13 to 14-11-15, Corner(3) 14-11-15 to 19-4-12, Exterior(2) 19-4-12 to 22-8-10 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.
 - Provide adequate drainage to prevent water ponding.
 - 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 20.0psf 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, 21, 22, 23, 24, 25, 26, 27, 18, 17, 16, 14.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 23, 2020

Job J0320-1282	Truss P1	Truss Type COMMON	Qty 4	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217121
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:04 2020 Page 1	
					ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-DRB6sNpdpXFftvkhiaAFALC3qx4w_26PdZYI5QzY0uL	
Job Reference (optional)						



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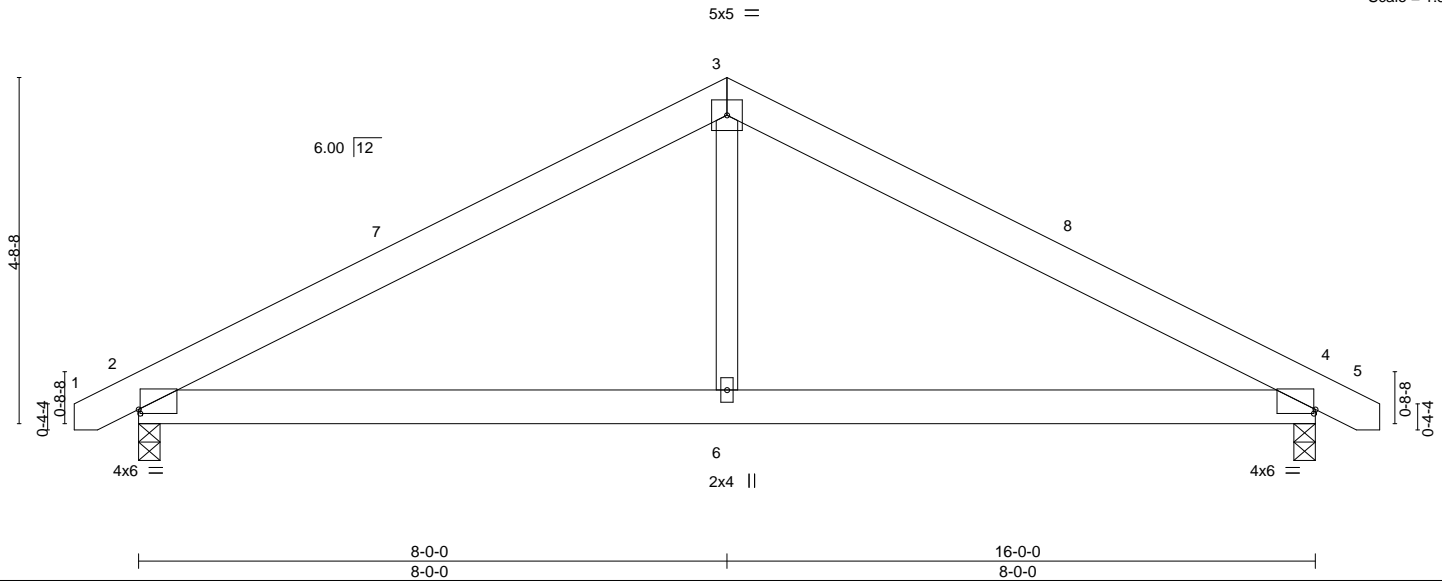


Plate Offsets (X,Y)--	[2:0-0-4,0-0-11], [4:0-0-4,0-0-11]
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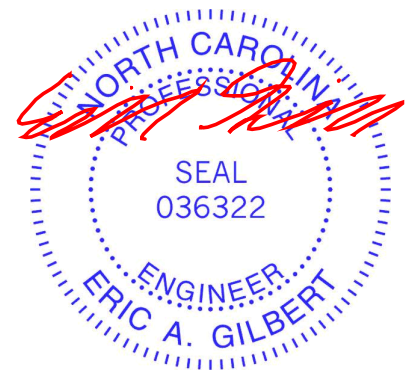
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) 0.06	4-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.05	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 90 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 9-6-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=-57(LC 10)
 Max Uplift 2=-142(LC 9), 4=-142(LC 8)
 Max Grav 2=680(LC 1), 4=680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-873/842, 3-4=-873/840
 BOT CHORD 2-6=-615/675, 4-6=-615/675
 WEBS 3-6=-478/381

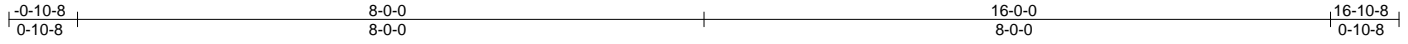
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 4=142.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Job J0320-1282	Truss P1GE	Truss Type GABLE	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217122
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:05 2020 Page 1
ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-hdkU3ipFaqNVUfJTGHHUjZkEaLQ9jW6YsDlrdszY0uK



