



RE: J0722-3818

Lot 34 Liberty Meadows

Trenco

Truss Name

V4

V5

V6

Date 2/16/2022

2/16/2022

2/16/2022

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Precision Custom Homes and Renovations Project Name: J0722-3818 Lot/Block: 34 Model: Liberty 2.0

Address: Brewster Court Subdivision: Liberty Meadows

State: NC City: Cameron

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

No.

21

22

Seal#

150256529

150256530

150256531

Design Code: IRC2015/TPI2014 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 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	150256509	A1	2/16/2022
2	150256510	A1GE	2/16/2022
3	150256511	A2	2/16/2022
4	150256512	A3	2/16/2022
5	150256513	A3GE	2/16/2022
6	150256514	B1GE	2/16/2022
7	150256515	B2	2/16/2022
8	150256516	C1	2/16/2022
9	150256517	C1-GR	2/16/2022
10	150256518	C1GE	2/16/2022
11	150256519	G1	2/16/2022
12	150256520	G1GE	2/16/2022
13	150256521	J1	2/16/2022
14	150256522	J2	2/16/2022
15	150256523	J2GE	2/16/2022
16	150256524	J3	2/16/2022
17	150256525	J3GE	2/16/2022
18	150256526	V1	2/16/2022
19	150256527	V2	2/16/2022
20	150256528	V3	2/16/2022

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Strzyzewski, Marvin

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

North Carolina COA: C-0844

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



February 16, 2022

lob		Truss	Truss Type	e	Q	ty	Ply	Lot 34 L	liberty Meadows			
10722-3818		A1	COMMON		6		1				15	0256509
0		" 10 00011							erence (optional)			
Comtech, Inc,	Fayette	ville, NC - 28314,			ID:aTYuLo2					s, Inc. Tue Feb 15 1 TVUr7zZdNxZFB38		
	r1-2-8₁	8-6-0		16-6-0	ID.aTAGLO:	24-6		20Wyakz		3-0-0		KSWL
	1-2-8 1-2-8	8-6-0		8-0-0		8-0)-0	-	8	3-6-0	34-2-8 1-2-8	
					5x5 =						Scal	e = 1:67
				7.00 12	5							
			4x6 🖊	15			16		2x4 //			
			2x4 \\	// /	// \\				1x6 <>			
4			3 4	/	\\	\			³ 7			
10-2				//	\			79				
				. //								
		14	\				\ /	//		17		
						\	$\setminus / $	/				
	N 1 2						\\/_				2, 6 8	
1 4	7 1 2 6 3x6	1	18 19	13 12 20		21	11 10	22	23	3x6	0-6-12 0-3-14	
9	3x6	=	10 19	4x6 =		21	3x4 =	22	23	3x6	= 3	
				3x4 =			4x6 =					
				3.4 —			4x0 —					
	1	11-6-0		1	21-6-0		1		33-0-0		1	
		11-6-0)		10-0-0				11-6-0		7	
LOADING (psf)		SPACING- 2	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
CLL 20.0		Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.15	10-13	>999	360	MT20	244/190	
CDL 10.0			1.15	BC 0.53	Vert(CT)		8-10	>999	240			
CLL 0.0	*	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.05		n/a	n/a	144 1 1 4 004 11		

LUMBER-

BCDL

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

Wind(LL) BRACING- 0.05 2-13 >999

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins.

Weight: 221 lb

FT = 20%

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

240

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

Max Horz 2=245(LC 11)

Max Uplift 2=-91(LC 12), 8=-91(LC 13) Max Grav 2=1525(LC 19), 8=1525(LC 20)

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

TOP CHORD $2-3=-2295/423,\ 3-5=-2090/464,\ 5-7=-2091/464,\ 7-8=-2296/423$

Code IRC2015/TPI2014

BOT CHORD 2-13=-222/2070, 10-13=-9/1347, 8-10=-233/1886

WEBS $3\text{-}13\text{=-}544/300,\ 5\text{-}13\text{=-}140/991,\ 5\text{-}10\text{=-}139/991,\ 7\text{-}10\text{=-}544/300}$

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) -1-0-6 to 3-4-7, Interior(1) 3-4-7 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 34-0-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2 and 91 lb uplift at joint 8.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



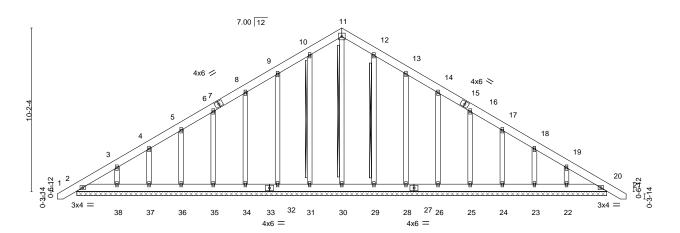
February 16,2022





Job		Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows	
					1		150256510
J0722-3818		A1GE	GABLE	1	1		
						Job Reference (optional)	
Comtech, Inc,	Fayettev	/ille, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:12	2022 Page 1
			ID:aTX	uLo?nW09d	tpROz2W	Q0wydkZW-On8nG?zgzzjDj9HLg2PPfgGTjmHJKnRso	cY62z0zkswr
	₋ 1-2-8 ₁		16-6-0			33-0-0 34-2-8	
	1-2-8		16-6-0			16-6-0 1-2-8	
			5x5 =				Scale = 1:67.5

5x5 =



	33-0-0 33-0-0					
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 0.04 BC 0.02 WB 0.13 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 20 n/r 120 Vert(CT) 0.00 20 n/r 120 Horz(CT) 0.01 20 n/a n/a	PLATES GRIP MT20 244/190 Weight: 283 lb FT = 20%		

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD **WEBS**

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 - 11-30, 10-31, 12-29 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.

DNS. All bearings 33-0-0. (lb) - Max Horz 2=306(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 30, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22

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

TOP CHORD 2-3=-277/226, 10-11=-242/277, 11-12=-242/277

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) 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, 20, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 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 russ 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, crection and bracing of trusses and truss systems, see

NSUTPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



	1	uss	Truss Type		Qty	Ply	Lot 34 Liberty Meadows		150256511
J0722-3818	A2	?	COMMON		4	1			130236311
							Job Reference (optional)		
Comtech, Inc,	Fayetteville	, NC - 28314,					16 2021 MiTek Industries, Inc. Tue		
							kZW-GYOI6M0B1CDfCmb7vtULpWF	R_HNWAGYgSXA4	F6nzkswn
	1-2-8	8-6-0	-	16-6-0 8-0-0		-6-0 -0-0	33-0-0 8-6-0	34-2-8 1-2-8	
	1-2-8	8-6-0		8-0-0	8	-0-0	8-6-0	1-2-8	
				5x5	5 =				Scale = 1:67.5
			7.00	 -					
Ī			7.00	5	ì				
			4x6 //	15		16	2x4 //		
			2x4 \\				4x6 \(6 \)		
10-2-4			3 4				Tip.		
7									
		14			//	.\ .	17		
				. //		\\ //			
4 4 21-2	1 2							89	7 4 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
0-3-14 0-6-12	3x6 =		18 19	13 12 20	21	11 10	22 23	3x6 =	0-3-14 0-3-14
				4x6 =		3x4 =		4x12	
			3	3x4 =		4x6 =			
		11-6-0		21-6	i-0		32-0-0	33-0-0	

10-0-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

(loc)

-0.15 10-13

-0.26 8-10

0.05

0.05 2-13 I/defl

>999

>999

>999

n/a

L/d

360

240

n/a

240

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

10.0

0.0

WEDGE

Right: 2x6 SP No.1

Plate Offsets (X,Y)--LOADING (psf)

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=245(LC 11)

Max Uplift 2=-91(LC 12), 8=-91(LC 13) Max Grav 2=1525(LC 19), 8=1525(LC 20)

[8:0-7-6,0-1-1], [8:0-0-2,1-1-1]

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2-0-0

1.15

1.15

YES

SPACING-

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

2-3=-2295/423, 3-5=-2090/464, 5-7=-2091/464, 7-8=-2296/423 2-13=-222/2070, 10-13=-9/1347, 8-10=-233/1886 TOP CHORD

BOT CHORD

WEBS 3-13=-544/300, 5-13=-140/991, 5-10=-139/991, 7-10=-544/300

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; DCDL=6.0psf; and C-C Exterior(2) -1-0-6 to 3-4-7, Interior(1) 3-4-7 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 34-0-6 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB 0.31

Matrix-S

0.65

0.60

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



PLATES

Weight: 223 lb

MT20

Structural wood sheathing directly applied or 4-11-2 oc purlins.

GRIP

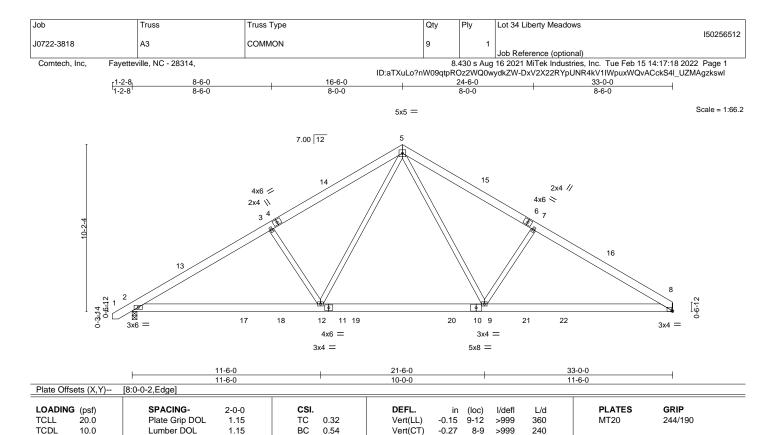
244/190

FT = 20%

February 16,2022







Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.05

0.05 2-12

n/a

>999

n/a

240

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

Structural wood sheathing directly applied or 4-10-2 oc purlins.

Weight: 218 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

WEBS 2X4 SP No.2

REACTIONS. (size) 2=0-3-8, 8=Mechanical Max Horz 2=241(LC 11)

Max Uplift 2=-91(LC 12), 8=-75(LC 13) Max Grav 2=1529(LC 19), 8=1461(LC 20)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-3=-2303/425, 3-5=-2098/466, 5-7=-2112/480, 7-8=-2319/440

BOT CHORD 2-12=-255/2070, 9-12=-30/1348, 8-9=-260/1916

WEBS 3-12=-545/300, 5-12=-141/990, 5-9=-144/1011, 7-9=-555/308

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) -1-0-6 to 3-4-7, Interior(1) 3-4-7 to 16-6-0, Exterior(2) 16-6-0 to 20-10-13, Interior(1) 20-10-13 to 32-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.32

Matrix-S

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022

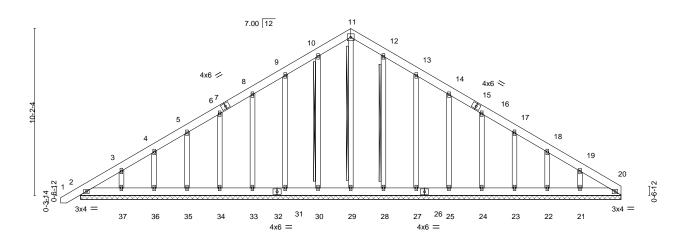




818 Soundside Road

Job		Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
						150256513
J0722-3818		A3GE	GABLE	1	1	
						Job Reference (optional)
Comtech, Inc,	Fayettev	ville, NC - 28314,			.430 s Aug	16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:19 2022 Page 1
			II	D:aTXuLo?nW0	qtpROz2V	VQ0wydkZW-h73RkO33J7cD3EJia012R92fzagxTxAuD8Iwj6zkswk
	₋ 1-2-8 ₁		16-6-0			33-0-0
	1-2-8		16-6-0			16-6-0

5x5 =



	•		33-0-0	· · · · · · · · · · · · · · · · · · ·
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.04	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 1 n/r 120	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.02 WB 0.13	Vert(CT) 0.00 1 n/r 120 Horz(CT) 0.01 20 n/a n/a	21,7,00
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	11012(01) 0.01 20 11/4 11/4	Weight: 280 lb FT = 20%

33-0-0

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD **WEBS**

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 - 11-29, 10-30, 12-28 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 33-0-0.

