

RE: J0822-4434

Wellco/Lot 148 Hidden Lakes/Harnett

Trenco 818 Soundside Rd Edenton, NC 27932

**Site Information:** 

Customer: Project Name: J0822-4434

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 37 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I53121381	A1	7/16/2022	21	I53121401	VA3	7/16/2022
2	I53121382	A1A	7/16/2022	22	I53121402	VA4	7/16/2022
3	I53121383	A1GE	7/16/2022	23	I53121403	VA5	7/16/2022
4	I53121384	A2	7/16/2022	24	153121404	VA6	7/16/2022
5	I53121385	A3	7/16/2022	25	I53121405	VA7	7/16/2022
6	I53121386	A3X	7/16/2022	26	I53121406	VB1	7/16/2022
7	I53121387	A4	7/16/2022	27	153121407	VB2	7/16/2022
8	I53121388	A4X	7/16/2022	28	I53121408	VB3	7/16/2022
9	I53121389	A5	7/16/2022	29	153121409	VB4	7/16/2022
10	I53121390	A5X	7/16/2022	30	I53121410	VB5	7/16/2022
11	I53121391	A6	7/16/2022	31	I53121411	VB6	7/16/2022
12	I53121392	A6GE	7/16/2022	32	153121412	VB7	7/16/2022
13	I53121393	B1GE	7/16/2022	33	I53121413	VB8	7/16/2022
14	I53121394	B2GDR	7/16/2022	34	153121414	VB9	7/16/2022
15	I53121395	P1	7/16/2022	35	I53121415	VP1	7/16/2022
16	I53121396	P1GE	7/16/2022	36	I53121416	VP2	7/16/2022
17	153121397	PB1	7/16/2022	37	153121417	VP3	7/16/2022
18	I53121398	PB1GE	7/16/2022				
19	I53121399	VA1	7/16/2022				
20	153121400	VA2	7/16/2022				

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

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



July 16, 2022

Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121381 J0822-4434 PIGGYBACK BASE 6 A1 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:09 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-VsS9\_y7EGGxjSZvAogonaYUzi4nL1FUSRfHnumyxsW4

35-2-4 6-10-4

42-0-12

6-10-8

48-11-4

6-10-8

28-4-0

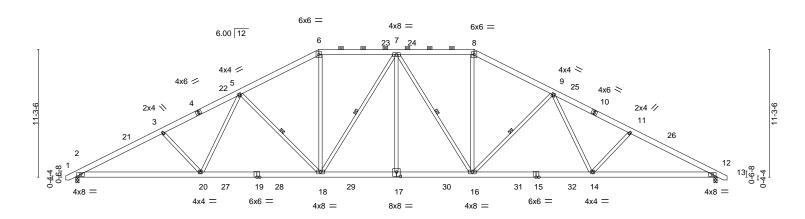
6-10-4

Scale = 1:101.8

0-10-8

56-8-0

7-8-12



1	11-2-0	21-5-12	28-4-0	35-2-4	45-6-0	56-8-0	
	11-2-0	10-3-12	6-10-4	6-10-4	10-3-12	11-2-0	
Plate Offsets (X,							

Plate Offs	sets (X,Y)	[17:0-4-0,0-4-8]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.27 1	18-2Ó	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.45 1	18-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.13	17	>999	240	Weight: 430 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

TOP CHORD 2x6 SP 2400F 2 0F BOT CHORD 2x6 SP 2400F 2.0E

2x4 SP No.2 WFBS

-0<sub>-</sub>10-8 0-10-8

7-8-12

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=-145(LC 10) Max Uplift 2=-111(LC 12), 12=-111(LC 13)

Max Grav 2=2420(LC 2), 12=2420(LC 2)

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

14-7-4

6-10-8

21-<u>5-12</u>

6-10-8

TOP CHORD 2-3=-4696/1021, 3-5=-4470/1004, 5-6=-3587/927, 6-7=-3150/900, 7-8=-3150/900,

8-9=-3587/927. 9-11=-4470/1004. 11-12=-4696/1021

BOT CHORD 2-20=-818/4117, 18-20=-673/3663, 17-18=-473/3348, 16-17=-473/3348, 14-16=-666/3663,

12-14=-810/4117

WEBS 3-20=-368/249, 5-20=-53/654, 5-18=-790/334, 6-18=-197/1227, 7-18=-529/142,

 $7\text{-}17\text{=}0/378, \, 7\text{-}16\text{=-}529/142, \, 8\text{-}16\text{=-}197/1227, \, 9\text{-}16\text{=-}790/334, \, 9\text{-}14\text{=-}52/654, \, 9\text{-}16\text{=-}790/334, \, 9\text{-}14\text{=-}790/334, \, 9\text{-}14\text$ 

11-14=-368/249

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 57-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 2 and 111 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (5-9-6 max.): 6-8.

1 Row at midpt

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

July 16,2022



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121382 J0822-4434 PIGGYBACK BASE A1A Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

28-4-0

6-10-4

21-5-12

6-10-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:10 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-\_20YBl8s1Z3a4jUMLNJ06m08BT6amifcgJ1KQCyxsW3 35-2-4 42-0-12 48-11-4 57-6-8 0-10-8 6-10-4 6-10-8 6-10-8 7-8-12

Structural wood sheathing directly applied or 4-7-0 oc purlins, except

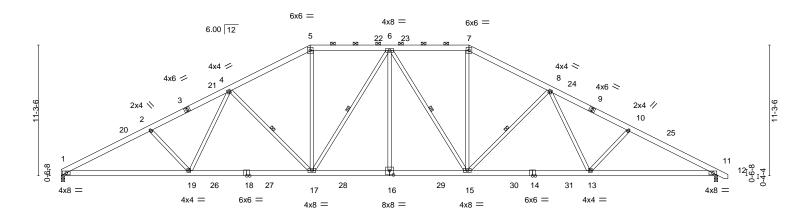
4-17, 6-17, 6-15, 8-15

2-0-0 oc purlins (5-9-6 max.): 5-7.

1 Row at midpt

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

Scale = 1:99.4



	I	11-2-0	21-5-12	1	28-4-0	35-2-4	1	45-6-0	)	56-8-0	1
		11-2-0	10-3-12		6-10-4	6-10-4	1	10-3-1	2	11-2-0	
Plate Offs	sets (X,Y)	[16:0-4-0,0-4-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.27 17-1	9 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.46 17-1	9 >999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.15	1 n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	ix-S	Wind(LL)	0.13	6 >999	240	Weight: 428 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E

7-8-12

7-8-12

14-7-4

6-10-8

2x4 SP No.2 WFBS

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=-146(LC 10)

Max Uplift 1=-99(LC 12), 11=-111(LC 13) Max Grav 1=2377(LC 2), 11=2420(LC 2)

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

TOP CHORD 1-2=-4701/1044, 2-4=-4473/1009, 4-5=-3588/928, 5-6=-3151/901, 6-7=-3150/904,

7-8=-3587/932, 8-10=-4470/1008, 10-11=-4697/1026

BOT CHORD 1-19=-822/4122. 17-19=-673/3665. 16-17=-473/3348. 15-16=-473/3348. 13-15=-670/3664.

11-13=-814/4117

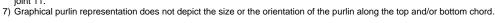
WEBS 2-19=-372/271, 4-19=-68/656, 4-17=-790/333, 5-17=-200/1227, 6-17=-529/139,

 $6\text{-}16\text{=}0/378,\ 6\text{-}15\text{=-}529/142,\ 7\text{-}15\text{=-}197/1227,\ 8\text{-}15\text{=-}790/334,\ 8\text{-}13\text{=-}52/654,}$ 

10-13=-368/249

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 57-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 1 and 111 lb uplift at







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 to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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

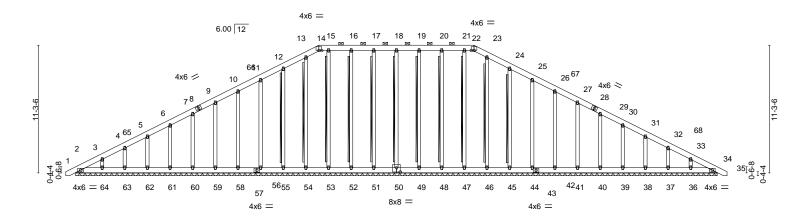
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121383 J0822-4434 A1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:13 2022 Page 1 Comtech, Inc.

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-OdhgqKAkKUR9xADx1VtjkOehphDcz7Z2MHF\_1XyxsW0 -0<sub>-</sub>10-8 0-10-8 56-8-0 21-5-12 21-5-12 0-10-8

Scale = 1:101.8



56-8-0 56-8-0 Plate Offsets (X Y)-- [50:0-4-0 0-4-8]

1 late On	3013 (71, 1)	[50.0 + 0,0 + 0]										
LOADIN	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	.15	TC	0.07	Vert(LL)	0.00	34	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.	.15	BC	0.03	Vert(CT)	0.00	34	n/r	120		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.14	Horz(CT)	0.01	34	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	14	Matri	k-S						Weight: 548 lb	FT = 20%

LUMBER-TOP CHORD

2x6 SP No 1 2x6 SP No.1 BOT CHORD OTHERS 2x4 SP No 2 **BRACING-**

TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-22.

Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace:

2x4 SPF No.2 - 18-50, 17-51, 16-52, 15-53 13-54, 12-55, 19-49, 20-48, 21-47, 23-46,

24-45

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 56-8-0.

