

RE: J0822-4434

Wellco/Lot 123 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	I53121404	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	I53121407	VB2	7/16/2022
8	I53121388	A4X	7/16/2022	28	I53121408	VB3	7/16/2022
9	I53121389	A5	7/16/2022	29	I53121409	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	I53121412	VB7	7/16/2022
13	I53121393	B1GE	7/16/2022	33	I53121413	VB8	7/16/2022
14	I53121394	B2GDR	7/16/2022	34	I53121414	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	I53121397	PB1	7/16/2022	37	I53121417	VP3	7/16/2022
18	I53121398	PB1GE	7/16/2022				
19	I53121399	VA1	7/16/2022				

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.

VA2

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

153121400

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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 123 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

6-10-4

42-0-12

6-10-8

48-11-4

6-10-8

28-4-0

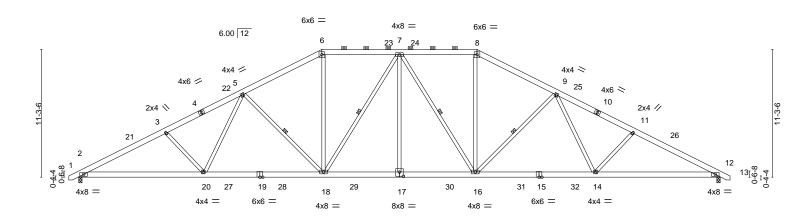
6-10-4

Scale = 1:101.8

0-10-8

56-8-0

7-8-12



	11-2-0	21-5-12	2 1 28	i-4-0 ₁ 35-2	2-4 1 4	5-6-0	56-8-0	i
	11-2-0	10-3-12	2 6-	10-4 6-10	0-4	0-3-12	11-2-0	1
Plate Offsets (X,)) [17:0-4-0,0-4-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/d	efl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.27 18-20 >99	99 360	MT20	244/190

TCDL 10.0 Lumber DOL 1.15 BC 0.37 Vert(CT) -0.45 18-20 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.40 Horz(CT) 0.15 12 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 17 >999 240 Weight: 430 lb FT = 20% 0.13

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

-0₋10-8 0-10-8

7-8-12

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

2x4 SP No 2 WFBS

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,

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

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 123 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

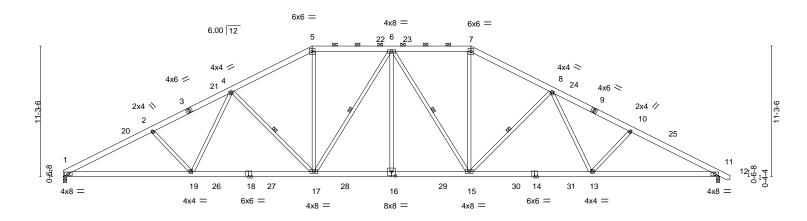
4-17, 6-17, 6-15, 8-15

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



1	11-2-0	21-5-12	28-4-0	1 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,Y)	[16:0-4-0,0-4-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL) -0.2	7 17-19 >999 360	MT20 244/190	
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT) -0.4	6 17-19 >999 240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT) 0.1	5 11 n/a n/a		
BCDL 10.0	Code IRC2015/	/TPI2014	Matrix-S	Wind(LL) 0.1	3 16 >999 240	Weight: 428 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP 2400F 2 0F 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
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



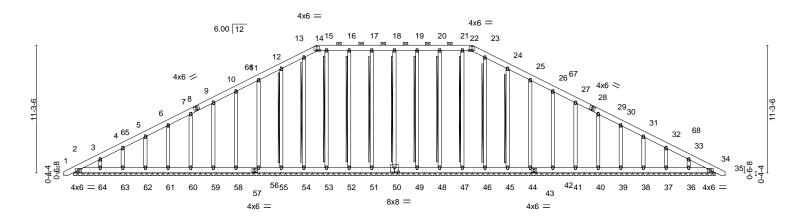
Job Truss Truss Type Qty Ply Wellco/Lot 123 Hidden Lakes/Harnett 153121383 J0822-4434 A1GE **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:13 2022 Page 1 Comtech, Inc.

Fayetteville, NC - 28314,

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-OdhgqKAkKUR9xADx1VtjkOehphDcz7Z2MHF_1XyxsW0

-0₋10-8 0-10-8 21-5-12 21-5-12 56-8-0 21-5-12 0-10-8

Scale = 1:101.8



56-8-0 56-8-0

Plate Off	sets (X,Y)	[50:0-4-0,0-4-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	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	YES	WB	0.14	Horz(CT)	0.01	34	n/a	n/a			
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	` '					Weight: 548 lb	FT = 20%	

LUMBER-

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

ORTH

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, Max Grav 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-

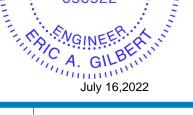
1) Unbalanced roof live loads have been considered for this design.