Max Horz 2=301(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22 except

Max Grav All reactions 250 lb or less at joint(s) 2, 20, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23,

22, 21

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

TOP CHORD 2-3=-280/222, 10-11=-236/265, 11-12=-236/265

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) 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, 20, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22 except (jt=lb) 21=107.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Scale = 1:66.2

February 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 properly damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TPH1 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	Lot 34 Liberty Meadows	150256514
J0722-3818	B1GE	GABLE		1	1		130230314
						Job Reference (optional)	
Comtech, Inc, Faye	tteville, NC - 28314,		ID:aTYul o	.8 nW00atn	430 s Aug	16 2021 MiTek Industries, Inc. Tue Feb 15 14: 0wydkZW-dWBB944JrksxIYT4iR3WWa8zwOKo	17:21 2022 Page 1
-1-2-8		6-0-0	ID.aT AULU	riivvosqip	ROZZWQI	12-0-0	13-2-8
1-2-8 1-2-8		6-0-0	ı			6-0-0	1-2-8
							Scale = 1:23.2
			4x4 =				Ocarc = 1.20.2
			5				
	_		_ \	\		,	
	6.00 12	4			, °		
					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
6-12	/					7	
Ę	3						
						To the second	
2 /	// _	_					8
4 7							
0-6-12							0-6-12
	14	13	12		11	10	\bowtie
3x4 =						3x4	=
OA 1						O.K.	
		6-0-0				12-0-0	

[2:0-1-7,0-1-8], [8:0-1-7,0-1-8] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 (loc) L/d I/defl **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.02 10-11 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) -0.03 10-11 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.03 10-11 >999 240 Weight: 65 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

6-0-0

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

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

LUMBER-

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

WEBS 2x4 SP No.2 OTHERS 2x4 SP No.2

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

Max Horz 2=-73(LC 17)

Max Uplift 2=-143(LC 9), 8=-143(LC 8) Max Grav 2=550(LC 1), 8=550(LC 1)

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

TOP CHORD 2-3=-617/666, 3-4=-570/687, 4-5=-561/740, 5-6=-561/740, 6-7=-570/688, 7-8=-617/666 BOT CHORD 2-14=-494/491, 13-14=-494/491, 12-13=-494/491, 11-12=-494/491, 10-11=-494/491,

6-0-0

8-10=-494/491 WEBS 5-12=-513/328

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) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 8=143.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022



Job	Truss	Truss Type		Qty	Ply	Lot 34 Libe	erty Meadows		
10700 2040	B2	COMMON				1			150256515
J0722-3818	DZ.	COMMON		4			ence (optional)		
Comtech, Inc, Fay	etteville, NC - 28314,			١	3 430 s Au			Tue Feb 15 1	4:17:22 2022 Page 1
,			ID:aTX						bgJxKv5XaJRzkswh
-1-2-8 1-2-8		6-0-0				12-0	-0		13-2-8
1-2-8		6-0-0	'			6-0-	0		1-2-8
									Scale: 1/2"=1
			4x4 =						Ocale: 1/2 =
			3						
Ī									
	6.00 12	- /	/	\ \					
	6.00 12				, \				
					/	9			
		8				\ \ \			
2									
3-6-12		///							
m	7						10	1	
	'//								
									4
									T.
0-6-12			<u>'L</u>					7	5 6-12
9 /									√ /, lå
	X								
	Ř		6						
			2x4						
3x4			2					3x4 ≥	
		6-0-0				12-0	0		
		6-0-0	-			6-0-			—
	I	0-0-0				6-0-	· U		
LOADING (psf)	SPACING-	2-0-0 CSI.	DEFL.	i	n (loc)	I/defl	L/d PI	LATES	GRIP
TCLL 20.0	Plate Grip DOL		.29 Vert(LL					T20	244/190
TCDL 10.0	Lumber DOL		.15 Vert(CT				240	120	<u>∠</u> ++/ 130
BCLL 0.0 *	Rep Stress Incr		.07 Horz(C				n/a		
BOD! 10.0	Rep Siless inci								FT 000/

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

4-6 >999 240

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

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

Weight: 57 lb

FT = 20%

LUMBER-

BCDL

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

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

Max Horz 2=-47(LC 10)

Max Uplift 2=-109(LC 9), 4=-109(LC 8) Max Grav 2=550(LC 1), 4=550(LC 1)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-640/667, 3-4=-640/667

BOT CHORD 2-6=-457/485, 4-6=-457/485

WEBS 3-6=-394/296

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) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-0-0, Exterior(2) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 13-2-8 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

Matrix-S

- 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=109, 4=109.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 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 russ 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, crection and bracing of trusses and truss systems, see

NSUTPH1 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	Lot 34 Liberty Meadows	
10700 0040			00111011		_			150256516
J0722-3818		C1	COMMON		5	1		
							Job Reference (optional)	
Comtech, Inc,	Fayettev	/ille, NC - 28314,			8.	430 s Aug	16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:23	3 2022 Page 1
				ID:aTXι	Lo?nW09q	tpROz2W	Q0wydkZW-ZvJxam6aNM6fYrdTpr6_b?DEwBwoPIL	U8lG7stzkswg
		₁ -1-2-8 ₁	10-0-0	1		20-0	-0 21-2-8	•
		1-2-8	10-0-0	1		10-0	-0 1-2-8	

Scale = 1:55.6 5x8 ||

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

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

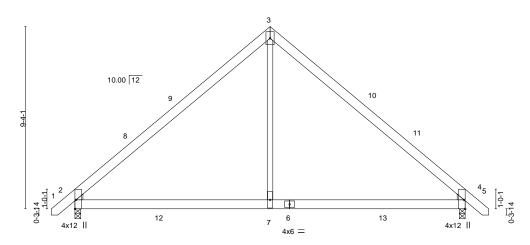


Plate Offsets (X,Y)--[2:Edge,0-0-11], [4:Edge,0-0-11] LOADING (psf) SPACING-CSI. DEFL. **PLATES** 2-0-0 I/defl L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.49 Vert(LL) -0.10 4-7 >999 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 ВС 0.54 -0.17 4-7 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.19 Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.06 2-7 >999 240 Weight: 129 lb FT = 20%

3x10 ||

BRACING-

TOP CHORD

BOT CHORD

20-0-0

LUMBER-

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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=-221(LC 10)

Max Uplift 4=-48(LC 13), 2=-48(LC 12) Max Grav 4=1044(LC 20), 2=1044(LC 19)

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

TOP CHORD 2-3=-1118/210, 3-4=-1118/210

BOT CHORD 2-7=0/784, 4-7=0/784 **WEBS** 3-7=0/822

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) -1-0-8 to 3-4-4, Interior(1) 3-4-4 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 21-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

10-0-0

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2. 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.



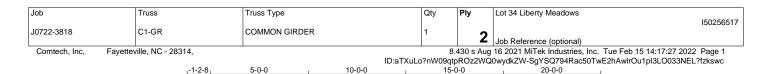
February 16,2022

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, rerection and bracing of trusses and truss systems, see

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



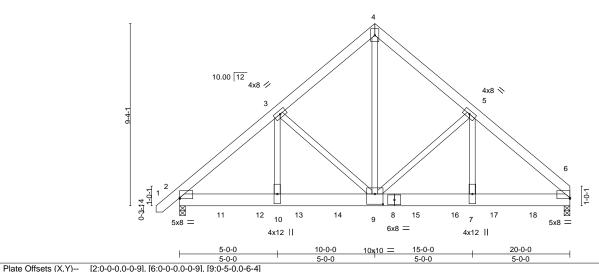


5-0-0



Structural wood sheathing directly applied or 5-7-9 oc purlins.

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



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.07 9-10 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.13 9-10 >999 240	I
BCLL	0.0 *	Rep Stress Incr NO	WB 0.85	Horz(CT) 0.03 6 n/a n/a	İ
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 9-10 >999 240	Weight: 341 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=217(LC 26) Max Uplift 6=-424(LC 9), 2=-437(LC 8) Max Grav 6=6844(LC 2), 2=6838(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-8399/550, 3-4=-5693/462, 4-5=-5691/461, 5-6=-8413/547

1-2-8

BOT CHORD 2-10=-410/6080, 9-10=-410/6081, 7-9=-340/6084, 6-7=-340/6083 WEBS 4-9=-485/6901, 5-9=-2367/286, 5-7=-162/3485, 3-9=-2363/282, 3-10=-164/3461

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: 2x8 - 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.
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=424, 2=437.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1360 lb down and 95 lb up at 2-0-12, 1360 lb down and 95 lb up at 4-0-12, 1360 lb down and 95 lb up at 8-0-12, 1360 lb down and 95 lb up at 10-0-12, 1360 lb down and 95 lb up at 10-0-12, 1360 lb down and 95 lb up at 14-0-12, and 1360 lb down and 95 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



February 16,2022

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

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



818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
J0722-3818	C1-GR	COMMON GIRDER	1		I50256517
00722 0010	OT OR	OCHNINGIA CINEEN	l ·	2	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:28 2022 Page 2 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-ws6qdTAiCukyecVQcPi9l2w3nCel4rFDl1_uX5zkswb

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-6=-60, 2-6=-20

Concentrated Loads (lb)

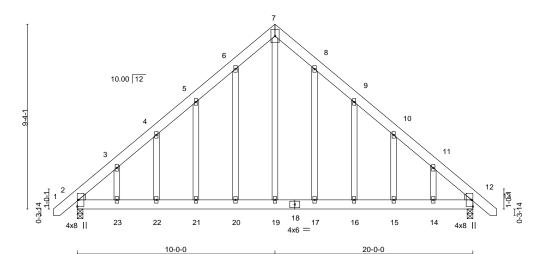
Vert: 9=-1290(F) 11=-1290(F) 12=-1290(F) 13=-1290(F) 14=-1290(F) 15=-1290(F) 16=-1290(F) 17=-1290(F) 18=-1290(F)

Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows	
						150256518
J0722-3818	C1GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc,	ayetteville, NC - 28	314,		8.430 s Aug	16 2021 MiTek Industries, Inc. T	ue Feb 15 14:17:24 2022 Page 1
			ID:aTXuLo?nW09qtp	ROz2WQ0w	vydkZW-15tKo66C8fEW9?CfNZdD	D8CmTCbHE88EdNP0gOKzkswf
	₁ -1-	-2-8 10-0-0		20-	0-0 21-2-8	8,
	1-	2-8 10-0-0		10-	0-0 1-2-8	3

Scale = 1:54.8 5x8 ||

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

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



		10-0-0	10-0-0	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.20	DEFL. in (loc) I/defl L/d Vert(LL) -0.09 15-16 >999 360	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.40 WB 0.40	Vert(CT) -0.14 15-16 >999 240 Horz(CT) 0.01 12 n/a n/a	W1120 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 21-22 >999 240	Weight: 180 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=-276(LC 10)

Max Uplift 12=-169(LC 13), 2=-169(LC 12) Max Grav 12=860(LC 1), 2=860(LC 1)

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

2-3=-870/130, 3-4=-749/172, 4-5=-705/231, 5-6=-739/304, 6-7=-776/383, 7-8=-776/383, 8-9=-739/304, 9-10=-705/231, 10-11=-749/172, 11-12=-870/129 2-23=-39/567, 22-23=-39/567, 21-22=-39/567, 20-21=-39/567, 19-20=-39/567, TOP CHORD

BOT CHORD 17-19=-39/567, 16-17=-39/567, 15-16=-39/567, 14-15=-39/567, 12-14=-39/567

WEBS 7-19=-309/660

- 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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)
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022

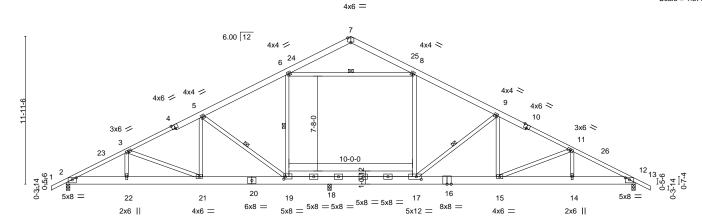


Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
J0722-3818	G1	COMMON	6	1	I50256519
00722 0010	01	- COMMINICIA			Job Reference (optional)
Comtook Inc. Equation	villa NC 20214		0	420 a Aug	16 2021 MiTok Industrias Inc. Tue Feb 15 14:17:21 2022 Page 1

ID:aTXuLo?nW09qtpROz2WQ0wydkZW-KRozGVCbVp6XV4E?HXFswhYeaQgCHJif_?CY8QzkswY 34-10-10 27-10-10 40-10-10 4-10-10

Structural wood sheathing directly applied or 3-11-0 oc purlins.