Max Horz 2=-225(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 2, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 49, 48, 45, 44, 42, 41, 40, 39, 38, 37, 36

All reactions 250 lb or less at joint(s) 2, 34, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 49, 48, 47, 46, 45, 44, 42, 41, 40, 39, 38, 37,

36

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

TOP CHORD 2-3=-310/105, 10-11=-94/291, 11-12=-115/351, 12-13=-137/413, 13-14=-142/420,

14-15=-132/418, 15-16=-132/418, 16-17=-132/418, 17-18=-132/418, 18-19=-132/418,

19-20=-132/418, 20-21=-132/418, 21-22=-132/418, 22-23=-142/422, 23-24=-137/415,

24-25=-115/353, 25-26=-94/294

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 4-11-6, Exterior(2) 4-11-6 to 21-5-12, Corner(3) 21-5-12 to 27-1-12, Exterior(2) 27-1-12 to 35-2-4, Corner(3) 35-2-4 to 40-10-4, Exterior(2) 40-10-4 to 57-4-10 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 49, 48, 45, 44, 42, 41, 40, 39, 38, 37, 36.

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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

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





Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 148 Hidden Lakes/Harnett
		0.5.5		l .	I53121383
J0822-4434	A1GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:14 2022 Page 2 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-spF21fBN5oa0YKo7aDOyHcBsZ5ZriZpBbx?YZ\_yxsW?

### NOTES-

12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121384 J0822-4434 A2 PIGGYBACK BASE 2 Job Reference (optional)

28-4-0

6-10-4

Fayetteville, NC - 28314, Comtech, Inc. 7-8-12

7-8-12

14-7-4

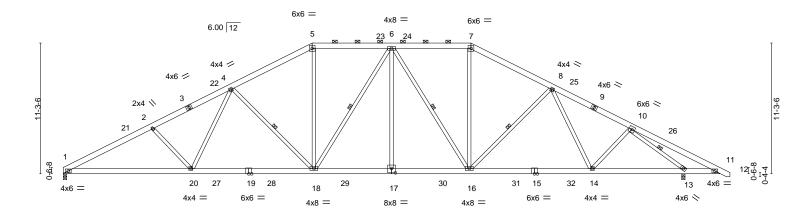
6-10-8

21-5-12

6-10-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:15 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-K0pQF?C?s6itAUMK8wvBppky4UqwRuhLqbk56QyxsW\_ 35-2-4 42-0-12 48-11-4 56-8-0 57-6-8 0-10-8 6-10-4 6-10-8 6-10-8 7-8-12

Scale = 1:99.4



L		11-2-0	21-5-12	1	28-4-0	35-2-4	1	45-6-0	1	53-8-0	56-8-0
		11-2-0	10-3-12		6-10-4	6-10-4	'	10-3-12		8-2-0	3-0-0
Plate Offse	ets (X,Y)	[17:0-4-0,0-4-8]									
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	0.40	Vert(LL)	-0.26 18-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.44 18-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.12 13	n/a	n/a		
BCDL	10.0	Code IRC2015/	TPI2014	Matri	x-S	Wind(LL)	0.11 18	>999	240	Weight: 437 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x6 SP No 1

BOT CHORD 2x6 SP 2400F 2 0F

2x4 SP No 2 WFBS

REACTIONS. (size) 1=0-3-8, 13=0-3-8

Max Horz 1=-146(LC 10) Max Uplift 1=-101(LC 12), 13=-116(LC 13)

Max Grav 1=2252(LC 2), 13=2547(LC 2)

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

TOP CHORD 1-2=-4432/981, 2-4=-4204/946, 4-5=-3313/854, 5-6=-2903/834, 6-7=-2751/810,

7-8=-3145/827, 8-10=-3322/746, 10-11=-346/328 **BOT CHORD** 

 $1-20 = -758/3884,\ 18-20 = -608/3422,\ 17-18 = -396/3027,\ 16-17 = -396/3027,\ 14-16 = -502/2938,$ 13-14=-449/2568, 11-13=-205/412

**WEBS**  $2-20 = -373/272,\ 4-20 = -69/660,\ 4-18 = -795/335,\ 5-18 = -172/1112,\ 6-18 = -395/139,$ 6-17=0/375, 6-16=-644/182, 7-16=-146/1037, 8-16=-355/229, 10-14=0/517,

10-13=-3540/987

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 57-4-10 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=101, 13=116.

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



Structural wood sheathing directly applied or 3-4-9 oc purlins, except

4-18, 6-18, 6-16, 8-16, 10-13

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

2-0-0 oc purlins (4-5-15 max.): 5-7.

6-0-0 oc bracing: 11-13.

1 Row at midpt

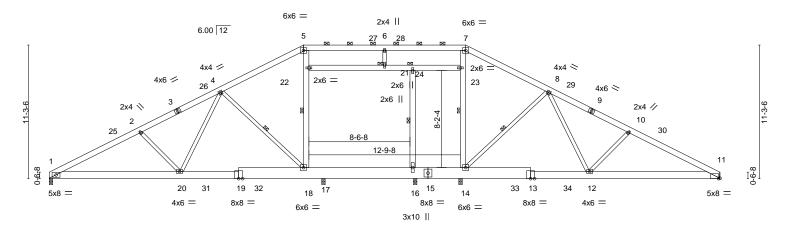
July 16,2022



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121385 J0822-4434 **ROOF TRUSS** 4 A3 Job Reference (optional) Comtech, Inc.

Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:16 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-oCNpSLDddPqkoexWieQQM1GAYu8qANFU2FUedsyxsVz

Scale = 1:97.3



	11-2-0 11-2-0	23-0-4 11-10-		31-0-12 8-0-8	34-10-12 35-2-4 3-10-0 0-3-8	45-6-0 10-3-12	56-8-0 11-2-0	
Plate Offsets (X,Y)	[11:0-1-6,Edge]							
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DC Lumber DOL Rep Stress In Code IRC201	1.15 cr YES	CSI. TC 0.23 BC 0.44 WB 0.52 Matrix-S	DEFL. Vert(LL) Vert(CT Horz(CT Wind(LL	0.01 11	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 523 lb	<b>GRIP</b> 244/190 FT = 20%

**BOT CHORD** 

**WEBS** 

JOINTS

LUMBER-BRACING-2x6 SP No 1 TOP CHORD

TOP CHORD **BOT CHORD** 2x8 SP No.1 \*Except\*

13-15,15-19: 2x12 SP No.1

WFBS 2x4 SP No.2 \*Except\*

5-18,7-14,22-23,16-24: 2x6 SP No.1

REACTIONS. All bearings 0-3-8 except (jt=length) 11=Mechanical.

Max Horz 1=140(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 14=-102(LC 13)

All reactions 250 lb or less at joint(s) except 1=763(LC 24), 14=1531(LC 2), 11=707(LC 25), Max Grav

16=764(LC 27), 17=2238(LC 2)

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

TOP CHORD  $1\hbox{-}2\hbox{--}1183/234, 2\hbox{-}4\hbox{--}866/194, 4\hbox{-}5\hbox{--}4/501, 5\hbox{-}6\hbox{--}0/442, 6\hbox{-}7\hbox{--}0/442, 7\hbox{-}8\hbox{--}5/502, }$ 

8-10=-716/176, 10-11=-1018/218

**BOT CHORD** 1-20=-139/976, 18-20=-37/389, 17-18=-379/356, 16-17=-379/356, 14-16=-379/356, 12-14=0/299, 11-12=-86/850

18-22=-812/213, 5-22=-607/225, 6-21=-400/226, 14-23=-516/166, 7-23=-612/227,

8-14=-798/341, 8-12=-83/680, 10-12=-436/286, 16-24=-715/48, 4-18=-874/358,

4-20=-101/788, 2-20=-423/284

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 21-22, 21-24, 23-24; Wall dead load (5.0psf) on member(s). 18-22, 16-24
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 16-17
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 14=102.
- 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, except

18-22, 7-14, 8-14, 16-24, 4-18

2-0-0 oc purlins (10-0-0 max.): 5-7.

1 Row at midpt

1 Brace at Jt(s): 21, 24

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

July 16,2022

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

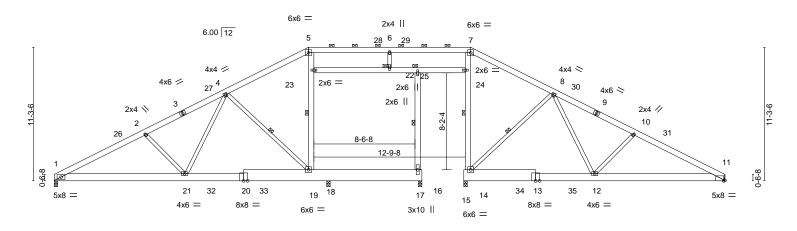
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121386 J0822-4434 **ROOF TRUSS** 0 A3X Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:17 2022 Page 1 Comtech, Inc.

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-GOxBghDFOjybPoWiGLxfuEpLNIUevqXeHvDC9lyxsVy

Scale = 1:97.3



⊢		11-2-0	23-0-4				34-10-12 35-2-4	45-6		56-8-0	
		11-2-0	11-10-4	1	1	8-0-8	3-10-0 0-3 <sup>1</sup> -8	10-3	-12	11-2-0	
Plate Offse	ets (X,Y)	[11:0-1-6,Edge]									
		1									
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	0.22	Vert(LL)	-0.07 19-2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.12 19-2°	>999	240		
BCLL	0.0 *	Rep Stress Inc	YES	WB	0.52	Horz(CT	0.03 1	1 n/a	n/a		
BCDL	10.0	Code IRC2015	/TPI2014	Matrix-	S	Wind(LL)	0.03 19-2	>999	240	Weight: 506 lb	FT = 20%

**BOT CHORD** 

**WEBS** 

JOINTS

LUMBER-BRACING-TOP CHORD 2x6 SP No 1 TOP CHORD

**BOT CHORD** 2x8 SP No.1 \*Except\*

13-15,16-20: 2x12 SP No.1

WFBS 2x4 SP No.2 \*Except\*

5-19,7-14,23-24,17-25: 2x6 SP No.1

REACTIONS. All bearings 0-3-8 except (jt=length) 11=Mechanical.

