

03/01/23

David Landry

Neil Baggett

DATE REV.

DRAWN BY

SALESMAN

1700 1

3400 2

5100 3

6800 4

8500 5

10200 6

11900 7

13600 8

15300 9

2550 1

5100 2

7650 3

10200 4

12750 5

15300 6

3400 1

6800 2

10200 3

13600 4

17000 5

SEAL DATE

QUOTE #

JOB#

N/A

J0323-0956

ROOF & FLOOR TRUSSES & BEAMS

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables derived from the prescriptive Code requirements) to determine the minimum oundation size and number of wood studs required to support reactions greater han 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be etained to design the support system for all reactions that exceed 15000#.

David Landry

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

	ROOF & FLOOR
ComTech	TRUSSES & BEAMS
Reilly Road Industrial	Park P.O. Box 40408
Fayetteville, N.C. 28	309 (910) 864-TRUS

		DATE	33/01/23 T/NOL 1
REQ. QUOTE DATE	/ /	ORDER #	J0323-0956
ORDER DATE	03/01/23	QUOTE #	
DELIVERY DATE	//	CUSTOMER ACCT#	0000007216
DATE OF INVOICE	//	CUSTOMER PO#	
ORDERED BY	Shaun Garderner	INVOICE #	
COUNTY	Harnett	TERMS	
SUPERINTENDANT	Shaun Garderner	SALES REP	Neil Baggett
JOBSITE PHONE #	(910) 988-8172	SALES AREA	David Landry

Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172

SOLD

T O

T

JOB NAME: Lot 29 Liberty Meadow **LOT #** 29 SUBDIV: Liberty Meadow MODEL:Roof TAG: Liberty 2.0 w/ CP JOB CATEGORY: _

DELIVERY INSTRUCTIONS:

52 miles round trip

Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356

ROOF TRUSSES

LOADING

SPECIAL INSTRUCTIONS:

TCLL-TCDL-BCLL-BCDL STRESS INCR.

PLAN SEAL DATE:

DATE BUILDING DEPARTMENT OVERHANG INFO HEEL HEIGHT 00-06-08 REQ. LAYOUTS REQ. ENGINEERING QUOTE 03/01/23 LAYOUT DTL END CUT RETURN 03/01/23 Roof Order 03/01/23 1 CUTTING DTL **GABLE STUDS** 24 IN. OC JOBSITE JOBSITE

ROOF T	RUS	SSES	INFORMATION TCLL-TCDL-BCLL-BCDL STRESS 20.0,10.0,0.0,10.0 1.1				ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)										
	OTV	ПП	_	TYPE		_				 							
PROFILE	QTY PLY	TOP	вот	ID	BASE O/A	TOP	IBER	LEFT	HANG RIGHT	REACTIONS							
	6	7.00	0.00	COMMON	33-00-00			01-02-08		Joint 2 1525.2 lbs. -90.9 lbs.	Joint 8 1525.2 lbs. -90.9 lbs.						
	1	7.00	0.00	GABLE A1GE	33-00-00 33-00-00	2 X 6	2 X 6	01-02-08	01-02-08	Joint 2 198.3 lbs. -61.9 lbs.	Joint 20 172.7 lbs. -4.6 lbs.	Joint 22 209.1 lbs. -93.2 lbs.	Joint 23 164.5 lbs. -75.0 lbs.	Joint 24 175.8 lbs. -77.8 lbs.			
	4	7.00	0.00	COMMON A2	33-00-00 33-00-00	2 X 6	2 X 6	01-02-08	01-02-08	Joint 2 1315.9 lbs. -17.7 lbs.	Joint 3 150.9 lbs. -112.7 lbs.	Joint 4 87.0 lbs. 26.1 lbs.	Joint 8 1525.2 lbs. -90.9 lbs.				
	9	7.00	0.00	COMMON A3	33-00-00 33-00-00	2 X 6	2 X 6	01-02-08		Joint 2 1529.4 lbs. -91.0 lbs.	Joint 8 1461.3 lbs. -74.7 lbs.						
	1	7.00	0.00	GABLE A3GE	33-00-00 33-00-00	2 X 6	2 X 6	01-02-08		Joint 2 197.6 lbs. -59.9 lbs.	Joint 20 117.2 lbs. -2.3 lbs.	Joint 21 230.5 lbs. -107.2 lbs.	Joint 22 158.3 lbs. -71.1 lbs.	Joint 23 177.0 lbs. -78.5 lbs.			
	1	6.00	0.00	GABLE B1GE	12-00-00 12-00-00	2 X 4	2 X 6	01-02-08	01-02-08	Joint 2 550.0 lbs. -142.9 lbs.	Joint 8 550.0 lbs. -142.9 lbs.						
	4	6.00	0.00	COMMON B2	12-00-00 12-00-00	2 X 4	2 X 6	01-02-08	01-02-08	Joint 2 550.0 lbs. -108.9 lbs.	Joint 4 550.0 lbs. -108.9 lbs.						
\triangle	5	10.00	0.00	COMMON C1	20-00-00 20-00-00	2 X 6	2 X 6	01-02-08	01-02-08	Joint 2 1043.7 lbs. -48.5 lbs.	Joint 4 1043.7 lbs. -48.5 lbs.						
	1 2 Ply	10.00	0.00	COMMON C1-GR	20-00-00 20-00-00	2 X 6	2 X 8	01-02-08		Joint 2 6838.3 lbs. -436.9 lbs.	Joint 6 6844.2 lbs. -424.1 lbs.						
	1	10.00	0.00	GABLE C1GE	20-00-00 20-00-00	2 X 6	2 X 6	01-02-08	01-02-08	Joint 2 859.7 lbs. -169.5 lbs.	Joint 12 859.7 lbs. -169.5 lbs.						
	6	6.00	0.00	COMMON G1	46-00-00 46-00-00	2 X 6	2 X 8	01-02-08	01-02-08	Joint 2 554.8 lbs. -56.5 lbs.	Joint 8 1103.1 lbs. -76.8 lbs.	Joint 12 1365.2 lbs. -168.3 lbs.	Joint 18 1447.0 lbs. -119.5 lbs.				

Reaction Summary of Order ROOF & FLOOR

Reilly Road Industrial Park P.O. Box 40408 Fayetteville, N.C. 28309 (910) 864-TRUS

ComTech|

(910) 988-8172

SOLD

T O

		DATE	03/01/23 TAGE 2
REQ. QUOTE DATE	/ /	ORDER #	J0323-0956
ORDER DATE	03/01/23	QUOTE #	
DELIVERY DATE	/ /	CUSTOMER ACCT#	0000007216
DATE OF INVOICE	/ /	CUSTOMER PO#	
ORDERED BY	Shaun Garderner	INVOICE #	
COUNTY	Harnett	TERMS	
SUPERINTENDANT	Shaun Garderner	SALES REP	Neil Baggett
JOBSITE PHONE #	(910) 988-8172	SALES AREA	David Landry

Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376

JOB NAME: Lot 29 Liberty Meadow **LOT #** 29 **SUBDIV:**Liberty Meadow MODEL:Roof TAG: Liberty 2.0 w/ CP JOB CATEGORY: _

DELIVERY INSTRUCTIONS:

52 miles round trip

Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356

TRUSSES & BEAMS

SPECIAL INSTRUCTIONS:

PLAN SEAL DATE:

DATE BUILDING DEPARTMENT OVERHANG INFO HEEL HEIGHT 00-06-08 REQ. LAYOUTS REQ. ENGINEERING QUOTE 03/01/23 LAYOUT DTL END CUT RETURN 03/01/23 Roof Order 03/01/23 **CUTTING** DTL **GABLE STUDS** 24 IN. OC JOBSITE JOBSITE

ROOF T	RUS	SES		DADING	TCLL-TCDL-B0		_	ESS INCR.	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)					
			IIN	FORMATION	20.0,10.0,0	_		1.15	L				<u>, </u>	
PROFILE	QTY PLY	TOP	CH	TYPE ID	BASE O/A	LUN	BER BOT		HANG	REACTIO	NS			
	1	6.00	0.00	COMMON	46-00-00 46-00-00			01-02-08	01-02-08	Joint 2 196.2 lbs. -27.2 lbs.	Joint 26 196.2 lbs. -3.2 lbs.	Joint 28 219.1 lbs. -94.9 lbs.	Joint 29 139.7 lbs. -62.0 lbs.	Joint 30 165.1 lbs. -70.6 lbs.
	4	4.00	0.00	MONO TRUSS J1	06-00-00 06-00-00	2 X 4	2 X 6	01-02-08	-00-01-08	Joint 2 316.0 lbs. -132.3 lbs.	Joint 4 215.2 lbs. -90.3 lbs.			
	6	4.00	0.00	MONOPITCH J2	05-00-00 05-00-00	2 X 4	2 X 6	01-02-08	-00-01-08	Joint 2 277.3 lbs. -119.5 lbs.	Joint 4 174.4 lbs. -72.2 lbs.			
	1	4.00	0.00	MONOPITCH J2GE	05-00-00 05-00-00	2 X 4	2 X 6	01-02-08		Joint 2 189.3 lbs. -89.3 lbs.	Joint 5 3.5 lbs. -3.4 lbs.	Joint 6 52.4 lbs. -34.0 lbs.	Joint 7 222.4 lbs. -70.5 lbs.	
	9	4.00	0.00	MONOPITCH J3	03-04-08 03-04-08	2 X 4	2 X 6	01-02-08		Joint 2 223.8 lbs. -68.8 lbs.	Joint 4 107.4 lbs. -14.2 lbs.			
	2	4.00	0.00	MONOPITCH J3GE	03-06-00 03-06-00	2 X 4	2 X 4	01-02-08		Joint 2 164.5 lbs. -91.1 lbs.	Joint 7 52.0 lbs. -26.0 lbs.	Joint 8 125.2 lbs. -37.7 lbs.		
\triangle	1	10.00	0.00	VALLEY V1	18-05-05 18-05-05	2 X 4	2 X 4			Joint 1 193.5 lbs. -7.5 lbs.	Joint 5 182.2 lbs. 22.4 lbs.	Joint 6 560.1 lbs. -171.8 lbs.	Joint 8 410.9 lbs. 55.3 lbs.	Joint 9 560.3 lbs. -171.9 lbs.
\triangle	1	10.00	0.00	VALLEY V2	15-07-11 15-07-11	2 X 4	2 X 4			Joint 1 150.3 lbs. -16.8 lbs.	Joint 5 134.9 lbs. 10.7 lbs.	Joint 6 428.5 lbs. -142.4 lbs.	Joint 7 410.8 lbs. 56.2 lbs.	Joint 8 428.9 lbs. -142.5 lbs.
\triangle	1	10.00	0.00	VALLEY V3	12-10-02 12-10-02	2 X 4	2 X 4			Joint 1 101.5 lbs. -31.1 lbs.	Joint 5 84.7 lbs. -8.6 lbs.	Joint 6 329.9 lbs. -123.9 lbs.	Joint 7 242.2 lbs. 54.2 lbs.	Joint 8 330.1 lbs. -124.1 lbs.
	1	10.00	0.00	VALLEY V4	10-00-08 10-00-08	2 X 4	2 X 4			Joint 1 198.9 lbs. -21.8 lbs.	Joint 3 198.9 lbs. -30.4 lbs.	Joint 4 346.9 lbs. 10.9 lbs.		
	1	10.00	0.00	VALLEY V5	07-02-15 07-02-15	2 X 4	2 X 4			Joint 1 150.6 lbs. -22.7 lbs.	Joint 3 150.7 lbs. -28.7 lbs.	Joint 4 219.7 lbs. 22.5 lbs.		