Scale = 1:87.6



		4-10-10)-10-10	17-10-10	1 21-1-10	28-1-5	1 34-	10-10	40-10-10	46-0-0	
		4-10-10	6-0-0	7-0-0	3-3-0	6-11-11	, 6	i-9-5	6-0-0	5-1-6	
Plate Offse	ets (X,Y)	[2:0-4-0,0-1-15], [4	1:0-3-0,Edge]	, [7:0-3-0,Edge], [1	0:0-3-0,Edge],	[12:0-4-0,0-1-15],	[17:0-4-12,0-2	-8], [19:0-1-	8,0-2-4]		
LOADING	(psf)	SPACING-	2-0-	0 CSI		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip [OOL 1.1	5 TC	0.26	Vert(LL)	-0.24 15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DC	L 1.1	5 BC	0.44	Vert(CT)	-0.40 15-17	>739	240		
BCLL	0.0 *	Rep Stress	Incr YE	S WB	0.42	Horz(CT)	0.03 12	n/a	n/a		
BCDL	10.0	Code IRC2	015/TPI2014	Mat	rix-S	Wind(LL)	0.16 15-17	>999	240	Weight: 376 lb	FT = 20%

LUMBER-**BRACING-**

10-10-10 2-1-14

17-10-10

7-0-0

TOP CHORD 2x6 SP No.1 *Except* TOP CHORD 1-4.10-13: 2x4 SP No.1 **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2x8 SP 2400F 2.0E *Except* BOT CHORD 8-5-9 oc bracing: 18-19

17-19: 2x6 SP No.1 7-9-4 oc bracing: 17-18.

WEBS 2x4 SP No.2 **WEBS** 9-17, 6-19, 5-19, 6-8 1 Row at midpt

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 18=0-3-8

Max Horz 2=156(LC 11)

Max Uplift 2=-66(LC 12), 12=-168(LC 13), 18=-120(LC 12) Max Grav 2=1250(LC 1), 12=1365(LC 24), 18=1447(LC 19)

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

2-3=-2175/456, 3-5=-1759/445, 5-6=-1250/413, 6-7=-378/186, 7-8=-350/181, 8-9=-1235/382, 9-11=-2082/468, 11-12=-2367/451 TOP CHORD

2-22=-304/1880, 21-22=-304/1880, 19-21=-194/1515, 18-19=-52/1043, 17-18=-48/1031, **BOT CHORD**

15-17=-245/1812, 14-15=-325/2045, 12-14=-325/2045

WEBS 9-17=-1058/260, 9-15=-26/593, 5-19=-875/234, 5-21=-23/446, 3-21=-393/120,

11-15=-281/104, 6-8=-846/319

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) -1-2-7 to 3-2-5, Interior(1) 3-2-5 to 23-0-0, Exterior(2) 23-0-0 to 27-4-13, Interior(1) 27-4-13 to 47-2-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members, with BCDL = 10.0psf.

 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=168, 18=120.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



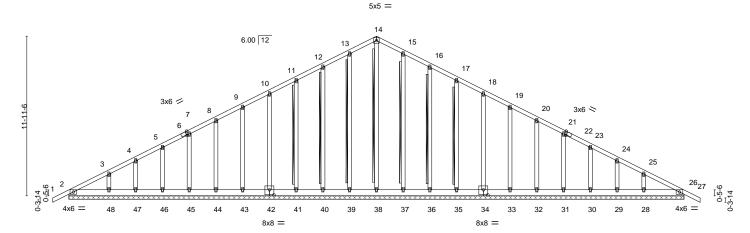
February 16,2022

Design valid for use only with MTek® 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 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	Lot 34 Liberty Meadows	
							150256520
J0722-3818		G1GE	COMMON SUPPORTED GAB	1	1		
						Job Reference (optional)	
Comtech, Inc,	Fayette	ville, NC - 28314,		8	430 s Aug	16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:34 202	22 Page 1
			II	D:aTXuLo?nW09q	tpROz2W0	Q0wydkZW-l0T6uWETnkV5MXzazfoZYJACkdoLUj85gzR	CklzkswV
-1-2-8		23-0-0)			46-0-0	47-2-8
1-2-8		23-0-0)			23-0-0	1-2-8

Scale = 1:81.1



46-0-0 Plate Offsets (X,Y)--[6:0-1-9,Edge], [22:0-1-9,Edge], [34:0-4-0,0-4-8], [42:0-4-0,0-4-8] LOADING (psf) SPACING-CSI DEFL **PLATES** GRIP 2-0-0 I/defl L/d **TCLL** 20.Ó Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 27 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 27 120 n/r **BCLL** 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.01 26 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 376 lb FT = 20%

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
T-Brace: 2x4 SPF No.2 - 14-38, 13-39, 12-40, 11-41

, 15-37, 16-36, 17-35

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 46-0-0.

Max Horz 2=245(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 41, 42, 43, 44, 45, 46,

47, 48, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26

Max Grav All reactions 250 lb or less at joint(s) 2, 38, 39, 40, 41, 42, 43, 44, 45,

 $46,\,47,\,48,\,37,\,36,\,35,\,34,\,33,\,32,\,31,\,30,\,29,\,28,\,26$

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

2-3=-322/96, 11-12=-106/275, 12-13=-127/337, 13-14=-146/387, 14-15=-146/387, TOP CHORD 15-16=-127/337, 16-17=-106/275

BOT CHORD 2-48=-82/271, 47-48=-82/271, 46-47=-82/271, 45-46=-82/271, 44-45=-82/271, 43-44=-82/271, 42-43=-82/271, 41-42=-82/271, 40-41=-82/271, 39-40=-82/271,

38-39=-82/271, 37-38=-82/271, 36-37=-82/271, 35-36=-82/271, 34-35=-82/271,

33-34=-82/271, 32-33=-82/271, 31-32=-82/271, 30-31=-82/271, 29-30=-82/271,

28-29=-82/271, 26-28=-82/271

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) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 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 properly damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ob	Truss	Truss Type	Qty	Ply	Lot 34 L	berty Meadows			
0722-3818	14	MONO TRUSS	4		1			1502	56521
0/22-3818	J1	WONO TRUSS	4			erence (optional)			
Comtech, Inc,	Fayetteville, NC - 28314,			8.430 s Aı			Inc. Tue Feb 15 1	14:17:35 2022 Page	 e 1
			ID:aTXuLo?nW09qtpF	Oz2WQ0v	vydkZW-DC	1U5sF5Y2dy_hY	mWNKo4XjI9176[DCCFvdAmHBzkswl	U
	-1-2-8 1-2-8		5-10-8 5-10-8				6 _F 0-0 0-1-8		
	1-2-0		5-10-0				0-1-0		
								Scale =	= 1:14
							2x4		
ī							3	Т	т
		4.00	0 12						
		4.0	J 12						
			6					-	
								1-10-1	
2-3-9								-	2.3.0
2									5
	2								
							1.1	· I	
1 4	5								0-2-8
1-4-0							/\l		0
		3x4 = 3x4 =							
		3x4 — 3x4 —					4 2x4		
	IX						2X4		
		1							
			6-0-0						
			6-0-0						
late Offsets (X,Y)-	- [2:0-2-15,Edge]		3 3-0						_
OADING (psf)		2-0-0 CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP	
CLL 20.0	Plate Grip DOL	1.15 TC 0.41	Vert(LL) -0.0	01 2-4	>999	360	MT20	244/190	

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.03

0.00

2-4

>999

except end verticals.

n/a

240

n/a

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

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

Weight: 29 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

WFBS 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 4=0-1-8

Max Horz 2=83(LC 8)

Max Uplift 2=-132(LC 8), 4=-90(LC 8)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 2=316(LC 1), 4=215(LC 1)

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

NOTES-

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) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB 0.00

0.12

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=132.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 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 russ 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, crection and bracing of trusses and truss systems, see

NSUTPH1 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 Type	Qty		Ply	Lot 34 Liberty Meado	ws	150256522
J0722-3818		J2	MONOPITCH	6		1	Job Reference (option	nal)	
Comtech, Inc,	Fayette	ville, NC - 28314,					16 2021 MiTek Indust	ries, Inc. Tue Feb 15 1	
	1	-1-2-8		ID:aTXuLo?nW0 4-10-8	9qtpl	ROz2WQ	0wydkZW-9b9EWYHN	14ftgD?h9eoMG9yog3r 5-0-0	
		-1-2-8 1-2-8		4-10-8				5-0-0 0-1-8	
									Scale = 1:12.5
1-11-9		2	4.00	112		5		2x4	1-6-1
dj			3x4 = 3x4 =					4 2x4	11
		<u> </u>		5-0-0 5-0-0					
Plate Offsets (X,Y)) [2:0	-2-15,Edge]							
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	,	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.26 BC 0.08 WB 0.00	Vert(CT) -0 Horz(CT) 0	in .01 .01	2-4	l/defl L/d >999 360 >999 240 n/a n/a	PLATES MT20	GRIP 244/190
BCDL 10.0		Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0	.01	2-4	>999 240	Weight: 24 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1

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

(size) 2=0-3-0, 4=0-1-8 Max Horz 2=72(LC 8)

Max Uplift 2=-119(LC 8), 4=-72(LC 8)

Max Grav 2=277(LC 1), 4=174(LC 1)

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

NOTES-

- 1) 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) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 4-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=119.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

February 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 russ 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, crection and bracing of trusses and truss systems, see

NSUTPH1 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	Lot 34 Liberty Meadows
J0722-3818		J2GE	MONOPITCH SUPPORTED	1	1	150256523
00722 0010		0202	MONOT TOTTOGTT ONTED	ļ.	·	Job Reference (optional)
Comtech, Inc.	Fayette	ville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:39 2022 Page 1

ID:aTXuLo?nW09qtpROz2WQ0wydkZW-5_H?xElccG7OSJrYlCOkFNu3TeVd90jqpF8zQyzkswQ

5-0-0 5-0-0

Scale = 1:12.7

2-0-1	1		4.00 12	2x4 3	4 5 2x4 II
				7	6
		3x4 =		2x4	2x4

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-P	, ,					Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 5-0-0.

(lb) - Max Horz 2=104(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 2, 7 Max Grav All reactions 250 lb or less at joint(s) 5, 6, 2, 7

-1-2-8 1-2-8

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

NOTES-

- 1) 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) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 5, 6, 2, 7.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

ANSUTPH 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	Lot 34 Liberty Meadows		
					1502565		
J0722-3818	J3	MONOPITCH	9	1			
					Job Reference (optional)		
Comtech, Inc,	Fayetteville, NC - 28314,	8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:40 2022 Page 1					
		IC	D:aTXuLo?nW09qtpl	ROz2WQ0	wydkZW-ZArN8aJENaFF4SQkJwvznaQEx2rguTK_2vuXyOzkswP		
	-1-2-8		3-6-	0			
	1-2-8		3-6-	0			

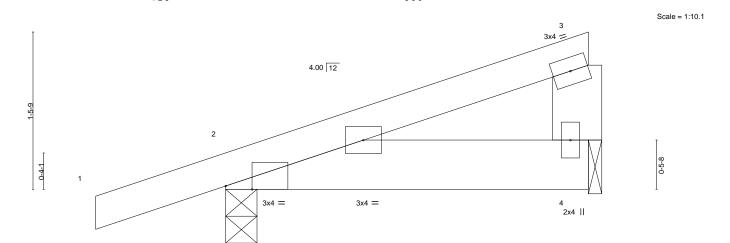


Plate Offsets (X,Y)	[2:0-2-15,Edge]		3-6-0	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.09	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 2-4 >999 360	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.03 WB 0.01	Vert(CT) -0.00 2-4 >999 240 Horz(CT) 0.00 n/a n/a	WI120 244/100
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 17 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

3-6-0

LUMBER-

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

2x6 SP No.1 WFBS

REACTIONS. (size) 2=0-3-8, 4=0-1-8

Max Horz 2=56(LC 8)

Max Uplift 2=-69(LC 8), 4=-14(LC 12) Max Grav 2=224(LC 1), 4=107(LC 1)

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

NOTES-

- 1) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-6-0 oc purlins.