Max Horz 1=140(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14 except 1=-117(LC 12), 11=-178(LC 13)

All reactions 250 lb or less at joint(s) except 1=877(LC 24), 14=1014(LC 2), 11=854(LC 25), Max Grav

17=825(LC 27), 18=2035(LC 20)

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

TOP CHORD  $1-2 = -1428/604, \ 2-4 = -1113/564, \ 4-5 = -213/453, \ 5-6 = -159/436, \ 6-7 = -1$ 

7-8=-212/434, 8-10=-1129/533, 10-11=-1400/574

**BOT CHORD** 1-21=-412/1197, 19-21=-245/624, 12-14=-235/611, 11-12=-404/1181 **WEBS** 19-23=-632/48, 5-23=-427/69, 6-22=-397/222, 14-24=-338/0, 7-24=-432/52

8-14=-844/329, 8-12=-65/750, 10-12=-433/285, 17-25=-711/43, 4-19=-863/342,

4-21=-77/771, 2-21=-420/281

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 5-9-12, Interior(1) 5-9-12 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 22-23, 22-25, 24-25; Wall dead load (5.0psf) on member(s). 19-23, 17-25
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 17-18
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 1=117, 11=178,
- 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, except

19-23, 7-14, 8-14, 17-25, 4-19

2-0-0 oc purlins (10-0-0 max.): 5-7.

1 Row at midpt

1 Brace at Jt(s): 22, 25

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.

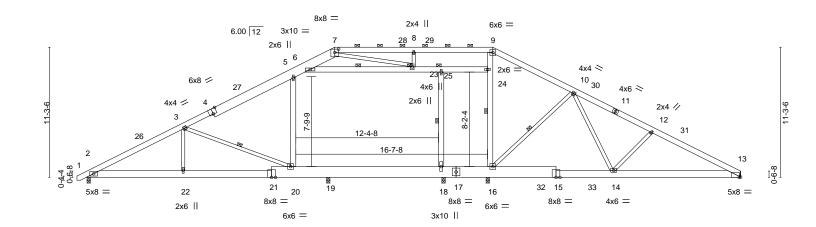
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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12

Scale = 1:99.9



		8-4-0	18-1-4	20-9-4	31-0-12		34-10-12 35 <sub>†</sub> 2-4	45-€		56-8-0	
	1	8-4-0	9-9-4	2-8-0	10-3-8	1	3-10-0 0-3 <sup>1</sup> -8	10-3	-12	11-2-0	<u>'</u>
Plate Offs	sets (X,Y)	[4:0-4-0,Edge], [7:0-4-	0,0-3-8], [13:0-1	-6,Edgel							
			•								
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	0.24	Vert(LL)	-0.10 20-22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.23 20-22	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.03 13	n/a	n/a		
BCDL	10.0	Code IRC2015	/TPI2014	Matrix	x-S	Wind(LL)	0.09 20-22	>999	240	Weight: 545 lb	FT = 20%

LUMBER- BRACING-

TOP CHORD 2x6 SP No.1 \*Except\* 4-7; 2x10 SP No.1

BOT CHORD 2x8 SP No.1 \*Except\*

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

15-17,17-21: 2x12 SP No.1 7-8-13 oc bracing: 19-20
WEBS 2x4 SP No.2 \*Except\* 6-8-13 oc bracing: 18-19.

5-20,9-16,6-24,18-25: 2x6 SP No.1 WEBS 1 Row at midpt 3-20, 9-16, 10-16, 6-23, 18-25 JOINTS 1 Brace at Jt(s): 23, 25

TOP CHORD

**REACTIONS.** All bearings 0-3-8 except (jt=length) 13=Mechanical.

(lb) - Max Horz 2=146(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 16=-149(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=1065(LC 24), 16=1169(LC 24), 13 1051(LC 24), 18 1075(LC 27), 10 2065(LC 20)

21), 13=1051(LC 1), 18=1075(LC 27), 19=2065(LC 20)

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

TOP CHORD 2-3=-1803/260, 3-5=-730/132, 5-6=-753/254, 6-7=-618/266, 7-8=-541/259, 8-9=-542/259, 9-10=-636/262, 10-12=-1469/369, 12-13=-1770/410

BOT CHORD 2-22=-135/1514, 20-22=-135/1514, 19-20=0/548, 18-19=0/548, 16-18=0/548,

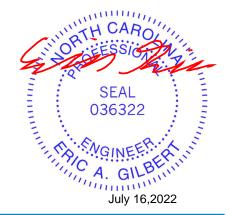
14-16=-39/987, 13-14=-258/1522

WEBS 3-20=-1059/315, 5-20=-743/245, 8-23=-394/243, 9-24=-266/148, 10-16=-781/336,

10-14=-73/662, 12-14=-434/285, 3-22=0/511, 18-25=-827/49

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; BCDL=6.0psf; L=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-23, 23-25, 24-25; Wall dead load (5.0psf) on member(s).5-20, 18-25
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 18-19
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 16=149.
- 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 5-6-5 oc purlins, except

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

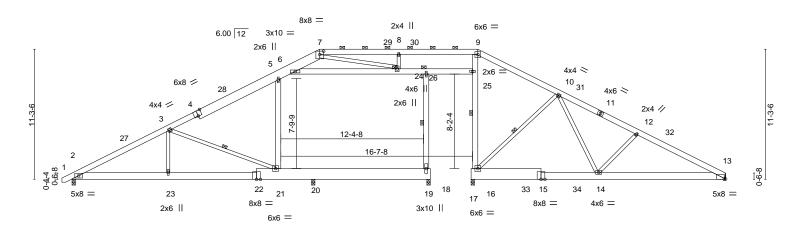
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual 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 Wellco/Lot 148 Hidden Lakes/Harnett 153121388 J0822-4434 **ROOF TRUSS** 0 A4X Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:20 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-hzcJljG7heKAGFFHxTVMWtRsXVS06694ztSsmdyxsVv

Scale = 1:99.9



		8-4-0	18-1-4	1 20-9-4	31-0-12	34-10-12 35 <sub>1</sub> 2-4	45-6-0	56-8-0	
	1	8-4-0	9-9-4	2-8-0	10-3-8	3-10-0 0-3 <sup>L</sup> 8	10-3-12	11-2-0	l l
Plate Offs	sets (X,Y)	[4:0-4-0,Edge], [7:0-4	-0,0-3-8], [13:0-1	-6,Edge]					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DE	FL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DO	_ 1.15	TC 0.2	23 Ver	t(LL) -0.13 21-23	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.6	S8 Ver	t(CT) -0.27 21-23	>907 240		
BCLL	0.0 *	Rep Stress Inc	r YES	WB 0.8	B5 Hor	z(CT) 0.08 13	n/a n/a		
BCDL	10.0	Code IRC201	5/TPI2014	Matrix-S	Wir	nd(LL) 0.10 21-23	>999 240	Weight: 528 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No 1 \*Except\* 4-7: 2x10 SP No.1

2x8 SP No.1 \*Except\* **BOT CHORD** 

15-17,18-22: 2x12 SP No.1

**WEBS** 2x4 SP No.2 \*Except\*

5-21,9-16,6-25,19-26: 2x6 SP No.1

**BRACING-**TOP CHORD BOT CHORD

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

2-0-0 oc purlins (10-0-0 max.): 7-9.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-6-12 oc bracing: 20-21

5-8-15 oc bracing: 19-20.

WEBS 1 Row at midpt 3-21, 9-16, 10-16, 19-26 **JOINTS** 1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

Max Horz 2=146(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 16 except 13=-177(LC 13) Max Grav All reactions 250 lb or less at joint(s) except 2=812(LC 24), 16=956(LC 21), 13=856(LC 25), 19=1086(LC 27), 20=2184(LC 20)

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

TOP CHORD 2-3=-1273/468, 3-5=-170/358, 5-6=-306/435, 6-7=-450/332, 7-8=-169/431, 8-9=-169/430, 9-10=-212/433, 10-12=-1130/532, 12-13=-1401/574

**BOT CHORD** 2-23=-280/1041, 21-23=-280/1041, 14-16=-235/610, 13-14=-404/1182

**WEBS** 3-21=-1129/304, 5-21=-886/192, 8-24=-395/243, 16-25=-273/0, 9-25=-440/47,

10-16=-839/330, 10-14=-65/751, 12-14=-435/285, 3-23=0/540, 6-24=0/377, 7-24=-402/0,

19-26=-934/15

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-24, 24-26, 25-26; Wall dead load (5.0psf) on member(s).5-21, 19-26
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-21, 19-20
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16 except (jt=lb) 13=177.
- 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.



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

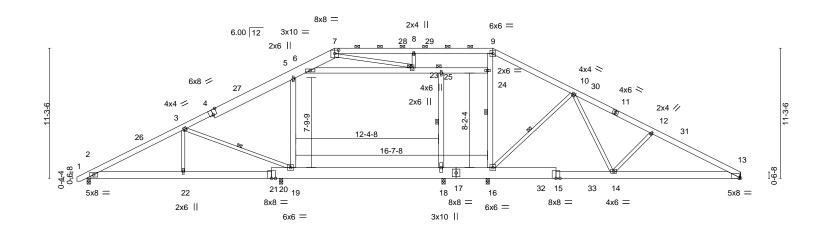
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121389 J0822-4434 **ROOF TRUSS** 2 A5 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:21 2022 Page 1 Comtech, Inc.