Raeford, NC 28376 (910) 988-8172

Cameron, NC 28356

DELIVERY INSTRUCTIONS:

Precision Custom Homes and Lot 29 Liberty Meadow

LOADING

SPECIAL INSTRUCTIONS:

52 miles round trip

PLAN SEAL DATE:

														BY	DATE
BUILDING DEPARTMENT	OVERHA	ANG INFO	HEEL HEIGHT	00-06-08	RE	Q. I	LAYOUTS		REQ.	. EN	SINEERING		QUOTE	DTL	03/01/23
Roof Order	END CUT	RETURN											LAYOUT	DTL	03/01/23
			GABLE STUDS	24 IN. OC			JOBSITE	1			JOBSITE	1	CUTTING	DTL	03/01/23

ROOF T	RUS	SES		DADING FORMATION	TCLL-TCDL-B0			1.15	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)						
PROFILE	QTY PLY	PIT TOP	CH BOT	TYPE ID	BASE O/A	LUN TOP	IBER BOT	OVER	HANG RIGHT	REACTIO	NS				
	FLI	TOP	BOT	טו	0,,,	TOP	BOT	LEFI	RIGHT						
				VALLEY	04-05-05					Joint 1	Joint 3	Joint 4	Joint 17	Joint 18	
	1	10.00	0.00	V6	04-05-05	2 X 4	2 X 4			85.8 lbs.	85.8 lbs.	125.2 lbs.	304.2 lbs.	337.3 lbs.	
										-12.9 lbs.	-16.3 lbs.	12.8 lbs.	-31.6 lbs.	-27.3 lbs.	

ITEMS

20 10 10

T O

S H I P

T O

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
9	Hangers, USP	HUS 26			SIMPSON (HUS26)



RE: J0323-0956

Lot 29 Liberty Meadow

Trenco 818 Soundside Rd Edenton, NC 27932

Truss Name

V4

V5

V6

Date

3/1/2023

3/1/2023

3/1/2023

Site Information:

Customer: Project Name: J0323-0956

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

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

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

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

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#
1	156917876	A1	3/1/2023	21	156917896
2	156917877	A1GE	3/1/2023	22	156917897
3	156917878	A2	3/1/2023	23	156917898
4	156917879	A3	3/1/2023		
5	156917880	A3GE	3/1/2023		
6	156917881	B1GE	3/1/2023		
7	156917882	B2	3/1/2023		
8	156917883	C1	3/1/2023		
9	156917884	C1-GR	3/1/2023		
10	156917885	C1GE	3/1/2023		
11	156917886	G1	3/1/2023		
12	156917887	G1GE	3/1/2023		
13	156917888	J1	3/1/2023		
14	156917889	J2	3/1/2023		
15	156917890	J2GE	3/1/2023		
16	156917891	J3	3/1/2023		
17	156917892	J3GE	3/1/2023		
18	156917893	V1	3/1/2023		
19	156917894	V2	3/1/2023		
20	156917895	V3	3/1/2023		

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Gilbert, Eric

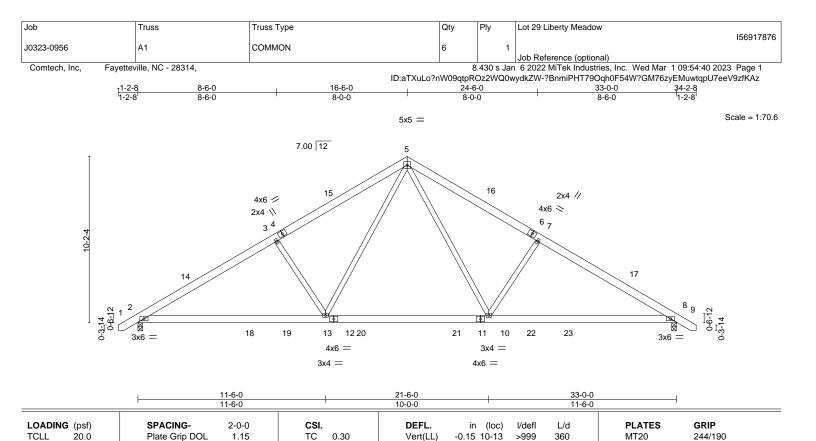
My license renewal date for the state of North Carolina is December 31, 2023

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.



March 01, 2023



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

-0.26

0.05

0.05

8-10

2-13

8

>999

>999

n/a

240

n/a

240

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

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

Weight: 221 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

WEBS 2x4 SP No.2

10.0

0.0

10.0

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)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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 TOP CHORD

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

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; 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

ВС

WB

Matrix-S

0.53

0.31

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

1.15

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) 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.

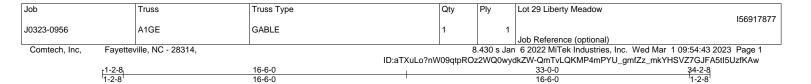


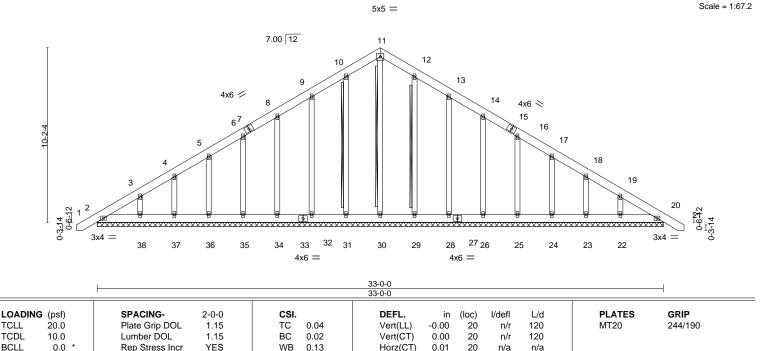
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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







LUMBER-

BCDL

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

10.0

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 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.

Weight: 283 lb

FT = 20%

REACTIONS. All bearings 33-0-0.

Max Horz 2=306(LC 11) (lb) -

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

Matrix-S

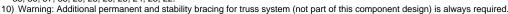
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Code IRC2015/TPI2014

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.
- 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.





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

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

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



Job Truss Truss Type Qty Ply Lot 29 Liberty Meadow 156917878 J0323-0956 A2 COMMON Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:45 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-M8afl6Lcxi16nn73t3bR3BqkLF2yb73YePMPAMzfKAu 34-2-8 1-2-8 33-0-0 8-6-0 8-0-0 8-0-0 8-6-0 Scale = 1:70.6 5x5 =7.00 12 5 16 15 2x4 // 4x6 🖊 4x6 2x4 \\ 3 ⁴ 18 19 13 1220 21 11 10 22 23 3x6 = 4x12 || 4x6 =3x4 = 3x4 =4x6 = 21-6-0 32-0-0 Plate Offsets (X,Y)--[8:0-7-6,0-1-1], [8:0-0-2,1-1-1] **PLATES** LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d GRIP -0.15 10-13 TCLL 20.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) >999 360 MT20 244/190

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.26

0.05

0.05

8-10

2-13

8

>999

>999

n/a

240

n/a

240

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

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

Weight: 223 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

WEDGE

Right: 2x6 SP No.1

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)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

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

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; 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; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

BC

WB

Matrix-S

0.60

0.31

- * 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.



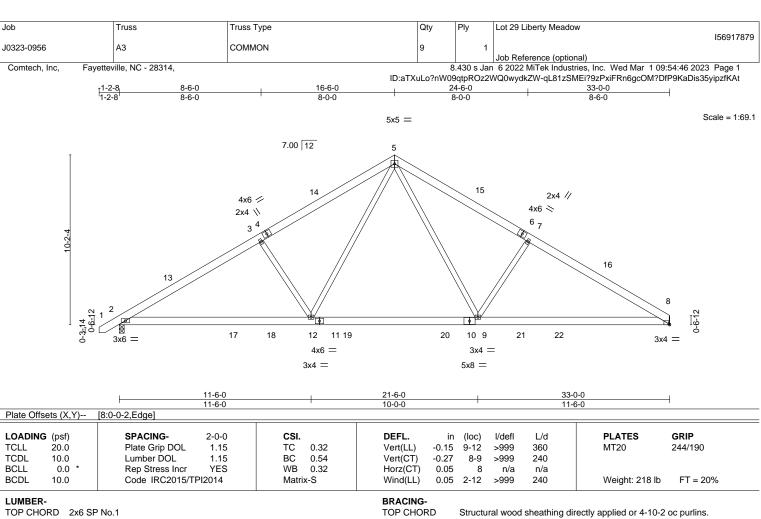
March 1,2023

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

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

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





BOT CHORD

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

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

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 WFBS

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
- 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) 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.



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

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

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



Job Truss Truss Type Qty Ply Lot 29 Liberty Meadow 156917880 J0323-0956 A3GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:48 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-mjGoO8OUEdPheFseYC98hpSP1TDjoWZ_KNa3nhzfKAr 16-6-0 16-6-0 Scale = 1:65.8 5x5 = 7.00 12 11 12 10 13 9 4x6 / 14 8 4x6 < 15 67 16 17 18 19 20 0-3-14 0-6-12 0-6-12 3x4 = 3x4 = 26 ₂₅ 31 37 36 35 34 33 32 30 29 28 27 24 23 22 21 4x6 = 4x6 =33-0-0

LUMBER-

OTHERS

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

0.0

10.0

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

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. T-Brace: 2x4 SPF No.2 - 11-29, 10-30, 12-28

PLATES

Weight: 280 lb

MT20

GRIP

244/190

FT = 20%

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.

L/d

120

120

n/a

(loc)

20

-0.00

0.00

0.01

I/def

n/r

n/r

n/a

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

CSI.

TC

ВС

WB

Matrix-S

0.04

0.02

0.13

21=-107(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2-0-0

1.15

1.15

YES

All reactions 250 lb or less at joint(s) 2, 20, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, Max Grav 22, 21

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

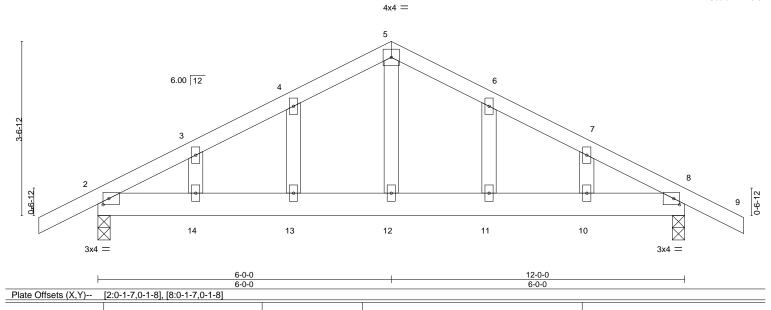
TOP CHORD 2-3=-280/222, 10-11=-236/265, 11-12=-236/265

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



Job Truss Truss Type Qty Ply Lot 29 Liberty Meadow 156917881 J0323-0956 B1GE **GABLE** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:50 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-j6OYpqPImEfPuZ00qdBcmEXj_GsaGRmHng3ArazfKAp 13-2-8 1-2-8 6-0-0 6-0-0 1-2-8

Scale = 1:23.6



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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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



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

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



Job Truss Truss Type Qty Lot 29 Liberty Meadow 156917882 COMMON J0323-0956 B2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:51 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-Blxw09QNXYnGVibDEKirJS4rMgCN?uKR0KpjN0zfKAo 13-2-8 1-2-8 6-0-0 6-0-0 1-2-8 Scale = 1:23.7 4x4 = 3 6.00 12 0-6-12 6 2x4 || 3x4 / 3x4 > 6-0-0 12-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) -0.01 >999 360 244/190 **TCLL** TC 0.29 4-6 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.02 4-6 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.01 n/a n/a

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

0.03

4-6

>999

240

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

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

Weight: 57 lb

FT = 20%

LUMBER-

BCDL

WEBS

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

10.0

REACTIONS.