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

February 16,2022

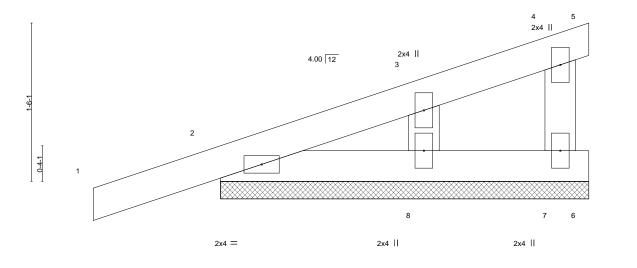




Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
					150256525
J0722-3818	J3GE	MONOPITCH SUPPORTED	2	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:41 2022 Page 1

ID:aTXuLo?nW09qtpROz2WQ0wydkZW-1MOIMwKs8uN6ic?wtdQCKozP_SB7dwQ7HZd4UrzkswO -1-2-8 1-2-8 3-6-0 1-6-13

Scale = 1:10.3



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-P	, ,					Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins,

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD**

REACTIONS. (size) 7=3-6-0, 2=3-6-0, 8=3-6-0

Max Horz 2=79(LC 8)

Max Uplift 7=-26(LC 8), 2=-91(LC 8), 8=-38(LC 12) Max Grav 7=52(LC 1), 2=164(LC 1), 8=125(LC 1)

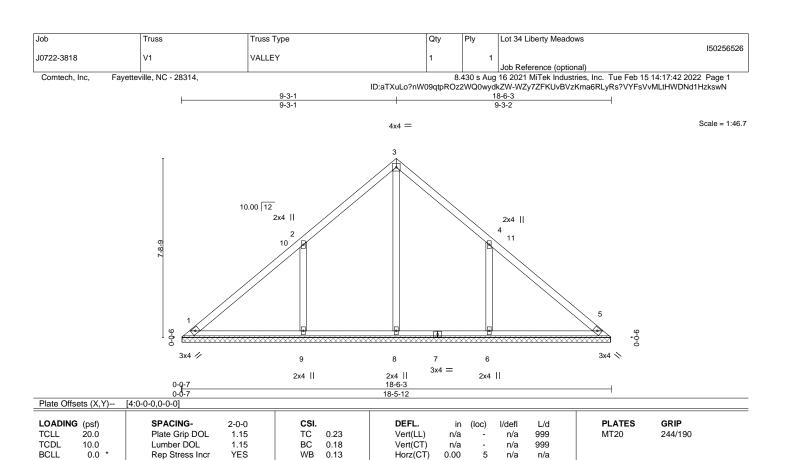
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 7, 2, 8.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022





LUMBER-

BCDL

TOP CHORD 2x4 SP No.1

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

10.0

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.

Weight: 84 lb

FT = 20%

REACTIONS. All bearings 18-5-5.

(lb) - Max Horz 1=177(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-172(LC 12), 6=-172(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=411(LC 22), 9=560(LC 19), 6=560(LC 20)

Matrix-S

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

Code IRC2015/TPI2014

WEBS 2-9=-428/293, 4-6=-428/292

- 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 9-3-1, Exterior(2) 9-3-1 to 13-7-14, Interior(1) 13-7-14 to 18-1-6 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.
- 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=172, 6=172.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022





Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows	150050505
J0722-3818	V2	VALLEY	1		1	150256527
					Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,	7-10-5 7-10-5		tpROz2W	ug 16 2021 MiTek Industries, Inc. Tue Feb 15 ' QowydkZWIWVnbL7gVdqxw9J_2TgPD2kCFc 15-8-9 7-10-4	
			4x4 =			Scale = 1:41.
	φ φ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ	10.00 12 2x4 10 9 9 8 13 2x4	7 2x4	14	11 2x4 4 12 5 6 3x4 N	
	1		15-8-2		15-8-9 0-0-7	
			15-8-2		0 0 7	

Plate Off	Plate Offsets (X,Y) [4:0-0-0,0-0-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	` -	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 69 lb	FT = 20%	

LUMBER-

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

OTHERS 2x4 SP No.1

BRACING-TOP CHORD

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

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

REACTIONS. All bearings 15-7-11.

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

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-143(LC 12), 6=-142(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=411(LC 19), 8=429(LC 19), 6=429(LC 20)

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

WEBS 2-8=-356/254, 4-6=-356/254

- 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) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-10-5, Exterior(2) 7-10-5 to 12-3-1, Interior(1) 12-3-1 to 15-3-12 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.
- 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) 8=143, 6=142.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022



ob	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows	
						150256528
0722-3818	V3	VALLEY	1	1		
					Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,				g 16 2021 MiTek Industries, Inc. Tue Feb 15	
		0.5.0	ID:a1XuLo?nW		Q0wydkZW-Sx4u_xMlRplgZ4kVYm_vyQbvlf	BlqGMazWsk5AzkswL
	├	6-5-8 6-5-8		1	2-11-0 6-5-8	
		0-5-0			0-3-0	
			4x4 =			Scale = 1:34.
			4.4 —			
			3			
	Ī					
			// \\			
		10.00 12 10		11		
		10.00 12 10	/ \	. \		
	6			//		
	2-4	2x4			2x4	
		. //			4 2 4 11	
		9 🗖			12	
		*/ <u> </u>				
					5	
	1 /	// <u> </u>				
		✓ I□I				
] e		191			

	0-0-7				12-10-9								
sets (X,Y)	[4:0-0-0,0-0-0]												
G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	3	GRIP	
20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20		244/190	
10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999				
0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a				
10.0	Code IRC2015/TF	PI2014	Matri	x-S	` ′					Weight:	54 lb	FT = 20%	
	G (psf) 20.0 10.0 0.0 *	Sets (X,Y)-	Sets (X,Y)- [4:0-0-0,0-0-0] G (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.15 10.0 Lumber DOL 1.15 0.0 * Rep Stress Incr YES	sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 20.0 2-0-0 1.15 CSI. 10.0 Lumber DOL 0.0 * 1.15 BC Rep Stress Incr YES WB	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.15 TC 0.13 10.0 Lumber DOL 1.15 BC 0.09 0.0 * Rep Stress Incr YES WB 0.07	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.15 CSI. TC 0.13 DEFL. Vert(LL) 10.0 Lumber DOL 0.0 * 1.15 BC 0.09 Vert(CT) 0.0 * Rep Stress Incr YES WB 0.07 Horz(CT)	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 2-0-0 CSI. DEFL. in 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) n/a 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a 0.0 * Rep Stress Incr YES WB 0.07 Horz(CT) 0.00	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) n/a - 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a - 0.0 * Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.15 CSI. TC 0.13 DEFL. Vert(LL) in (loc) I/defl 10.0 Lumber DOL 0.0 * 1.15 BC 0.09 Vert(CT) n/a - n/a Horz(CT) n/a	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.15 CSI. TC 0.13 DEFL. Vert(LL) in (loc) I/defl L/d 10.0 Lumber DOL 0.0 * 1.15 BC 0.09 Vert(CT) n/a - n/a 999 0.0 * Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.15 CSI. TC 0.13 DEFL. Vert(LL) in (loc) I/defl L/d PLATES 10.0 Lumber DOL 0.0 * 1.15 BC 0.09 Vert(CT) n/a - n/a 999 MT20 Horz(CT) Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.15 CSI. TC 0.13 DEFL. Vert(LL) in (loc) I/defl n/a - n/a 999 L/d PLATES 10.0 Lumber DOL 0.0 * 1.15 BC 0.09 Vert(CT) Horz(CT) n/a - n/a 999 MT20 Horz(CT) 0.00 5 n/a n/a n/a	Sets (X,Y) [4:0-0-0,0-0-0] G (psf) SPACING- 20.0 2-0-0 Plate Grip DOL 1.15 CSI. TC 0.13 DEFL. Vert(LL) in (loc) I/defl L/d PLATES GRIP 10.0 Lumber DOL 0.0 * 1.15 BC 0.09 Vert(LL) n/a - n/a 999 MT20 244/190 Horz(CT) 0.0 * Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a

7

2x4 ||

LUMBER-

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

BOT CHORD 2x4 SP No.2 OTHERS

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.

6 2x4 || 3x4 🚿

REACTIONS. All bearings 12-10-1.

(lb) - Max Horz 1=-121(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-124(LC 12), 6=-124(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=330(LC 19), 6=330(LC 20)

8

2x4 ||

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

3x4 1/

WEBS 2-8=-314/239, 4-6=-314/239

- Unbalanced roof live loads have been considered for this design.
- 17) Unidad Note in the first and state of the control of the co 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, 5 except (jt=lb) 8=124, 6=124.
- 6) Non Standard bearing condition. Review required.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022





Job Truss Truss Type Qty Ply Lot 34 Liberty Meadows 150256529 J0722-3818 V4 VALLEY Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:45 2022 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-w8eGCHNNC6tXBEIh6TV8Ue73V3WtZkqjCAbIdczkswK 5-0-11 5-0-11 Scale = 1:27.1 4x4 =10.00 12 4 2x4 // 2x4 N 2x4 || 10-0-15 10-1-6 0-0-7 10-0-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES GRIP** in (loc) I/defl L/d 20.0 Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 1.15 0.23 n/a 999 MT20 n/a TCDL 10.0 Lumber DOL 1.15 вс 0.16 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.06 Horz(CT) 0.00 3 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

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

Weight: 38 lb

FT = 20%

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

REACTIONS. (size) 1=10-0-8, 3=10-0-8, 4=10-0-8

Max Horz 1=93(LC 11)

Max Uplift 1=-22(LC 13), 3=-30(LC 13)

Max Grav 1=199(LC 1), 3=199(LC 1), 4=347(LC 1)

Code IRC2015/TPI2014

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

Matrix-S

- 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022





Job	Truss	Truss	Гуре		Qty	Ply	Lot 34	Liberty Meadow	rs .	150050500
J0722-3818	V5	VALLE	Y		1	1				150256530
00722 0010	100	*/\.			•		Job Re	eference (optiona	al)	
Comtech, Inc, Fayette	eville, NC - 28314,	'					16 202	1 MiTek Industri	es, Inc. Tue Feb 15 1	14:17:47 2022 Page 1
			0.744	ID:aTXuLo	?nW09qtp	ROz2WC	00wydkZ	ZW-sWm0dzOdjk	r7FQXS4DuXcZ3DP9	hDb1er0fU4OiUzkswl
	ŀ		3-7-14 3-7-14	-		7-3 3-7	-13 -15		—	
			0714			0 /	10			
				4x4 =						Scale = 1:21.0
	-			2						
				/ 人 \						
		10.	00 12							
				/ `	\ \					
					/)					
						, \				
	3-0-8									
	rd rd									
			/ /			`	\ \			
		//						3		
		1//								
	ي ا								\ <u>\</u>	
	9-0-0								9-0-0	
	_									
				4						
		2x4 //		2x4				2x4 📏		
	0-ç 0-c)-7		7-3-13					1	
	o-6	-7		7-3-6						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0 1.15	TC 0.15	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)			n/a	999	101120	277/100
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT			n/a	n/a		
BCDL 10.0	Code IRC2015/7		Matrix-P						Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 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. (size) 1=7-2-14, 3=7-2-14, 4=7-2-14

Max Horz 1=-65(LC 8)

Max Uplift 1=-23(LC 13), 3=-29(LC 13)

Max Grav 1=151(LC 1), 3=151(LC 1), 4=220(LC 1)

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

- 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 16,2022





Job Truss Truss Type Qty Ply Lot 34 Liberty Meadows 150256531 J0722-3818 V6 VALLEY Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:48 2022 Page 1 ID: aTXuLo? nW09qtpROz2WQ0wydkZW-KiJOqJPFU1F62h1Gnb2r6GlcaGafm5H9u8qyExzkswHarror and the compact of the comp2-3-1 2-3-1 4x4 = Scale = 1:12.2 10.00 12 3 9-0-0 9-0-0 4 2x4 // 2x4 || 2x4 📏 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl Plate Grip DOL 20.0 TC Vert(LL) 244/190 **TCLL** 1.15 0.05 n/a 999 MT20 n/a TCDL 10.0 Lumber DOL 1.15 вс 0.03 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.01 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 16 lb FT = 20% LUMBER-BRACING-

TOP CHORD

BOT CHORD

BOT CHORD REACTIONS.