Scale = 1:29.4

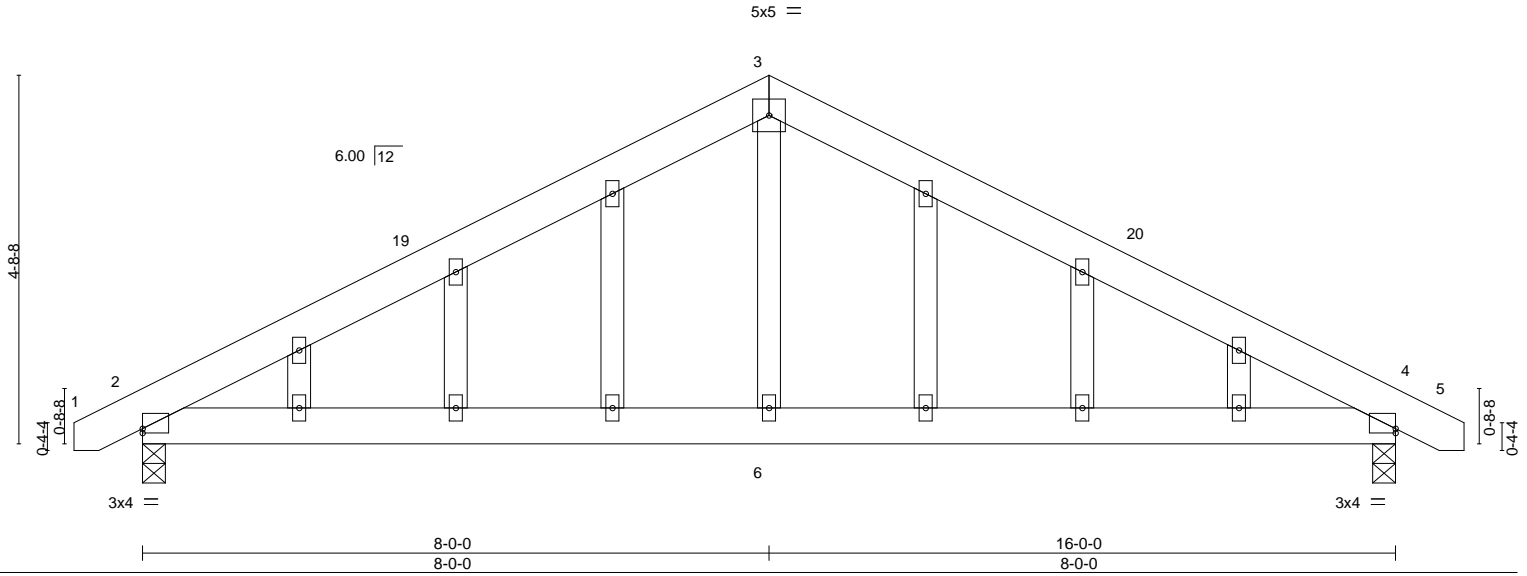


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [4:0-0-0,0-0-11]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.02	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.05	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.03	2-6	>999	240		
							Weight: 106 lb	FT = 20%

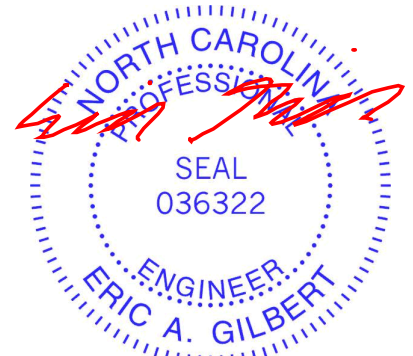
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

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, 4=0-3-8
 Max Horz 2=-88(LC 17)
 Max Uplift 2=-153(LC 12), 4=-153(LC 13)
 Max Grav 2=680(LC 1), 4=680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-873/238, 3-4=-873/236
 BOT CHORD 2-6=-77/675, 4-6=-77/675
 WEBS 3-6=0/381

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 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/TP1 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=153, 4=153.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 23, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job J0320-1282	Truss PB1	Truss Type PIGGYBACK	Qty 9	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217123
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:06 2020 Page 1
ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-9qlsG2quL8VM6pufp_DjGmHPzIm_SzKh5t1P9IzY0uJ