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-9AAiV3GmRyS0uPqTVB0b34z17vqJrb2DCXBPI4yxsVu 48-11-4 6-10-8

Scale = 1:99.9



		8-4-0	0-8-4	18-1-4	31-0-12		34-10-12 3574-4	45-	<b>6-</b> 0	0-8-0	
		8-4-0	8-4-4	Կ-5-0 <sup>l</sup>	12-11-8		3-10-0 0-3 <sup>1</sup> -8	10-3	3-12	11-2-0	1
Plate Offs	sets (X,Y)	[4:0-4-0,Edge], [7:0-4-0,	0-3-8], [13:0- <sup>-</sup>	I-6,Edge]							
LOADING	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	0.24	Vert(LL)	-0.10 18-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.17 18-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02 13	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matr	ix-S	Wind(LL)	0.03 2-22	>999	240	Weight: 545 lb	FT = 20%

BOT CHORD

**WEBS** 

**JOINTS** 

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x6 SP No 1 \*Except\* 4-7: 2x10 SP No.1

2x8 SP No.1 \*Except\* **BOT CHORD** 

15-17,17-21: 2x12 SP No.1

**WEBS** 2x4 SP No.2 \*Except\*

5-19,9-16,6-24,18-25: 2x6 SP No.1

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

Max Horz 2=146(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 16=-219(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=771(LC 24), 16=786(LC

25), 13=919(LC 25), 18=2049(LC 2), 20=1711(LC 20)

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

TOP CHORD 2-3=-1022/165, 3-5=-343/111, 5-6=-441/179, 6-7=-466/236, 9-10=-271/159, 10-12=-1194/271, 12-13=-1487/313

**BOT CHORD** 2-22=-82/820, 20-22=-82/842, 19-20=-82/820, 18-19=-64/291, 16-18=-64/291,

14-16=0/718. 13-14=-171/1269

**WEBS** 3-19=-661/292, 5-19=-917/295, 8-23=-386/241, 9-24=-391/178, 10-16=-806/337,

10-14=-77/700, 12-14=-434/286, 3-22=-1/270, 18-25=-848/52

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-23, 23-25, 24-25; Wall dead load (5.0psf) on member(s).5-19, 18-25
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 16=219.
- 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, except

3-19, 9-16, 10-16, 18-25

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

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

6-0-0 oc bracing: 18-19,16-18.

1 Row at midpt

1 Brace at Jt(s): 23, 25

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

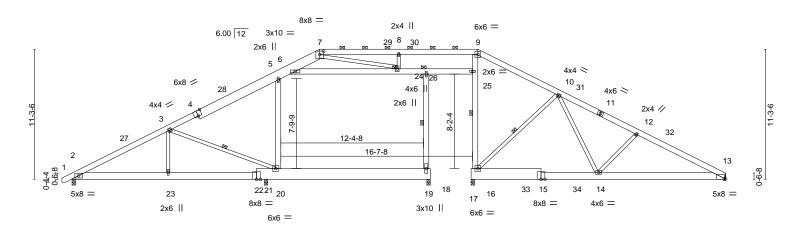
Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the 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 Wellco/Lot 148 Hidden Lakes/Harnett 153121390 J0822-4434 **ROOF TRUSS** 0 A5X Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:23 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-5YISwkl0zZik7j\_scc238V3MRjRJJU6WfrgWNyyxsVs

Scale = 1:99.9



		8-4-0	16-8-4	18-1-4	31-0-12		34-10-12 3574-4	45-	b-U	0-8-0	
		8-4-0	8-4-4	Կ-5-0 <sup>l</sup>	12-11-8		3-10-0 0-3 <sup>1</sup> -8	10-3	3-12	11-2-0	1
Plate Offsets	s (X,Y)	[4:0-4-0, Edge], [7:0-4-0	0-3-8], [13:0-1	-6,Edgel							
				T							
LOADING (	psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.17 19-20	>975	360	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.28 19-20	>597	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.05 13	n/a	n/a		
BCDL 1	0.0	Code IRC2015/7	PI2014	Matr	ix-S	Wind(LL)	0.03 13-14	>999	240	Weight: 528 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No 1 \*Except\* 4-7: 2x10 SP No.1

2x8 SP No.1 \*Except\* **BOT CHORD** 

15-17,18-22: 2x12 SP No.1 2x4 SP No.2 \*Except\*

5-20,9-16,6-25,19-26: 2x6 SP No.1

TOP CHORD

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

3-20, 9-16, 10-16, 19-26

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

5-2-13 oc bracing: 19-20.

WEBS 1 Row at midpt **JOINTS** 1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

(lb) -Max Horz 2=146(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-107(LC 12), 13=-177(LC

Max Grav All reactions 250 lb or less at joint(s) except 2=653(LC 1), 16=964(LC 21),

13=858(LC 25), 19=1462(LC 26), 21=1924(LC 20)

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

TOP CHORD 2-3=-751/471, 3-5=-161/356, 5-6=-316/437, 6-7=-401/321, 7-8=-199/437, 8-9=-199/437,

9-10=-218/435, 10-12=-1133/534, 12-13=-1405/576

**BOT CHORD** 2-23=-276/579, 21-23=-276/611, 20-21=-276/579, 14-16=-236/613, 13-14=-406/1185 **WEBS** 3-20=-627/299, 5-20=-947/209, 8-24=-386/241, 16-25=-284/0, 9-25=-435/46,

10-16=-839/331, 10-14=-65/750, 12-14=-434/285, 6-24=0/342, 7-24=-341/0,

19-26=-877/0

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-24, 24-26, 25-26; Wall dead load (5.0psf) on member(s).5-20, 19-26
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=107, 13=177.
- 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.



July 16,2022

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Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121391 J0822-4434 **ROOF TRUSS** 3 A6 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:24 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-Zlsq84JektqblsY2AJZlhjbR57kU2\_AguUQ3vPyxsVr 56-8-0

35-2-4

6-10-4

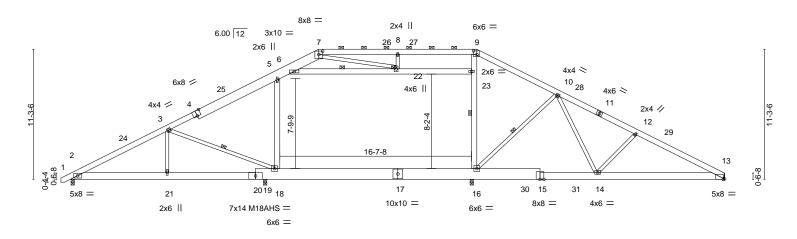
28-4-0

6-10-4

Scale = 1:99.9

7-8-12

56-8-0



8-4-	,	8-4-4 1	<del>-</del> 5-0 1	16-9-8	0-3-8	10-3-12	11-2-0	
Plate Offsets (X,Y) [4:0	-4-0,Edge], [7:0-4-0	,0-3-8], [9:0-3-8	,0-3-12], [13:0-1-6,Edge]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/7	2-0-0 1.15 1.15 YES	CSI. TC 0.58 BC 0.97 WB 0.59 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.30 16-18 -0.47 16-18 0.06 13 0.03 13-14	I/defl L/d >730 360 >461 240 n/a n/a >999 240	PLATES MT20 M18AHS Weight: 525 lb	<b>GRIP</b> 244/190 186/179 FT = 20%

34-10-12

LUMBER-**BRACING-**

16-8-4

1<sub>1</sub>8-1-4

18-1-4

9-9-4

21-5-12

3-4-8

TOP CHORD 2x6 SP No 1 \*Except\* 4-7: 2x10 SP No.1

-0<sub>7</sub>10-8 0-10-8

8-4-0

8-4-0

2x8 SP No.1 \*Except\* **BOT CHORD** 

8-4-0

15-17,17-20: 2x12 SP No.1

**WEBS** 2x4 SP No.2 \*Except\*

5-18,9-16,6-23: 2x6 SP No.1

TOP CHORD

**BOT CHORD** 

**WEBS** 

Structural wood sheathing directly applied or 4-8-10 oc purlins,

except

35<sub>[</sub>2-4

42-Ó-12

6-10-8

48-11-4

6-10-8

2-0-0 oc purlins (5-2-11 max.): 7-9.

45-6-0

Rigid ceiling directly applied or 2-2-0 oc bracing. 1 Row at midpt 3-18, 16-23, 10-16, 6-22

**JOINTS** 1 Brace at Jt(s): 22

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

Max Horz 2=146(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 13

Max Grav All reactions 250 lb or less at joint(s) except 2=1180(LC 24), 16=2051(LC

21), 13=1351(LC 25), 19=1906(LC 20)

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

TOP CHORD 2-3=-1869/333, 3-5=-1375/215, 5-6=-1451/340, 6-7=-849/291, 7-8=-1396/365,

8-9=-1396/364, 9-10=-1349/328, 10-12=-2108/485, 12-13=-2412/527 **BOT CHORD** 2-21=-151/1570, 19-21=-151/1587, 18-19=-151/1570, 16-18=-24/1172, 14-16=-149/1602,

13-14=-362/2097

**WEBS** 3-18=-431/292, 5-18=-869/303, 16-23=-280/129, 10-16=-640/362, 10-14=-126/533,

12-14=-446/285, 6-22=-597/131, 7-22=-163/845

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 29-5-15 to 35-2-4, Exterior(2) 35-2-4 to 43-2-7, Interior(1) 43-2-7 to 56-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-22, 22-23; Wall dead load (5.0psf) on member(s).5-18, 16-23
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
- 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, 13.
- 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.



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Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121392 J0822-4434 **GABLE** A6GE Job Reference (optional)

Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:27 2022 Page 1 Comtech, Inc.

