

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0421-2506

Weaver/Lot 2 Atkins Farm Estates/JoCo

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: E15647881 thru E15647906

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



April 22,2021

Strzyzewski, Marvin

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

Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647881 **GABLE** J0421-2506 A1GE Job Reference (optional)

39-4-7

38-5-15

Fayetteville, NC - 28314, Comtech, Inc.

-0₋10-8 0-10-8

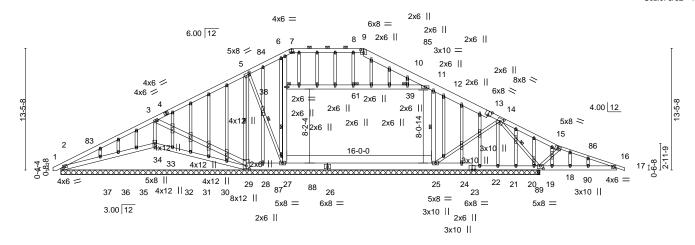
8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:17 2021 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-ebM3lblz5bzT_2ZhpFld1vjDzHnaCr9U2liOUQzOBgm 49-4-0 55-10-8 62-4-8 63-3-0 6-6-0 0-10-8 6-6-8

Structural wood sheathing directly applied or 5-9-10 oc purlins,

27-38, 12-25, 5-29, 5-27, 14-18

Scale: 3/32"=1

63-3-0



53-8-12

except

1 Row at midpt

2-0-0 oc purlins (6-0-0 max.): 7-9.

1 Brace at Jt(s): 38, 39, 61

Rigid ceiling directly applied or 6-0-0 oc bracing.

		0-10-8	20-6-0	<u>'</u>			32-4-4			8-7-12	0-10-8
Plate Off	sets (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	3], [29:0-3	3-12,0-4-0]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.11 25-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.17 25-27	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02 18	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix-	S	Wind(LL)	0.01 2-37	>999	240	Weight: 706 lb	FT = 20%

BOT CHORD

WEBS

JOINTS

LUMBER-**BRACING-**TOP CHORD 2x6 SP No.1 *Except* TOP CHORD

21-4-8

9-13: 2x10 SP No.1, 15-17: 2x4 SP No.1

-0₁10-8

BOT CHORD 2x6 SP No.1 *Except*

26-29,23-26: 2x10 SP No.1

WEBS 2x4 SP No.2 *Except*

3-29,6-27,12-25,11-38: 2x6 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 53-0-0.

Max Horz 2=266(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 37, 36 except 2=-154(LC 13),

34=-428(LC 12), 29=-175(LC 12), 25=-266(LC 13), 18=-929(LC 9), 28=-736(LC

18), 24=-643(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=1228(LC 1), 29=340(LC 26), 27=1217(LC 18), 25=1274(LC

21), 18=2303(LC 25), 18=2301(LC 1), 22=309(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=-471/267, 3-5=-897/613, 5-6=-824/785, 6-7=-742/729, 9-10=-822/716,

10-11=-920/681, 11-12=-892/659, 12-14=-799/394, 14-15=-1002/1155, 15-16=-963/911, 7-8=-691/748. 8-9=-692/748

BOT CHORD 2-37=-100/362, 36-37=-69/326, 35-36=-82/345, 34-35=-78/338, 33-34=-80/340,

32-33=-80/342, 31-32=-80/342, 30-31=-80/342, 29-30=-81/340, 28-29=-56/674,

 $27 - 28 = -52/675, \ 25 - 27 = -31/658, \ 24 - 25 = -45/371, \ 22 - 24 = -57/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22 = -45/371, \ 21 - 22$

20-21=-45/371, 19-20=-45/371, 18-19=-45/371, 16-18=-799/998

WEBS 3-29=-70/432, 14-25=-300/544, 3-34=-1050/623, 12-25=-660/601, 5-29=-433/307,

14-18=-1862/1205

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) 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 33-6-0, 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 2 Atkins Farm Estates/JoCo
10.404.0500	1405	04815			E15647881
J0421-2506	A1GE	GABLE	1	1	
					Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:18 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-6nvRzxmbsv5KcC8tNyqsa6FOih7pxIPeHPRx0szOBgl

NOTES-

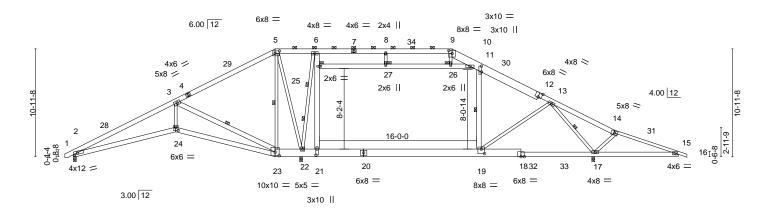
- 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. 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=175, 25=266, 18=929, 28=736, 24=643, 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.

Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647882 J0421-2506 **ROOF TRUSS** 5 A2 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:20 2021 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-3A1COdnrOWL2rVIGUNsKfXLfJUk2P27xkiw25lzOBgj 38-5-15 6-9-0 41-0-0 2-6-1 55-0-0 6-6-8 -0₁10-8

Scale = 1:117.1



	10-4-12	20-6-0	₁ 23-1-12 25-0-0	41-0-0	52-10-4	61-6-0
	10-4-12	10-1-4	¹ 2-7-12 ¹ -10-4 ¹	16-0-0	11-10-4	8-7-12
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], [1	2:0-4-0,Edge], [19:0-4-0,0-5-8], [2	1:0-7-4,0-1-8], [23:0-5-0,0-4	I-7], [24:0-3-0,0-3-8]
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL) -0.40 19-21	>897 360	MT20 244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT) -0.69 19-21	>522 240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT) 0.28 17	n/a n/a	
BCDL 10.0	Code IRC2015/TF	PI2014	Matrix-S	Wind(LL) 0.11 2-24	>999 240	Weight: 537 lb FT = 20%

BOT CHORD

WEBS

JOINTS

except

1 Row at midpt

2 Rows at 1/3 pts

1 Brace at Jt(s): 25, 26, 27

2-0-0 oc purlins (4-3-8 max.): 5-9.

Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-**BRACING-**2x6 SP No.1 *Except* TOP CHORD

TOP CHORD 9-12: 2x10 SP No.1, 14-16: 2x4 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

20-23,18-20: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

3-23,6-21,11-19,10-25: 2x6 SP No.1, 6-22: 2x4 SP No.1

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; TCDL=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.
- 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



Edenton, NC 27932

SEAL

Structural wood sheathing directly applied or 2-8-10 oc purlins,

6-22

3-23, 11-19, 5-23, 13-17

ORT

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILEN REPERTANCE PLACE INITIATION OF A PLACE PLACE AND A PLACE PLAC 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 bucking of individual truss web and/or chard members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 2 Atkins Farm Estates/JoCo
	4.0		_		E15647882
J0421-2506	A2	ROOF TRUSS	5	1	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:20 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-3A1COdnrOWL2rVIGUNsKfXLfJUk2P27xkiw25lzOBgj

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.

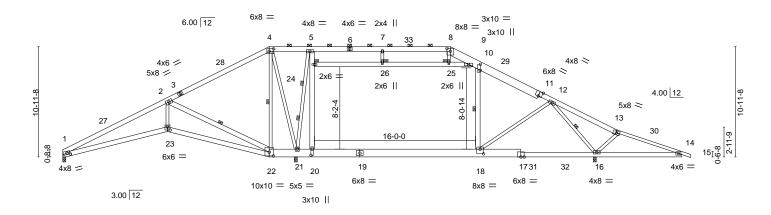


Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647883 J0421-2506 **ROOF TRUSS** A2A Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:23 2021 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-TljK0epjhRjdiz1r9WP1HAz7KilpcPqNQg9ih4zOBgg 55-0-0 6-6-8 38-5-15 6-9-0

Scale = 1:114.5



		10-4-12 20-6-0	₁ 23-1-12 <u>2</u> 5-0-0 ₁	41-0-0	52-10-4	61-6-0
		10-4-12	2-7-12 1-10-4	16-0-0	11-10-4	8-7-12
Plate Offse	ets (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]
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 0.97	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%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

Structural wood sheathing directly applied, except

Rigid ceiling directly applied or 6-0-0 oc bracing.

5-21

2-22, 10-18, 4-22, 12-16

2-0-0 oc purlins (4-3-8 max.): 4-8.

1 Brace at Jt(s): 24, 25, 26

1 Row at midpt

2 Rows at 1/3 pts

LUMBER-TOP CHORD 2x6 SP No 1 *Except*

8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

19-22,17-19: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

2-22,5-20,10-18,9-24: 2x6 SP No.1, 5-21: 2x4 SP No.1

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 1-23=-9/4290, 22-23=-7/4281, 21-22=0/1585, 20-21=0/2141, 18-20=0/2173,

BOT CHORD 16-18=0/1461, 14-16=-792/858

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-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-1-12 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



COMMUNICATION DAGGING DESIGN DESIGN PART AND READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss	Truss Type	Qty	Ply	Weaver/Lot 2 Atkins Farm Estates/JoCo
						E15647883
J04	121-2506	A2A	ROOF TRUSS	1	1	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:23 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-TljK0epjhRjdiz1r9WP1HAz7KilpcPqNQg9ih4zOBgg

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.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647884 **ROOF TRUSS** 3 J0421-2506 A3 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:25 2021 Page 1 Comtech, Inc.

Structural wood sheathing directly applied or 4-5-0 oc purlins, except

4-22

2-22, 21-24, 10-19, 12-17

2-0-0 oc purlins (5-9-15 max.): 4-8.

1 Row at midpt

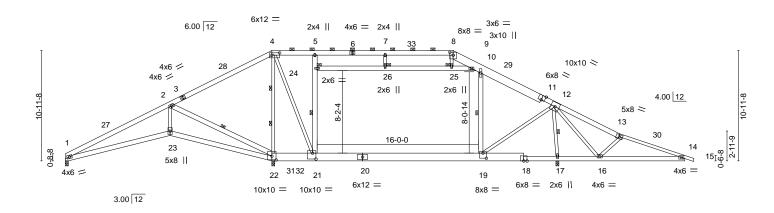
2 Rows at 1/3 pts

1 Brace at Jt(s): 24, 25, 26

Rigid ceiling directly applied or 6-0-0 oc bracing.

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-P7r5RKr_D3_LyGADHwSVMb2XuVV34M4gu_epmyzOBge 38-5-15 6-9-0 55-0-0 6-6-8 10-4-12 10-4-12

Scale = 1:114.4



		10-4-12	20-6-0	20-7-12 25-0-0	41-0-0	48-10-4	52-10-4 61-6-0	
		10-4-12	10-1-4	0-1 ^{!]} 12 4-4-4	16-0-0	7-10-4	4-0-0 8-7-12	1
Plate Offs	sets (X,Y)	[4:0-9-4,0-2-12], [8:0-4-0,0	0-3-8], [11:0-4	-0,Edge], [19:0-4-0,0-	5-0], [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	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.49	Vert(CT) -0.50 19-21	>687 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT) 0.13 17	n/a n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matrix-S	Wind(LL) 0.06 1-23	>999 240	Weight: 528 lb	FT = 20%

BOT CHORD

WEBS

JOINTS

LUMBER-**BRACING-**TOP CHORD 2x6 SP No.1 *Except* TOP CHORD

8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

20-22,18-20: 2x10 SP 2400F 2.0E, 14-18: 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

2-22,5-21,10-19,9-24: 2x6 SP No.1

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; TCDL=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, Interior(1) 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.
- 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.