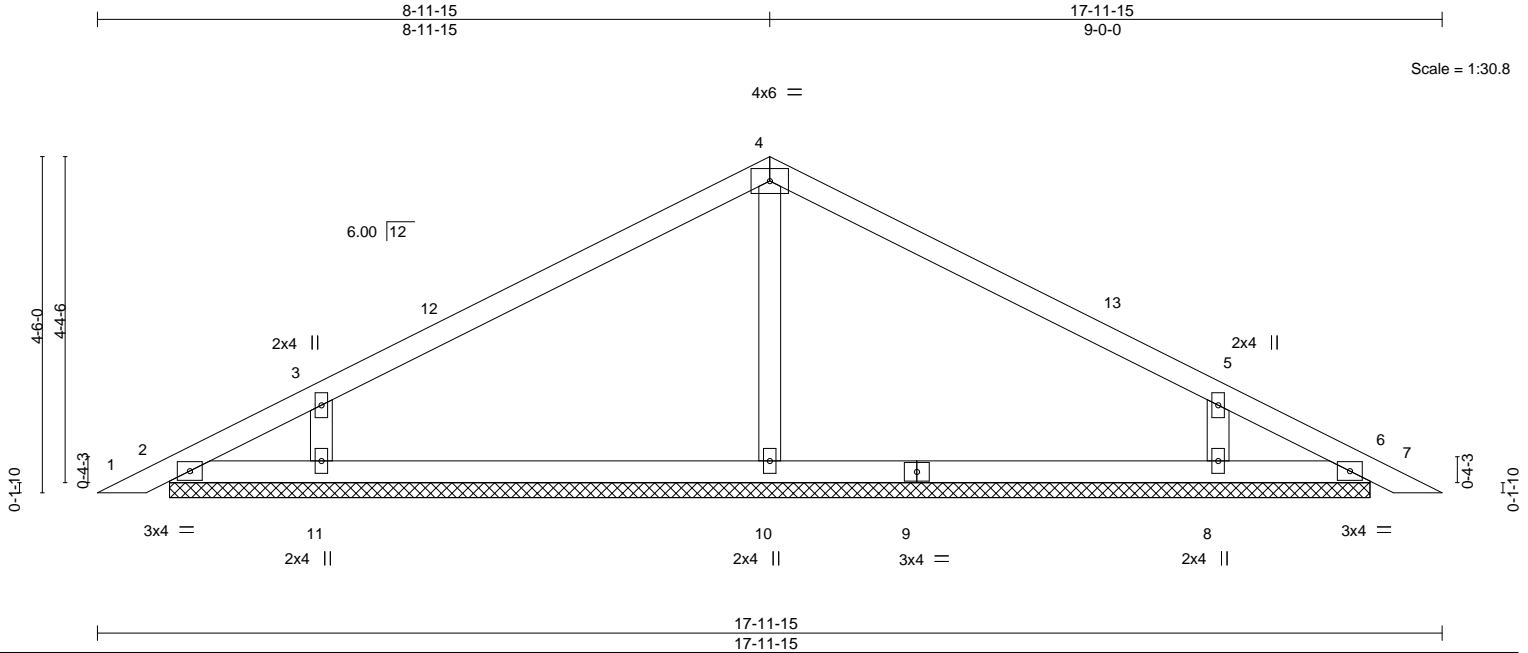


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.00	7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 62 lb	FT = 20%

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

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

REACTIONS. All bearings 16-0-12.
(lb) - Max Horz 2=56(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=105(LC 12), 8=105(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 10=428(LC 1), 11=440(LC 23), 8=440(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=298/101, 3-11=356/260, 5-8=356/263

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 13-4-12, Interior(1) 13-4-12 to 17-8-0 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 20.0psf 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 except (jt=16) 11=105, 8=105.
- Non Standard bearing condition. Review required.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 23, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

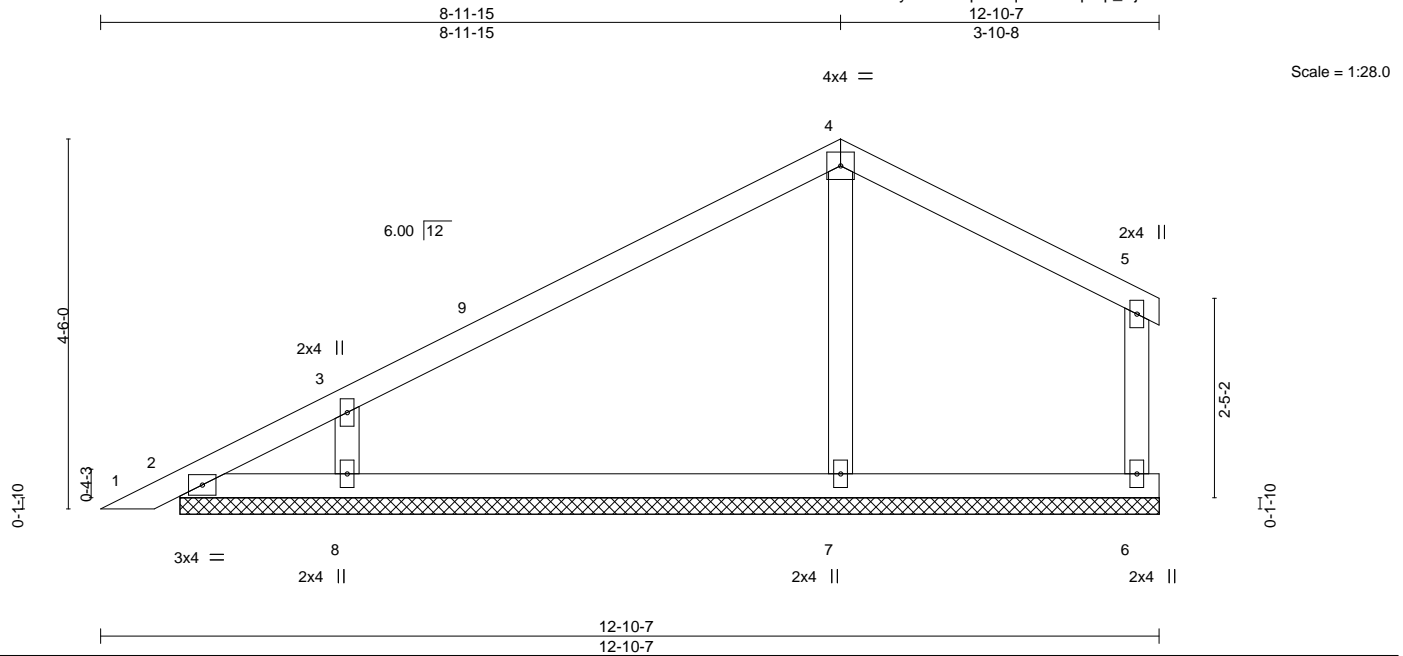


818 Soundside Road
Edenton, NC 27932

Job J0320-1282	Truss PB2	Truss Type PIGGYBACK	Qty 3	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217124
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:06 2020 Page 1
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-9qJsG2quL8VM6pufp_DjGmHPvIncSzQh5t1P9IzY0uJ