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

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



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

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

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



Job Truss Truss Type Qty Lot 29 Liberty Meadow 156917883 J0323-0956 C₁ COMMON 5

Comtech, Inc, Fayetteville, NC - 28314,

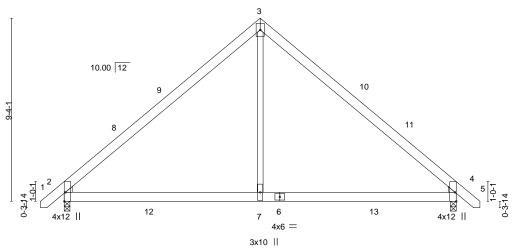
Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:52 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-fVVJDVR?Irv77sAPn2D4rfcz_4SakKkaF_YHwSzfKAn

21-2-8 20-0-0 10-0-0 10-0-0

> Scale = 1:58.8 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 20-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:Edge,0-0-11], [4:Edge	,0-0-11]										
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	0.49	Vert(LL)	-0.10	4-7	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	ВС	0.54	Vert(CT)	-0.17	4-7	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	4	n/a	n/a			
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S	Wind(LL)	0.06	2-7	>999	240	Weight: 129 lb	FT = 20%	

LUMBER-

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

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



March 1,2023

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

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

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



JobTrussTruss TypeQtyPlyLot 29 Liberty MeadowJ0323-0956C1-GRCOMMON GIRDER12
Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:56 2023 Page 1

ID:aTXuLo?nW09qtpROz2WQ0wydkZW-XGlp3tUVM4PYcUTA0tl00Vnd5hqqgzOA9cWU3DzfKAj

5x8 || Scale = 1:58.8

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

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

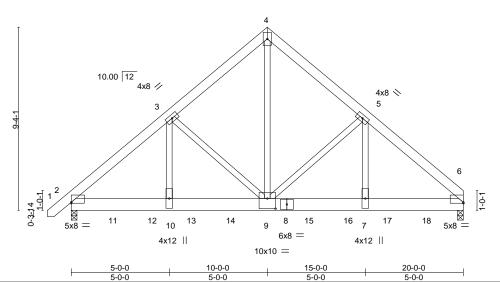


Plate Offsets (X,Y)-- [2:0-0-0,0-0-9], [6:Edge,0-0-9], [9:0-5-0,0-6-4]

LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	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		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	014	Matrix	x-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 WEBS 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 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-

- 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.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 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 8-0-12, 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 16-0-12, and 1360 lb down and 95 lb up at 16-0-12, and 1360 lb down and 95 lb up at 16-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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



March 1,2023

Continued on page 2

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

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

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



818 Soundside Road Edenton, NC 27932 Job Truss Truss Type Qty Ply Lot 29 Liberty Meadow 156917884 C1-GR COMMON GIRDER J0323-0956

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:56 2023 Page 2
ID:aTXuLo?nW09qtpROz2WQ0wydkZW-XGlp3tUVM4PYcUTA0tl00Vnd5hqqgzOA9cWU3DzfKAj

LOAD CASE(S) Standard

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)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Lot 29 Liberty Meadow 156917885 J0323-0956 C1GE **GABLE**

5x8 ||

Fayetteville, NC - 28314, Comtech, Inc.

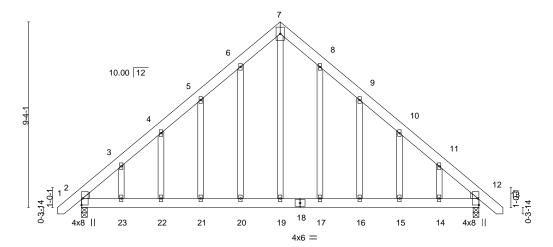
Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:54 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-btd3eBSFqT9rMAJovSFYx4hN?tAECAttil1O_LzfKAI

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

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

20-0-0 10-0-0 10-0-0

Scale = 1:58.0



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

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

TOP CHORD 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

BOT CHORD 2-23=-39/567, 22-23=-39/567, 21-22=-39/567, 20-21=-39/567, 19-20=-39/567,

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

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 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.
- * 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) 12=169, 2=169,



March 1,2023

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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow
					I56917886
J0323-0956	G1	COMMON	6	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:57 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-?SJBHDV86OXPDe2MabpFYjJtO5BGPXLJOGG2bgzfKAi

34-10-10 8-8-12 10-10-10 3-10-2 2-1-14 27-10-10 40-10-10 46-0-0 17-10-10 4-10-10 7-0-0 5-1-6 4-10-10 7-0-0 6-0-0 5-1-6

> Scale = 1:94.1 4x6 =

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

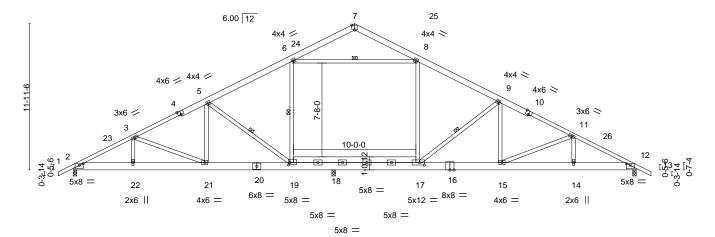
9-17, 6-19, 5-19, 6-8

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

8-5-9 oc bracing: 18-19

7-9-4 oc bracing: 17-18.

1 Row at midpt



	4-10-10 10-10-10	17-10-10 ₁ 21-1-10	28-1-5	34-10-10	40-10-10	46-0-0	
	4-10-10 6-0-0	7-0-0 3-3-0	6-11-11	6-9-5	6-0-0	5-1-6	
Plate Offsets (X,Y)	[2:0-4-0,0-1-15], [4:0-3-0,Edge], [7	:0-3-0,Edge], [10:0-3-0,Edge],	[12:0-4-0,0-1-15], [17	7:0-4-12,0-2-8], [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 DOL 1.15	TC 0.26	Vert(LL) -(0.24 15-17 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -(0.40 15-17 >739	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT)	0.03 12 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) (0.16 15-17 >999	240	Weight: 376 lb	FT = 20%
			. ,				

TOP CHORD

BOT CHORD

WEBS

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 *Except* 1-4,10-13: 2x4 SP No.1

BOT CHORD 2x8 SP 2400F 2.0E *Except*

17-19: 2x6 SP No.1

WEBS 2x4 SP No.2

(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, TOP CHORD

8-9=-1235/382, 9-11=-2082/468, 11-12=-2367/451

BOT CHORD 2-22=-304/1880, 21-22=-304/1880, 19-21=-194/1515, 18-19=-52/1043, 17-18=-48/1031, 15-17=-245/1812, 14-15=-325/2045, 12-14=-325/2045

WFBS 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-

REACTIONS.

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



March 1,2023



Job Truss Truss Type Qty Lot 29 Liberty Meadow 156917887 J0323-0956 G1GE COMMON SUPPORTED GAB Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:55:00 2023 Page 1

ID:aTXuLo?nW09qtpROz2WQ0wydkZW-Q1_KvEX0PJw_45nxFjMyALxRZIJPcyol4EUiC?zfKAf 1-2-8 1-2-8 23-0-0 23-0-0

Scale = 1:81.7

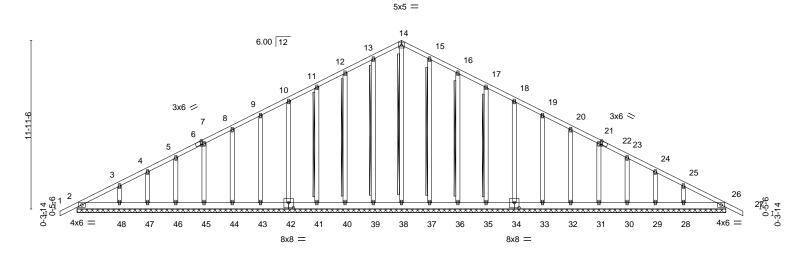


Plate Offsets (X,Y)--[6:0-1-9,Edge], [22:0-1-9,Edge], [34:0-4-0,0-4-8], [42:0-4-0,0-4-8] LOADING (psf) SPACING-DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 27 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 27 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.01 26 n/a n/a Code IRC2015/TPI2014 **BCDL** FT = 20%10.0 Matrix-S Weight: 376 lb

46-0-0

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD WEBS**

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 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) (lb) -

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



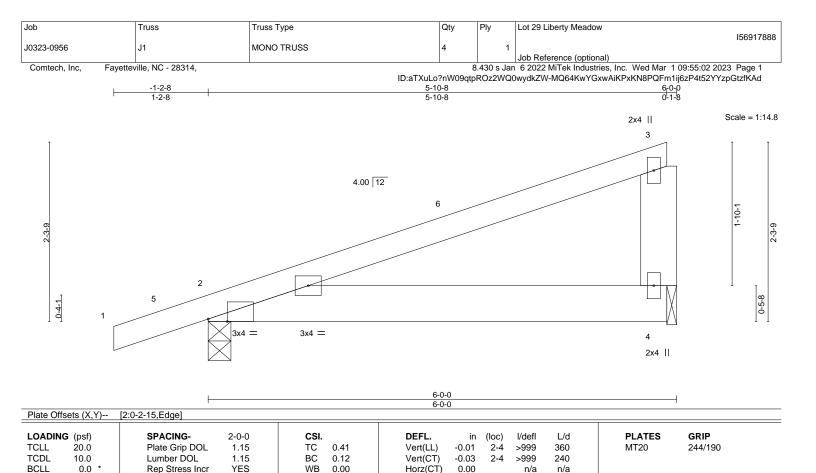
March 1,2023

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

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

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





Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

2-4

0.03

>999

except end verticals.

240

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

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

LUMBER-

BCDL

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

10.0

WEBS 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) 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.

Code IRC2015/TPI2014

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 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

Matrix-P

- 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 = 132



Weight: 29 lb

FT = 20%

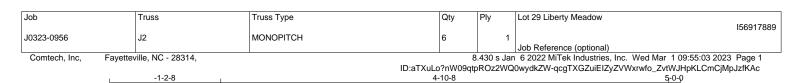


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





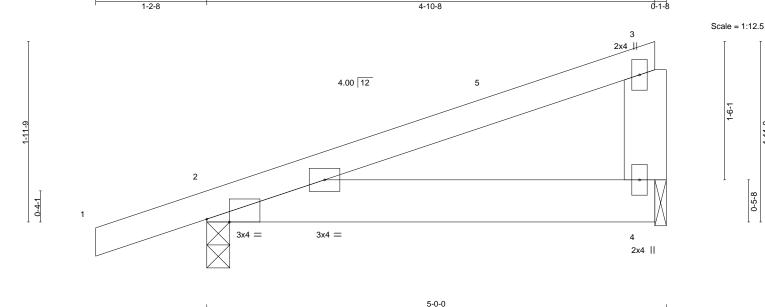


Plate Off	Plate Offsets (X,Y) [2:0-2-15,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.ó	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-P	Wind(LL)	0.01	2-4	>999	240	Weight: 24 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-2x4 SP No.1

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

REACTIONS. (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

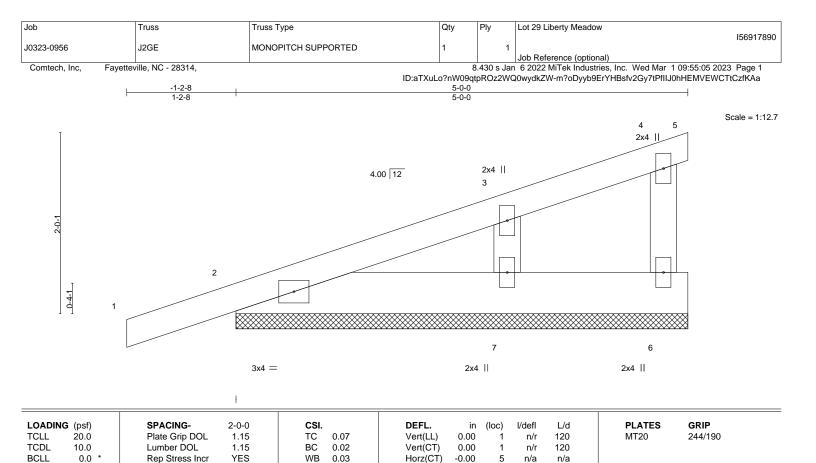


Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

except end verticals.





BRACING-LUMBER-

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

10.0

TOP CHORD **BOT CHORD**

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

Weight: 24 lb

FT = 20%

except end verticals.

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

Code IRC2015/TPI2014

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

NOTES-

BCDL

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

Matrix-P

- 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.