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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SEAL



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 2 Atkins Farm Estates/JoCo	
	4.0		_		E15647	7884
J0421-2506	A3	ROOF TRUSS	3	1		
					Job Reference (optional)	

Comtech, Inc,

Fayetteville, NC - 28314,

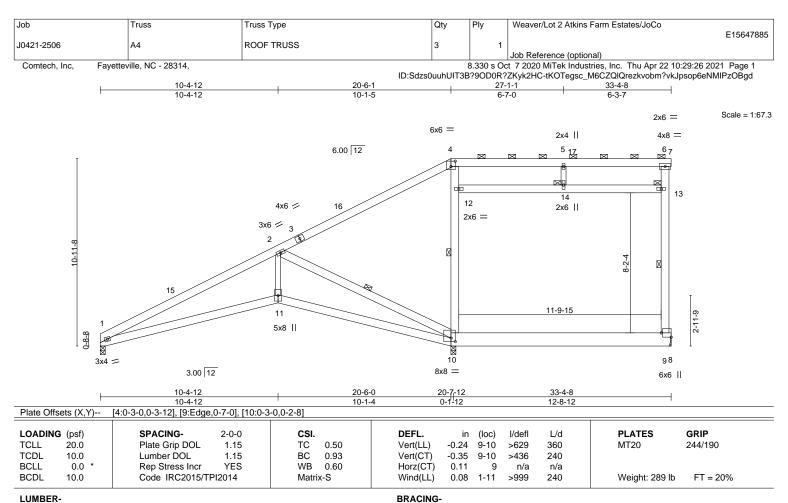
8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:25 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-P7r5RKr_D3_LyGADHwSVMb2XuVV34M4gu_epmyzOBge

NOTES-

11) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932



TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 1

BOT CHORD 2x6 SP No.1 *Except* 8-10: 2x10 SP No.1

WFBS 2x6 SP No.1 *Except*

2-11,5-14: 2x4 SP No.2

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; TCDL=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.



Structural wood sheathing directly applied or 4-7-12 oc purlins,

9-13, 2-10, 10-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

Rigid ceiling directly applied or 2-2-0 oc bracing.

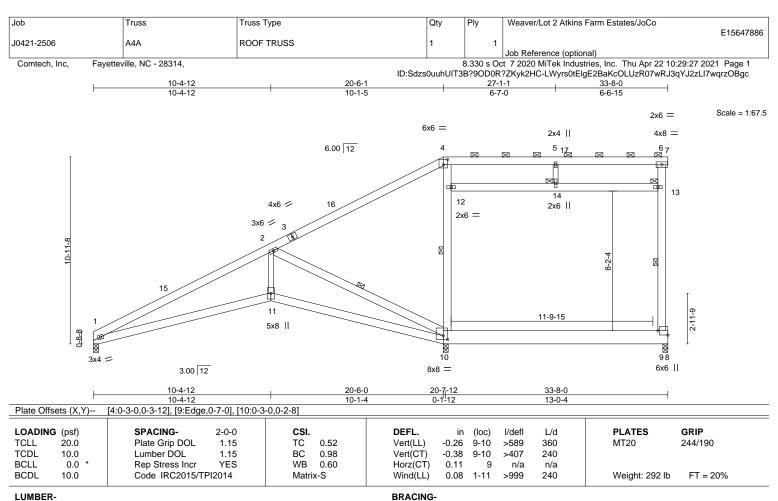
1 Row at midpt

1 Brace at Jt(s): 6, 13, 14

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

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

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



TOP CHORD

BOT CHORD

WEBS

JOINTS

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

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; TCDL=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.



Structural wood sheathing directly applied or 4-7-7 oc purlins,

9-13, 2-10, 10-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 6, 13, 14

Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647887 **ROOF TRUSS** 4 J0421-2506 A5 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:29 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-lu4bHiuUHHUmQuU?WmWRXRDGA7nb08XFocc0vkzOBga 10-4-12 27-1-0 33-8-0 10-1-5 10-4-12 6-7-0 Scale = 1:73.3 2x6 = 8x8 =2x4 || 5x8 M18SHS || 6.00 12 5 6 20 16 17 4x6 / 19 2x6 = 2x6 || 3x4 / 3 10-11-8 8-2-4 11-9-15 0-4-4 0-8-8 ₩ 12 X 24 14 13 21 22 23 9 $3x_6 =$ 11 10 4x6 = 3x6 =5x8 || 8x8 = 2x4 // 8-2-0 16-5-12 20-6-1 33-8-0 8-3-12 8-2-0 4-0-5 13-1-15 Plate Offsets (X,Y)--[5:0-4-0,0-3-8], [11:0-4-0,Edge] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.21 10-11 >950 360 MT20 244/190 TCDL M18SHS 244/190 10.0 Lumber DOL 1.15 BC 0.83 Vert(CT) -0.33 10-11 >623 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.92 Horz(CT) -0.01 10 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.03 2-13 >999 240 Weight: 298 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

9-11: 2x10 SP No.1 WEBS 2x4 SP No.2 *Except*

WEBS 2x4 SP No.2 *Except*

7-10,5-11,15-16: 2x6 SP No.1

REACTIONS. (size) 10=0-3-8, 2=0-3-8, 12=0-3-8 Max Horz 2=346(LC 12)

Max Uplift 2=-35(LC 12)

Max Grav 10=1097(LC 2), 2=456(LC 1), 12=2480(LC 2)

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

TOP CHORD 2-3=-371/313, 3-5=-371/892, 5-6=-272/6, 6-7=-272/6, 10-16=-549/112, 7-16=-402/109 BOT CHORD 2-13=-368/271, 12-13=-403/188

WEBS 11-15=0/1077, 5-15=0/1192, 5-12=-2060/141, 3-12=-815/356, 3-13=0/402

NOTES-

- 1) 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) -0-8-10 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
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 15-17, 16-17; Wall dead load (5.0psf) on member(s).11-15
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- 8) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

10-16

5-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.

Rigid ceiling directly applied or 5-1-0 oc bracing.

1 Row at midpt

2 Rows at 1/3 pts

1 Brace at Jt(s): 7, 16, 17

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

Design valid for use only with Mi1 exe connectors. Inis 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 pareters 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

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Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647888 J0421-2506 **ROOF TRUSS** 2 A6 2 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:30 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-m5e_U1v62bcd223B4U1g3elSsW8tleUP1GLaRAzOBgZ 10-4-12 10-4-12 33-4-8 10-1-5 Scale = 1:73.1 2x6 = 6x6 =2x4 II 4x8 = 6.00 12 6 20 15 16 17 4x6 / 2x6 || 2x6 = 3x4 / 11-9-15 24 10 9 14 13 21 22 23 3x6 12 11 4x6 =3x6 =5x12 || 8x8 = 2x4 // 8-2-0 16-5-12 20-6-1 8-2-0 8-3-12 12-10-7 4-0-5 Plate Offsets (X,Y)--[5:0-3-0,0-3-4], [11:0-4-0,Edge]

TCDL 10.0 Lumber DOL **BCLL** 0.0

Plate Grip DOL 1.15 Rep Stress Incr NO 10.0 Code IRC2015/TPI2014

SPACING-

TC 0.51 BC 0.76 WB 0.75 Matrix-S

CSI.