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 0.32	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 49 lb	FT = 20%

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

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

REACTIONS. All bearings 11-10-14.
(lb) - Max Horz 2=102(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=103(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=387(LC 1), 8=447(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-277/173, 3-8=-356/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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) 6, 2, 7 except (jt=lb) 8=103.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 23, 2020

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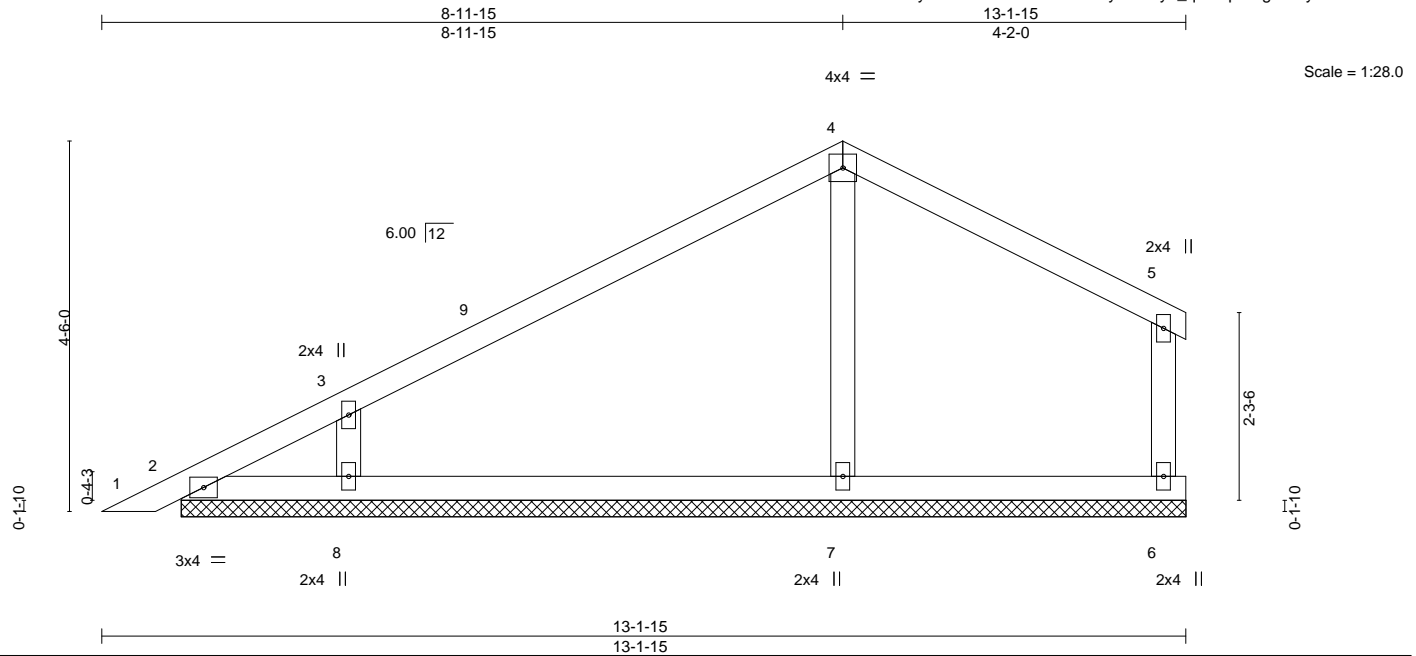


818 Soundside Road
Edenton, NC 27932

Job J0320-1282	Truss PB3	Truss Type PIGGYBACK	Qty 5	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217125
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:07 2020 Page 1
ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-d0sEUOrW5SdDkyTsNiky0_qaf97pBQgrJXnyhlzY0ul



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) 0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 50 lb	FT = 20%

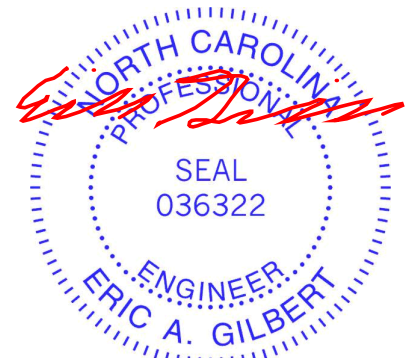
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 12-2-6.
 (lb) - Max Horz 2=99(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=104(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=390(LC 1), 8=447(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-7=-279/166, 3-8=-356/282

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-10-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=104.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 23, 2020