- 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 123 Hidden Lakes/Harnett
10000 4404	4405	CARLE	_	,	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.



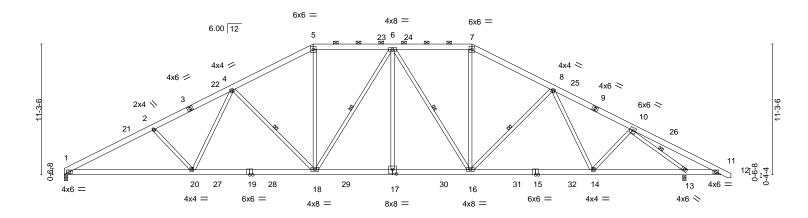
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Wellco/Lot 123 Hidden Lakes/Harnett 153121384 J0822-4434 A2 PIGGYBACK BASE 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:15 2022 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-K0pQF?C?s6itAUMK8wvBppky4UqwRuhLqbk56QyxsW_ 7-8-12 14-7-4 21-5-12 28-4-0 35-2-4 42-0-12 48-11-4 56-8-0 57-6-8 0-10-8 7-8-12 6-10-8 6-10-8 6-10-4 6-10-4 6-10-8 6-10-8 7-8-12

Scale = 1:99.4



L		11-2-0	21-5-12	28-4-	0 35-2-4		45-6-0	53-8-0	56-8-0
	l	11-2-0	10-3-12	6-10-	4 6-10-4	'	10-3-12	8-2-0	3-0-0
Plate Offs	sets (X,Y)	[17:0-4-0,0-4-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.40	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	3 n/a n/a		
BCDL	10.0	Code IRC2015/	TPI2014	Matrix-S	Wind(LL)	0.11 18	3 >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

 $2-20 = -373/272,\ 4-20 = -69/660,\ 4-18 = -795/335,\ 5-18 = -172/1112,\ 6-18 = -395/139,$

6-17=0/375, 6-16=-644/182, 7-16=-146/1037, 8-16=-355/229, 10-14=0/517,

10-13=-3540/987

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 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

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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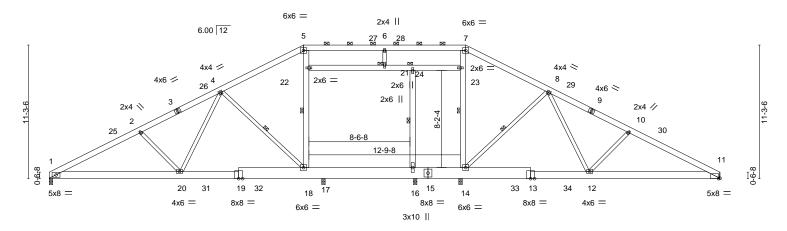
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 123 Hidden Lakes/Harnett 153121385 J0822-4434 **ROOF TRUSS** 4 A3 Job Reference (optional)

Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:16 2022 Page 1 Comtech, Inc. 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	GRIP 244/190 FT = 20%

LUMBER-BRACING-2x6 SP No 1

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

TOP CHORD

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

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt 18-22, 7-14, 8-14, 16-24, 4-18

JOINTS 1 Brace at Jt(s): 21, 24

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.



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 123 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

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

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

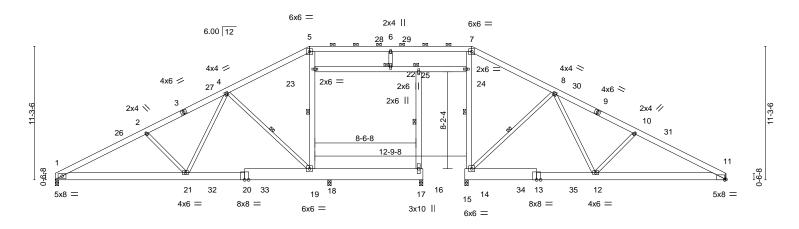
2-0-0 oc purlins (10-0-0 max.): 5-7.

1 Row at midpt

1 Brace at Jt(s): 22, 25

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

Scale = 1:97.3



	11-2-0 11-2-0	23-0-4 11-10-4		31-0-12 8-0-8	34-10-12 35 _T 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 DO Lumber DOL Rep Stress Ind Code IRC201	1.15 or YES	CSI. TC 0.2 BC 0.4 WB 0.5 Matrix-S	10 Vert(C	T) -0.12 19-21 CT) 0.03 14	>999 240 n/a n/a	PLATES MT20 Weight: 506 lb	GRIP 244/190 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.