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-\_KXzm6LW1oCAcKHdrR7?ILDyLKmBFLw6aSekWjyxsVo 18-1-4 21-5-12 28-4-0 35-2-4 42-0-12 48-11-4 56-8-0 8-4-0 8-4-0 9-9-4 3-4-8 6-10-4 6-10-4 6-10-8 6-10-8 7-8-12

Scale = 1:100.7

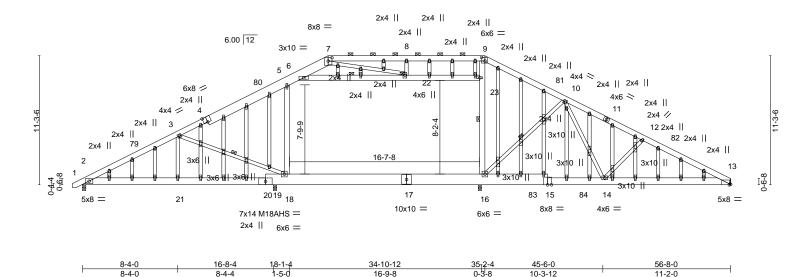


Plate Offs	Plate Offsets (X,Y) [4:0-4-0,Edge], [7:0-4-0,0-3-8], [9:0-3-8,0-3-12], [13:0-1-6,Edge]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.30 16-18	>730	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.47 16-18	>461	240	M18AHS	186/179	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.06 13	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-S	Wind(LL)	0.05 13-14	>999	240	Weight: 648 lb	FT = 20%	

TOP CHORD

**BOT CHORD** 

WEBS

**JOINTS** 

except

1 Row at midpt

1 Brace at Jt(s): 22

16-9-8

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 \*Except\* 4-7: 2x10 SP No.1

**BOT CHORD** 2x8 SP No.1 \*Except\*

8-4-0

15-17,17-20: 2x12 SP No.1

**WEBS** 2x4 SP No.2 \*Except\* 5-18,9-16,6-23: 2x6 SP No.1

**OTHERS** 2x4 SP No.2

-0<sub>1</sub>10-8 0-10-8

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

Max Horz 2=232(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-135(LC 9), 13=-171(LC

8), 19=-137(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 2=1180(LC 24), 16=2029(LC

21), 13=1351(LC 25), 19=1882(LC 2)

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

2-3=-1869/455, 3-5=-1375/338, 5-6=-1451/412, 6-7=-849/367, 7-8=-1396/453,

8-9=-1396/453, 9-10=-1348/397, 10-12=-2108/739, 12-13=-2412/830

**BOT CHORD** 2-21=-331/1570, 19-21=-331/1587, 18-19=-331/1570, 16-18=-204/1172, 14-16=-187/1602,

13-14=-581/2097

3-18=-431/524, 5-18=-869/526, 16-23=-280/267, 9-23=-45/269, 10-16=-640/564,

10-14=-270/533, 12-14=-446/466, 6-22=-597/131, 7-22=-187/845

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 4-11-6, Exterior(2) 4-11-6 to 21-5-12, Corner(3) 21-5-12 to 27-1-12, Exterior(2) 27-1-12 to 35-2-4, Corner(3) 35-2-4 to 40-10-4, Exterior(2) 40-10-4 to 56-7-4 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 MT20 plates unless otherwise indicated.
- 6) All plates are 2x6 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-22, 22-23; Wall dead load (5.0psf) on member(s). 5-18, 16-23
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18



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



minim

July 16,2022

SEAL

Edenton, NC 27932

11-2-0

10-3-12

2-0-0 oc purlins (5-2-11 max.): 7-9.

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

Structural wood sheathing directly applied or 4-8-10 oc purlins,

3-18, 16-23, 10-16, 6-22

ORTH

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 148 Hidden Lakes/Harnett
					I53121392
J0822-4434	A6GE	GABLE	1	1	
					Llob Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:27 2022 Page 2 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-\_KXzm6LW1oCAcKHdrR7?ILDyLKmBFLw6aSekWjyxsVo

### NOTES-

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=135, 13=171, 19=137.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  15) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121393 J0822-4434 B1GE COMMON SUPPORTED GAB Job Reference (optional)

5x5 =

10-0-8

10-0-8

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:28 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-SW5LzSM9o5K1EUspP9eErZmGQkLw\_vFFp6OH2AyxsVn 20-1-0

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

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.

2x4 SPF No.2 - 7-18, 6-19, 8-17

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

Brace must cover 90% of web length.

10-0-8

Scale = 1:68.0

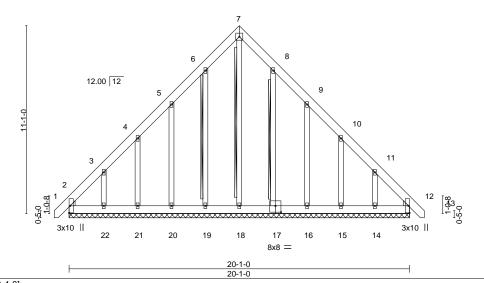


Plate Off	Plate Offsets (X,Y) [17:0-4-0,0-4-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 197 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

T-Brace:

WFBS

LUMBER-

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

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. All bearings 20-1-0.

(lb) - Max Horz 2=-324(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 17, 12 except 2=-125(LC 10)

19=-106(LC 12), 20=-154(LC 12), 21=-135(LC 12), 22=-228(LC 12), 16=-159(LC

13), 15=-134(LC 13), 14=-222(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 21, 22, 17, 16, 15, 14

except 2=306(LC 12), 12=270(LC 13)

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

TOP CHORD 2-3=-444/267, 11-12=-398/264

**BOT CHORD** 2-22=-202/315, 21-22=-204/315, 20-21=-205/316, 19-20=-205/316, 18-19=-205/316,

17-18=-205/316, 16-17=-207/317, 15-16=-207/317, 14-15=-206/316, 12-14=-205/315

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- gable end zone and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 10-0-8, Corner(3) 10-0-8 to 14-5-5, Exterior(2) 14-5-5 to 20-10-2 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12 except (jt=lb) 2=125, 19=106, 20=154, 21=135, 22=228, 16=159, 15=134, 14=222.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/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 Plv Wellco/Lot 148 Hidden Lakes/Harnett 153121394 J0822-4434 B2GDR FINK 2 Job Reference (optional)

5x8 ||

Fayetteville, NC - 28314, Comtech, Inc.

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10-0-8 14-10-8 4-10-0 4-10-0

Scale = 1:69.8

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

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

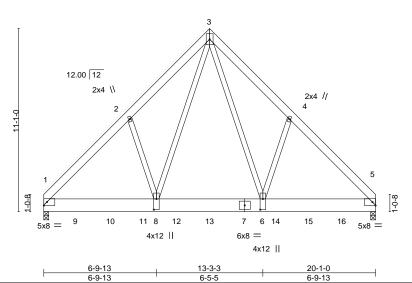


Plate Offsets (X,Y)-- [6:0-7-12,0-2-0], [8:0-7-12,0-2-0]

LOADING TCLL	20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.20	DEFL. Vert(LL)	in -0.05	(loc) 1-8	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.31	Vert(CT)	-0.11	1-8	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.52	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.03	1-8	>999	240	Weight: 386 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No 1 BOT CHORD 2x10 SP 2400F 2.0E WFBS 2x4 SP No.2

REACTIONS. (size)

1=0-3-8, 5=0-3-8 Max Horz 1=249(LC 7)

Max Grav 1=6205(LC 1), 5=6066(LC 1)

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

TOP CHORD 1-2=-6252/0, 2-3=-5992/47, 3-4=-6011/0, 4-5=-6274/0 **BOT CHORD** 1-8=0/4168 6-8=0/2952 5-6=0/4181

**WEBS** 2-8=-246/389, 3-8=-398/4190, 3-6=0/4239, 4-6=-234/394

### 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: 2x10 - 2 rows staggered at 0-7-0 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1331 lb down and 44 lb up at 1-11-4, 1331 lb down and 44 lb up at 3-11-4, 1331 lb down and 44 lb up at 5-11-4, 899 lb down and 56 lb up at 7-11-4, 899 lb down and 56 lb up at 9-11-4, 1031 lb down and 49 lb up at 11-11-4, 1289 lb down at 13-11-4, and 1289 lb down at 15-11-4, and 1289 lb down at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) 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: 7=-1031(B) 9=-1331(B) 10=-1331(B) 11=-1331(B) 12=-899(B) 13=-899(B) 14=-1289(B) 15=-1289(B) 16=-1289(B)

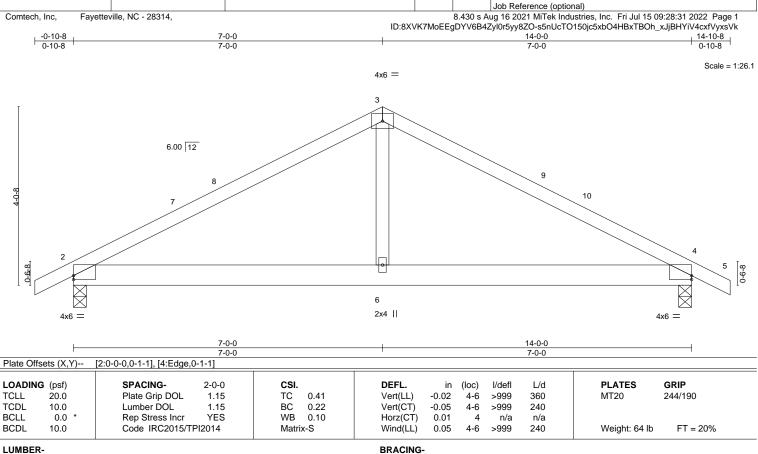


July 16,2022

⚠ 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** 

Qty

4

Ply

Wellco/Lot 148 Hidden Lakes/Harnett

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

Rigid ceiling directly applied or 9-11-12 oc bracing.