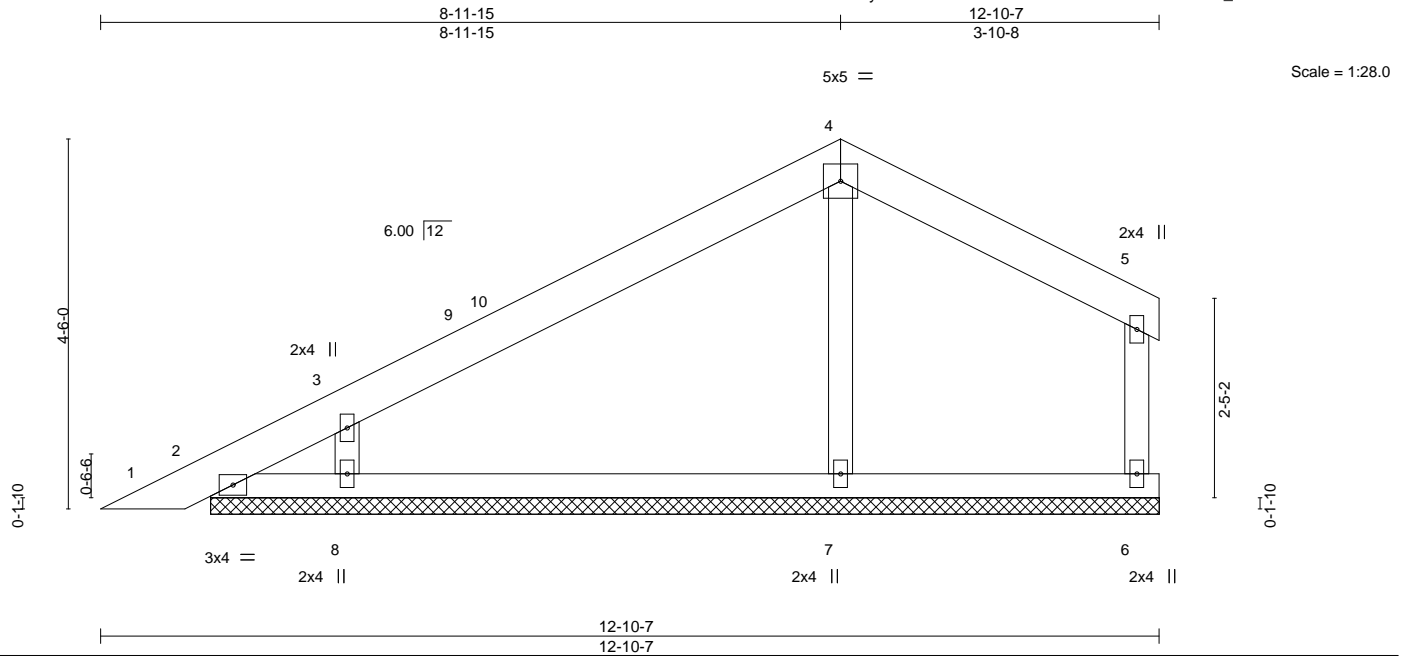
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job J0320-1282	Truss PB4	Truss Type PIGGYBACK	Qty 2	Ply 2	Weaver/Lot 1 Fultz Farm/Harnett	E14217126
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8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:08 2020 Page 1
ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-5CQchks8sl4L622xPFBLBMoKYUJwun_YBWWEBzY0uH



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL) 0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 121 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. All bearings 11-6-7.
(lb) - Max Horz 2=99(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=111(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=391(LC 1), 8=455(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-282/182, 3-8=-349/301

- 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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-2 to 4-10-15, Interior(1) 4-10-15 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 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) 6, 2, 7 except (jt=lb) 8=111.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 23, 2020