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

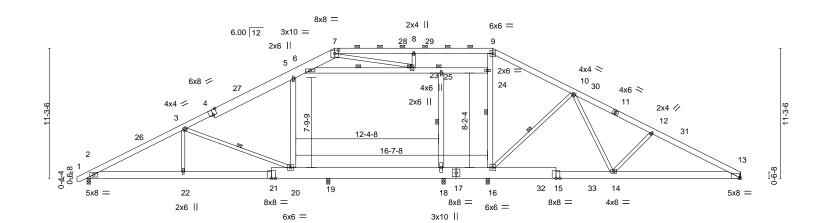
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Job Truss Truss Type Qty Ply Wellco/Lot 123 Hidden Lakes/Harnett 153121387 J0822-4434 **ROOF TRUSS** A4 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:19 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-Dn2x4NFVwKCJf5g5Nmz7_fuhi66zNhaxlDilEByxsVw

Scale = 1:99.9



		8-4-0	18-1-4	20-9-4	31-0	-12	34-10-12 35 ₁ 2-4	45-6	5-0	56-8-0	
	I	8-4-0	9-9-4	2-8-0	10-3	3-8	3-10-0 0-3 ¹ -8	10-3	-12	11-2-0	I
Plate Offsets	(X,Y)	[4:0-4-0,Edge], [7:	0-4-0,0-3-8], [13:0-1-	6,Edge]							
			• •	T							
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	0.0	Plate Grip D	OL 1.15	TC	0.24	Vert(LL)	-0.10 20-22	>999	360	MT20	244/190
TCDL 1	0.0	Lumber DO	L 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 1	0.0	Code IRC2	015/TPI2014	Matri	x-S	Wind(LL)	0.09 20-22	>999	240	Weight: 545 lb	FT = 20%

LUMBER-

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

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

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

WEBS 2x4 SP No.2 *Except*

5-20,9-16,6-24,18-25: 2x6 SP No.1

BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-6-5 oc purlins, except

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-8-13 oc bracing: 19-20

6-8-13 oc bracing: 18-19.

WEBS 1 Row at midpt 3-20, 9-16, 10-16, 6-23, 18-25 **JOINTS** 1 Brace at Jt(s): 23, 25

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=-149(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=1065(LC 24), 16=1169(LC

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,

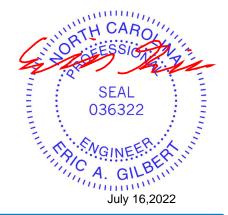
14-16=-39/987, 13-14=-258/1522

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; 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).5-20, 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.
- 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=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.



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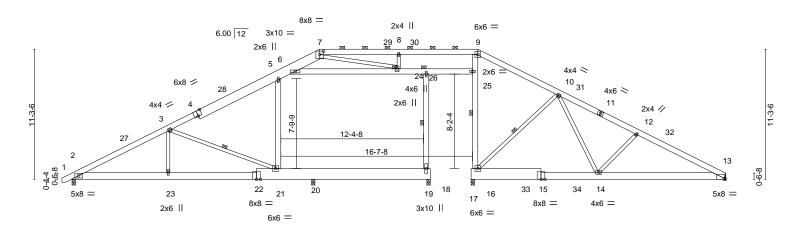
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Job Truss Truss Type Qty Ply Wellco/Lot 123 Hidden Lakes/Harnett 153121388 J0822-4434 **ROOF TRUSS** 0 A4X Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:20 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-hzcJljG7heKAGFFHxTVMWtRsXVS06694ztSsmdyxsVv

Scale = 1:99.9



		8-4-0	18-1-4	1 20-9-4	31-0-12	34-10-12 35 ₁ 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 ^L 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

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

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

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.

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-

TOP CHORD

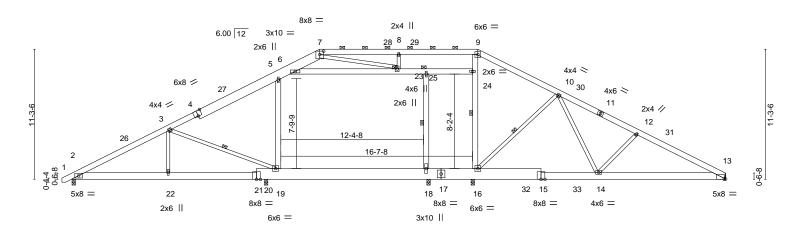
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-11-6, Interior(1) 4-11-6 to 21-5-12, Exterior(2) 21-5-12 to 29-5-15, Interior(1) 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.