153121395

LUMBER-

Job

J0822-4434

TOP CHORD 2x4 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=-51(LC 10)

Truss

P1

Truss Type

COMMON

Max Uplift 2=-125(LC 9), 4=-125(LC 8) Max Grav 2=610(LC 1), 4=610(LC 1)

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

TOP CHORD 2-3=-772/772 3-4=-772/772 **BOT CHORD** 2-6=-552/592. 4-6=-552/592

WFBS 3-6=-462/352

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-0-0, Exterior(2) 7-0-0 to 11-4-13, Interior(1) 11-4-13 to 14-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=125, 4=125.



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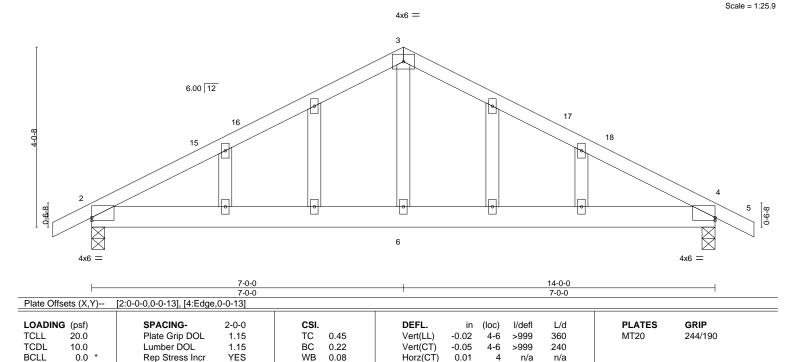


Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121396 J0822-4434 P1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:32 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-KHLsppPfsKrTi5Abe?iA?Pxs7Lfywj9rkkMUBxyxsVj

14-0-0

7-0-0

14-10-8 0-10-8



Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.03

2-6

>999

240

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

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

Weight: 75 lb

FT = 20%

LUMBER-

**OTHERS** 

BCDL

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

10.0

-0-10-8

0-10-8

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=80(LC 16)

Max Uplift 2=-141(LC 12), 4=-141(LC 13)

Max Grav 2=610(LC 1), 4=610(LC 1)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-772/461, 3-4=-772/461 **BOT CHORD** 2-6=-211/592, 4-6=-211/592

2x4 SP No.2

**WEBS** 3-6=-11/352

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 7-0-0, Corner(3) 7-0-0 to 11-4-13, Exterior(2) 11-4-13 to 14-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7-0-0

7-0-0

- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 4=141.



July 16,2022



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121397 J0822-4434 PB1 **PIGGYBACK** 19 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:32 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-KHLsppPfsKrTi5Abe?iA?PxtbLfYwkUrkkMUBxyxsVj 6-10-4 6-10-4 13-8-8 6-10-4 Scale = 1:23.1 4x6 =3 6.00 12 10 0-4-3 0-1-10 3x4 = 3x4 = 2x4 || 13-8-8 13-8-8 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 0.35 Vert(LL) 0.02 5 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.25 Vert(CT) 0.03 n/r 120 WB 0.06 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 4 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 44 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.2 **OTHERS** REACTIONS. (size) 2=11-9-6, 4=11-9-6, 6=11-9-6 Max Horz 2=43(LC 11)

Max Uplift 2=-38(LC 12), 4=-46(LC 13)

Max Grav 2=258(LC 23), 4=258(LC 24), 6=508(LC 1)

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

**WEBS** 3-6=-328/176

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 6-10-4, Exterior(2) 6-10-4 to 11-3-1, Interior(1) 11-3-1 to 13-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) 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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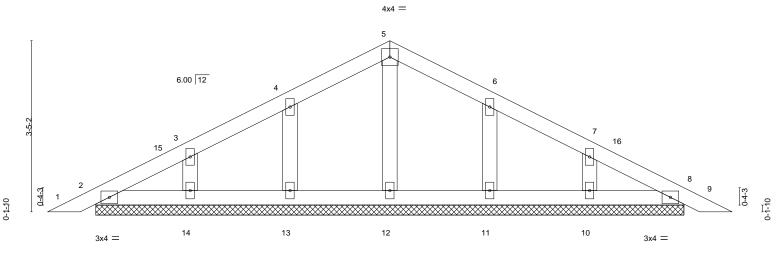


Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121398 J0822-4434 PB1GE **GABLE** 2 Job Reference (optional) Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:33 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-oTvE09QHdezJKFlnCiDPYcT7Jl2KfBI\_zO52jNyxsVi

13-8-8 6-10-4

Scale = 1:23.1



10-0-0											
LOADIN	IG (psf)	SPACING- 2-0-	CSI		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	5 TC	0.03	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	5 BC	0.02	Vert(CT)	0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr YE	S WB	0.02	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Mat	rix-S						Weight: 52 lb	FT = 20%

13-8-8

LUMBER-

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

**BRACING-**

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

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

REACTIONS. All bearings 11-9-6.

Max Horz 2=66(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

6-10-4 6-10-4

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-15 to 4-10-4, Interior(1) 4-10-4 to 6-10-4, Exterior(2) 6-10-4 to 11-3-1, Interior(1) 11-3-1 to 13-4-9 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- 10) 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.

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 danage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/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 Wellco/Lot 148 Hidden Lakes/Harnett 153121399 J0822-4434 VA1 **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:35 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-ls0\_RrRY8FD1ZZuAJ7Gtd1ZTeYjk73\_HQia9oGyxsVg

7-6-10 7-6-10 7-6-10

4x4 =

Scale = 1:44.5

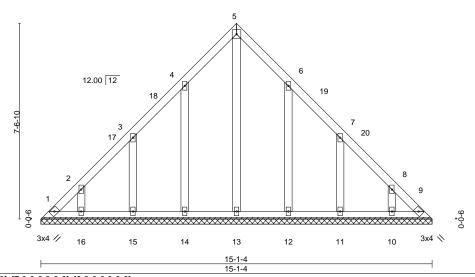


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 90 lb	FT = 20%

LUMBER-TOP CHORD BOT CHORD

OTHERS

2x4 SP No 1 2x4 SP No.1 2x4 SP No.2 **BRACING-**

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

REACTIONS. All bearings 15-1-4.

(lb) -Max Horz 1=-216(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-142(LC 12), 15=-144(LC 12), 16=-124(LC 12), 12=-140(LC 13), 11=-145(LC 13), 10=-124(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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

TOP CHORD 1-2=-289/179. 8-9=-255/169

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-6-10, Exterior(2) 7-6-10 to 11-11-7, Interior(1) 11-11-7 to 14-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=142, 15=144, 16=124, 12=140, 11=145, 10=124.





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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/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 Tru	uss	Truss Type	Qty	Ply	Wellco/Lot 148 Hidden Lakes/Harnett
	_	<u>-</u>			I53121400
J0822-4434 VA	<del>\</del> 2	VALLEY	1	1	
					Job Reference (optional)
Comtech, Inc, Fayetteville	, NC - 28314,			8.430 s A	ug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:36 2022 Page 1
•			ID:8XVK7Mol	EgDYV6B	4Zyl0r5yy8ZO-D2aNfBSAvZLuBiTMtqn6AF5cxy11sXyRfMKiKiyxsVf
	1	6-6-10	1	13-1-4	
		6-6-10		6-6-10	
		4	1x4 =		Scale = 1:41.1
			3		
	Ţ		<b>→</b>		

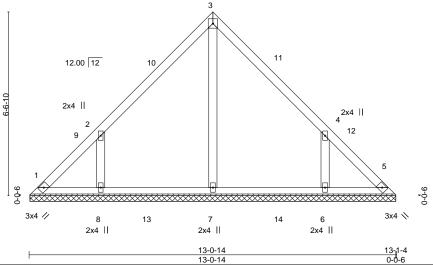


Plate Offsets (X,Y)	[4:0-0-0,0-0-0]		10 0 14			
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.14 BC 0.15	DEFL. Vert(LL) Vert(CT)	in (loc) l/de n/a - n/ n/a - n/	a 999	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.09 Matrix-S	Horz(CT)	n/a - n/ 0.00 5 n/		Weight: 60 lb FT = 20%

LUMBER-

**OTHERS** 

TOP CHORD 2x4 SP No 1 BOT CHORD

2x4 SP No.1 2x4 SP No.2 **BRACING-**

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

REACTIONS. All bearings 13-0-8.

(lb) -Max Horz 1=-149(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-163(LC 12), 6=-163(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=386(LC 19), 8=376(LC 19), 6=376(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-358/290, 4-6=-358/290 **WEBS** 

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-6-10, Exterior(2) 6-6-10 to 10-11-7, Interior(1) 10-11-7 to 12-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=163, 6=163.







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/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 Wellco/Lot 148 Hidden Lakes/Harnett 153121401 J0822-4434 VA3 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:36 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-D2aNfBSAvZLuBiTMtqn6AF5cny2\_sYORfMKiKiyxsVf 5-6-10 11-1-4 5-6-10 5-6-10

4x4 =

3 11 12.00 12 2x4 || 2x4 12 3x4 📏 3x4 // 6 2x4 || 2x4 || 2x4 || 11-0-14 11-1-4 0-0-6 11-0-14

Plate Offsets (X,Y)	[4:0-0-0,0-0-0]		11014	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.15 BC 0.09 WB 0.06	DEFL.         in (loc)         l/defl         L/           Vert(LL)         n/a         -         n/a         99           Vert(CT)         n/a         -         n/a         99           Horz(CT)         0.00         5         n/a         n/	9 MT20 244/190 9
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 49 lb FT = 20%

**BRACING-**

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 11-0-8. (lb) -Max Horz 1=-125(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-166(LC 12), 6=-166(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=347(LC 19), 6=347(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 2-8=-373/317, 4-6=-374/318

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-6-10, Exterior(2) 5-6-10 to 9-11-7, Interior(1) 9-11-7 to 10-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=166, 6=166.