Vert(LL) -0.17 10-11 >999 Vert(CT) -0.26 10-11 Horz(CT) -0.00 10 Wind(LL) 0.02 2-13

(loc)

360 >759 240 n/a n/a >999 240

I/defI

MT20

PLATES

244/190

GRIP

Weight: 590 lb FT = 20%

LUMBER-TOP CHORD

TCLL

BCDL

LOADING (psf)

20.0

2x6 SP No 1

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

7-10,5-11,15-16: 2x6 SP No.1

BRACING-TOP CHORD

BOT CHORD

DEFL.

2-0-0 oc purlins (6-0-0 max.), except end verticals

L/d

(Switched from sheeted: Spacing > 2-8-0). Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 5-12 JOINTS 1 Brace at Jt(s): 5, 7, 15, 16, 17

REACTIONS.

(size) 10=Mechanical, 2=0-3-8, 12=0-3-8

Max Horz 2=605(LC 12) Max Uplift 2=-59(LC 12)

Max Grav 10=1876(LC 2), 2=803(LC 1), 12=4284(LC 2)

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

TOP CHORD 2-3=-656/519, 3-5=-656/1534, 5-6=-456/7, 6-7=-455/7, 10-16=-939/191, 7-16=-686/181

1.15

BOT CHORD $2\text{-}13\text{=-}640/485,\ 12\text{-}13\text{=-}701/341,\ 11\text{-}12\text{=-}322/319,\ 10\text{-}11\text{=-}268/290}$ WEBS

11-15=0/1830, 5-15=0/2028, 15-17=-229/418, 16-17=-229/418, 6-17=-73/268,

5-12=-3524/258, 3-12=-1429/624, 3-13=0/702

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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.

 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 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) -0-8-10 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
- 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). 15-17, 16-17; Wall dead load (5.0psf) on member(s).11-15
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 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.

27 MARTIN MARTIN ORTH

April 22,2021







Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647889 **GABLE** J0421-2506 A7GE Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:32 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-iTmkvjwNZCsLHLDaBv4883roHKxoDdZiVaqhW2zOBgX -0<u>-10₁8</u> 0-10-8 21-4-9 26-4-9 34-3-0 7-10-7 20-6-1 5-0-0 Scale = 1:80.8 4x6 = 2x4 | 6x8 =2x4 || 2x4 || 2x4 || 89 2x4 || 6.00 12 2x4 || 543 2x4 || 2x4 || 2x4 || 2x4 || 24 4x6 / 2x4 || 2x4 || 3 2x4 || 8-2-4 2x4 || 2x4 || 11-9-15 5x8 = 21 20 44 17 13 12 22 19 18 16 15 14 10 3x10 II 6x8 = 6x8 = -0_E10_T8 21-4-9 34-3-0 0-10-8 20-6-1 12-10-7

LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI I/d PLATES GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.45 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.29 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.39 Horz(CT) 0.14 9 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 387 lb FT = 20%

LUMBER-**BRACING-**TOP CHORD

2x6 SP No.1 BOT CHORD 2x10 SP No.1 WFBS 2x6 SP No.1 *Except*

3-17.7-25: 2x4 SP No.2 **OTHERS** 2x4 SP No.2

TOP CHORD

BOT CHORD

WEBS

JOINTS

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. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.

T-Brace:

2x4 SPF No.2 - 10-24, 11-23 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

1 Brace at Jt(s): 24, 25

REACTIONS. All bearings 33-4-8.

Max Horz 2=613(LC 12) (lb) -

> Max Uplift All uplift 100 lb or less at joint(s) 11, 19, 21 except 9=-452(LC 1), 10=-214(LC 9), 17=-427(LC 12), 22=-244(LC 12), 13=-621(LC 18)

Max Grav All reactions 250 lb or less at joint(s) 9, 2, 15, 16, 18, 19, 21 except

10=1060(LC 2), 17=700(LC 1), 11=1702(LC 2), 14=323(LC 18), 22=428(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-943/459, 3-5=-642/358, 5-6=-309/33, 10-24=-935/545, 8-24=-820/535 **WEBS** 3-17=-658/517, 11-23=-908/749, 5-23=-714/740, 23-25=-271/274, 24-25=-271/274

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x6 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing
- 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) Ceiling dead load (10.0 psf) on member(s). 23-25, 24-25; Wall dead load (5.0psf) on member(s).3-17, 11-23
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 19, 21 except (jt=lb) 9=452, 10=214, 17=427, 22=244, 13=621.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

AWARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-47.3 (eV. 5/19/20/20 BEPORE USE.)

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 2 Atkins Farm Estates/JoCo
					E15647889
J0421-2506	A7GE	GABLE	1	1	
					Joh Reference (ontional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:33 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-AgJ663x?KW_CvVomlcbNhHNz1kH1y4prjEaE2VzOBgW

NOTES-

15) Attic room checked for L/360 deflection.

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

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

ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647890 PIGGYBACK ATTIC J0421-2506 В1 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:34 2021 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-estUKPyd5q63XfMyJJ6cDUw8X8XKhXy?yuJnaxzOBgV

5-0-12 5-0-12 22-7-0 12-5-8 5-0-12

> Scale = 1:82.1 6x8 =

> > Structural wood sheathing directly applied or 5-5-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

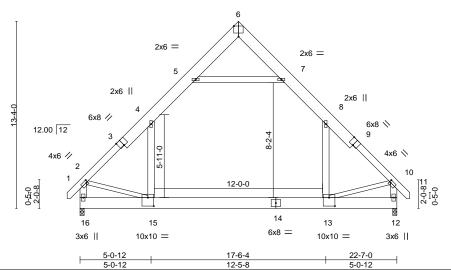


Plate Offsets (X,Y)-- [2:0-1-0,0-2-0], [3:0-4-0,Edge], [6:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-0,0-2-0], [13:0-5-0,0-7-4], [15:0-5-0,0-7-4]

LOADING	G (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	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.3	26 13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.	01 12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.	05 13-15	>999	240	Weight: 268 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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

REACTIONS. (size) 16=0-3-8, 12=0-3-8

Max Horz 16=339(LC 11)