TOP CHORD

OTHERS

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

Max Horz 1=-37(LC 8)

2x4 SP No.1 2x4 SP No.1

2x4 SP No.2

Max Uplift 1=-13(LC 13), 3=-16(LC 13)

Max Grav 1=86(LC 1), 3=86(LC 1), 4=125(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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-6-3 oc purlins.

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

February 16,2022



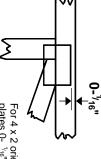


Symbols

PLATE LOCATION AND ORIENTATION



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



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

ω

O

S

required direction of slots in connector plates 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



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

BEARING



number where bearings occur.

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

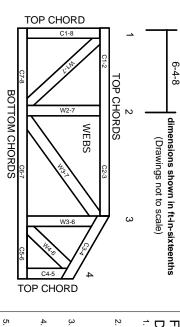
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction

DSB-89:

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

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

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

© 2012 MiTek® All Rights Reserved

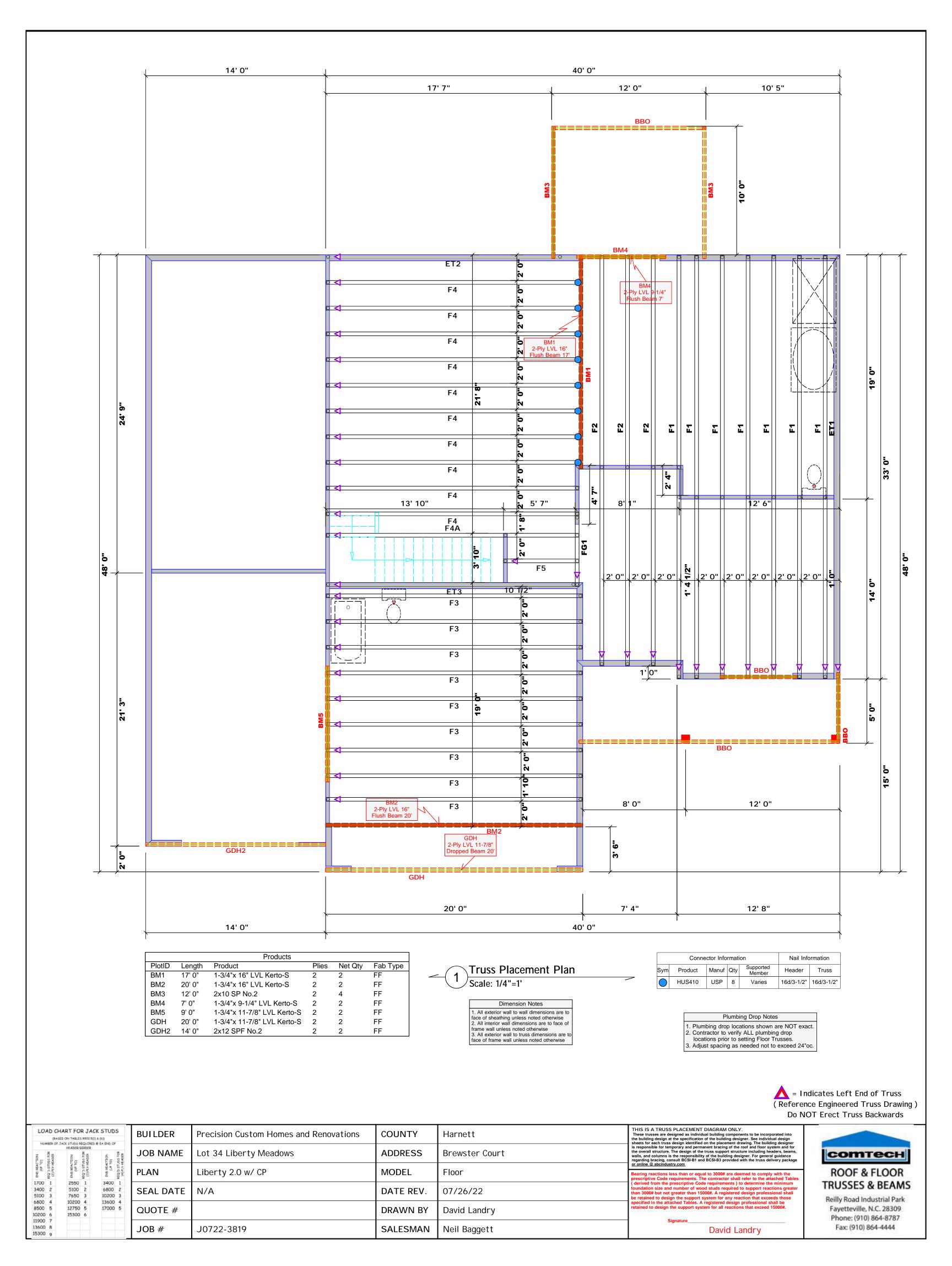


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words 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.





Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court** Cameron, NC 28396

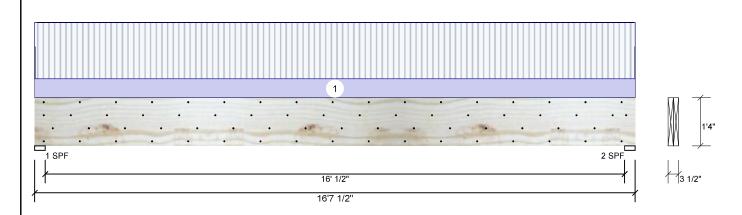
7/26/2022 Date:

Input by: David Landry Job Name: Lot 34 Liberty Meadows Page 1 of 1

J0722-3819 Project #:

Level: Level

Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED BM1



Member Info	rmation			Rea	ctions UNP	ATTERN	IED lb (Uplif	t)		
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	3333	1217	0	0	0
Moisture Condition	on: Dry	Building Code:	IBC 2012	2	Vertical	3333	1217	0	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bea	rings					
				Bea	aring Length	Dir.	Cap. React D	/L lb Total	Ld. Case	Ld. Comb.
				1 -	SPF 3.500"	Vert	87% 1217 /	3333 4551	L	D+L
					CDE 2 500"	Vort	970/. 1917 /	2222 4551		D±I

Analysis Results

l	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	17931 ft-lb	8'3 3/4"	34565 ft-lb	0.519 (52%)	D+L	L
	Unbraced	17931 ft-lb	8'3 3/4"	17951 ft-lb	0.999 (100%)	D+L	L
	Shear	4391 lb	15'	11947 lb	0.368 (37%)	D+L	L
	LL Defl inch	0.286 (L/678)	8'3 13/16"	0.405 (L/480)	0.707 (71%)	L	L
	TL Defl inch	0.391 (L/497)	8'3 13/16"	0.809 (L/240)	0.483 (48%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be laterally braced at a maximum of 6'5 3/4" o.c.
- 6 Bottom must be laterally braced at end bearings.

Uniform

7 Lateral	l slenderness ratio based on si	ngle ply width.				
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1

Snow 1.15 Wind 1.6 Const. 1.25 Comments 134 PLF 401 PLF 0 PLF 0 PLF 0 PLF F4

Self Weight 12 PLF

Near Face

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA





isDesign

Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court**

Cameron, NC 28396

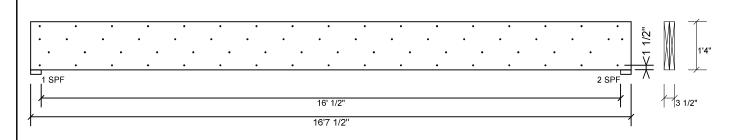
7/26/2022 Date:

Input by: David Landry Job Name: Lot 34 Liberty Meadows Page 2 of 1

J0722-3819 Project #:

Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED BM1

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 81.7 % 267.5 PLF Load Yield Limit per Foot 327.4 PLF Yield Limit per Fastener 81.9 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" D+L Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, it is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

Manufacturer Info

www.metsawood.com/us

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







Client: Precision Custom Homes

Project: Liberty 2.0 Address:

Brewster Court Cameron, NC 28396

7/26/2022 Date:

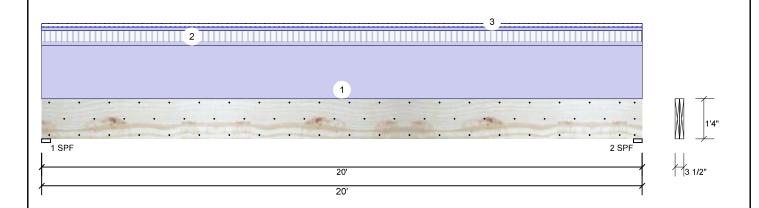
Input by: David Landry Job Name: Lot 34 Liberty Meadows Page 3 of 1

D+0.75(L+S)

J0722-3819 Project #:

Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED BM₂

Level: Level



Member Information Reactions UNPATTERNED lb (Uplift) Live Girder Floor Dead Application: Brg Direction Wind Type: Snow Const Plies: 2 Design Method: ASD 2409 Vertical 400 135 0 1 0 Moisture Condition: Dry **Building Code:** IBC 2012 2409 135 0 0 2 Vertical 400 Deflection LL: 480 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 54% 2409 / 401 2811 L D+0.75(L+S)

2 - SPF 3.500"

Vert

54%

2409 / 401

2811 I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13439 ft-lb	10'	34565 ft-lb	0.389 (39%)	D+L	L
Unbraced	13439 ft-lb	10'	13492 ft-lb	0.996 (100%)	D+L	L
Shear	2461 lb	18'4 1/2"	11947 lb	0.206 (21%)	D+L	L
LL Defl inch	0.059 (L/3960)	10' 1/16"	0.489 (L/480)	0.121 (12%)	0.75(L+S)	L
TL Defl inch	0.415 (L/565)	10' 1/16"	0.978 (L/240)	0.425 (42%)	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 8'9 7/16" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above, C1GE	
2	Tie-In	0-0-0 to 20-0-0	1-0-0	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor Load	
3	Tie-In	0-0-0 to 20-0-0	0-6-0	Near Face	27 PSF	0 PSF	27 PSF	0 PSF	0 PSF	J3	
	Self Weight				12 PLF						

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA





isDesign

Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court**

Cameron, NC 28396

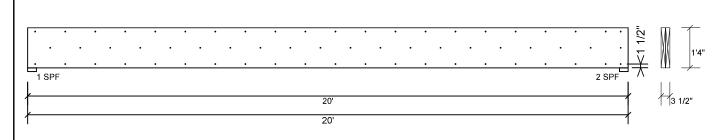
7/26/2022 Date:

Input by: David Landry Job Name: Lot 34 Liberty Meadows Page 4 of 1

J0722-3819 Project #:

Kerto-S LVL 1.750" X 16.000" 2-Ply - PASSED BM₂

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 11.2 % 27.5 PLF Load Yield Limit per Foot 245.6 PLF Yield Limit per Fastener 81.9 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" D+L Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design oritina and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