Job Truss Truss Type Qty Ply Wellco/Lot 123 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

Scale = 1:99.9



		8-4-0	10-8-4	18-1-4	31-0-12		34-10-12 35 ₁ 4-4	45-	D-U	0-6-00	
		8-4-0	8-4-4	4-5-0 ^l	12-11-8		3-10-0 0-3 ¹ -8	10-3	3-12	11-2-0	1
Plate Offset	s (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.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	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/	ΓPI2014	Matr	ix-S	Wind(LL)	0.03 2-22	>999	240	Weight: 545 lb	FT = 20%
										1	

LUMBER-**BRACING-**

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 2x4 SP No.2 *Except*

WEBS

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

TOP CHORD

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

48-11-4 6-10-8

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

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

6-0-0 oc bracing: 18-19,16-18. 3-19, 9-16, 10-16, 18-25

WEBS 1 Row at midpt **JOINTS** 1 Brace at Jt(s): 23, 25

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

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-

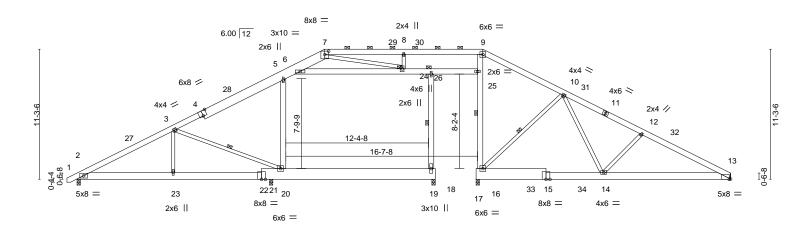
WEBS

- 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, 6-23, 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.



Job Truss Truss Type Qty Ply Wellco/Lot 123 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



	-			3-1-4 -5-0	31-0-12 12-11-8		34-10-12 35 ₁ 2-4 3-10-0 0-3-8		6-0 3-12	56-8-0 11-2-0	
Plate Offse	ets (X,Y)	[4:0-4-0,Edge], [7:0-4-0,	0-3-8], [13:0-1-	6,Edge]							
LOADING TCLL TCDL	(psf) 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15	CSI. TC BC	0.25 0.77	DEFL. Vert(LL) Vert(CT)	in (loc) -0.17 19-20 -0.28 19-20	l/defl >975	L/d 360	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2015/T	1.15 YES PI2014	WB Matri	0.77	Horz(CT) Wind(LL)	0.05 13 0.03 13-14	>597 n/a >999	240 n/a 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*

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

BRACING-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-

- 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

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 123 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

35-2-4

6-10-4

28-4-0

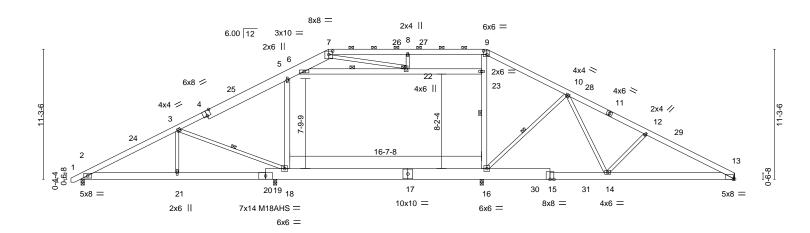
6-10-4

Scale = 1:99.9

56-8-0

7-8-12

56-8-0



		8-4-0	8-4-4	1-5-0		16-9-8	0-3-8	10-3-12	11-2-0	
Plate Offsets	s (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	e]				
LOADING /	(m.a.f.)	SPACING-	2.0.0	C	1	DEFL.	in (las)	1/4641 1/4	PLATES	GRIP
LOADING (. ,		2-0-0				in (loc)	I/defl L/d		
	20.0	Plate Grip I	OOL 1.15	TC	0.58	Vert(LL)	-0.30 16-18	>730 360	MT20	244/190
TCDL 1	10.0	Lumber DO	L 1.15	BO	0.97	Vert(CT)	-0.47 16-18	>461 240	M18AHS	186/179
BCLL	0.0 *	Rep Stress	Incr YES	W	3 0.59	Horz(CT)	0.06 13	n/a n/a		
BCDL 1	10.0	Code IRC2	015/TPI2014	Ma	trix-S	Wind(LL)	0.03 13-14	>999 240	Weight: 525 lb	FT = 20%

34-10-12

LUMBER-**BRACING-**

16-8-4

18-1-4

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

-0₇10-8 0-10-8

8-4-0

8-4-0

2x8 SP No.1 *Except*

8-4-0

BOT CHORD

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

WEBS

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

except

35₁2-4

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

45-6-0

42-Ó-12

6-10-8

48-11-4

6-10-8

BOT CHORD 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

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-

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) 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.



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 123 Hidden Lakes/Harnett 153121392 J0822-4434 A6GE **GABLE** Job Reference (optional)

> 35-2-4 6-10-4

6-10-8

28-4-0

6-10-4

Fayetteville, NC - 28314, Comtech, Inc.