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

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

Scale = 1:35.2



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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Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121402 J0822-4434 VALLEY VA4 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:37 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-hF8lsXTogsTlps2YRYlLiSemrMNZb?rat03Fs8yxsVe 4-6-10 9-1-4 4-6-10 4-6-10 Scale = 1:30.0 4x4 = 2 12.00 12 9-0-0 9-0-0 3x4 // 3x4 🚿 2x4 || 9-0-14 9-1-4 0-0-6 9-0-14 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 0.19 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.13 Vert(CT) n/a n/a 999 **BCLL** WB 0.05 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 37 lb FT = 20%

**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=9-0-8, 3=9-0-8, 4=9-0-8

Max Horz 1=101(LC 9)

Max Uplift 1=-25(LC 13), 3=-25(LC 13)

Max Grav 1=191(LC 1), 3=190(LC 1), 4=291(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 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

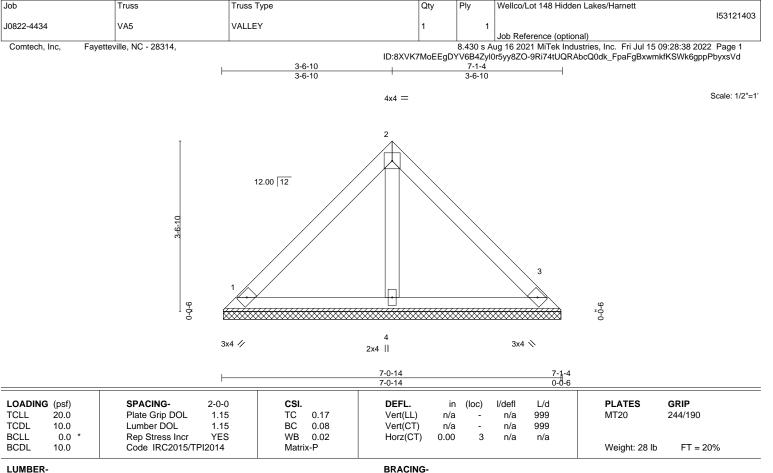
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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ANSI/TP11 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

LUMBER-

REACTIONS.

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

(size) 1=7-0-8, 3=7-0-8, 4=7-0-8

Max Horz 1=77(LC 9)

Max Uplift 1=-28(LC 13), 3=-28(LC 13)

Max Grav 1=156(LC 1), 3=156(LC 1), 4=200(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 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121404 J0822-4434 VALLEY VA6 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:39 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-ddGVHCU2CUjT2ACxYzKpntj77A5W3vytLKYMx1yxsVc 2-6-10 2-6-10 2-6-10 Scale = 1:18.1 4x4 = 2 12.00 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 📏 5-0-14 5-0-14 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 0.08 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a 999 **BCLL** WB 0.01 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 20 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=5-0-8, 3=5-0-8, 4=5-0-8

Max Horz 1=53(LC 11) Max Uplift 1=-19(LC 13), 3=-19(LC 13)

Max Grav 1=107(LC 1), 3=107(LC 1), 4=138(LC 1)

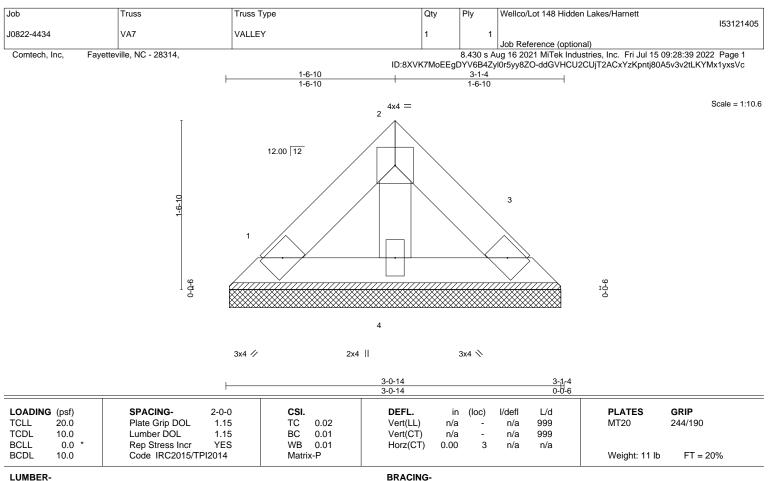
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 5-1-4 oc purlins.



TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 1=3-0-8, 3=3-0-8, 4=3-0-8

Max Horz 1=29(LC 9)

Max Uplift 1=-10(LC 13), 3=-10(LC 13) Max Grav 1=58(LC 1), 3=58(LC 1), 4=75(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 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 3-1-4 oc purlins.



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121406 J0822-4434 VB1 **GABLE** Job Reference (optional)

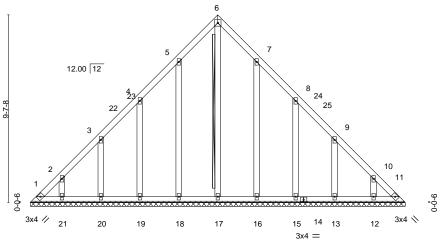
4x4 =

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8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:41 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-Z0NGiuWJk5zBIUMJgONHtloU0zm1Xn2Aoe1T0vyxsVa

9-7-8

Scale = 1:59.1



19-3-0 19-3-0

LOADING	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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-S						Weight: 129 lb	FT = 20%

LUMBER-

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

**BRACING-**

TOP CHORD **BOT CHORD** WFBS

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

2x4 SPF No.2 - 6-17 T-Brace: Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 19-3-0.

(lb) -Max Horz 1=-278(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-133(LC 10), 18=-138(LC 12), 19=-142(LC 12),

20=-141(LC 12), 21=-127(LC 12), 16=-135(LC 13), 15=-144(LC 13), 13=-141(LC 13), 12=-127(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 11, 17, 18, 19, 20, 21, 16, 15, 13, 12 except 1=262(LC 12)

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

TOP CHORD 1-2=-384/233, 2-3=-271/194, 10-11=-340/229

**BOT CHORD**  $1-21 = -170/259,\ 20-21 = -170/259,\ 19-20 = -170/259,\ 18-19 = -170/259,\ 17-18 = -170/259,$ 

16-17=-170/259, 15-16=-170/259, 13-15=-170/259, 12-13=-170/259, 11-12=-170/259

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-7-8, Exterior(2) 9-7-8 to 14-0-5, Interior(1) 14-0-5 to 18-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=133, 18=138, 19=142, 20=141, 21=127, 16=135, 15=144, 13=141, 12=127.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 16,2022

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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/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 Wellco/Lot 148 Hidden Lakes/Harnett 153121407 J0822-4434 VB2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:42 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-2CxevEXxVP52vdxWD5uWPVLcPN4xGEjJ1In0YMyxsVZ 8-7-8 8-7-8 8-7-8 Scale = 1:53.5 4x4 = 3 12.00 12 2x4 || 2x4 || 5 3x4 // 3x4 \ 9 8 6 3x4 = 2x4 || 2x4 || 2x4 || 17-2-10 17-3-0 0-0-6 17-2-10 [0-0-0 0-0-0:1]

Plate Offsets (A, Y) [4:0-0-0,0-0-0]				
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 0.20	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 84 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

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

OTHERS

(lb) -

2x4 SP No.2

REACTIONS. All bearings 17-2-4. Max Horz 1=-198(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-208(LC 12), 6=-208(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=415(LC 22), 9=539(LC 19), 6=539(LC 20)

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

**WEBS** 2-9=-447/332, 4-6=-447/332

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-7-8, Interior(1) 4-7-8 to 8-7-8, Exterior(2) 8-7-8 to 13-0-5, Interior(1) 13-0-5 to 16-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=208, 6=208.



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

3-8

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

1 Row at midpt



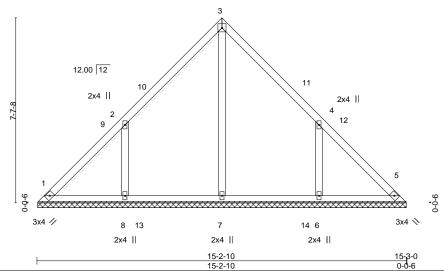
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/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 Wellco/Lot 148 Hidden Lakes/Harnett 153121408 J0822-4434 VB3 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:43 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-WPV07aXZGiDvXnVinpPlyjuornQA?iBTGyWa4oyxsVY 7-7-8 7-7-8 Scale = 1:47.5 4x4 =



LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.18 Vert(CT) n/a n/a 999 WB 0.12 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 73 lb FT = 20%

LUMBER-

Plate Offsets (X,Y)--

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

BOT CHORD 2x4 SP No.2 OTHERS

**BRACING-**

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

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

REACTIONS. All bearings 15-2-4.

(lb) -Max Horz 1=-174(LC 8)

[4:0-0-0,0-0-0]

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-182(LC 12), 6=-182(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=414(LC 22), 8=457(LC 19), 6=456(LC 20)

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

2-8=-395/305, 4-6=-395/305

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-7-8, Exterior(2) 7-7-8 to 12-0-5, Interior(1) 12-0-5 to 14-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=182, 6=182.