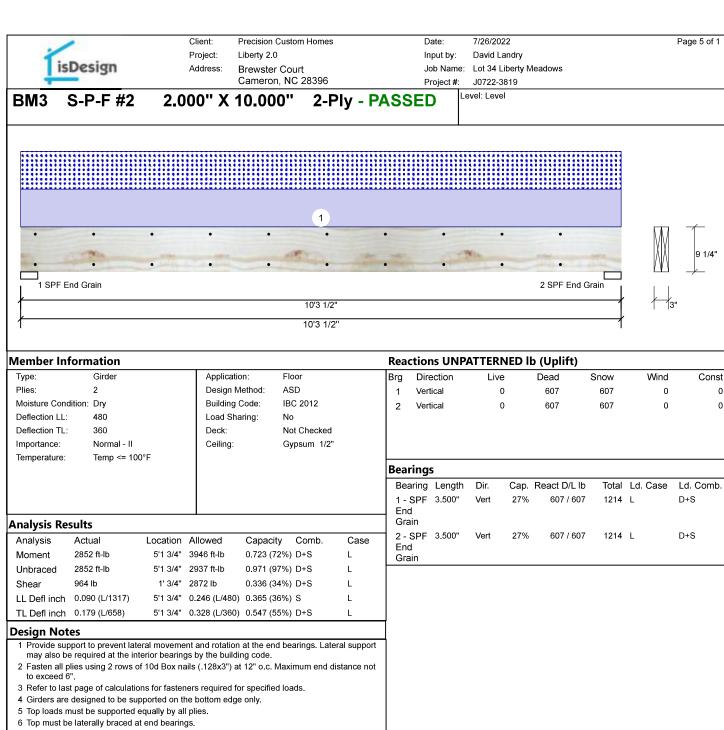
Manufacturer Info

www.metsawood.com/us

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	118 PLF	0 PLF	118 PLF	0 PLF	0 PLF	B2

This design is valid until 11/3/2024

Manufacturer Info Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA соттесн



0

0



Client: Precision Custom Homes

Project: Liberty 2.0
Address: Brewster

Brewster Court Cameron, NC 28396 Date: 7/26/2022 Input by: David Land

Input by: David Landry

Job Name: Lot 34 Liberty Meadows

Page 6 of 1

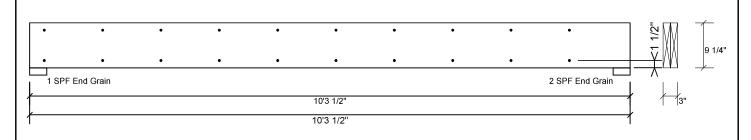
Project #: J0722-3819

BM3 S-P-F #2

2.000" X 10.000"

2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

0.0 % Capacity 0.0 PLF Load Yield Limit per Foot 157.4 PLF Yield Limit per Fastener 78.7 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination 1.00 Duration Factor

Manufacturer Info

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS



Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court**

Cameron, NC 28396

7/26/2022 Date:

Input by: David Landry Job Name: Lot 34 Liberty Meadows

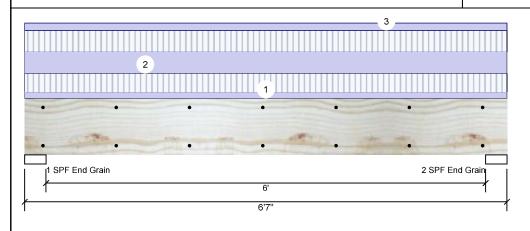
J0722-3819 Project #:

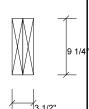
Level: Level

Kerto-S LVL BM4

1.750" X 9.250"

2-Ply - PASSED





Page 7 of 1

Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Floor Application: Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No

Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2149	1903	0	0	0
2	Vertical	2149	1903	0	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5774 ft-lb	3'3 1/2"	12542 ft-lb	0.460 (46%)	D+L	L
Unbraced	5774 ft-lb	3'3 1/2"	9934 ft-lb	0.581 (58%)	D+L	L
Shear	2750 lb	1' 3/4"	6907 lb	0.398 (40%)	D+L	L
LL Defl inch	0.056 (L/1320)	3'3 1/2"	0.153 (L/480)	0.364 (36%)	L	L
TL Defl inch	0.105 (L/700)	3'3 1/2"	0.204 (L/360)	0.514 (51%)	D+L	L

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	39%	1903 / 2149	4053	L	D+L
2 - SPF End Grain	3.500"	Vert	39%	1903 / 2149	4053	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6"
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

a Editoral cicinatinatinatination and bacterian circumstantinatinatinatinatinatinatinatinatinat											
	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	1	Uniform			Тор	102 PLF	304 PLF	0 PLF	0 PLF	0 PLF	F2
	2	Uniform			Тор	349 PLF	349 PLF	0 PLF	0 PLF	0 PLF	A1
	3	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above

Self Weight 7 PLF

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS





isDesign

Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court**

Cameron, NC 28396

Job Name: Lot 34 Liberty Meadows

Date:

Input by:

J0722-3819 Project #:

Kerto-S LVL BM4

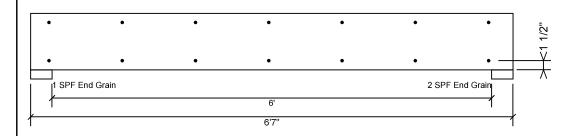
1.750" X 9.250"

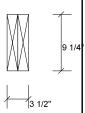
2-Ply - PASSED

Level: Level

7/26/2022

David Landry





Page 8 of 1

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 0.0 % 0.0 PLF Load Yield Limit per Foot 163.7 PLF Yield Limit per Fastener 81.9 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

Manufacturer Info

www.metsawood.com/us

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court**

Cameron, NC 28396

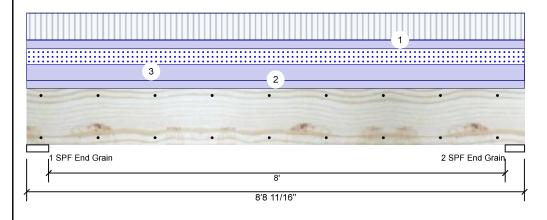
7/26/2022 Date:

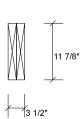
Input by: David Landry Job Name: Lot 34 Liberty Meadows

J0722-3819 Project #:

_evel: Level

2-Ply - PASSED **Kerto-S LVL** 1.750" X 11.875" BM₅





Page 9 of 1

Girder Type: Plies: Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240 Importance: Normal - II Temp <= 100°F Temperature:

Floor Application: Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No

Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1772	2203	1044	0	0
2	Vertical	1753	2179	1033	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7478 ft-lb	4'4 5/8"	19911 ft-lb	0.376 (38%)	D+L	L
Unbraced	8118 ft-lb	4'4 5/8"	11006 ft-lb	0.738 (74%)	D+0.75(L+S)	L
Shear	2737 lb	1'4 1/2"	8867 lb	0.309 (31%)	D+L	L
LL Defl inch	0.059 (L/1643)	4'4 11/16"	0.203 (L/480)	0.292 (29%)	0.75(L+S)	L
TL Defl inch	0.121 (L/804)	4'4 11/16"	0.406 (L/240)	0.298 (30%)	D+0.75(L+S)	L

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.625"	Vert	32%	2203 / 2112	4314	L	D+0.75(L+S)
2 - SPF End Grain	4.063"	Vert	36%	2179 / 2089	4268	L	D+0.75(L+S)

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6"
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

ı	o Lateral olonia		omigio più irrami								
I	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
I	1	Part. Uniform	0-0-0 to 8-8-11		Тор	135 PLF	404 PLF	0 PLF	0 PLF	0 PLF	F3
I	2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
I	3	Uniform			Тор	238 PLF	0 PLF	238 PLF	0 PLF	0 PLF	C1

Self Weight 9 PLF

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info





isDesign

Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court**

Cameron, NC 28396

7/26/2022 Date:

Input by: David Landry Job Name: Lot 34 Liberty Meadows

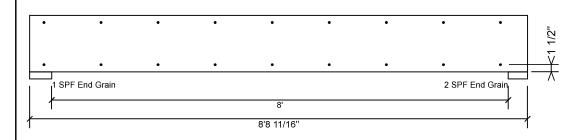
J0722-3819 Project #:

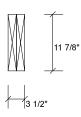
Kerto-S LVL BM5

1.750" X 11.875"

2-Ply - PASSED

Level: Level





Page 10 of 1

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 0.0 % 0.0 PLF Load Yield Limit per Foot 163.7 PLF Yield Limit per Fastener 81.9 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850

www.metsawood.com/us

Manufacturer Info







Client: Precision Custom Homes

Project: Liberty 2.0

Address: **Brewster Court** Cameron, NC 28396

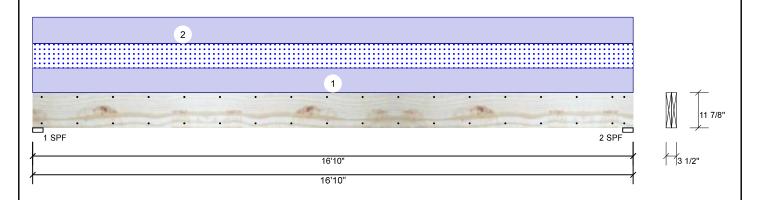
7/26/2022 Date:

Input by: David Landry Job Name: Lot 34 Liberty Meadows Page 11 of 1

J0722-3819 Project #:

Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED **GDH**

Level: Level



Member Infor	mation			Read	tions UNP	ATTERN	ED lb (Uplif	t)		
Туре:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	0	1054	471	0	0
Moisture Condition	n: Dry	Building Code:	IBC 2012	2	Vertical	0	1054	471	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bear	rings					
				Bea	aring Length	Dir.	Cap. React D/	L lb Total	Ld. Case	Ld. Comb.
				1 - 3	SPF 3.500"	Vert	29% 1054 /	471 1525	L	D+S
				2-	SPF 3.500"	Vert	29% 1054 /	471 1525	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6075 ft-lb	8'5"	22897 ft-lb	0.265 (27%)	D+S	L
Unbraced	6075 ft-lb	8'5"	6086 ft-lb	0.998 (100%)	D+S	L
Shear	1413 lb	1'3 3/8"	10197 lb	0.139 (14%)	D+S	L
LL Defl inch	0.098 (L/2006)	8'5 1/16"	0.409 (L/480)	0.239 (24%)	S	L
TL Defl inch	0.317 (L/620)	8'5 1/16"	0.819 (L/240)	0.387 (39%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Near Face	56 PLF	0 PLF	56 PLF	0 PLF	0 PLF	J3	
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above	
	Self Weight				9 PLF						

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info





isDesign

Client: Precision Custom Homes

Project: Liberty 2.0

Address: Cameron, NC 28396

Brewster Court

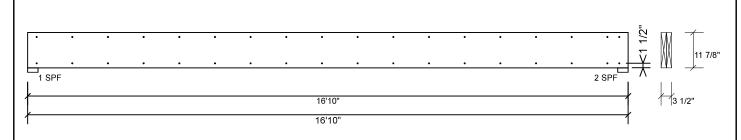
7/26/2022 Date:

Input by: David Landry Job Name: Lot 34 Liberty Meadows Page 12 of 1

J0722-3819 Project #:

Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED **GDH**

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity 29.7 % 56.0 PLF Load Yield Limit per Foot 188.3 PLF Yield Limit per Fastener 94.1 lb. IV Yield Mode Edge Distance 1 1/2" 3" Min. End Distance D+S Load Combination Duration Factor 1.15

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info







Client: Precision Custom Homes

Project: Liberty 2.0

Address: Brewster Court Cameron, NC 28396 Date: 7/26/2022 Input by: David Land

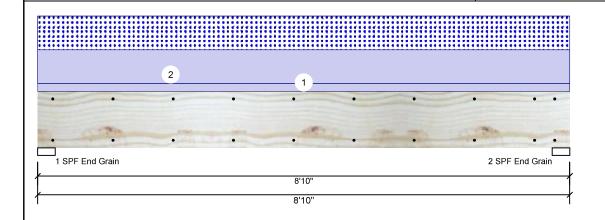
Input by: David Landry
Job Name: Lot 34 Liberty Meadows