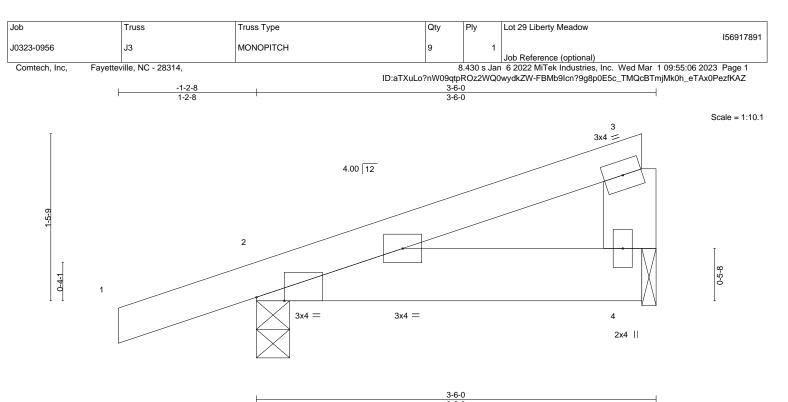


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





							3-6-)			'		
Plate Off	sets (X,Y)	[2:0-2-15,Edge]											
LOADIN	C (nof)	SPACING-	2-0-0	CSI.		DEFI	in	(loc)	l/defl	L/d	PLATES	GRIP	_
	VI /					I		(/					
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL) -0.00	2-4	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT) -0.00	2-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz	(CT) 0.00		n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Wind	(LL) 0.00	2	****	240	Weight: 17 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=0-3-8, 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-

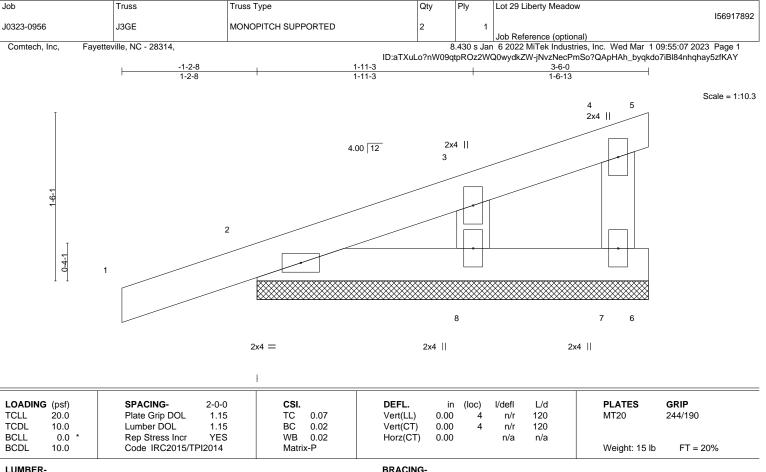
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord 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.



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

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





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

BOT CHORD WEBS 2x4 SP No.2

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.

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.
- * 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.





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

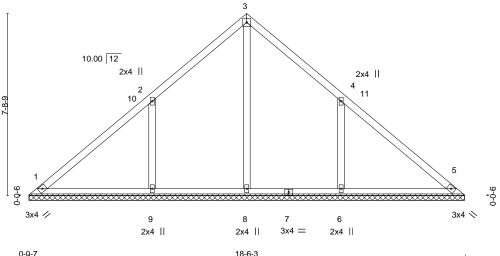
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Job Truss Truss Type Qty Lot 29 Liberty Meadow 156917893 J0323-0956 V1 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:55:08 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:aTXuLo?nW09qtpROz2WQ0wydkZW-BaTMazd1Xmwr2KOUjPVqV1Hm3X0zUZWxwUQ7UXzfKAX 9-3-1 18-6-3 9-3-2

> Scale = 1:48.8 4x4 =



0-0-7 0-0-7 18-6-3

Plate Offsets (X,Y)	[4:0-0-0,0-0-0]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.23 BC 0.18 WB 0.13 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 5 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 84 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. 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)

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

WEBS

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 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.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=172, 6=172,





Job Truss Truss Type Qty Lot 29 Liberty Meadow 156917894 J0323-0956 V2 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:55:10 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-7yb6?ffl3NAZHdYsrqYlaSM7mKhayUWENovEYPzfKAV 7-10-5 7-10-4 Scale = 1:41.4 4x4 =3 10.00 12 11 10 2x4 II 2x4 || 4 2 12 9 3x4 3x4 N 7 8 13 14 6 2x4 || 2x4 || 2x4 || 15-8-9 0-0-7 Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.15 BC 0.17 WB 0.10	DEFL. in (loc) Vert(LL) n/a - Vert(CT) n/a - Horz(CT) 0.00 5) I/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 69 lb FT = 20%

LUMBER-

2x4 SP No.1 TOP CHORD 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. 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.

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 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.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=143, 6=142,



March 1,2023



Job Truss Truss Type Qty Ply Lot 29 Liberty Meadow 156917895 J0323-0956 V3 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:55:11 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-b99UD?fwphIQvn73PX3X7gvlsk22hxFNcSfn5szfKAU 6-5-8 6-5-8 6-5-8 Scale = 1:34.2 4x4 =

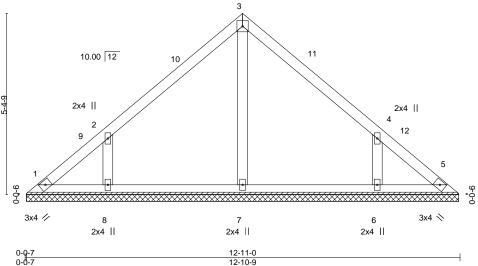


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 54 lb Matrix-S

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. 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)

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-5-8, Exterior(2) 6-5-8 to 10-10-5, Interior(1) 10-10-5 to 12-6-3 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, 5 except (jt=lb) 8=124, 6=124
- 6) Non Standard bearing condition. Review required.





Job Truss Truss Type Qty Lot 29 Liberty Meadow 156917896 J0323-0956 V4 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:55:13 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-XXHFehhALIY885GRWy5?C5_dqYjP9szg4m8u9kzfKAS 5-0-11 5-0-11 Scale = 1:26.9 4x4 = 2 10.00 12 3 4 2x4 // 2x4 N 2x4 || 10₇1-6 0-0-7 10-0-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.23 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 38 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

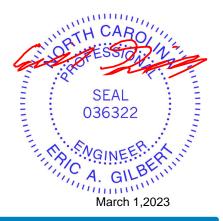
1=10-0-8, 3=10-0-8, 4=10-0-8 (size) Max Horz 1=93(LC 11) Max Uplift 1=-22(LC 13), 3=-30(LC 13)

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

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.

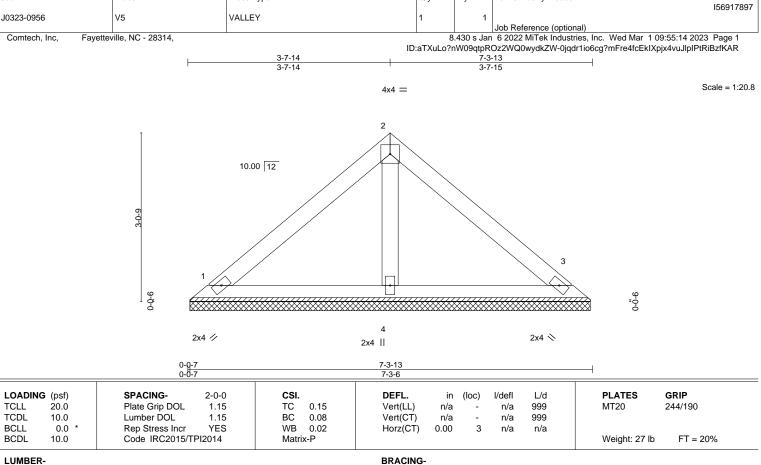




Edenton, NC 27932

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

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



TOP CHORD

BOT CHORD

Qty

Lot 29 Liberty Meadow

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

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

LUMBER-

Job

Truss

Truss Type

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

OTHERS 2x4 SP No.2

REACTIONS.

1=7-2-14, 3=7-2-14, 4=7-2-14 (size) 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.

NOTES-

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

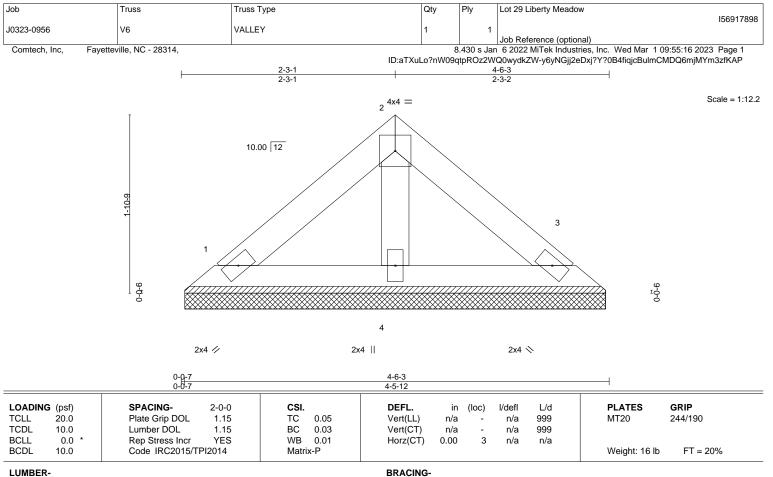


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=4-5-5, 3=4-5-5, 4=4-5-5 (size) Max Horz 1=-37(LC 8)

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.



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

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



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

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

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

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

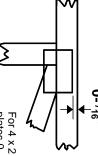


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

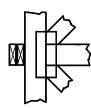
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

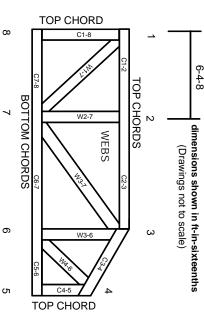
Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 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
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

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

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

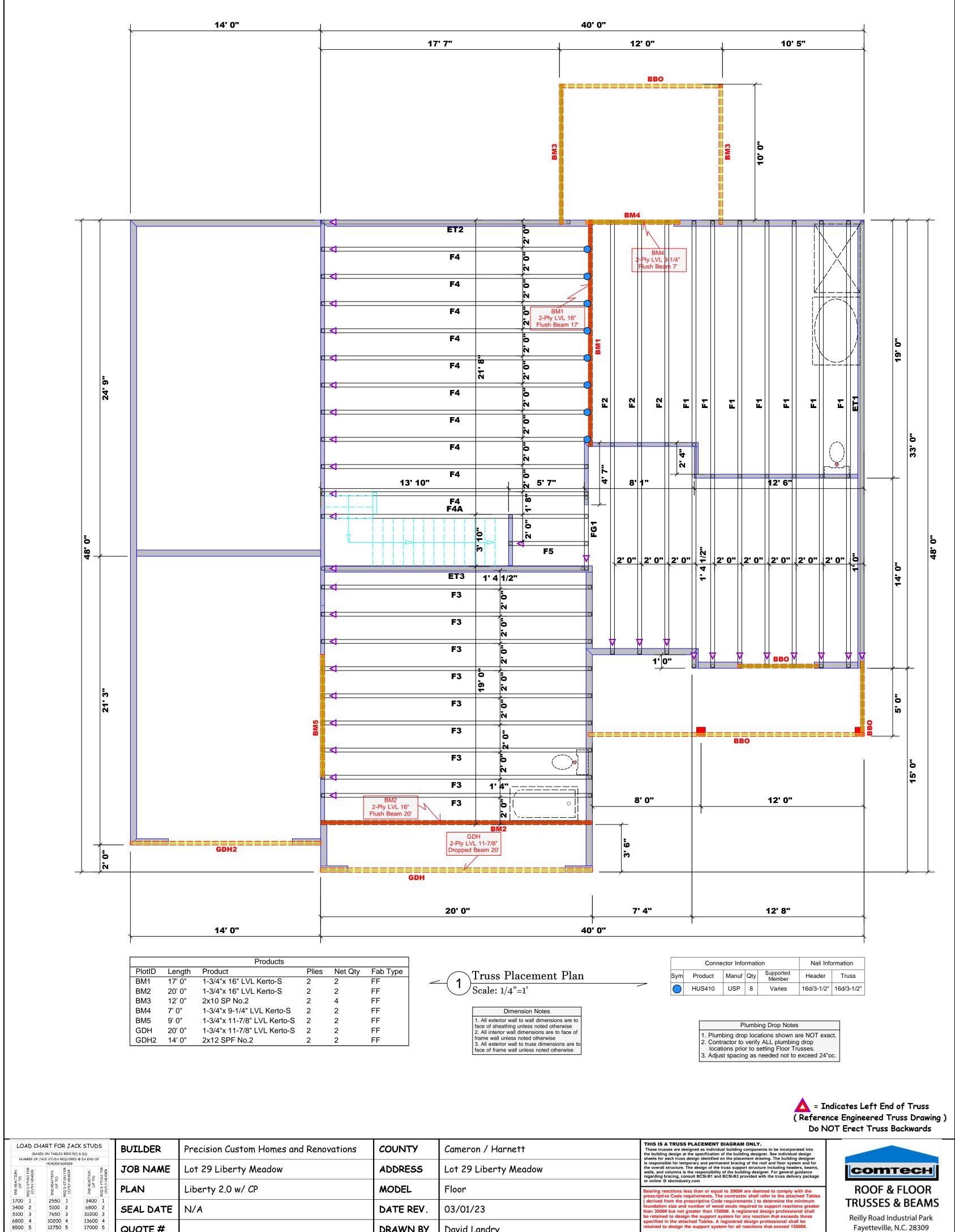
ტ. Ö

- 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.