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/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 Wellco/Lot 148 Hidden Lakes/Harnett 153121409 J0822-4434 VB4 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:44 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-\_b3OKwYB10Lm9x4uLWw\_UwQzvBmsk9vcUcG7cEyxsVX Scale = 1:41.5 4x4 = 3 12.00 12 10 2x4 II 2x4 || 12 3x4 📏 3x4 / 8 6 2x4 || 2x4 || 2x4 || 13-2-10 13-3-0 0-0-6

			10 2 10	00	<u> </u>
Plate Offsets (X,Y)	[4:0-0-0.0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in	(loc) I/defl L/d	PLATES GRIP
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	BC 0.15	Vert(CT) n/a	- n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00	5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 61 lb FT = 20%

13-2-10

LUMBER-

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

BOT CHORD 2x4 SP No.2 OTHERS

**BRACING-**

TOP CHORD **BOT CHORD** 

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

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

REACTIONS. All bearings 13-2-4.

(lb) -Max Horz 1=-150(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-164(LC 12), 6=-164(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=389(LC 19), 8=380(LC 19), 6=380(LC 20)

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

**WEBS** 2-8=-360/290, 4-6=-360/291

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-7-8, Exterior(2) 6-7-8 to 11-0-5, Interior(1) 11-0-5 to 12-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=164.



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/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 Wellco/Lot 148 Hidden Lakes/Harnett 153121410 J0822-4434 VB5 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:45 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-SndmYGZpoKTcm5f5vDRD18z8Ya75TcbljG?g9hyxsVW 11-3-0 5-7-8 Scale = 1:35.6 4x4 = 3 12.00 12 2x4 || 2x4 | 4 12 3x4 \ 3x4 // 6 2x4 || 2x4 || 2x4 ||

			11210	0 0	<u> </u>
Plate Offsets (X,Y) [4:0-0-0,0-0-0]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.15 BC 0.09 WB 0.07 Matrix-S	DEFL.         in (loc)           Vert(LL)         n/a -           Vert(CT)         n/a -           Horz(CT)         0.00 5	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 244/190  Weight: 49 lb FT = 20%
BCDL 10.0	Code IRC2015/1712014	Matrix-5			Weight: 49 lb F1 = 20%

11-2-10

LUMBER-TOP CHORD

2x4 SP No 1 2x4 SP No.1

BOT CHORD 2x4 SP No.2 OTHERS

**BRACING-**

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

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

REACTIONS. All bearings 11-2-4.

(lb) -Max Horz 1=126(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-164(LC 12), 6=-164(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=344(LC 19), 6=344(LC 20)

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

**WEBS** 2-8=-369/312, 4-6=-369/312

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-7-8, Exterior(2) 5-7-8 to 10-0-5, Interior(1) 10-0-5 to 10-10-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=164.





Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121411 J0822-4434 VB6 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:46 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-wzB9lcaRZdcTOFEHSxySaLWIS\_SbC41vywlEh7yxsVV 4-7-8 Scale = 1:30.4 4x4 = 2 12.00 12 9-0-0 9-0-0 3x4 📏 3x4 // 2x4 || 9-2-10 9-3-0 0-0-6 9-2-10 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 0.20 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.14 Vert(CT) n/a n/a 999 **BCLL** WB 0.05 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 38 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=9-2-4, 3=9-2-4, 4=9-2-4

Max Horz 1=-102(LC 8)

Max Uplift 1=-25(LC 13), 3=-25(LC 13)

Max Grav 1=194(LC 1), 3=194(LC 1), 4=296(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 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

153121412 J0822-4434 VB7 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:47 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-OAlXyyb3KxkK0PpT0eUh6Z2UWOpjxXk2BZUnDZyxsVU 3-7-8 3-7-8 Scale = 1:24.5 4x4 = 2 12.00 12 9-0-0 9-0-0 3x4 // 3x4 📏 2x4 || 7-2-10 7-3-0 0-0-6 7-2-10 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 0.18 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 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 Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 29 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

Qty

Ply

Wellco/Lot 148 Hidden Lakes/Harnett

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

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

LUMBER-

Job

Truss

Truss Type

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

REACTIONS.

(size) 1=7-2-4, 3=7-2-4, 4=7-2-4 Max Horz 1=78(LC 9)

Max Uplift 1=-28(LC 13), 3=-28(LC 13)

Max Grav 1=159(LC 1), 3=159(LC 1), 4=205(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 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121413 J0822-4434 VB8 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:48 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-sMJvAHbi5FsBdYOfaM?wfmbgno9bg\_BCPDELI?yxsVT Scale = 1:18.5 4x4 = 2 12.00 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 📏 5-2-10 5-2-10 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 0.08 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a 999 **BCLL** WB 0.01 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 20 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=5-2-4, 3=5-2-4, 4=5-2-4

Max Horz 1=54(LC 9)

Max Uplift 1=-20(LC 13), 3=-20(LC 13)

Max Grav 1=111(LC 1), 3=111(LC 1), 4=142(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 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 5-3-0 oc purlins.



Job Truss Truss Type Qty Ply Wellco/Lot 148 Hidden Lakes/Harnett 153121414 J0822-4434 VB9 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:48 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-sMJvAHbi5FsBdYOfaM?wfmbhgo9Lg\_MCPDELl?yxsVT 1-7-8 1-7-8 Scale = 1:10.9 3x4 2 12.00 12 3 9-0-0 9-0-0 3x4 // 3x4 📏 3-2-10 3-2-10 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 0.05 10.0 Lumber DOL 1.15 BC Vert(CT) n/a n/a 999 0.0 WB 0.00 **BCLL** Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-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 3-3-0 oc purlins.

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

REACTIONS. (size) 1=3-2-4, 3=3-2-4

Max Horz 1=-31(LC 8)

Max Uplift 1=-3(LC 12), 3=-3(LC 12) Max Grav 1=102(LC 1), 3=102(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 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



10822-4434	VP1	VALLEY	1	Job Reference (	ontional)
Comtech, Inc, Fayette	eville, NC - 28314,			8.430 s Aug 16 2021 MiTek	Industries, Inc. Fri Jul 15 09:28:49 2022 Page 1
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0-0 <sub>-</sub> 12 0-0-12			13-9-5		
Plate Offsets (X,Y) [4:	0-0-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in	(loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15		Vert(LL) n/a	- n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a	- n/a 999	
BCLL 0.0 *	Rep Stress Incr YES		Horz(CT) 0.00	5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 48 lb FT = 20%
LUMBER-		•	BRACING-		
TOP CHORD 2x4 SP N	0.1		TOP CHORD	Structural wood sheathir	ng directly applied or 6-0-0 oc purlins.

**BOT CHORD** 

Qty

Ply

Wellco/Lot 148 Hidden Lakes/Harnett

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

153121415

REACTIONS. All bearings 13-8-9.

2x4 SP No.1

2x4 SP No.2

(lb) - Max Horz 1=-41(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=284(LC 1), 8=305(LC 23), 6=305(LC 24)

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

### NOTES-

BOT CHORD

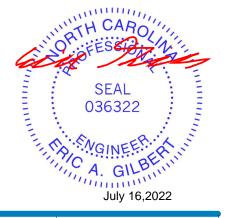
**OTHERS** 

Job

Truss

Truss Type

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 6-11-0, Exterior(2) 6-11-0 to 11-3-13, Interior(1) 11-3-13 to 13-2-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
- 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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/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 Wellco/Lot 148 Hidden Lakes/Harnett 153121416 J0822-4434 VP2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:50 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-plQfbzdycs6vtsY2hn1OkBg?fbpb8uLVtXjRquyxsVR 4-11-0 4-11-0 Scale = 1:18.0 4x4 = 2 6.00 12 9-0-0 2x4 || 3x4 / 3x4 > 0-0-12 0-0-12 9-10-1 9-9-5 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 0.19 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.13 Vert(CT) n/a n/a 999 **BCLL** WB 0.03 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 31 lb FT = 20%

LUMBER-

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

**BRACING-**

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

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

(size) 1=9-8-9, 3=9-8-9, 4=9-8-9 REACTIONS.

Max Horz 1=-28(LC 10)

Max Uplift 1=-21(LC 12), 3=-26(LC 13)

Max Grav 1=158(LC 23), 3=158(LC 24), 4=370(LC 1)

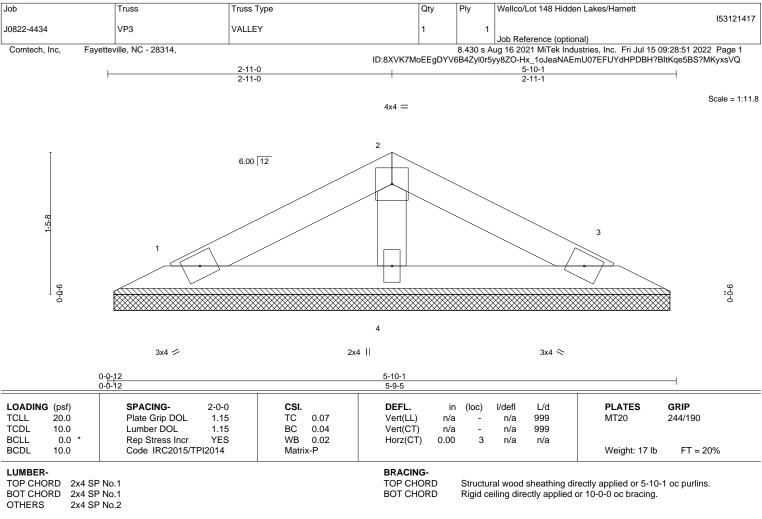
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.







(size) 1=5-8-9, 3=5-8-9, 4=5-8-9

Max Horz 1=15(LC 9)

Max Uplift 1=-15(LC 12), 3=-17(LC 13)

Max Grav 1=92(LC 1), 3=93(LC 1), 4=178(LC 1)

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

### NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



## Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE



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

# LATERAL BRACING LOCATION



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

### **BEARING**



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

## Industry Standards:

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

DSB-89: ANSI/TPI1:

# 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

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

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

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

# **General Safety Notes**

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

4.

- 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
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 13. 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
- 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.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.