21-5-12

3-4-8

18-1-4

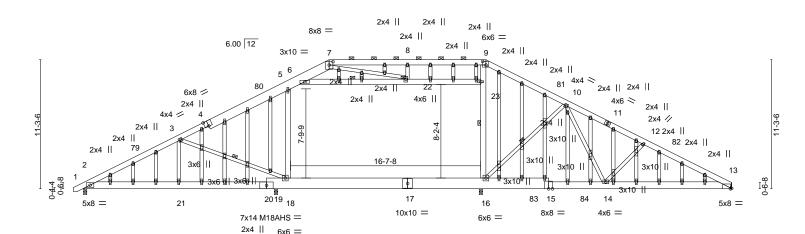
9-9-4

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:27 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-_KXzm6LW1oCAcKHdrR7?ILDyLKmBFLw6aSekWjyxsVo 42-0-12 48-11-4 56-8-0 6-10-8

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

Scale = 1:100.7

7-8-12



	8-4-0	16-8-4	1 ₁ 8-1-4	34-10-12	35 ₁ 2-4	45-6-0	56-8-0
	8-4-0	8-4-4	1-5-d	16-9-8	0-3-8	10-3-12	11-2-0
Plate Offsets (2	X.Y) [4:0-4-0.Edge].	[7:0-4-0.0-3-8], [9:0)-3-8.0-3-12], [13	3:0-1-6.Edgel			

	(, , , ,	[: 0, = 2,], [], [,, [,g-]		
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 0.58	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/TPI2014	Matrix-S	Wind(LL) 0.05 13-14 >999 240	Weight: 648 lb FT = 20%

LUMBER-**BRACING-**

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

except 2x8 SP No.1 *Except* **BOT CHORD** 2-0-0 oc purlins (5-2-11 max.): 7-9.

15-17,17-20: 2x12 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing. **WEBS** 2x4 SP No.2 *Except* **WEBS** 1 Row at midpt 3-18, 16-23, 10-16, 6-22

5-18,9-16,6-23: 2x6 SP No.1 **JOINTS** 1 Brace at Jt(s): 22

OTHERS 2x4 SP No.2

-0₁10-8 0-10-8

8-4-0

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



MARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74.7 (eV. 3-19/2020 BEPURE USE.)

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

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



minim

July 16,2022

SEAL

Edenton, NC 27932

ORTH

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 123 Hidden Lakes/Harnett
					I53121392
J0822-4434	A6GE	GABLE	1	1	
			l		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.



 Job
 Truss
 Truss Type
 Qty
 Ply
 Wellco/Lot 123 Hidden Lakes/Harnett

 J0822-4434
 B1GE
 COMMON SUPPORTED GAB
 1
 1
 1

 Job Reference (optional)

10-0-8

10-0-8

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:28 2022 Page 1 ID:8XVK7MoEEgDYV6B4ZyI0r5yy8ZO-SW5LzSM9o5K1EUspP9eErZmGQkLw_vFFp6OH2AyxsVn 20-1-0 20-11₁₇8 0-10-8

Scale = 1:68.0

5x5 =

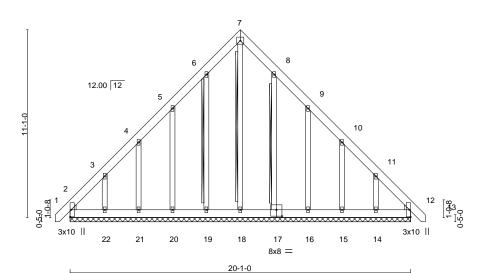


Plate Offsets (X,Y)--[17:0-4-0,0-4-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) 0.00 12 n/r 120 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) 0.00 12 120 n/r WB **BCLL** 0.0 Rep Stress Incr YES 0.14 Horz(CT) 0.01 12 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S FT = 20% Weight: 197 lb

BRACING-

TOP CHORD

BOT CHORD

T-Brace:

WFBS

20-1-0

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

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.
- 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) -0-9-2 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.



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.

SINEERING BY

Job Truss Truss Type Qty Plv Wellco/Lot 123 Hidden Lakes/Harnett 153121394 J0822-4434 B2GDR FINK 2 Job Reference (optional)

5x8 ||

Fayetteville, NC - 28314, Comtech, Inc.

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ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-OuD5O8NPKjblTn0CWagiw_rZVXy5SjmYGQtO72yxsVI 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.

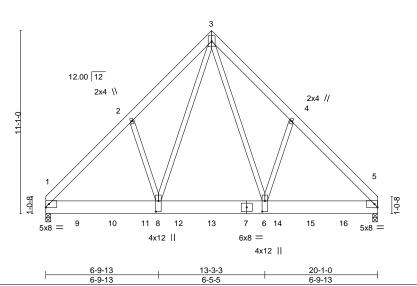


Plate Offsets (X,Y)-- [6:0-7-12,0-2-0], [8:0-7-12,0-2-0]

LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.05	1-8	>999	360	MT20	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/TPI2	014	Matri	x-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

WFBS 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)