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 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
- 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). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 7) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647891 J0421-2506 B2 ATTIC 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:37 2021 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-3RZdyR_VOIUeO65X_SfJr7YfaLY5uuoResYSBGzOBgS

Structural wood sheathing directly applied or 5-5-11 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

7-9-8 11-3-8 14-9-8 17-6-4 22-7-0 5-0-12 2-8-12 3-6-0 3-6-0 2-8-12 5-0-12

> Scale = 1:82.7 6x8 =

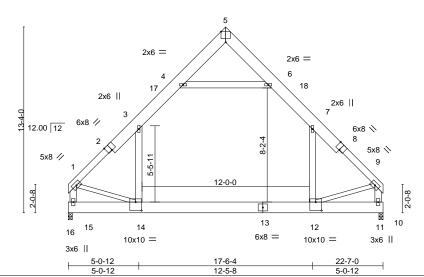


Plate Offsets (X,Y)	[2:0-4-0,Edge],	[5:0-4-0,Edge],	[8:0-4-0,Edge],	[12:0-5-0,0-7-4],	[14:0-5-0,0-7-4]

LOADIN	G (psf)	SPACING- 2-0)-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	15	TC	0.41	Vert(LL)	-0.16 12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.	15	BC	0.66	Vert(CT)	-0.25 12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.39	Horz(CT)	0.01 11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	4	Matri	x-S	Wind(LL)	0.04 12-14	>999	240	Weight: 263 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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* 1-14,9-12: 2x4 SP No.2

REACTIONS. (size) 15=0-3-8, 11=0-3-8

Max Horz 15=257(LC 9)

Max Grav 15=1492(LC 21), 11=1492(LC 20)

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

TOP CHORD $1\text{-}3\text{=-}1704/0,\ 3\text{-}4\text{=-}1082/150,\ 6\text{-}7\text{=-}1082/150,\ 7\text{-}9\text{=-}1703/0,\ 1\text{-}15\text{=-}1681/0,\ 9\text{-}11\text{=-}1681/0}$

BOT CHORD 14-15=-285/363, 12-14=0/1097

WEBS $4\text{-}6\text{=-}1249/179,\ 3\text{-}14\text{=}0/788,\ 7\text{-}12\text{=}0/788,\ 1\text{-}14\text{=}0/1079,\ 9\text{-}12\text{=}0/1082$

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-4-12 to 5-0-12, Interior(1) 5-0-12 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 7) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647892 J0421-2506 ВЗ ATTIC 6 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:38 2021 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-Xd7?9n?892cV0GgjY9BYOK5qDluHdKzatWH?jizOBgR

Structural wood sheathing directly applied or 5-5-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

7-9-8 11-3-8 14-9-8 17-6-4 <u>22-7-0</u> 3-6-0 2-8-12 3-6-0 2-8-12 5-0-12

> Scale = 1:82.7 6x8 =

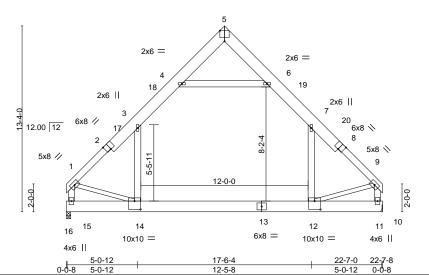


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [12:0-5-0,0-7-4], [14:0-5-0,0-7-4]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defI L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.16 12-14	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.25 12-14	>999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01 11	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 12-14	>999 240	Weight: 264 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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* 1-14,9-12: 2x4 SP No.2

REACTIONS. (size) 15=0-3-8, 11=Mechanical

Max Horz 15=-258(LC 8)

Max Grav 15=1495(LC 21), 11=1495(LC 20)

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

TOP CHORD $1-3=-1717/0,\ 3-4=-1088/150,\ 6-7=-1087/150,\ 7-9=-1717/0,\ 1-15=-1680/0,\ 9-11=-1681/0$

BOT CHORD 14-15=-286/369. 12-14=0/1106

WEBS 4-6=-1263/178, 3-14=0/794, 7-12=0/794, 1-14=0/1079, 9-12=0/1082

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 7) Refer to girder(s) for truss to truss connections.
- 8) Attic room checked for L/360 deflection.



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

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

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



Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647893 J0421-2506 ATTIC B4 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:40 2021 Page 1

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-T0FmaS1OhgtCFaq6faD0TlA9gYZj5HqtKqm6obzOBgP 7-9-8 11-3-8 14-9-8 17-6-4 , 22-7-0 2-8-12 3-6-0 3-6-0 2-8-12 5-0-12

> Scale = 1:82.7 6x8 =

> > 2-0-0 oc purlins (6-0-0 max.), except end verticals

(Switched from sheeted: Spacing > 2-8-0).

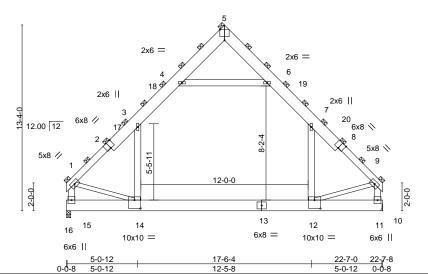


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [12:0-5-0,0-7-4], [14:0-5-0,0-7-4]

LOADIN	G (psf)	SPACING- 4-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.16 12-14 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.25 12-14 >999 240)
BCLL	0.0 *	Rep Stress Incr NO	WB 0.25	Horz(CT) 0.01 11 n/a n/a	a l
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 12-14 >999 240	Weight: 528 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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*

1-14,9-12: 2x4 SP No.2

REACTIONS. (size) 15=0-3-8, 11=Mechanical

Max Horz 15=-516(LC 8)

Max Grav 15=2990(LC 21), 11=2990(LC 20)

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

TOP CHORD $1-3=-3434/0,\ 3-4=-2175/300,\ 4-5=-193/437,\ 5-6=-193/437,\ 6-7=-2175/300,\ 7-9=-3433/0,\ 3-2=-3434/0,\ 3-4=-2175/300,\ 4-5=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=-193/437,\ 5-6=$

1-15=-3360/0. 9-11=-3361/0

BOT CHORD 14-15=-572/738, 12-14=0/2212, 11-12=-99/306

WEBS 4-6=-2527/356, 3-14=0/1589, 7-12=0/1589, 1-14=0/2158, 9-12=0/2165

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x10 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 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.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (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) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-14, 7-12
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- 9) Refer to girder(s) for truss to truss connections.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.