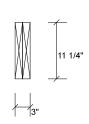
Project #: J0722-3819

GDH2 S-P-F #2 2.000" X 12

2.000" X 12.000" 2-Ply - PASSED

Level: Level





Page 13 of 1

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II

Temp <= 100°F

Member Information

Application: Floor
Design Method: ASD
Building Code: IBC 2012
Load Sharing: No

Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)											
Brg	Direction	Live	Dead	Snow	Wind	Const					
1	Vertical	0	1413	1148	0	0					
2	Vertical	0	1413	1148	0	0					

Analysis Results

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5085 ft-lb	4'5"	5306 ft-lb	0.958 (96%)	D+S	L
Unbraced	5085 ft-lb	4'5"	5088 ft-lb	0.999 (100%)	D+S	L
Shear	1849 lb	7'7 1/4"	3493 lb	0.529 (53%)	D+S	L
LL Defl inch	0.058 (L/1740)	4'5 1/16"	0.209 (L/480)	0.276 (28%)	S	L
TL Defl inch	0.129 (L/780)	4'5 1/16"	0.279 (L/360)	0.461 (46%)	D+S	L

Bearings

Bearing Leng	gth Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.50 End Grain	0" Vert	57%	1413 / 1148	2562	L	D+S
2 - SPF 3.50 End Grain	0" Vert	57%	1413 / 1148	2562	L	D+S

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 3'3 5/8" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
2	Uniform			Тор	260 PLF	0 PLF	260 PLF	0 PLF	0 PLF	G1

This design is valid until 11/3/2024

Manufacturer info

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-964-TRUS



Client: Precision Custom Homes

Project: Liberty 2.0

Address: Brewster Court Cameron, NC 28396

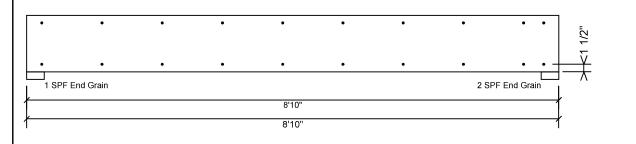
Date: 7/26/2022

Input by: David Landry

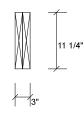
Job Name: Lot 34 Liberty Meadows

GDH2 S-P-F #2 2.000" X 12.000" 2-Ply - PASSED

Project #: J0722-3819



This design is valid until 11/3/2024



Page 14 of 1

Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

0.0 % Capacity 0.0 PLF Load Yield Limit per Foot 157.4 PLF Yield Limit per Fastener 78.7 lb. Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Manufacturer Info

Comtech, Inc.
1001 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-964-TRUS



RE: J0722-3819

Lot 34 Liberty Meadows

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Precision Custom Homes and Renovations Project Name: J0722-3819 Lot/Block: 34 Model: Liberty 2.0

Address: Brester Court Subdivision: Liberty Meadows

State: NC City: Cameron

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	150256534	ET1	2/16/2022
2	150256535	ET2	2/16/2022
3	150256536	ET3	2/16/2022
4	150256537	F1	2/16/2022
5	150256538	F2	2/16/2022
6	150256539	F3	2/16/2022
7	150256540	F4	2/16/2022
8	150256541	F4A	2/16/2022
9	150256542	F5	2/16/2022
10	150256543	FG1	2/16/2022

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

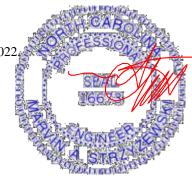
based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Strzyzewski, Marvin

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

North Carolina COA: C-0844

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



Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
10700 0040	ET4	CARLE	_		150256534
J0722-3819	ET1	GABLE	1	1	Job Reference (optional)

0-1₁-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:50 2022 Page 1

0-1-8

Scale = 1:55.0

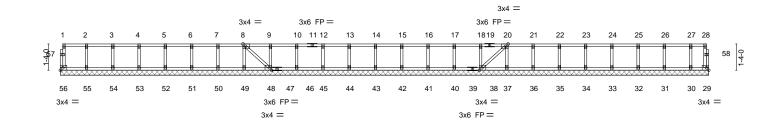


Plate Off	ate Offsets (X,Y) [8:0-1-8,Edge], [20:0-1-8,Edge], [38:0-1-8,Edge] [48:0-1-8,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	Ÿ0.Ó	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	· -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	38	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix	<-S						Weight: 147 lb	FT = 20%F, 11%E

BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 32-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 56, 29, 55, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30

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

NOTES-

LUMBER-

TOP CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 16,2022





L	lob	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
	10722-3819	FT2	GABLE	1	1	150256535
1	10722-3013	L12	OABLE	'	· '	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:50 2022 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-6lhrB4UO2a47mDODiJJQ6xrxn4FQE_RSLSJ2JpzkswF

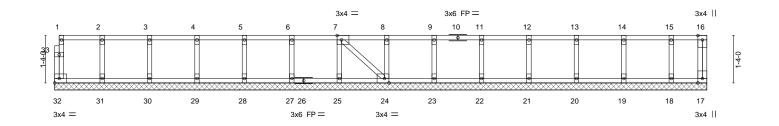
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-<u>1</u>-8

Scale = 1:30.5



1-4-0		5-4-0 6-8- I-4-0 1-4-		4-0 10-8-0 4-0 1-4-0	12-0-0	13-4-0 1-4-0 1-4-0	16-0-0 17- 1-4-0 1-4	4-0 18-4-0 -0 1-0-0
Plate Offsets (X,Y)	[7:0-1-8,Edge], [24:0-1-8,	Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.00 1.00 NO	CSI. TC 0.07 BC 0.01 WB 0.03 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 17	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 84 lb	GRIP 244/190 FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 18-4-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



February 16,2022



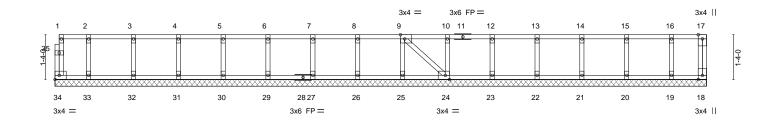


Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
J0722-3819	ET2	GABLE	1	1	150256536
30722-3619	L13	GABLE	'	· '	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:51 2022 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-axFDOQU0ptC_ONzPFTqff9N7fUbgzRhba62crGzkswE

0-11-8

Scale: 3/8"=1'



1-0-0 2-4-		6-4-0 7-8-0 1-4-0 1-4-0	9-0-0	10-4-0 11-8- 1-4-0 1-4-0		14-4-0 15-8-		-4-0 19-4-8 4-0 1-0-8		
Plate Offsets (X,Y)	Plate Offsets (X,Y) [9:0-1-8,Edge], [24:0-1-8,Edge]									
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0- Plate Grip DOL 1.0 Lumber DOL 1.0 Rep Stress Incr YE Code IRC2015/TPI2014	TC BC WB	0.06 0.01 0.03 c-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 18	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 89 lb	GRIP 244/190 FT = 20%F, 11%E		

LUMBER-TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

2x4 SP No.3(flat)

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 19-4-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



February 16,2022



Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows	
10700 0010			_	١.	1502565	537
J0722-3819	F1	Floor	7	1	Joh Deference (entional)	
					Job Reference (optional)	

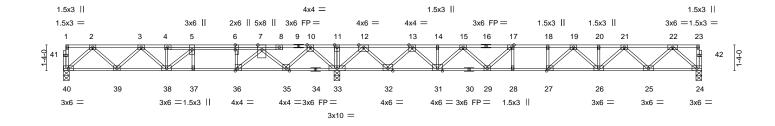
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:53 2022 Page 1 ID: aTXuLo? nW09qtpROz2WQ0wydkZW-WKNzp6WGLVSidg7oNus7kaTKAH5SRCuu1QXjv8zkswCllored and the state of the sta

0-1-8

HI 1-3-0 2-1-4

1-8-4

0-1-8 Scale = 1:55.9



L		1717					02 1	1 0			
		14-1-4		18-9-12							
Plate Off	sets (X,Y)	[6:0-3-0,0-0-0], [17:0-1-8,Ed	ge], [27:0-1-8,Edge], [36:	:0-1-8,Edge]							
LOADIN	G (psf)	SPACING- 2	2-0-0 CSI .		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00 TC	0.63	Vert(LL)	-0.20	27	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00 BC	0.82	Vert(CT)	-0.27 26	-27	>820	360		
BCLL	0.0	Rep Stress Incr	YES WB	0.63	Horz(CT)	0.04	24	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI20	014 Matrix	-S						Weight: 180 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

BRACING-TOP CHORD BOT CHORD

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

32-11-0

except end verticals.

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

REACTIONS. (size) 40=0-3-8, 24=0-3-8, 33=0-3-8

Max Grav 40=662(LC 3), 24=882(LC 4), 33=2190(LC 1)

14-1-4

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

TOP CHORD 2-3=-1110/36, 3-4=-1659/212, 4-5=-1659/219, 5-6=-1602/621, 6-7=-1602/621,

7-10=-392/1404, 10-11=0/2571, 11-12=0/2571, 12-13=-40/475, 13-14=-1631/0,

14-15=-1631/0, 15-17=-2564/0, 17-18=-2931/0, 18-19=-2931/0, 19-20=-2592/0, 20-21=-2592/0. 21-22=-1586/0

39-40=0/704, 38-39=-106/1489, 37-38=-621/1602, 36-37=-621/1602, 35-36=-1086/1024,

BOT CHORD 33-35=-1709/0, 32-33=-1291/0, 31-32=-200/935, 29-31=0/2220, 28-29=0/2931,

27-28=0/2931, 26-27=0/2856, 25-26=0/2193, 24-25=0/952

WEBS 2-40=-935/0, 2-39=-59/564, 3-39=-528/98, 4-38=-325/0, 5-38=0/648, 22-24=-1266/0, 22-25=0/881, 21-25=-845/0, 21-26=0/542, 19-26=-358/0, 19-27=-253/331,

12-33=-1704/0, 12-32=0/1314, 10-33=-1399/0, 10-35=0/993, 7-35=-1033/0, 7-36=0/1214,

6-36=-690/0, 13-32=-1288/0, 13-31=0/991, 15-31=-835/0, 15-29=0/579, 17-29=-718/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



February 16,2022





Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
J0722-3819	Eo	Floor	2	1	150256538
30722-3019	F2	FIOOI	3	'	Job Reference (optional)

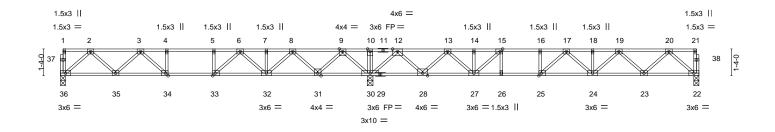
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:54 2022 Page 1 $ID: aTXuLo?nW09qtpROz2WQ0wydkZW-_WxL1SXu6oaZFqh_xbNMGn?RUhPDAgT2G4HGSazkswBa$

0-1-8

HI 1-3-0 2-2-12

1-9-12

0-1-8 Scale = 1:54.2



	15-5		31-11-0								
	15-5		16-5-4								
Plate Offsets (X,Y)	Plate Offsets (X,Y) [15:0-1-8,Edge], [25:0-1-8,Edge], [33:0-1-8,Edge] [34:0-1-8,Edge]										
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI	2-0-0 1.00 1.00 YES	CSI. TC BC WB Matrix	0.85 0.91 0.54	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (-0.18 24 -0.25 24 0.04		l/defl >999 >776 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 167 lb	GRIP 244/190 FT = 20%F. 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS

2x4 SP No.3(flat)

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

REACTIONS. (size) 36=0-3-0, 30=0-3-8, 22=0-3-0

Max Grav 36=719(LC 3), 30=2079(LC 1), 22=795(LC 4)

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

TOP CHORD 2-3=-1229/0, 3-4=-1941/0, 4-5=-1941/0, 5-6=-1941/0, 6-7=-1408/202, 7-8=-1408/202,

 $8-9 = -241/659, \ 9-10 = 0/2218, \ 10-12 = 0/2218, \ 12-13 = -523/817, \ 13-14 = -1712/332, \ 12-13 = -523/817, \ 12-13$ 14-15=-1712/332, 15-16=-2291/0, 16-17=-2291/0, 17-18=-2225/0, 18-19=-2225/0,