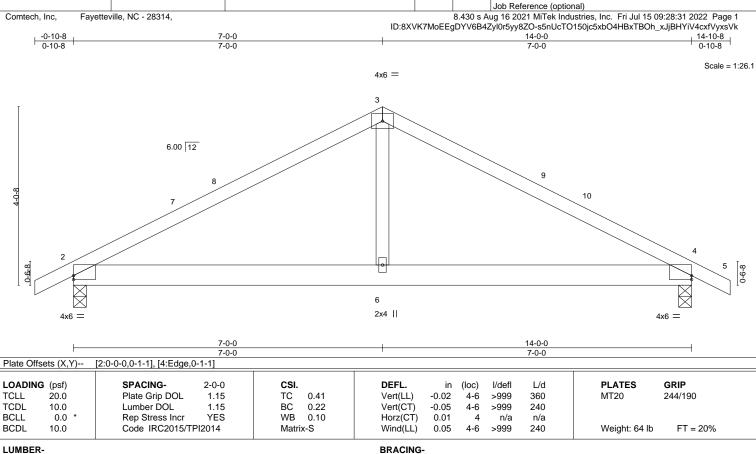
Vert: 7=-1031(B) 9=-1331(B) 10=-1331(B) 11=-1331(B) 12=-899(B) 13=-899(B) 14=-1289(B) 15=-1289(B) 16=-1289(B)



⚠ 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





TOP CHORD

BOT CHORD

Qty

4

Ply

Wellco/Lot 123 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

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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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

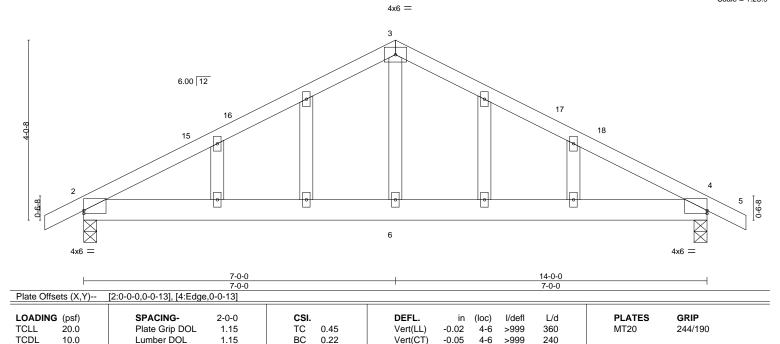


Job Truss Truss Type Qty Ply Wellco/Lot 123 Hidden Lakes/Harnett 153121396 J0822-4434 P1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:32 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-KHLsppPfsKrTi5Abe?iA?Pxs7Lfywj9rkkMUBxyxsVj -0-10-8 7-0-0 14-0-0 14-10-8

7-0-0

Scale = 1:25.9

0-10-8



Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

0.03

2-6

n/a

>999

n/a

240

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

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

Weight: 75 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

0-10-8

OTHERS 2x4 SP No.2

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)

Rep Stress Incr

Code IRC2015/TPI2014

YES

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

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

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

WB

Matrix-S

0.08

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

7-0-0

- 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 123 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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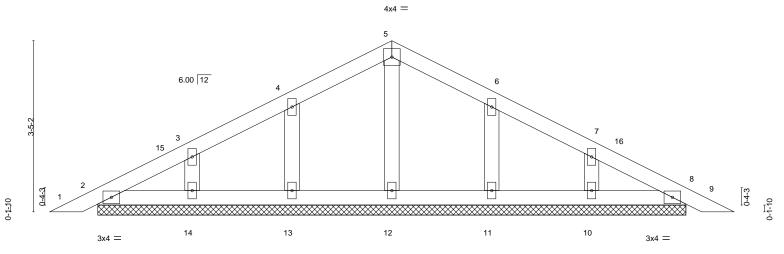
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 123 Hidden Lakes/Harnett 153121398 J0822-4434 PB1GE **GABLE** 2 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:33 2022 Page 1 Comtech, Inc.

ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-oTvE09QHdezJKFlnCiDPYcT7Jl2KfBI_zO52jNyxsVi 13-8-8 6-10-4

Scale = 1:23.1



	13-0-0								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL . in	(loc) I/de	fl L/d	PLATES GRIP			
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) 0.00	8 n	/r 120	MT20 244/190			
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00	8 n	/r 120				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	8 n/	/a n/a				
BCDL 10.0	Code IRC2015/TPI2014	Matrix-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.





Job Truss Truss Type Qty Ply Wellco/Lot 123 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

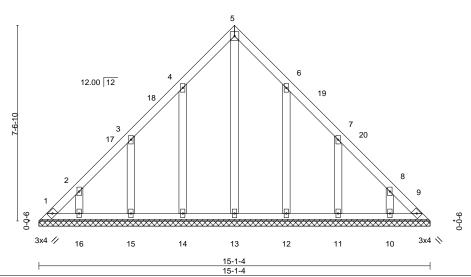


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING	G (psf)	SPACING- 2-0-	-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.14	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	1	Matri	x-S						Weight: 90 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 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	Truss	Truss Type	Qty	Ply	Wellco/Lot 123 Hidden Lakes/Harnett
					I53121400
J0822-4434	VA2	VALLEY	1	1	
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,				ug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:36 2022 Page 1
			ID:8XVK7MoEI	EgDYV6B4	Zyl0r5yy8ZO-D2aNfBSAvZLuBiTMtqn6AF5cxy11sXyRfMKiKiyxsVf
	L	6-6-10		13-1-4	
	'	6-6-10		6-6-10	
		4x4 =	=		Scale = 1:41.1