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

Job J0320-1282	Truss VP1	Truss Type VALLEY	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217127
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:09 2020 Page 1
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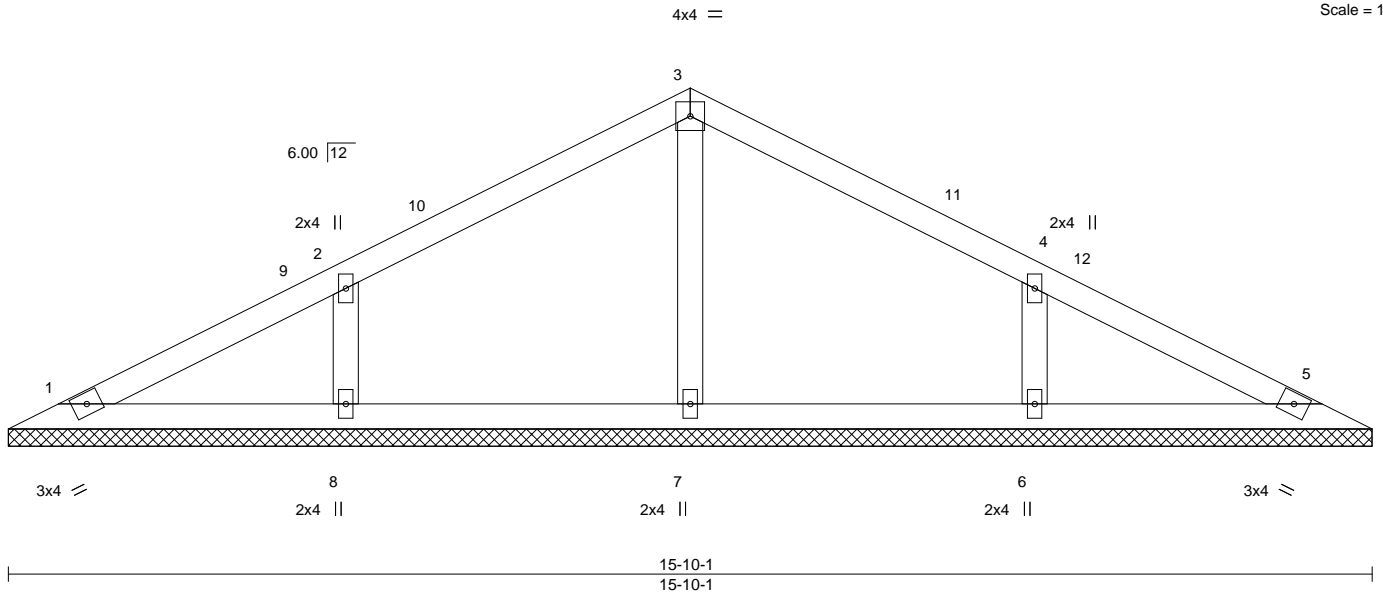
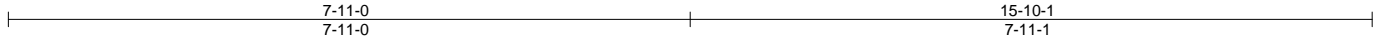


Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S					Weight: 57 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	

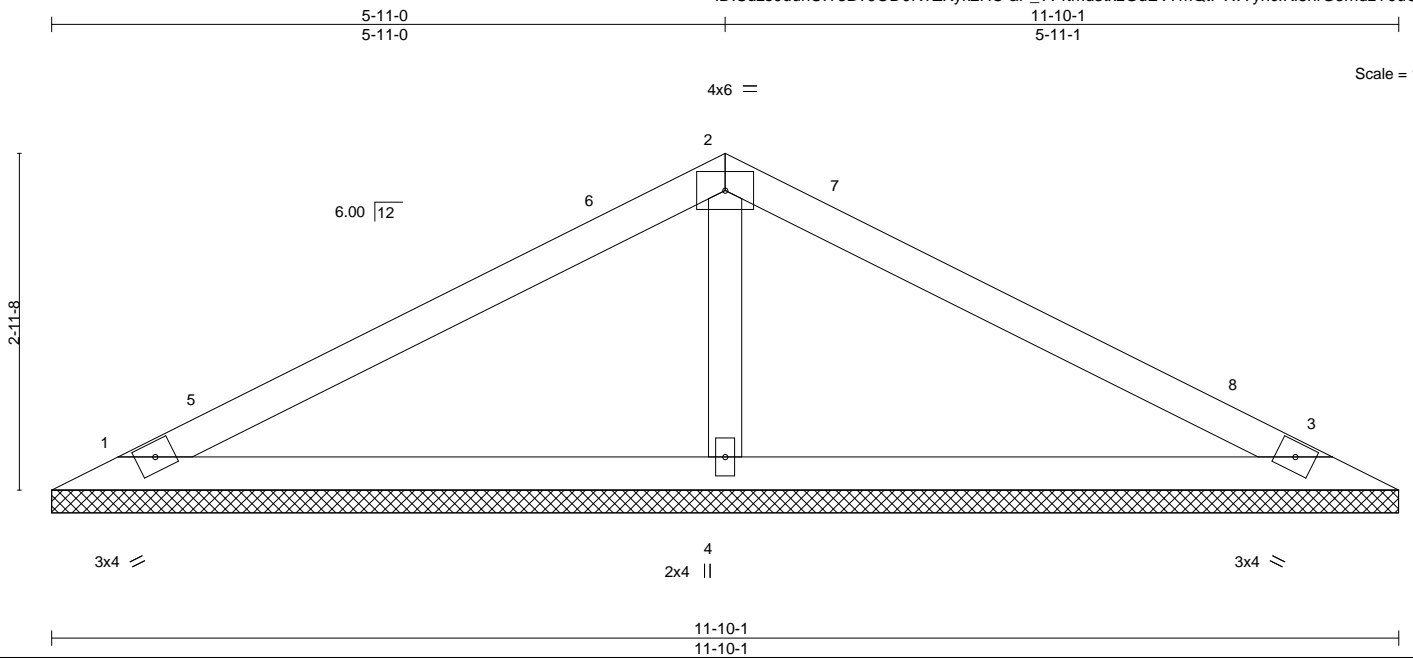
REACTIONS. All bearings 15-10-1.
 (lb) - Max Horz 1=-48(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=271(LC 1), 8=346(LC 23), 6=346(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-261/201, 4-6=-261/201

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 7-11-0, Exterior(2) 7-11-0 to 12-3-13, Interior(1) 12-3-13 to 15-2-10 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
 - 6) Non Standard bearing condition. Review required.