9

φ.

- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



03/01/23

David Landry

Neil Baggett

DATE REV.

DRAWN BY

SALESMAN

1700 1

3400 2

5100 3

6800 4

8500 5

10200 6

11900 7

13600 8

15300 9

2550 1

5100 2

7650 3

10200 4

12750 5

15300 6

3400 1

6800 2

10200 3

13600 4

17000 5

SEAL DATE

QUOTE #

JOB#

N/A

J0323-0957

ROOF & FLOOR TRUSSES & BEAMS Reilly Road Industrial Park Fayetteville, N.C. 28309

Phone: (910) 864-8787

Fax: (910) 864-4444

David Landry



Client: Project: Address: **Precision Custom Homes**

Liberty 2.0

Date: 3/1/2023

Input by: David Landry Job Name: Lot 29 Liberty Meadow Page 1 of 14

Project #: J0323-0957

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

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

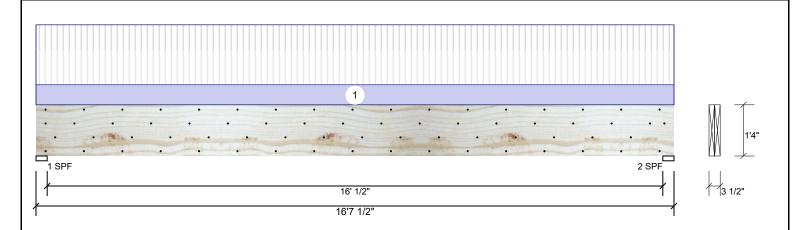
ASD

No

IBC 2012

Not Checked

Level: Level



Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240

Importance: Normal - II Temp <= 100°F Temperature:

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3333	1217	0	0	0
2	Vertical	3333	1217	0	0	0

Bearings

Bearing Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.500"	Vert	87%	1217 / 3333	4551	L	D+L
2 - SPF 3.500"	Vert	87%	1217 / 3333	4551	L	D+L

Analysis Results

•						
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.

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			Near Face	134 PLF	401 PLF	0 PLF	0 PLF	0 PLF	F4
	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.

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

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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



This design is valid until 11/3/2024



isDesign

Client: Project: Address: **Precision Custom Homes**

Liberty 2.0

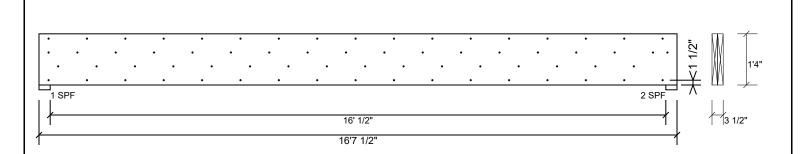
Date: 3/1/2023

Input by: David Landry Job Name: Lot 29 Liberty Meadow Page 2 of 14

Project #: J0323-0957

1.750" X 16.000" **Kerto-S LVL** 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 %		
Load	267.5 PLF		
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"		
Load Combination	D+L		
Duration Factor	1.00		

Notes

NOtes
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.

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening 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







Client: Project: Address: **Precision Custom Homes**

Liberty 2.0

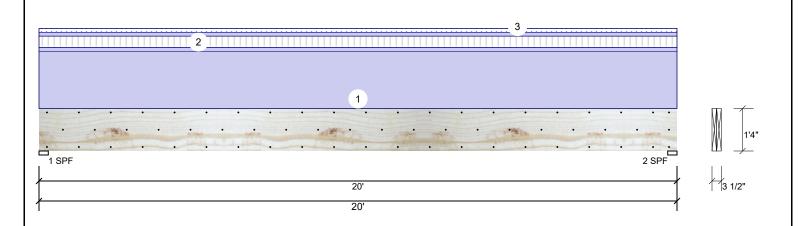
Date: 3/1/2023

Input by: David Landry Job Name: Lot 29 Liberty Meadow Page 3 of 14

Project #: J0323-0957

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

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Wind Type: Floor Brg Direction Live Dead Snow Const Plies: 2 Design Method: ASD 400 2409 Vertical 135 0 0 1 Moisture Condition: Dry **Building Code:** IBC 2012 2 Vertical 400 2409 135 0 0 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. D+0.75(L+S) 1 - SPF 3.500" Vert 54% 2409 / 401 2811 L 2 - SPF 3.500" Vert 54% 2409 / 401 2811 L D+0.75(L+S)

Analysis Results

н	•						
ſ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	13439 ft-lb	10'	34565 ft-lb	0.389 (39%)	D+L	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

U Laterar s	sieriuerriess ratio baseu	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.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 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 28314 910-864-TRUS





isDesign

Client: Project: Address: **Precision Custom Homes**

Liberty 2.0

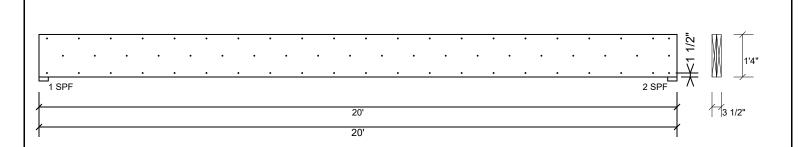
Date: 3/1/2023

Input by: David Landry Job Name: Lot 29 Liberty Meadow Page 4 of 14

Project #: J0323-0957

1.750" X 16.000" **Kerto-S LVL** 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 %	
Load	27.5 PLF	
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"	
Load Combination	D+L	
Duration Factor	1.00	

Notes

NOtes
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.

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening 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







Client: Project: Address: Precision Custom Homes

Liberty 2.0

Date: 3/1/2023

Input by: David Landry

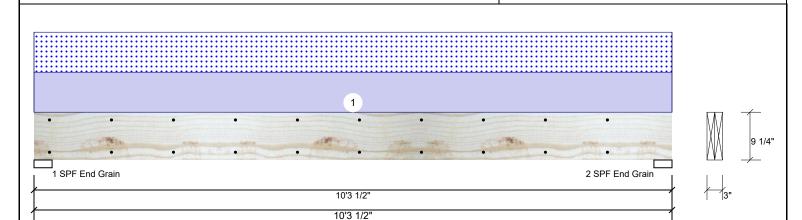
Job Name: Lot 29 Liberty Meadow

Page 5 of 14

Project #: J0323-0957

Level: Level

BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED



Bearings

Member Information Application: Type: Floor Plies: 2 Design Method: ASD Moisture Condition: Dry **Building Code:** IBC 2012 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Not Checked Deck: Importance: Normal - II Ceiling: Gypsum 1/2" Temp <= 100°F Temperature:

Read	ctions UNP	NPATTERNED lb (Uplift)							
Brg	Direction	Live	Dead	Snow	Wind	Const			
1	Vertical	0	607	607	0	0			
2	Vertical	0	607	607	0	0			

Analysis Results Comb. Case Analysis Actual Location Allowed Capacity Moment 5'1 3/4" 3946 ft-lb 2852 ft-lb 0.723 (72%) D+S L Unbraced 2852 ft-lb 5'1 3/4" 2937 ft-lb 0.971 (97%) D+S L Shear 964 lb 1' 3/4" 2872 lb 0.336 (34%) D+S L LL Defl inch 0.090 (L/1317) 5'1 3/4" 0.246 (L/480) 0.365 (36%) S L TL Defl inch 0.179 (L/658) 5'1 3/4" 0.328 (L/360) 0.547 (55%) D+S L

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1-SPF 3.500" 607 / 607 D+S Vert 1214 L End Grain 2 - SPF 3.500" 27% 607 / 607 1214 L D+S Vert End Grain

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 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			Top	118 PLF	0 PLF	118 PLF	0 PLF	0 PLF	B2

Manufacturer Info

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

This design is valid until 11/3/2024

Client: **Precision Custom Homes** Date: 3/1/2023 Project: Liberty 2.0 Input by: David Landry isDesign Address: Job Name: Lot 29 Liberty Meadow Project #: J0323-0957 Level: Level 2.000" X 10.000" 2-Ply - PASSED **BM3** S-P-F #2

> 10'3 1/2" 10'3 1/2"

Multi-Ply Analysis

1 SPF End Grain

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 %
Load	0.0 PLF
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.
101 S. Reilly Road, Suite #639
Fayetteville, NC
USA
28314
910-864-TRUS

2 SPF End Grain



Page 6 of 14



BM4

Client: Project: Address: **Precision Custom Homes**

Liberty 2.0

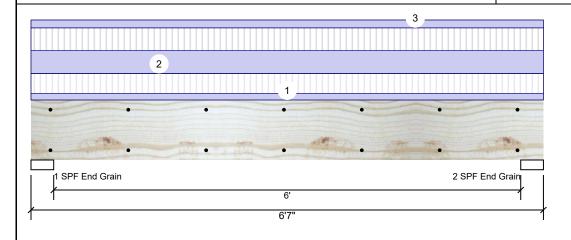
Date: Input by:

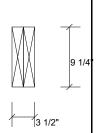
3/1/2023 David Landry

Job Name: Lot 29 Liberty Meadow Project #: J0323-0957

1.750" X 9.250" **Kerto-S LVL** 2-Ply - PASSED

Level: Level





Page 7 of 14

Member Information

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

Application: Design Method: ASD **Building Code:** IBC 2012

Load Sharing: No

Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

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

Analysis Results

Temperature:

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

Grain

Bearing	Length	Dir.	Cap. F	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	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.

Temp <= 100°F

- 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.

L		3	1 7								
I	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
l	1	Uniform			Тор	102 PLF	304 PLF	0 PLF	0 PLF	0 PLF	F2
l	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
ı		Self Weight				7 PI F					

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.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information
 regarding installation requirements, multi-ply
 fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 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 28314 910-864-TRUS







Precision Custom Homes

Liberty 2.0

Date: 3/1/2023 Input by: David Landry

Job Name: Lot 29 Liberty Meadow

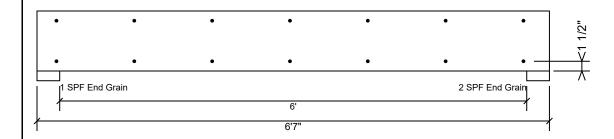
Project #: J0323-0957

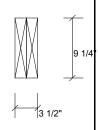
Kerto-S LVL BM4

1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 8 of 14

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".

rasterrain pries asing E	TOWS OF TOO BOX Halls (.TEOXS) at
Capacity	0.0 %
Load	0.0 PLF
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

Notes

NOtes
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.

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening 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







Precision Custom Homes

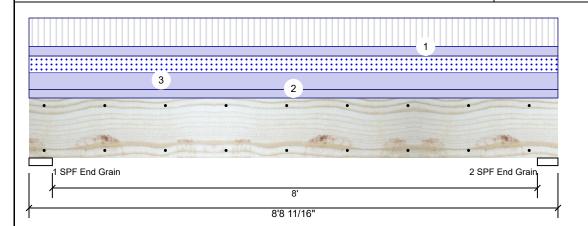
Liberty 2.0

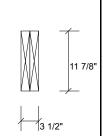
Date: 3/1/2023 Input by: David Landry

Job Name: Lot 29 Liberty Meadow evel: Level

Project #: J0323-0957

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





Page 9 of 14

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240 Importance: Normal - II

Temp <= 100°F

Application: Floor Design Method: ASD **Building Code:** IBC 2012

Load Sharing: No

Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

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

Bearings

End Grain

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

Analysis Results

Temperature:

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

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.

Ū	Load Type	Location	Trib Width	Side	Dead 0.0	Live 1	Snow 1 15	Wind 1.6	Conet
8 L	8 Lateral slenderness ratio based on single ply width.								
7 Bottom must be laterally braced at end bearings.									
6	Top must be laterally braced at end b	earings.							
5	Top loads must be supported equally	by all plies.							