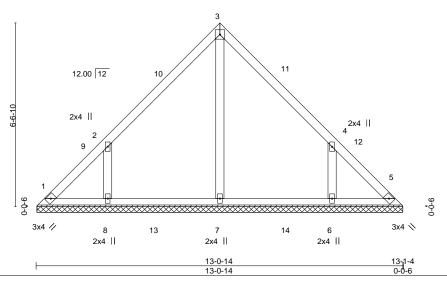


Plate Offsets (X,Y)	[4:0-0-0,0-0-0]		10 0 14			
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.14 BC 0.15	DEFL. Vert(LL) Vert(CT)	in (loc) l/de n/a - n/ n/a - n/	a 999	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014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

LUMBER-TOP CHORD

OTHERS

2x4 SP No 1 2x4 SP No.1 BOT CHORD 2x4 SP No.2 **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 13-0-8.

(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.

WEBS 2-8=-358/290, 4-6=-358/290

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.







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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 123 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

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 0.06 Matrix-S	DEFL. in (Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl L/d - n/a 999 - n/a 999 5 n/a n/a	PLATES GRIP MT20 244/190 Weight: 49 lb FT = 20%

11-0-14

LUMBER-

OTHERS

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

2x4 SP No.2

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 11-0-8.

(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.



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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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 123 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-

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

REACTIONS. (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.



153121403 J0822-4434 VALLEY VA₅ Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:38 2022 Page 1 Comtech, Inc. ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-9Ri74tUQRAbcQ0dk_FpaFgBxwmkfKSWk6gppPbyxsVd 3-6-10 3-6-10 3-6-10 Scale: 1/2"=1' 4x4 = 2 12.00 12 9-0-0 9-0-0 3x4 // 3x4 📏 2x4 || 7-0-14 7-0-14 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 0.17 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 BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 28 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Wellco/Lot 123 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

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

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

Truss

Truss Type

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.





Job Truss Truss Type Qty Ply Wellco/Lot 123 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-

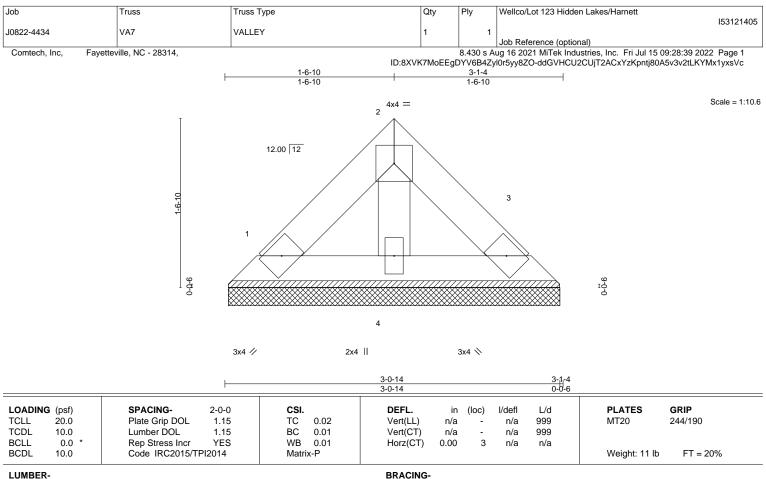
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip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

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

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



Job Truss Truss Type Qty Ply Wellco/Lot 123 Hidden Lakes/Harnett 153121406 J0822-4434 VB1 **GABLE** Job Reference (optional)

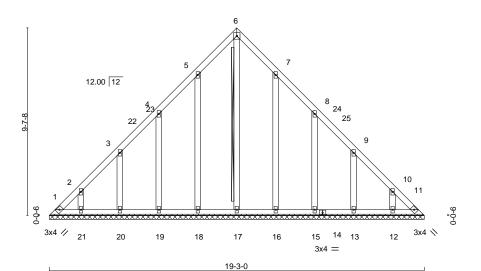
9-7-8

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 15 09:28:41 2022 Page 1 ID:8XVK7MoEEgDYV6B4Zyl0r5yy8ZO-Z0NGiuWJk5zBIUMJgONHtloU0zm1Xn2Aoe1T0vyxsVa 19-3-0

4x4 =

Scale = 1:59.1



19-3-0 SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a n/a 999 MT20 244/190 Lumber DOL 1.15 вс 0.03 Vert(CT) n/a n/a 999

TCDL WB **BCLL** 0.0 Rep Stress Incr YES 0.17 Horz(CT) 0.01 11 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 129 lb FT = 20%

LUMBER-

TCLL

LOADING (psf)

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

20.0

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.
- 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

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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 123 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 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

Plate Offsets (X,Y	Plate Offsets (X,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%					

LUMBER-

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

BOT CHORD 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.