19-20=-1395/0

 $35\cdot 36=0/769,\ 34\cdot 35=0/1668,\ 33\cdot 34=0/1941,\ 32\cdot 33=\cdot 35/1748,\ 31\cdot 32=\cdot 414/927,\ 30\cdot 31=\cdot 1214/0,\ 28\cdot 30=\cdot 1129/0,\ 27\cdot 28=\cdot 547/1232,\ 26\cdot 27=0/2291,\ 25\cdot 26=0/2291,\ 27\cdot 28=\cdot 547/1232,\ 26\cdot 27=0/2291,\ 27\cdot 28=\cdot 129/0,\ 27\cdot 29=\cdot 129/0,\ 27\cdot 29=\cdot 129/0,\$

24-25=0/2385, 23-24=0/1918, 22-23=0/852

WEBS 2-36=-1022/0, 2-35=0/640, 3-35=-610/0, 3-34=-83/372, 9-30=-1439/0, 9-31=0/1062,

20-22=-1132/0, 20-23=0/755, 19-23=-728/0, 19-24=-1/417, 17-25=-477/33, 12-30=-1508/0, 8-31=-1027/0, 8-32=0/734, 6-32=-547/0, 6-33=0/628, 5-33=-320/0,

12-28=0/1134, 13-28=-1085/0, 13-27=0/740, 15-27=-1088/0, 15-26=0/273

NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



February 16,2022





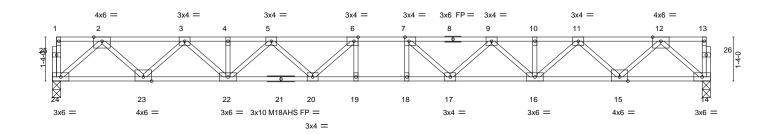
Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
J0722-3819	E2	Floor		,	150256539
30722-3819	r3	Floor	9	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:55 2022 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-SjVkEoXWt6iQs_GAUJvbp?Yhn5ltv7XBVk0p_1zkswA

Structural wood sheathing directly applied or 5-9-6 oc purlins,

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

except end verticals.



19-11-0 19-11-0 [6:0-1-8,Edge], [7:0-1-8,Edge] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 (loc) I/defl L/d **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.56 Vert(LL) -0.33 18-19 >724 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.95 Vert(CT) -0.45 18-19 >526 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.55 Horz(CT) 0.08 n/a n/a BCDL Code IRC2015/TPI2014 Matrix-S Weight: 106 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=0-3-0, 14=0-3-0

Max Grav 24=1075(LC 1), 14=1075(LC 1)

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

TOP CHORD 2-3=-2005/0, 3-4=-3408/0, 4-5=-3408/0, 5-6=-4160/0, 6-7=-4391/0, 7-9=-4160/0,

9-10=-3408/0, 10-11=-3408/0, 11-12=-2005/0 IORD 23-24=0/1172 22-23=0/2810 20-22=0/3918

BOT CHORD 23-24=0/1172, 22-23=0/2810, 20-22=0/3918, 19-20=0/4391, 18-19=0/4391, 17-18=0/4391,

16-17=0/3918, 15-16=0/2810, 14-15=0/1172

WEBS 2-24=-1557/0, 2-23=0/1160, 3-23=-1119/0, 3-22=0/814, 5-22=-693/0, 5-20=0/469,

6-20=-575/87, 12-14=-1557/0, 12-15=0/1160, 11-15=-1119/0, 11-16=0/814, 9-16=-693/0,

9-17=0/469, 7-17=-575/87

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 16,2022

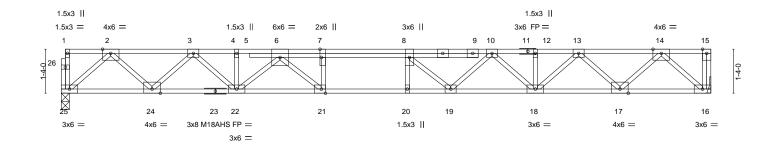




Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
J0722-3819	E4	Floor	10	,	150256540
30722-3019	F4	Floor	10	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:55 2022 Page 1 $ID: aTXuLo?nW09qtpROz2WQ0wydkZW-SjVkEoXWt6iQs_GAUJvbp?YjO5mxv7gBVk0p_1zkswAnd for the property of the proper$





						10 0 0						
						19-8-0						'
Plate Off	sets (X,Y)	[7:0-3-0,Edge], [21:0-1-8	,Edge]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.29	20	>806	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.40	20	>587	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	16	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	k-S	, ,					Weight: 112 lb	FT = 20%F, 11%E

19-8-0

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS

2x4 SP No.3(flat)

BRACING-TOP CHORD

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

except end verticals.

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

REACTIONS. (size) 25=0-3-0, 16=Mechanical

Max Grav 25=1062(LC 1), 16=1068(LC 1)

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

TOP CHORD 2-3=-1976/0, 3-4=-3346/0, 4-6=-3350/0, 6-7=-4437/0, 7-8=-4437/0, 8-10=-4140/0,

10-12=-3354/0, 12-13=-3354/0, 13-14=-1976/0

BOT CHORD 24-25=0/1156, 22-24=0/2765, 21-22=0/3951, 20-21=0/4437, 19-20=0/4437, 18-19=0/3823,

17-18=0/2764, 16-17=0/1157

2-25=-1537/0, 2-24=0/1140, 3-24=-1097/0, 3-22=0/790, 6-22=-803/0, 6-21=0/970, WEBS

7-21=-557/0, 14-16=-1541/0, 14-17=0/1139, 13-17=-1096/0, 13-18=0/802, 10-18=-637/0,

10-19=0/581. 8-19=-621/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



February 16,2022

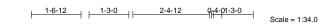




Job	Truss	Truss Type	Qty	Ply	Lot 34 Liberty Meadows
10700 0010	= 4.4			١.	I50256541
J0722-3819	F4A	Floor	1	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:57 2022 Page 1 ID: aTXuLo?nW09qtpROz2WQ0wydkZW-O5cUfUZnPjy76IQZcjx3uQd3qvZCN4xUy2Vw3vzksw8

0-1-8 H - 1-2-8

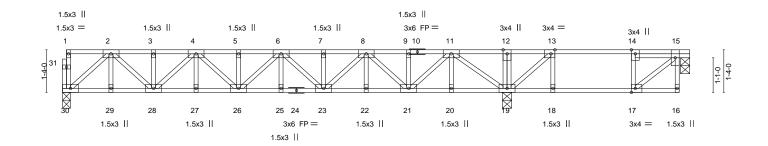


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

6-0-0 oc bracing: 18-19,17-18.



				13-11-4					1	15-5-4	16-7-10	17-10-0 1 1	19-4-0 19-8 ₁ 0
				13-11-4					-	1-6-0	1-2-6	1-2-6	1-6-0 0-4-0
Plate Offse	ets (X,Y)	[13:0-1-8,Edge], [17:0-1-8	8,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d		PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.08	25	>999	480		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.38	Vert(CT)	-0.11	25	>999	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	19	n/a	n/a			
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S	' '						Weight: 115 lb	FT = 20%F, 11%E

BRACING-

LUMBER-TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

TOP CHORD BOT CHORD

REACTIONS. (size) 30=0-3-0, 15=0-3-8, 19=0-3-8 Max Grav 30=731(LC 8), 15=272(LC 4), 19=1155(LC 7)

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

TOP CHORD 2-3=-1332/0, 3-4=-1332/0, 4-5=-1971/0, 5-6=-1971/0, 6-7=-1964/0, 7-8=-1964/0,

8-9=-1310/0, 9-11=-1310/0, 11-12=0/359, 12-13=0/359 **BOT CHORD** 29-30=0/776, 28-29=0/776, 27-28=0/1734, 26-27=0/1734, 25-26=0/2050, 23-25=0/2050,

 $22\hbox{-}23\hbox{=}0/1721,\,21\hbox{-}22\hbox{=}0/1721,\,20\hbox{-}21\hbox{=}0/755,\,19\hbox{-}20\hbox{=}0/755$

WEBS $15-17 = -104/317, \ 2-30 = -1022/0, \ 2-28 = 0/751, \ 4-28 = -542/0, \ 4-26 = 0/320, \ 8-23 = 0/344, \ 8-23 = 0/344, \ 8-23$

8-21=-568/0, 11-21=0/769, 11-19=-1228/0, 13-19=-573/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 6) CAUTION, Do not erect truss backwards.



February 16,2022





Job Truss Truss Type Qty Ply Lot 34 Liberty Meadows 150256542 J0722-3819 F5 FLOOR Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:57 2022 Page 1 ID: aTXuLo?nW09qtpROz2WQ0wydkZW-O5cUfUZnPjy76IQZcjx3uQd6PvdQN7pUy2Vw3vzksw80-1-8 2-5-0 0-4-0 1-3-0 Scale = 1:11.4 3x4 = 3x4 II 3x6 II 11.5x3 || 2 3 4 9 3x4 = 1-1-0 3x6 = 5-10-8 [2:0-1-8,Edge], [6:0-1-8,Edge], [9:0-1-8,0-1-8] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. **PLATES GRIP** 2-0-0 I/defl L/d TCLL 40.0 Plate Grip DOL 1.00 TC 0.23 Vert(LL) -0.01 6 >999 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.11 Vert(CT) -0.01 >999 360 BCLL 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) -0.01 n/a BCDL Code IRC2015/TPI2014 Weight: 32 lb FT = 20%F, 11%E LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

2x4 SP No.1(flat)

(size) 8=0-3-8, 4=0-3-8 Max Grav 8=288(LC 1), 4=294(LC 1)

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

TOP CHORD 2-3=-294/0, 3-4=-296/0 **BOT CHORD** 7-8=0/294, 6-7=0/294 **WEBS** 2-8=-382/0, 4-6=0/383

NOTES-

TOP CHORD

BOT CHORD

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION, Do not erect truss backwards.



Structural wood sheathing directly applied or 5-10-8 oc purlins,

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

except end verticals.

February 16,2022





Job Truss Truss Type Qty Ply Lot 34 Liberty Meadows 150256543 J0722-3819 FG1 FLOOR Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Feb 15 14:17:58 2022 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-tlAssqaPA14_jR?lARSIRdAJslyq6a_dBiFUbMzksw7 0-1-8 1-3-0 2-3-0 0-1-8 Scale = 1:10.3 3x6 II 3x4 II 3x4 II 3x6 II 2 11 3 4 10 9 3x4 = 3x4 = 1.5x3 || 1.5x3 3x6 =3x6 =5-6-0 [1:Edge,0-1-8], [9:0-1-8,0-1-8], [10:0-1-8,0-1-8] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 I/defl L/d (loc) 244/190 **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.12 Vert(LL) -0.01 6 >999 480 MT20 TCDL 0.17 10.0 Lumber DOL 1.00 ВС Vert(CT) -0.01 >999 360 BCLL 0.0 Rep Stress Incr NO WB 0.19 Horz(CT) 0.01 5 n/a n/a BCDL Code IRC2015/TPI2014 Matrix-S Weight: 34 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

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

Max Grav 8=455(LC 1), 5=476(LC 1)

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

TOP CHORD 2-3=-683/0

7-8=0/683, 6-7=0/683, 5-6=0/683 **BOT CHORD**

WFBS 2-8=-802/0, 3-5=-801/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb)

Vert: 3=-172 11=-194



Structural wood sheathing directly applied or 5-6-0 oc purlins,

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

except end verticals.

February 16,2022

rameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® 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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

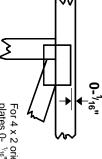


Symbols

PLATE LOCATION AND ORIENTATION



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



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

ω

O

S

required direction of slots in connector plates 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



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

BEARING



number where bearings occur.

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

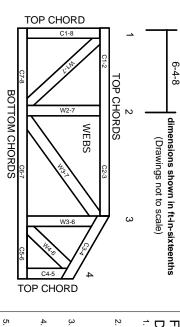
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction

DSB-89:

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

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

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

© 2012 MiTek® All Rights Reserved



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
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words 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.