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 8-8-11		Тор	135 PLF	404 PLF	0 PLF	0 PLF	0 PLF	F3
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
3	Uniform			Тор	238 PLF	0 PLF	238 PLF	0 PLF	0 PLF	C1
	Self Weight				9 PI F					

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.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 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 28314 910-864-TRUS







Precision Custom Homes

Liberty 2.0

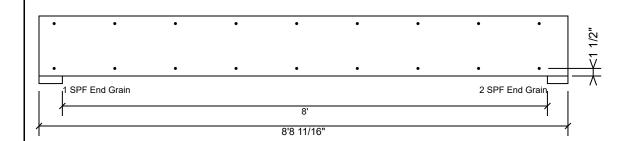
Date: 3/1/2023 Input by: David Landry

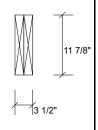
Job Name: Lot 29 Liberty Meadow

Project #: J0323-0957

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

evel: Level





Page 10 of 14

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".

rasterrain pries asing E rows	or roa box rians (. 120x3) at
Capacity	0.0 %
Load	0.0 PLF
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

Notes

NOtes
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.

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

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening 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

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



This design is valid until 11/3/2024





Precision Custom Homes

Liberty 2.0

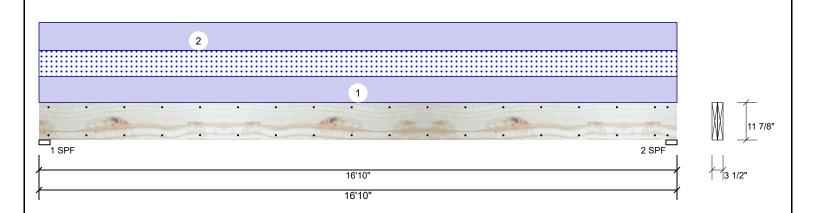
Date: 3/1/2023

Input by: David Landry Job Name: Lot 29 Liberty Meadow Page 11 of 14

Project #: J0323-0957

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

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Live Wind Type: Floor Brg Direction Dead Snow Const Plies: 2 Design Method: ASD 0 1054 0 Vertical 471 0 1 Moisture Condition: 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 Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+S 1-SPF 3.500" Vert 29% 1054 / 471 1525 L

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.

o Lateral Sierius	iness ratio based on single	piy widiri.									
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.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

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



This design is valid until 11/3/2024



isDesign

Client: Project: Address: **Precision Custom Homes**

Liberty 2.0

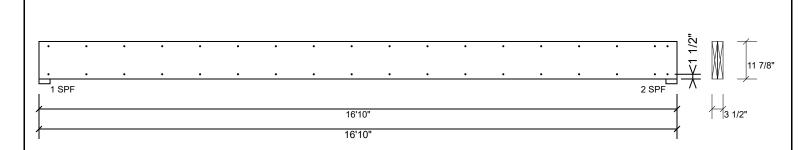
Date: 3/1/2023

Input by: David Landry Job Name: Lot 29 Liberty Meadow Page 12 of 14

Project #: J0323-0957

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

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

Notes

NOtes
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.

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

Handling & Installation

- Informing & Installation

 I. VIL beams must not be cut or drilled

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

 Damaged Beams must not be used

 Design assumes top edge is laterally restrained

 Design assumes top edge is laterally restrained is provide lateral support at bearing points to avoid lateral displacement and rotation

- For flat roofs provide proper drainage to prevent ponding

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

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



This design is valid until 11/3/2024

Manufacturer Info



Precision Custom Homes

Liberty 2.0

Date: 3/1/2023

Input by: David Landry Job Name: Lot 29 Liberty Meadow

Project #: J0323-0957

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

Application:

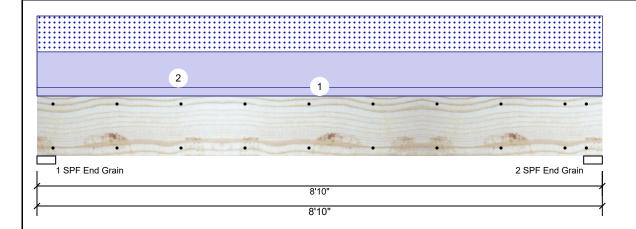
Design Method:

Building Code:

Load Sharing:

Deck:

Level: Level



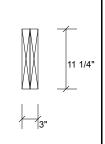
Floor

ASD

No

IBC 2012

Not Checked



Total Ld. Case Ld. Comb.

Page 13 of 14

Member Information

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

Temp <= 100°F Temperature:

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1413	1148	0	0
2	Vertical	0	1413	1148	0	0

Analysis Results

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 Length Dir.

1 - SPF End Grain	3.500"	Vert	57%	1413 / 1148	2562	L	D+S
2 - SPF End Grain	3.500"	Vert	57%	1413 / 1148	2562	L	D+S

Cap. React D/L lb

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			Top	260 PLF	0 PLF	260 PLF	0 PLF	0 PLF	G1

This design is valid until 11/3/2024

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

S-P-F #2

GDH₂

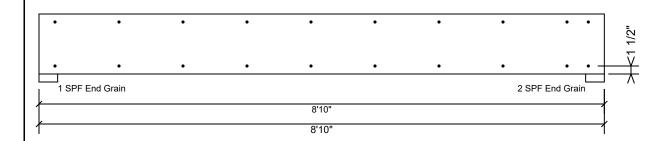
Client: Project: Address:

Precision Custom Homes Liberty 2.0

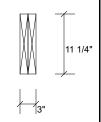
Date: 3/1/2023 Input by: David Landry

Job Name: Lot 29 Liberty Meadow Project #: J0323-0957

2.000" X 12.000" 2-Ply - PASSED Level: Level



This design is valid until 11/3/2024



Page 14 of 14

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 %
Load	0.0 PLF
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

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

CSD DESIGN

															DA	TE 03/	01/23 PAGE 1
action S	umı	mary	of (Orde	r	REQ. 0	QUOTE	E DATE	/	/			OR	DER #	‡	J	0323-0957
						ORDE	R DAT	E	03/	01/23			QU	OTE #	ŧ		
						DELIV	ERY D	ATE	/	/			CU	STOM	IER ACCT #	# C	0000007216
T !			k FLOC			DATE	OF IN	VOICE	/	/			CU	STOM	IER PO#		
omTech	∐ TR	USSES	& BEA	MS		ORDE	RED B	Y	_	aun Garde	rner		INV	OICE	#		
Road Industri						COUN			_	rnett			_	RMS		\perp	
etteville, N.C. 2	28309	(910)	864-TF	RUS		SUPER	RINTE	NDANT	Sh	aun Garde	rner		SA	LES R	EP		leil Baggett
						JOBSI	TE PH	ONE #	(91	0) 988-817	72		SA	LES A	REA		David Landry
Precision (Cust	om H	omes		JOB NAME:	Lot 29 Li	berty N	Meadow				LO	T # 29	S	UBDIV:Libe	erty M	eadow
256 Briar H	ill Ro	d.			MODEL: Floo	or	-	TAG: L	_iberty :	2.0 w/ CP		JOE	CATE	GORY	/ :	-	
Raeford, N					DELIVERY INS	STRUCTION	ONS:										
(910) 988-8		370			2 miles round												
(0.0,000.0																	
Precision C	Custo	om Ho	omes		SPECIAL INST	PLICTION	vic.										
Lot 29 Libe	rty N	leado	W	'	DE ECIAL INST	ROCTIO	١٥.										
Cameron, N	NC 2	8356													DI ANI	0541	DATE
															PLAN		DATE: BY DATE
LDING DEPA	RTMI	ENT	VFRH	ANG IN	FO HEEL HE	IGHT	00-06	6-08	RFQ I	AYOUTS		REQ. ENGI	NFFRIN	IG.	QUOTE	DTL	03/01/23
r Order	1911		ND CUT				1330				П				LAYOUT	DTL	03/01/23
					GABLE S	STUDS	24 IN	N. OC		JOBSITE	1		JOBSITE	1	CUTTING	DTL	03/01/23
	~, , <u>~</u>		LO	ADING	TOULTO	DL-BCLL-BC	OL STP	ESS INCR.	1 _			0040:::	04.0 !!		(T\/D\)		<u> </u>
LOOR TE	くひら	3E		ORMAT		0.0,0.0,5.0		1.00	1 「	LOOR TRI	บรร	SPACING	: 24.0 IN	v. O.C	. (TYP.)		
LOOR Q1	ГΥ	DEP	ГН	BASE	O/A	END T		INT BE	ARING	REAC ⁻	TION	ue e					
ROFILE PL	Υ	ID		SPAN	I SPAN			SIZE LO		REAC	1101	10					
S		01-04					╗			Joint 29		Joint 30	Join		Joint 32		Joint 33
	1	ET	1	32-11-0	00 32-11-00					23.4 lbs		127.1 lbs.	15	1.2 lbs	. 145.5	IDS.	147.0 lbs.
1	1				1	. — !		1		l =		11.46	, .				11.01
	1	01-04 ET		18-04-0	00 18-04-00					Joint 17 32.7 lbs		Joint 18 134.3 lbs.	Join 15	it 19 50.0 lbs	Joint 20 . 145.8		Joint 21 146.9 lbs.
	-1	<u>- 1</u>		.5 54-0	10 04 00					J 32.7 103.	-	.51.5155.	10		. 170.0		
		01-04	-00							Joint 18		Joint 19	Join	t 20	Joint 21		Joint 22
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1	ET		19-04-0	08 19-04-08					35.3 lbs.		136.7 lbs.		19.5 lbs			146.9 lbs.
		-					-		-				-				
		01-04					_			Joint 24		Joint 33		t 40			
	7	F1		32-11-0	00 32-11-00	<u> </u>				882.3 lbs 204.1 lbs		2190.2 lbs. 1224.3 lbs.		2.4 lbs 2.2 lbs.			
										∠U4.1 IDS		1224.3 IDS.	. 2.	۷.۷ ۱۵۵.			
1	1	04.0	00		1			ı		loint 22		Joint 20	Jai-	+ 26			
**************************************	3	01-04 F2		31-11-0	00 31-11-00					Joint 22 794.9 lbs	3.	Joint 30 2078.8 lbs.		t 36 9.4 lbs	i.		
	-				1					131.6 lbs		1319.8 lbs.		27.0 lbs			
		01-04		4.=			╗			Joint 14		Joint 24					
	9	F3		19-11-0	00 19-11-00	ш_				1075.4 lb		1075.4 lbs. 522.5 lbs.	•				
										JZZ.J IDS	,.	022.J IDS.					
I	1	04.04	00		1	==	—	I		loint 16		Joint 2F					
	10	01-04 F4		19-08-0	00 19-08-00					Joint 16 1067.9 lb	S.	Joint 25 1061.7 lbs.					
					, : ::: 30	1				512.1 lbs		567.4 lbs.					,
		01-04								Joint 16		Joint 20		t 31			
	1	F4	4	19-08-0	00 19-08-00	<u> </u>				275.1 lbs 3.8 lbs.	S	1157.1 lbs. 526.1 lbs.		80.4 lbs 98.6 lbs			
										J.0 IDS.		JZU.1 IDS.	18	.อ.อ เมร	•		
	1	04.04	00			==		I		Joint 4		Joint 8					
	1	01-04 F5		05-10-0	05-10-08	<u> </u>	=			294.4 lbs	3.	288.3 lbs.					
						1				198.6 lbs		193.7 lbs.					