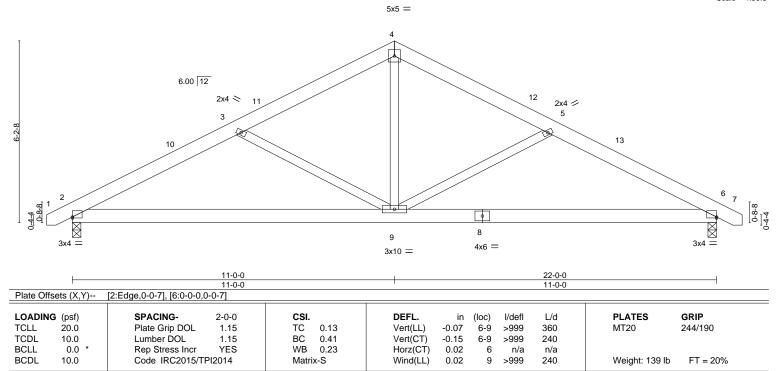


April 22,2021



100	Truss	Truss Type	Qly	PIY V	veaver/Lot 2 Atkins Farm Estates/Joco	
						E15647894
J0421-2506	G1	QUEENPOST	6	1		
				Jo	bb Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,			8.330 s Oct	7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:41 2	021 Page 1
			ID:Sdzs0uuhUIT	3B?9OD0R?	ZKyk2HC-xCo8oo10Sz?3tkPIDIkF0ziP_yzxqkL0ZUV	VfK1zOBgO
_[0-10-8 _]	5-9-3	11-0-0	1	6-2-13	22-0-0	22-10-8
0-10-8	5-9-3	5-2-13	, ,	5-2-13	5-9-3	0-10-8

Scale = 1:39.3



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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.

2-3=-1389/378, 3-4=-1062/288, 4-5=-1062/288, 5-6=-1389/378 TOP CHORD

BOT CHORD 2-9=-252/1174, 6-9=-256/1174 WFBS 3-9=-359/240, 4-9=-73/616, 5-9=-359/240

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) -0-8-10 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
- 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) 6, 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

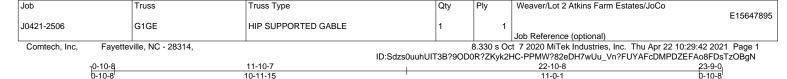
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

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

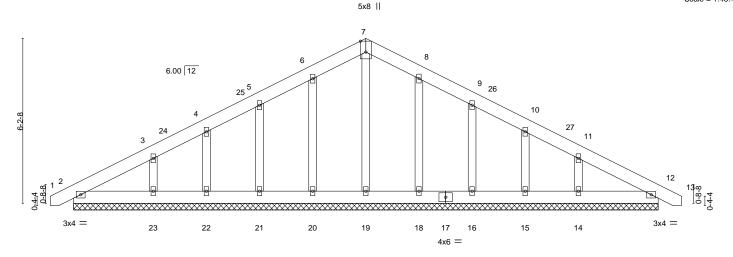




Ply

Scale = 1:43.4

23-9-0



0-10-8			22-0-0	0-10-8					
Plate Offsets (X,Y)	[7:0-4-14,Edge]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	_
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL)	0.00 12	n/r	120	MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	0.00 12	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	0.00 12	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 155 lb	FT = 20%	

22-10-8

LUMBER-

Job

Truss

TOP CHORD 2x6 SP No 1 2x6 SP No.1

0-10-8

BOT CHORD 2x4 SP No.2 OTHERS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Weaver/Lot 2 Atkins Farm Estates/JoCo

11-0-1

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-0-0.

(lb) -Max Horz 2=-119(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 18, 20, 21, 22, 15, 12 except 23=-112(LC 12),

14=-110(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 18, 19, 20, 21, 22, 23, 15, 14, 12

Truss Type

10-11-15

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; 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 10-11-15, Corner(3) 10-11-15 to 15-4-12, Exterior(2) 15-4-12 to 22-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 18, 20, 21, 22, 15, 12 except (jt=lb) 23=112, 14=110.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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



Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647896 J0421-2506 G2GDR FINK 3 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:44 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-MnUGQq4uluNekB7tuQHydbKsDAxA10qTFRkJxMzOBgL 5-10-14 11-0-0 22-Ó-0 16-1-2 5-10-14 5-1-2 5-10-14 Scale = 1:39.8 5x8 || 3 6.00 12 2x4 N 2x4 // 9 8 10 11 7 6 12 13 14 4x8 = 4x8 = 8x8 = 8x8 = 6x8 =9-0-0 13-0-0 22-0-0 9-0-0 4-0-0 9-0-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

(loc)

5-7

5-7

5-7

5

-0.13

-0.27

0.04

-0.01

I/defI

>999

>980

>999

n/a

L/d

360

240

n/a

240

PLATES

Weight: 463 lb

MT20

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

GRIP

244/190

FT = 20%

LUMBER-

Plate Offsets (X,Y)--

20.0

10.0

0.0

10.0

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP 2400F 2.0E WEBS 2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=74(LC 5)

Max Grav 1=5332(LC 2), 5=7713(LC 2)

[7:0-2-0,0-6-4], [8:0-2-0,0-6-4]

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2-0-0

1.15

1.15

NO

SPACING-

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

TOP CHORD 1-2=-10455/0, 2-3=-10366/0, 3-4=-11456/0, 4-5=-11590/0

BOT CHORD 1-8=0/9151, 7-8=0/7954, 5-7=0/10206 WEBS 2-8=-149/373, 3-8=0/3676, 3-7=0/6393, 4-7=-

WEBS 2-8=-149/373, 3-8=0/3676, 3-7=0/6393, 4-7=-194/296

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

CSI.