Job J0320-1282	Truss VP2	Truss Type VALLEY	Qty 1	Ply 1	Weaver/Lot 1 Fultz Farm/Harnett	E14217128
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:09 2020 Page 1	
					ID:Sdzs0uuuUIT3B?9OD0R?ZKyk2HC-aP_?v4tmd3txzGdEV7mQtPwwTynctfKi8nrG3mdzY0uG	
					Job Reference (optional)	



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 39 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (size) 1=11-10-1, 3=11-10-1, 4=11-10-1
 Max Horz 1=-35(LC 10)
 Max Uplift 1=-26(LC 12), 3=-32(LC 13)
 Max Grav 1=196(LC 23), 3=196(LC 24), 4=460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-304/188

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-2-10 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 6) Non Standard bearing condition. Review required.



March 23, 2020

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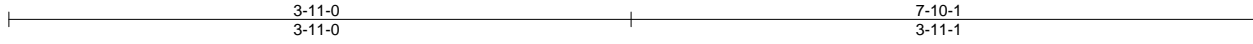


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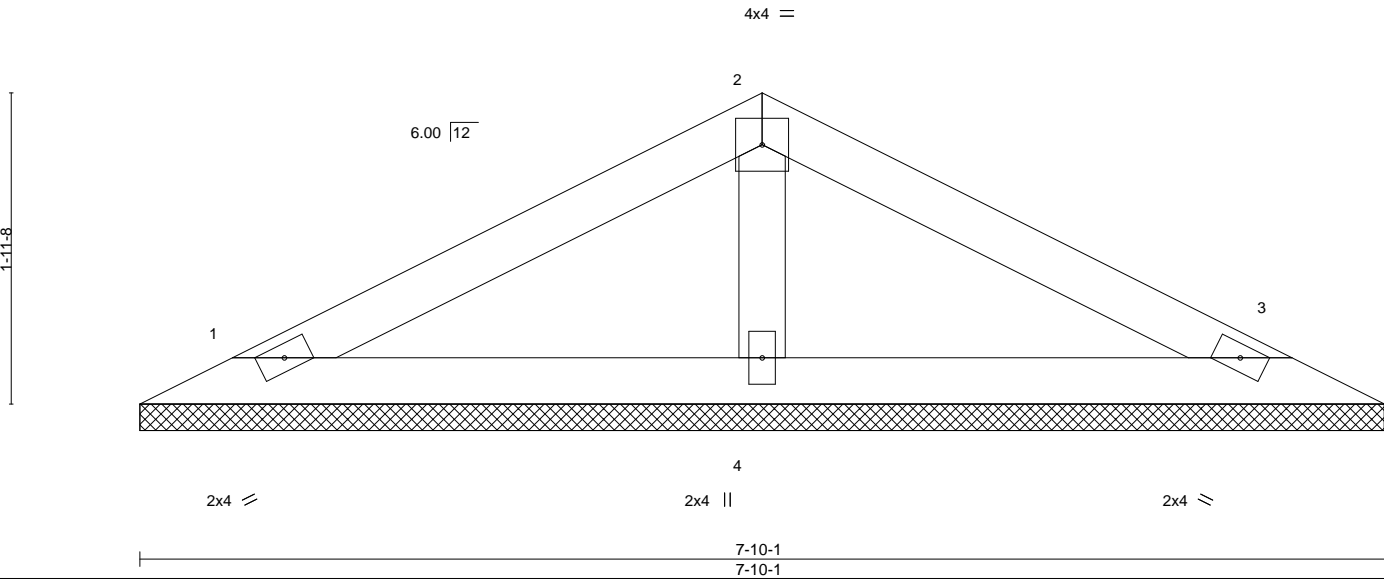
Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 1 Fultz Farm/Harnett	E14217129
J0320-1282	VP3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:10 2020 Page 1
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Scale = 1:14.5



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) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 25 lb	FT = 20%

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

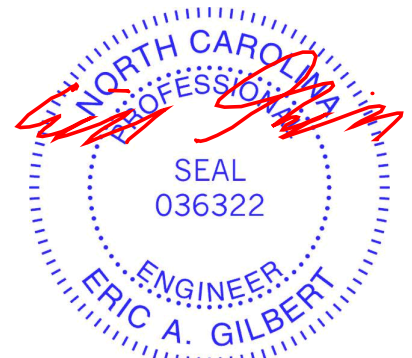
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-10-1, 3=7-10-1, 4=7-10-1
 Max Horz 1=-21(LC 8)
 Max Uplift 1=-21(LC 12), 3=-25(LC 13)
 Max Grav 1=134(LC 1), 3=134(LC 1), 4=260(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- Non Standard bearing condition. Review required.