											DA	TE 03/01	/23	PAGE 2
eaction Summary of Orc	er	REQ. Q	UOTE DAT	E	/ /				ORDE	ER #	‡	J0:	323-0	957
^		ORDER	DATE		03/01/23				QUO	ΓE #	‡			
		DELIVE	RY DATE		/ /				CUST	ON	IER ACCT#	ŧ 00	00007	'216
ROOF & FLOOR		DATE C	F INVOICE	=	/ /				CUST	ON	IER PO#			
omTech TRUSSES & BEAMS		ORDERED BY			Shaun Garderner				INVOICE #					
ly Road Industrial Park P.O. Box 40408		COUNT	Υ		Harnett				TERM	IS				
retteville, N.C. 28309 (910) 864-TRUS		SUPER	INTENDAN	IT	Shaun Garde	rner			SALE	SR	EP	Ne	il Bag	gett
		JOBSIT	E PHONE	#	(910) 988-817	'2			SALE	S A	REA	Da	vid La	ındry
Precision Custom Homes	JOB NAME:	ot 29 Lib	ot 29 Liberty Meadow LOT # 29 SUBDIV: Liberty Meadow											
256 Briar Hill Rd.	MODEL:Floo	r	TAC	3: Libe	erty 2.0 w/ CP		J	ов с	ATEG	OR'	Y: _			
Raeford, NC 28376 (910) 988-8172			NS:											
Precision Custom Homes and														
	SPECIAL INST	RUCTION	S:											
•														
Cameron, NC 20330											PLAN			
														DATE
		IGHT	00-06-08	RE	Q. LAYOUTS		REQ. EN	IGINE	ERING				_	3/01/23
or Order END CUT RE		TUDE	24 INL OC		IODOITE	1		101	DOITE	1				3/01/23
	GABLE 3	1003	24 IN. OC		JOBSITE	- 1		301	BOILE	'	COTTING	DIL		3/01/23
FLOOR TRUSSES LOADING INFORMATION TCLL-TCDL-BCLL-BCDL STRESS INCR. 40.0,10.0,0.0,5.0 1.00 FLOOR TRUSS SPACING: 24.0 IN. O.C. (TYP.)														
				ΓΙΟΝ	NS									
1 01-01-00 FG1 05-	06-00 05-06-00		<u> </u>			-								
F	ROOF & FLOOR TRUSSES & BEAMS ly Road Industrial Park P.O. Box 40408 etteville, N.C. 28309 (910) 864-TRUS Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 ILDING DEPARTMENT OVERHANG FOR OTHER OF COMMENT	Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 LDING DEPARTMENT OVERHANG INFO HEEL HE END CUT RETURN GABLE STOOM INFORMATION GABLE STOOM SPAN SPAN COMPART OF THE PLY COMPART OF T	ORDER DELIVE DATE OF COMTech TRUSSES & BEAMS IT RUSSES & BEAMS IT RUSSES & BEAMS ORDER DELIVE DATE OF COUNT IT RUSSES & BEAMS ORDER DELIVE DATE OF COUNT ORDER DELIVE DATE OF COUNT SUPER JOBSIT Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 ILDING DEPARTMENT OF ORDER INFORMATION TO ORDER DELIVE MODEL: Floor DELIVERY INSTRUCTION SPECIAL INSTRUCTION SPECIAL INSTRUCTION GABLE STUDS TULL-TCDL-BCLL-BCDL 40.0,10.0,0.0,5.0 FLOOR TRUSSES INFORMATION ROFILE PLY ID O1-01-00	ORDER DATE DELIVERY DATE DATE OF INVOICE ORDERED BY COUNTY SUPERINTENDAN JOBSITE PHONE Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 DELIVERY INSTRUCTIONS: SPECIAL INSTRUCTIONS: SPECIAL INSTRUCTIONS: PROFILE FLOOR TRUSSES LOADING INFORMATION TCLL-TCDL-BCLL-BCDL STRESS INC 40.0,10.0,0.0,5.0 1.00 O1-01-00	ORDER DATE DELIVERY DATE DATE OF INVOICE ORDERED BY COUNTY SUPERINTENDANT JOBSITE PHONE # Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 ILDING DEPARTMENT OVERHANG INFO HEEL HEIGHT OF Order END CUT RETURN FOR OTHER OF OTHER OF OTHER OF OTHER OF OTHER OF OTHER OTHER OF OTHER OTHE	ORDER DATE O3/01/23 DELIVERY DATE IV ROOF & FLOOR TRUSSES & BEAMS IV Road Industrial Park P.O. Box 40408 etteville, N.C. 28309 (910) 864-TRUS Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 ILDING DEPARTMENT OVERHANG INFO END CUT RETURN GABLE STUDS LOADING INFORMATION TOTAL TOTAL ORDER DATE O3/01/23 DELIVERY DATE I DATE OF INVOICE I DATE OF	ORDER DATE O3/01/23 DELIVERY DATE // DATE OF INVOICE // ORDERED BY Shaun Garderner COUNTY Harnett SUPERINTENDANT Shaun Garderner JOBSITE PHONE # (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 DELIVERY INSTRUCTIONS: SPECIAL INSTRUCTIONS: DELIVERY INSTRUCTIONS: SPECIAL INSTRUCTIONS: DELIVERY INSTRUCTIONS: SPECIAL INSTRUCTIONS: SPECIAL INSTRUCTIONS: DELIVERY INSTRUCTIONS: SPECIAL	ORDER DATE 03/01/23 DELIVERY DATE // DATE OF INVOICE // ORDERED BY Shaun Garderner COUNTY Harnett SUPERINTENDANT Shaun Garderner JOBSITE PHONE # (910) 988-8172 Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 SPECIAL INSTRUCTIONS: SPECIAL INSTRUCTIONS: SPECIAL INSTRUCTIONS: FLOOR TRUSSES LOADING INFORMATION OF CALL-BCDL STRESS INCR. FLOOR TRUSSES LOADING INFORMATION OF CALL-BCDL STRESS INCR. FROFILE PLY ID BASE O/A SPAN LEFT RIGHT SIZE LOCATION 1 01-01-00	ORDER DATE ORDER DATE DELIVERY DATE ORDER DATE DELIVERY DATE ORDER DATE DELIVERY DATE ORDER DATE DATE OF INVOICE ORDER DATE OF INVOICE ORDER DATE ORDER DATE ORDER DATE ORDER DATE OF INVOICE ORDER DATE ORDER DATE ORDER DATE ORDER DATE ORDER DATE OF INVOICE ORDER DATE ORDER OATE ORDER DATE ORDER DATE ORDER DATE ORDER DATE ORDER DATE ORDER OATE ORDER DATE ORDER OF INVOICE ORDER DATE ORDER DATE ORDER DATE ORDER DATE ORDER OATE ORDER DATE ORDER DATE ORDER OATE ORDER DATE ORDER OATE ORDER OATE ORDER DATE ORDER OATE OATE OATE OATE OATE OATE OATE OATE	ORDER DATE O3/01/23 QUOT DELIVERY DATE OATE OF NOOICE TRUSSES & BEAMS TRUSSES & BEAMS ORDERED BY DATE OF INVOICE ORDERED BY Shaun Garderner INVOI SUPERINTENDANT Shaun Garderner SALE Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 DELIVERY INSTRUCTIONS: SPECIAL INSTRUCTIONS: DELIVERY INSTRUCTIONS: SPECIAL INSTRUCTIONS: SPECIAL INSTRUCTIONS: FLOOR TRUSSES LOADING INFORMATION TOTH OABLE STUDS AUGUST OATE OF INVOICE // CUST ORDERED BY Shaun Garderner SALE SUPERINTENDANT Shaun Garderner SALE JOB STREY Meadow LOT # 29 JOB CATEGO DELIVERY INSTRUCTIONS: SPECIAL INSTRUCTIONS: FLOOR TRUSSES LOADING INFORMATION TOTH TOTH	ORDER DATE O3/01/23 QUOTE # DELIVERY DATE DATE OF INVOICE OF TRUSSES & BEAMS DY Road Industrial Park P.O. Box 40408 etteville, N.C. 28309 (910) 864-TRUS Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow Cameron, NC 28356 ILDING DEPARTMENT OVERHANG INFO END CUT RETURN GABLE STUDS LOADING INFORMATION TOUT RETURN GABLE STUDS PROFILE PLY ID DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM DATE OF INVOICE 1 / Custom ORDER DATE OUSTOM ORDER OF INVOICE OUSTOM ORDER OF I	REQ. QUOTE DATE // ORDER # ORDER DATE 03/01/23 QUOTE # DELIVERY DATE // CUSTOMER ACCT # DATE OF INVOICE // CUSTOMER PO # ORDERED BY Shaun Garderner INVOICE # COUNTY Harnett TERMS SUPERINTENDANT Shaun Garderner SALES REP JOBSITE PHONE # (910) 988-8172 SALES AREA Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376 (910) 988-8172 Precision Custom Homes and Lot 29 Liberty Meadow LOT # 29 SUBDIV: Liberty Meadow LOT # 29 SUBDIV: Liberty Meadow Cameron, NC 28356 SPECIAL INSTRUCTIONS: 52 miles round trip SPECIAL INSTRUCTIONS: 54 miles round trip SPECIAL INSTRUCTIONS: 55 miles round trip SPECIAL INSTRUCTIONS: 56 miles round trip SPECIAL INSTRUCTIONS: 57 miles round trip SPECIAL INSTRUCTIONS: 58 miles round trip SPECIAL INSTRUCTIONS: 59 miles round trip SPECIAL INSTRUCTIONS: 50 miles round trip SPECIAL INSTRUCTIONS: 50 miles round trip SPECIAL INSTRUCTIONS: 50 miles round trip SPECIAL INSTRUCTIONS: 51 miles round trip SPECIAL INSTRUCTIONS: 52 miles round trip SPECIAL INSTRUCTIONS: 52 miles round trip SPECIAL INSTRUCTIONS: 52 miles round trip SPECIAL INSTRUCTIONS: 54 miles round trip SPECIAL INSTRUCTIONS: 55 miles round trip SPECIAL INSTRUCTIONS: 56 miles round trip SPECIAL INSTRUCTIONS: 57 miles round trip SPECIAL INSTRUCTIONS: 58 miles round trip SPECIAL INSTRUCTIONS: 59 miles round trip SPECIAL INSTRUCTIONS: 50 mi	REQ. QUOTE DATE	REQ. QUOTE DATE

ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
1					
8	Hangers, USP	HUS 410			SIMPSON (HUS410)
2	LVL Beams (Sized)	LVL, 1-3/4" x 9-1/4" (S)	07-00-00		BM4
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	09-00-00		BM5
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	20-00-00		GDH
2	LVL Beams (Sized)	LVL, 1-3/4" x 16" (S)	17-00-00		BM1
	,				
2	LVL Beams (Sized)	LVL, 1-3/4" x 16" (S)	20-00-00		BM2



RE: J0323-0957

Lot 29 Liberty Meadow

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0323-0957

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

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	156917899	ET1	3/1/2023
2	156917900	ET2	3/1/2023
3	156917901	ET3	3/1/2023
4	156917902	F1	3/1/2023
5	156917903	F2	3/1/2023
6	156917904	F3	3/1/2023
7	156917905	F4	3/1/2023
8	156917906	F4A	3/1/2023
9	156917907	F5	3/1/2023
10	156917908	FG1	3/1/2023

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023

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.



March 01, 2023

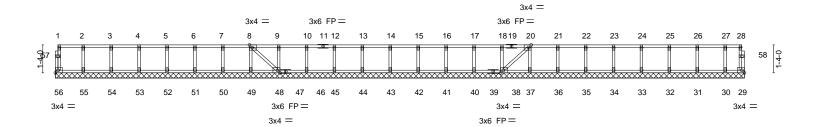
Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow	
J0323-0957	ET1	GABLE	1	1	I56917899	
30323-0937		GABLE	'	'	Job Reference (optional)	

0-1₁-8

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:46 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-vFAMz0lokDfoj_POPHmBiuM3HfXVKefis35yipzfKAt

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

Scale = 1:55.0



1-4-0 | 2-8-0 | 4-0-0 | 5-4-0 | 6-8-0 | 8-0-0 | 9-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0

Plate Offs	Plate Offsets (X,Y) [8:0-1-8,Edge], [20:0-1-8,Edge], [38:0-1-8,Edge], [48:0-1-8,Edge]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	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/T	PI2014	Matri	x-S						Weight: 147 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. **WEBS** 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 32-11-0.

2x4 SP No.3(flat)

(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-

OTHERS

- 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.



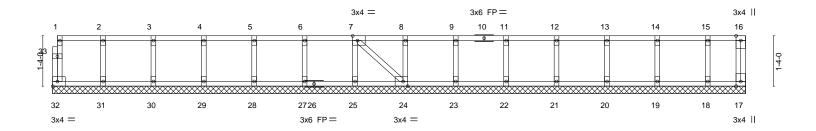


Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow	1
					I56917900	
J0323-0957	ET2	GABLE	1	1		
					Job Reference (optional)	

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:47 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-NRkIAMJQVXnfL8_az_HQE6vDv3tj35vr5jrWEFzfKAs

0-11-8

Scale = 1:30.5



1-4-0 1	2-8-0	6-8-0 8-0-0 1-4-0 1-4-0	9-4-0 10-8-0 1-4-0 1-4-0	12-0-0 1-4-0	13-4-0 1-4-0 1-4-0		4-0 + 18-4-0 1-0 + 1-0-0
Plate Offsets (X,Y)	[7:0-1-8,Edge], [24:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.07 BC 0.01	Vert(LL) Vert(CT)	n/a - n/a -	n/a 999 n/a 999	MT20	244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr NO Code IRC2015/TPI2014	WB 0.03 Matrix-S	Horz(CT)	0.00 17	n/a n/a	Weight: 84 lb	FT = 20%F, 11%E
LUMBER-		<u> </u>	BRACING-				

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

NOTES-

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.
- 7) CAUTION, Do not erect truss backwards.



Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow
					156917901
J0323-0957	ET3	GABLE	1	1	
					Job Reference (optional)

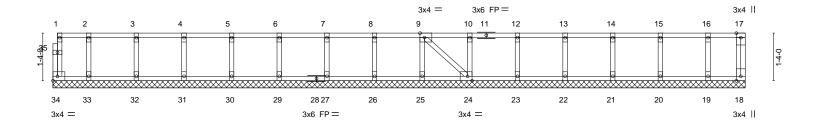
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:48 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-rdl7OiK2GrvWylZnWipfnJSPnTDzoY9_KNa3nhzfKAr

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

except end verticals.

0-<u>11</u>-8

Scale: 3/8"=1"



1-0-0 2-4-0 1-0-0 1-4-0			7-8-0 1-4-0	9-0-0	10-4-0 11-8		13-0-0 1-4-0	14-4			8-4-0 19-4-8 -4-0 1-0-8
Plate Offsets (X,Y)	[9:0-1-8,Edge], [24:0-1-8	3,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/T	2-0-0 1.00 1.00 YES PI2014	CSI. TC BC WB Matri	0.06 0.01 0.03 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 18	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 89 lb	GRIP 244/190 FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

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

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3(flat)

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,

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.





Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow
			_		I56917902
J0323-0957	F1	Floor	7	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:50 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-o0QtpOLJoS9ECcj9e7r7skXcJGilGJMHng3ArazfKAp

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

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

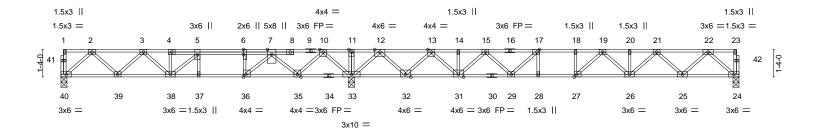
except end verticals.

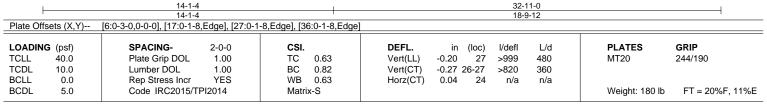
0-1-8

HI 1-3-0 2-1-4

1-8-4

0-1-8 Scale = 1:55.9





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

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)

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

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

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

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

NOTES-

WEBS

- 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.



March 1,2023



Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow
		_			I56917903
J0323-0957	F2	Floor	3	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:52 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-kPXeD3NZK3PyRvtYIYtbx9ctN4MlkEBaF_YHwSzfKAn

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

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

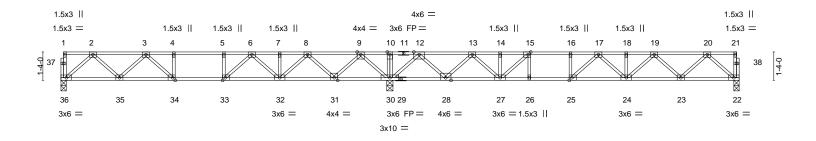
except end verticals.

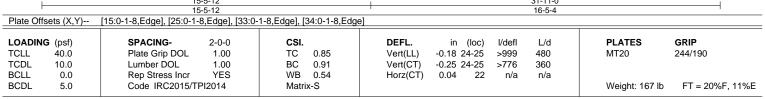
0-1-8

HI-3-0 2-2-12

1-9-12

0-1-8 Scale = 1:54.2





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

(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,

14-15=-1712/332, 15-16=-2291/0, 16-17=-2291/0, 17-18=-2225/0, 18-19=-2225/0,

19-20=-1395/0

35-36=0/769, 34-35=0/1668, 33-34=0/1941, 32-33=-35/1748, 31-32=-414/927, BOT CHORD

30-31=-1214/0, 28-30=-1129/0, 27-28=-547/1232, 26-27=0/2291, 25-26=0/2291,

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-

REACTIONS.

- 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.



March 1,2023



Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow
					I56917904
J0323-0957	F3	Floor	9	1	
					Job Reference (optional)

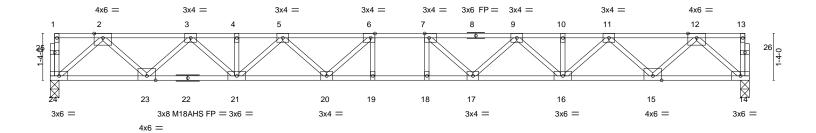
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:53 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-Cb50RPNB5NXp33RkJFOqUN97gUiPThFjTelqSvzfKAm

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

0-1-8 H - 1-3-0

1-5-0

0-1-8 Scale = 1:32.8



			19-11-0	<u>'</u>
Plate Offsets (X,Y)	[6:0-1-8,Edge], [7:0-1-8,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 0.56	Vert(LL) -0.33 18-19 >724 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 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 14 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 106 lb FT = 20%F, 11%E

TOP CHORD

19-11-0

LUMBER-**BRACING-**

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

except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing.

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 BOT CHORD 23 - 24 = 0/1172, 21 - 23 = 0/2810, 20 - 21 = 0/3918, 19 - 20 = 0/4391, 18 - 19 = 0/4391, 17 - 18 = 0/4391, 18 - 19 =

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

2-24=-1557/0, 2-23=0/1160, 3-23=-1119/0, 3-21=0/814, 5-21=-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

NOTES-

WFBS

- 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.



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

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

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

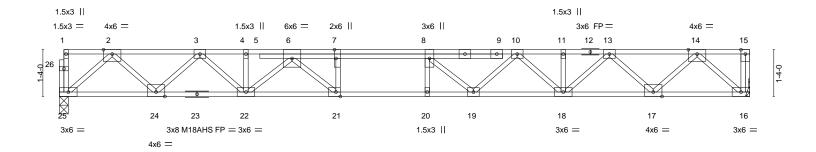


Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow
10000 0057	- 4		40		I56917905
J0323-0957	F4	Floor	10	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:54 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-gnfOelOpshfggD0xtyv31ahK0t3hC8etil1O_LzfKAl



Scale = 1:32.8



			19-8-0			
Plate Offsets (X,Y)	Plate Offsets (X,Y) [7:0-3-0,Edge], [21:0-1-8,Edge]					
1.0.4.D.W.O. / . //	001000	001	555	DI ATEO ODID		
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 0.39	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/TPI2014	Matrix-S		Weight: 112 lb FT = 20%F, 11%E		

19-8-0

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **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,

10-11=-3354/0, 11-13=-3354/0, 13-14=-1976/0

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

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, WFBS

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

NOTES-

- 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.



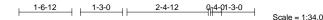


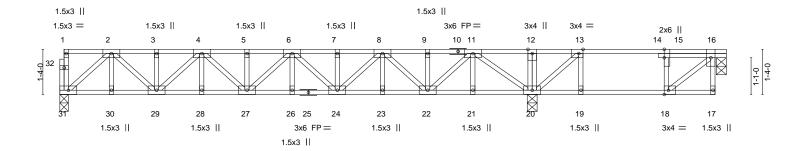
Job	Truss	Truss Type	Qty	Ply	Lot 29 Liberty Meadow
10000 0057					I56917906
J0323-0957	F4A	Floor	1	1	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:56 2023 Page 1 ID:aTXuLo?nW09qtpROz2WQ0wydkZW-cAn83RQ3OIvNwXAJ_NyX6?ngOhsyg5uA9cWU3DzfKAj







		15-5-4 1-6-0		9-4-0 19-8 ₁ 0 -6-0 0-4-0				
Plate Offsets (X,Y)								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.40 BC 0.38 WB 0.37 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (I -0.08 -0.11 0.03	(loc) I/de 26 >99 26 >99 20 n/	9 480 9 360	PLATES MT20 Weight: 115 lb	GRIP 244/190 FT = 20%F, 11%E

LUMBER-BRACING-

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

BOT CHORD

TOP 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, Except: 6-0-0 oc bracing: 19-20,18-19.

REACTIONS. (size) 31=0-3-0, 16=0-3-8, 20=0-3-8

Max Grav 31=730(LC 8), 16=275(LC 4), 20=1157(LC 7)

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

TOP CHORD 2-3=-1331/0, 3-4=-1331/0, 4-5=-1969/0, 5-6=-1969/0, 6-7=-1961/0, 7-8=-1961/0,

8-9=-1306/0, 9-11=-1306/0, 11-12=0/365, 12-13=0/364, 13-15=-276/99, 15-16=-253/96 BOT CHORD $30 - 31 = 0/775,\ 29 - 30 = 0/775,\ 28 - 29 = 0/1732,\ 27 - 28 = 0/1732,\ 26 - 27 = 0/2047,\ 24 - 26 = 0/2$

23-24=0/1717, 22-23=0/1717, 21-22=0/750, 20-21=0/750, 19-20=-96/253, 18-19=-96/253

16-18=-125/330, 2-31=-1021/0, 2-29=0/751, 4-29=-541/0, 4-27=0/319, 8-24=0/345,

8-22=-569/0, 11-22=0/769, 11-20=-1229/0, 13-20=-575/0

NOTES-

WFBS

- 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.





Job Truss Truss Type Qty Ply Lot 29 Liberty Meadow 156917907 J0323-0957 F5 FLOOR Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:57 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-4MLWHnRi8c1EXhlVY5TmeDJun5GPPb0JOGG2bgzfKAi 0-1-8 2-5-0 0-4-0 1-3-0 Scale = 1:11.4 3x4 = 3x6 || 3x4 | 11.5x3 || 2 3 4 9 3x4 =1-1-0 1.5x3 || 5 1.5x3 || 7 3x4 =3x6 =

[2:0-1-8 Edge] [6:0-1-8 Edge] [9:0-1-8 0-1-8] Plate Offsets (X V)--

Tiate On	Trade Onsets (x, r)== [2.0-1-0, Luge], [0.0-1-0, Luge], [0.0-1-0, Luge]											
LOADING	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	0.23	Vert(LL)	-0.01	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI20	014	Matri	x-S						Weight: 32 lb	FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (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 2-8=-382/0, 4-6=0/383 **WEBS**

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.
- 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.



5-10-8

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

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

except end verticals.



Job Truss Truss Type Qty Ply Lot 29 Liberty Meadow 156917908 J0323-0957 FG1 **FLOOR** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Mar 1 09:54:58 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:aTXuLo?nW09qtpROz2WQ0wydkZW-ZYvvU7RKvv959qKi6o_?BQs5FVbp82BTdw?b76zfKAh 0-1-8 2-3-0 1-3-0 0-1-8 Scale = 1:10.3 3x4 || 3x6 || 3x6 || 3x4 || 2 11 3 4 1 10 9 3x4 = 1.5x3 || 6 1.5x3 || 3x6 = Plate Offsets (X,Y)--[1:Edge,0-1-8], [9:0-1-8,0-1-8], [10:0-1-8,0-1-8] **PLATES** SPACING-LOADING (psf) CSI. DEFL. in (loc) I/defl L/d GRIP **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.12 Vert(LL) -0.01 6 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.17 Vert(CT) -0.01 6-7 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.19 0.01 5 Horz(CT) n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0

BOT CHORD

LUMBER-

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

Matrix-S

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

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

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

WEBS 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

Weight: 34 lb

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

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

except end verticals.

March 1,2023





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

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

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

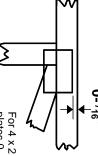


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



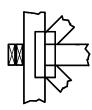
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



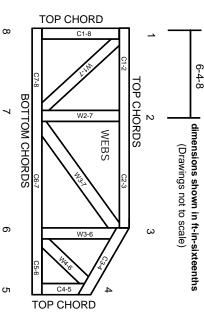
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 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
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

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

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ტ. Ö

- 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

φ.

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.