TC

BC

WB

Matrix-S

0.39

0.70

0.57

- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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); Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2881 lb down at 8-1-8, 1441 lb down at 9-11-4, 1441 lb down at 13-11-4, 1441 lb down at 15-11-4, and 1441 lb down at 17-11-4, and 1441 lb down at 19-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)

Vert: 1-5=-20, 1-3=-60, 3-5=-60

Concentrated Loads (lb)

Vert: 6=-1177(F) 9=-2354(F) 10=-1177(F) 11=-1177(F) 12=-1177(F) 13=-1177(F) 14=-1177(F)



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

Design valid for use only with Mil 16k8 connectors. Inis 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 parenters 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

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818 Soundside Road Edenton, NC 27932

Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:46 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-IAc1rW59GWdMzVHG0rKQj0QECzkrV03mjlDQ?FzOBgJ -0-10-8 0-10-8 8-0-0 16-0-0 8-0-0 8-0-0 0-10-8 Scale = 1:29.7 5x5 = 3 6.00 12 6 4x6 =2x4 || 4x6 =16-0-0 8-0-0 8-0-0 Plate Offsets (X,Y)--[2:0-0-4,0-0-11], [4:0-0-4,0-0-11] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI 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 WB 0.13 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 90 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

Qty

4

Ply

Weaver/Lot 2 Atkins Farm Estates/JoCo

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 9-6-0 oc bracing.

E15647897

LUMBER-

Job

J0421-2506

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No.1 WFBS 2x4 SP No.2

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-57(LC 10)

Truss

P1

Truss Type

COMMON

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

WFBS 3-6=-478/381

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) -0-8-10 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
- 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) except (jt=lb)
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



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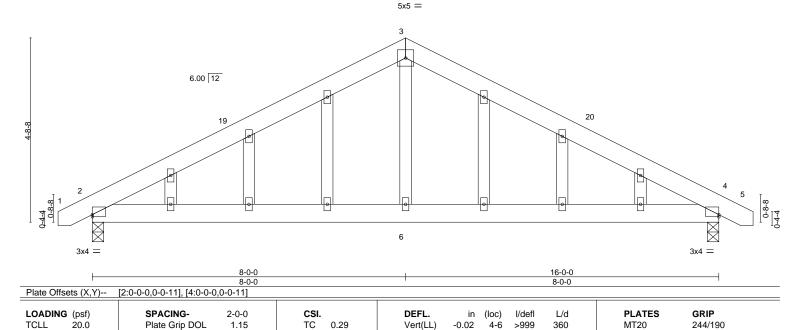
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647898 J0421-2506 P1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:47 2021 Page 1 Comtech, Inc.

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-mMAP2s6n1plDbfsSZYrfFEyOyN34EU4vxPzzYhzOBgl -0-10-8 0-10-8 8-0-0 8-0-0 16-0-0 8-0-0 0-10-8

Scale = 1:29.4



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.05

0.01

0.03

4-6

2-6

>999

>999

n/a

240

n/a

240

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 106 lb

FT = 20%

LUMBER-

OTHERS

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WFBS

10.0

0.0

10.0

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)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

2x4 SP No.2

WEBS 3-6=0/381

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

BC

WB

Matrix-S

0.24

0.09

- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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



PB1 9 J0421-2506 **PIGGYBACK** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:48 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-EYjnGB7Po7t4CpRe7GMuoRVZLnPvzxH2A3iX47zOBgH 8-11-15 <u>17-11-15</u> 8-11-15 9-0-0 Scale = 1:31.4 4x6 = 6.00 12 12 1-6-0 2x4 || 2x4 || 3 0-1-10 3x4 =10 9 8 3x4 =11 2x4 || 2x4 || 2x4 || 3x4 =17-11-15 Plate Offsets (X,Y)--[5:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.20 Vert(CT) -0.00 120 n/r WB 0.09 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 62 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

Qty

Ply

Weaver/Lot 2 Atkins Farm Estates/JoCo

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

E15647899

REACTIONS. All bearings 16-0-12.

2x4 SP No 1

2x4 SP No.1

2x4 SP No.2

(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)

Truss Type

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-

TOP CHORD

BOT CHORD

OTHERS

Job

Truss

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) 2, 6 except (jt=lb) 11=105, 8=105,
- Non Standard bearing condition. Review required.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





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Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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

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Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647900 PB2 3 J0421-2506 **PIGGYBACK** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:49 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-ilH9TX81ZR?xqy0rhzt7Kf2k1BmmiOdCPjS4cZzOBgG 8-11-15 12-10-7 8-11-15 3-10-8 Scale = 1:28.4 4x4 = 6.00 12 2x4 || 2x4 || 0-1-10 0-1-10 8 6 3x4 =2x4 || 2x4 || 2x4 || 12-10-7 12-10-7 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.16 Vert(CT) -0.00 n/r 120 WB 0.08 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a 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 2x4 SP No.2 WFBS **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.

4-7=-277/173, 3-8=-356/285 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 12-7-3 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 (it=lb) 8=103.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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



Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647901 PB3 J0421-2506 **PIGGYBACK** 5 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:51 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-e7PwuD9I52Ff3GADoOvbQ474W_SCAI7Vs1xBhSzOBgE 8-11-15 13-1-15 8-11-15 4-2-0 Scale = 1:28.4 4x4 = 6.00 12 2x4 || 5 2x4 || 0-4-3 0-1-10 0-1-10 7 6 8 3x4 = 2x4 2x4 || 2x4 || 13-1-15 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.16 Vert(CT) -0.00 n/r 120 WB 0.08 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 50 lb FT = 20%

LUMBER-

BRACING-

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

2x4 SP No.2

BOT CHORD

WFBS **OTHERS** 2x4 SP No.2 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; 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 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 (it=lb) 8=104.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







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Job Truss Truss Type Qty Ply Weaver/Lot 2 Atkins Farm Estates/JoCo E15647902 J0421-2506 PB4 **PIGGYBACK** 2 2 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:52 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-7KzI5ZAwsMNVhQlQM5RqyHglBOpivmEe5hgkDuzOBgD 12-10-7 8-11-15 3-10-8 Scale = 1:28.4 5x5 = 6.00 12 2x4 || 5 10 2x4 || 0-1-10 0-1-10 8 6 3x4 =2x4 || 2x4 || 2x4 || 12-10-7 12-10-7 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 0.00 n/r 120 MT20 244/190

LUMBER-

OTHERS

TCDL

BCLL

BCDL

BRACING-

Vert(CT)

Horz(CT)

-0.00

0.00

TOP CHORD 2x6 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 WFBS

0.0

10.0

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

120

n/a

except end verticals

n/r

n/a

6

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)

2x4 SP No.2

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-111(LC 12)

1.15

YES

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.