March 23, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 1 Fultz Farm/Harnett	E14217130
J0320-1282	VP4	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Mar 23 14:35:11 2020 Page 1
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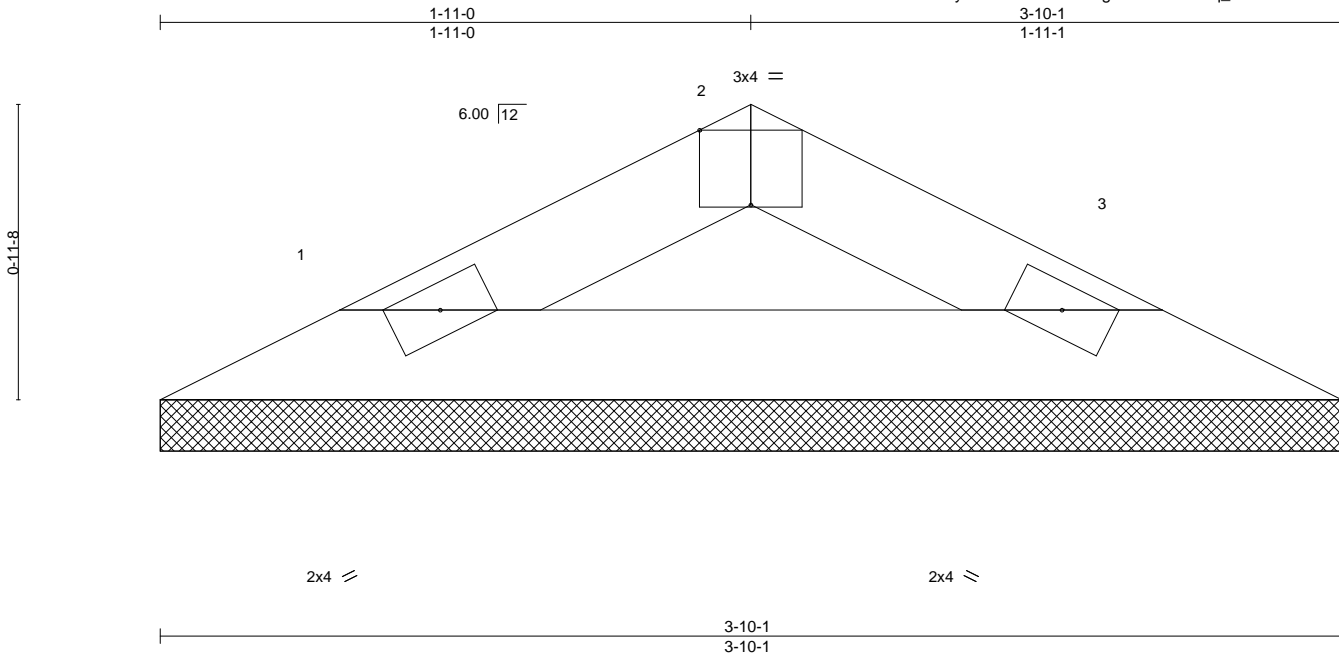


Plate Offsets (X,Y)--	[2:0-2-0,Edge]								
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 10 lb	FT = 20%
	Code IRC2015/TPI2014								

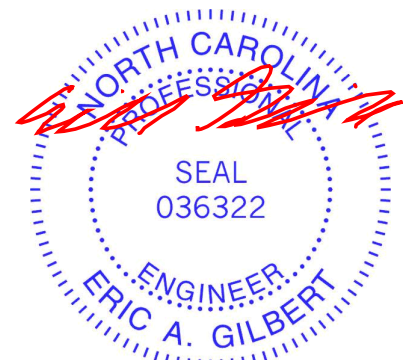
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1

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

REACTIONS. (size) 1=3-10-1, 3=3-10-1
 Max Horz 1=-8(LC 8)
 Max Uplift 1=-6(LC 12), 3=-6(LC 13)
 Max Grav 1=104(LC 1), 3=104(LC 1)

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

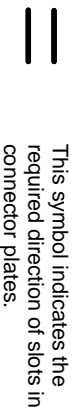
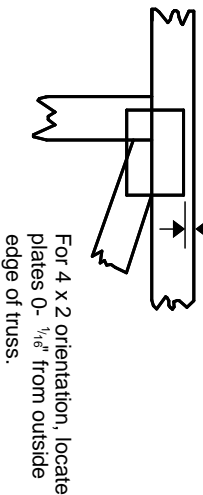
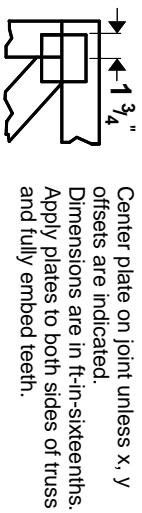
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 6) Non Standard bearing condition. Review required.



March 23, 2020

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

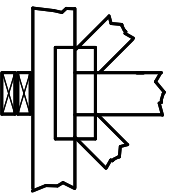
4 X 4

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

LATERAL BRACING LOCATION



BEARING

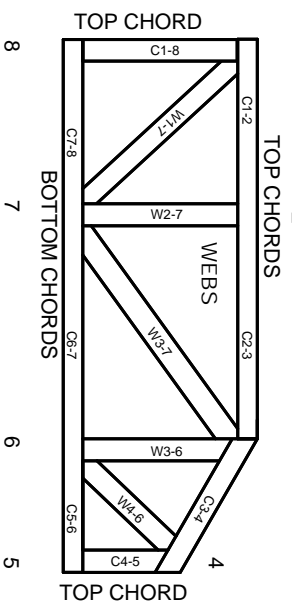


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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