1 Row at midpt

REACTIONS. All bearings 17-2-4.

(lb) -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.





Job Truss Truss Type Qty Ply Wellco/Lot 123 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 = 3

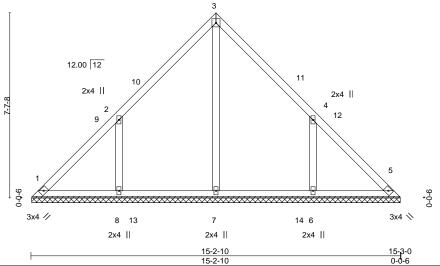


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.18 Vert(CT) n/a n/a 999 WB 0.12 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 73 lb FT = 20%

LUMBER-

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 15-2-4.

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

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

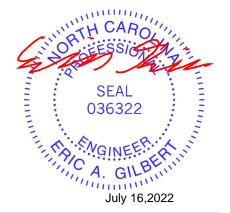
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=414(LC 22), 8=457(LC 19), 6=456(LC 20)

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.

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 123 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	0.0	<u> </u>				
Plate Offsets (X,Y)	Plate Offsets (X,Y) [4:0-0-0.0-0-0]								
	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 0.14	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-

OTHERS

TOP CHORD 2x4 SP No 1

BOT CHORD 2x4 SP No.1 2x4 SP No.2 **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 123 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 || 11-2-10

Plate Offsets (X,Y) [4:0-0-0,0-0-0]									
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 0.15	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	WB 0.07	Horz(CT) 0.00 5 n/a n/a					
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 49 lb FT = 20%					

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 123 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/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 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.

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

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 123 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)

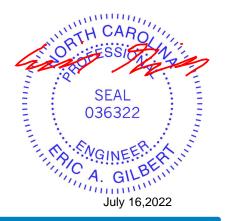
Max Uplift 1=-28(LC 13), 3=-28(LC 13)

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 123 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 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES 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.

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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Job Truss Truss Type Qty Ply Wellco/Lot 123 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_MCPDELI?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

LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-3-0 oc purlins.

Weight: 10 lb

FT = 20%

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.

Code IRC2015/TPI2014

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

Matrix-P

- 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	
·		_	ID:8XVK7MoEEgE		NdcKrY_2Fizs83W9B_8rqCU2PR?LetzulSyxsVS	
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0-0-12			13-10-1			
0-0 ₋ 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.	DEFL. 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 sheathing directly applied or 6-0-0 oc purlins.			

BOT CHORD

Qty

Ply

Wellco/Lot 123 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

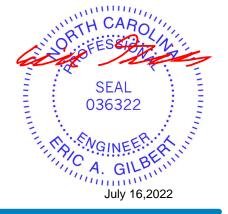
OTHERS

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.





Job Truss Truss Type Qty Ply Wellco/Lot 123 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-**BRACING-**

TOP CHORD

BOT CHORD

REACTIONS.

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

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

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.



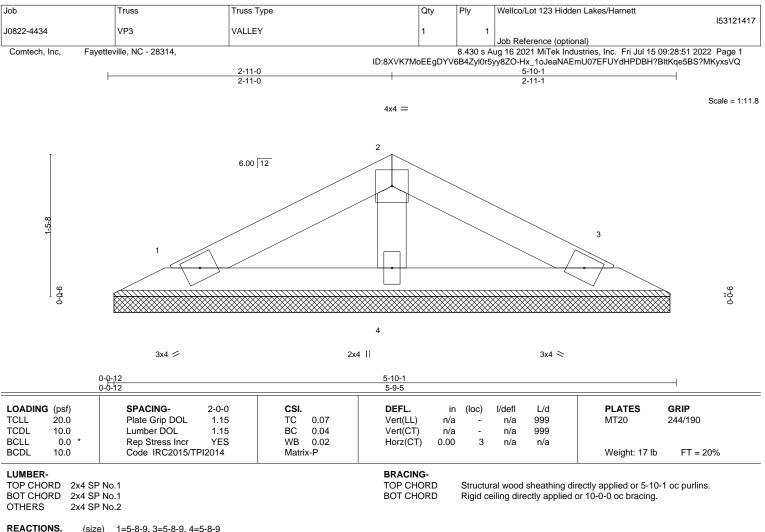
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

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



(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-

- 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



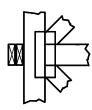
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



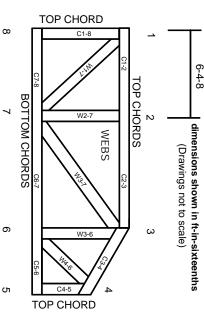
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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.