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

4-7=-282/182, 3-8=-349/301 **WEBS**

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

вс

WB

Matrix-S

0.08

0.03

- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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) 0-6-2 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
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Weight: 121 lb

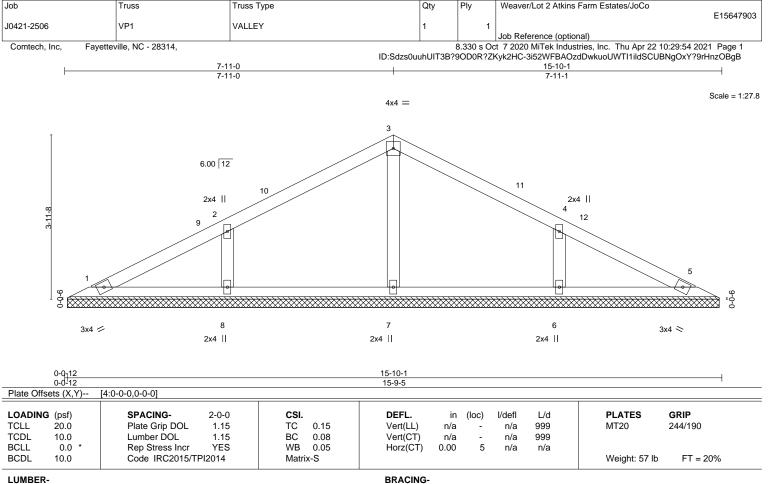
FT = 20%

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

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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 1 2x4 SP No.1

BOT CHORD 2x4 SP No.2 OTHERS

REACTIONS. All bearings 15-8-9.

(lb) -Max Horz 1=-48(LC 10)

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=272(LC 1), 8=344(LC 23), 6=344(LC 24)

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

WEBS 2-8=-260/202, 4-6=-260/202

NOTES-

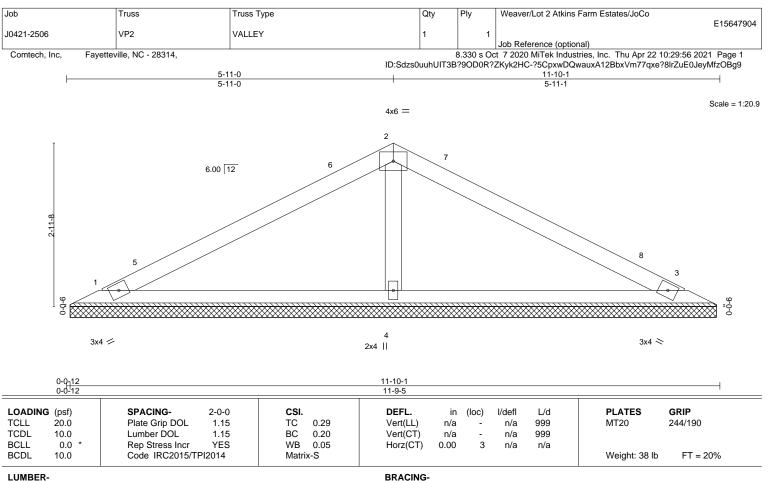
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-11-0, Exterior(2) 7-11-0 to 12-3-13, Interior(1) 12-3-13 to 15-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2 **OTHERS**

> (size) 1=11-8-9, 3=11-8-9, 4=11-8-9 Max Horz 1=35(LC 11) Max Uplift 1=-26(LC 12), 3=-32(LC 13)

Max Grav 1=195(LC 23), 3=195(LC 24), 4=456(LC 1)

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

WEBS 2-4=-302/187

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



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E15647905 J0421-2506 VP3 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Apr 22 10:29:58 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-xUKZMcFhSC8fPLCZjMXECYwJSps8JTmXTd73QYzOBg7 3-11-0 3-11-0 7-10-1 Scale = 1:14.8 4x4 = 2 6.00 12 3 9-0-0 9-0-0 2x4 / 2x4 || 2x4 > 7-10-1 7-9-5 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) n/a n/a 999 **BCLL** WB 0.02 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 24 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Weaver/Lot 2 Atkins Farm Estates/JoCo

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

REACTIONS.

Job

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS**

2x4 SP No.2 (size) 1=7-8-9, 3=7-8-9, 4=7-8-9

Truss

Truss Type

Max Horz 1=-21(LC 8) Max Uplift 1=-21(LC 12), 3=-25(LC 13)

Max Grav 1=133(LC 1), 3=133(LC 1), 4=256(LC 1)

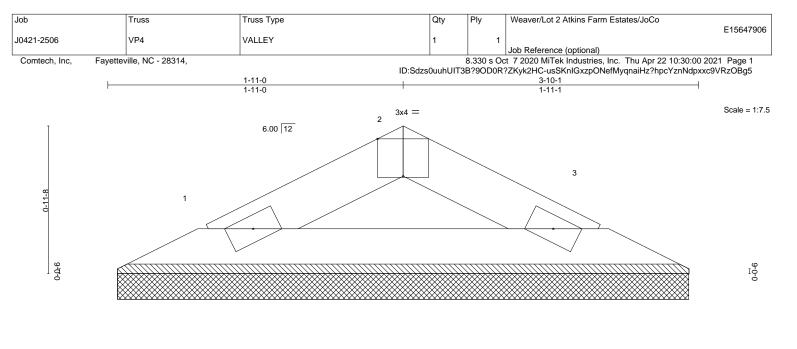
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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.







2x4 🖊 2x4 >

3-10-1

Plate Oil	Plate Offsets (A, Y) [2:0-2-0,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 1 BOT CHORD 2x4 SP No.1 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-10-1 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-8-9, 3=3-8-9

Max Horz 1=8(LC 9)

Max Uplift 1=-6(LC 12), 3=-6(LC 13) Max Grav 1=101(LC 1), 3=101(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; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.



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

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

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



Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

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

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



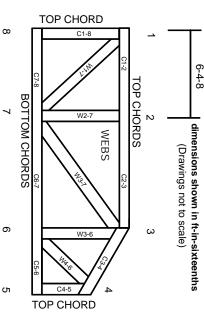
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other.
- 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.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.