

RE: J0124-0344

Trenco

Truss Name

VA2

VA3

Date

3/6/2023

3/6/2023

818 Soundside Rd Edenton, NC 27932

Precision/Lot 69 Liberty Meadows/Harnett

Site Information:

Customer: Project Name: J0124-0344

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

This package includes 22 individual, dated Truss Design Drawings and 0 Additional Drawings.

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, 2024

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 06, 2023

Job Truss Truss Type Qty Precision/Lot 69 Liberty Meadows/Harnett 157003248 J0124-0344 A1-SG **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:47 2023 Page 1 Comtech, Inc.

6-7-1

ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-yDG0wTkryA6jailHjm2PDTTZkz_2cJv3d5xikjzdg9E 27-7-8 7-2-12 28-10-0 1-2-8 20-4-13 6-7-0

5x5 =

Scale: 3/16"=1"

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

2x4 SPF No.2 - 8-25

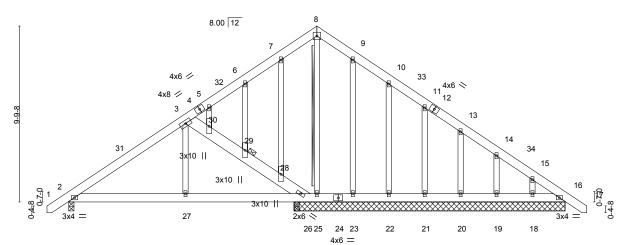
Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

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.

10-0-0 oc bracing: 2-27,26-27.

1 Brace at Jt(s): 29

Brace must cover 90% of web length.



12-6-8 9-5-1 3-1-7 5-7-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) I/def 20.0 Vert(LL) -0.01 360 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.17 2-27 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) -0.02 2-27 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 26 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.01 2-27 >999 240 Weight: 248 lb FT = 20%

BOT CHORD

WEBS

JOINTS

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

7-2-12 7-2-12

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

3-26: 2x8 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 15-1-0 except (jt=length) 2=0-3-8, 26=0-3-8, 26=0-3-8.

(lb) -Max Horz 2=-238(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 23, 22, 21, 20, 19, 18, 26

except 25=-103(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 16, 25, 23, 22, 21, 20, 19, 18

except 2=547(LC 1), 26=674(LC 3), 26=628(LC 1)

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

TOP CHORD 2-3=-556/124, 15-16=-205/297

BOT CHORD 2-27=-77/463, 26-27=-78/461, 25-26=-263/220, 23-25=-263/220, 22-23=-263/220, 21-22=-263/220, 20-21=-263/220, 19-20=-263/220, 18-19=-263/220, 16-18=-263/220

WEBS 3-27=0/285, 3-30=-658/224, 29-30=-587/184, 28-29=-648/227, 26-28=-711/263,

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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-9-12, Exterior(2) 13-9-12 to 18-2-9, Interior(1) 18-2-9 to 28-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 23, 22, 21, 20, 19, 18, 26 except (jt=lb) 25=103.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

a duss system. Before use, the culturing design 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

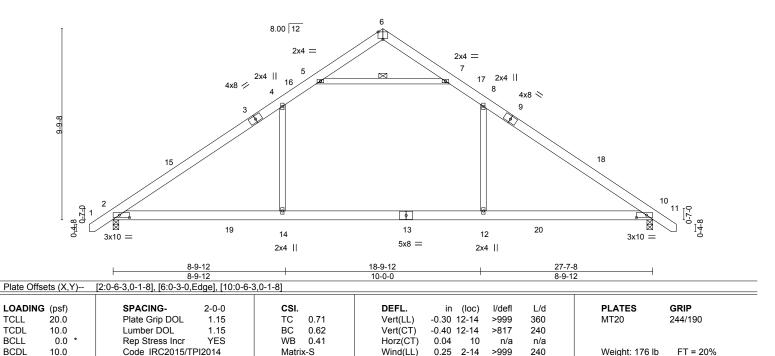


Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003249 J0124-0344 A2 COMMON Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:48 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-QPqO7olUjUEaCstTHUZelh0b2NDdLinCslgFG9zdg9D

18-9-12 28-10-0 1-2-8 5-0-0 5-0-0 8-9-12

> Scale = 1:59.0 4x6 =



LUMBER-

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

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 4-8-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-7

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=238(LC 11)

Max Uplift 2=-75(LC 12), 10=-75(LC 13) Max Grav 2=1442(LC 19), 10=1442(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2\text{-}4\text{--}2031/287, 4\text{-}5\text{--}1424/353, 5\text{-}6\text{--}29/298, 6\text{-}7\text{--}29/299, 7\text{-}8\text{--}1424/353, }$ TOP CHORD

8-9-12 8-9-12

8-10=-2031/287

BOT CHORD 2-14=-60/1578, 12-14=-60/1578, 10-12=-60/1578 WEBS 8-12=0/717, 4-14=0/717, 5-7=-1831/434

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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-9-12, Exterior(2) 13-9-12 to 18-2-9, Interior(1) 18-2-9 to 28-8-7 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, 10.





Job Truss Truss Type Qty Precision/Lot 69 Liberty Meadows/Harnett 157003250 J0124-0344 A3 COMMON 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:50 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-Moy9YUmkF5UHR91rOub6q65xDAu4pcCVJ39MK2zdg9B 18-9-12 27-7-8 8-9-12 5-0-0 5-0-0 8-9-12 Scale = 1:57.0 4x6 = 5 8.00 12 2x4 = 2x4 = 2x4 || 15 4x8 < 16 φ | 17 11 18 12 10 3x6 =3x6 =5x8 = 2x4 || 2x4 || 18-9-12 8-9-12 10-0-0 Plate Offsets (X,Y)--[1:0-3-7,0-1-8], [5:0-3-0,Edge], [9:0-3-6,0-1-8] **PLATES** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.73 Vert(LL) -0.31 10-12 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.62 Vert(CT) -0.41 10-12 >799 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.41 Horz(CT) 0.04 c n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.25 >999 240 Weight: 170 lb Matrix-S 1-12

BRACING-

WEBS

TOP CHORD BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=0-3-8, 9=0-3-8 Max Horz 1=-223(LC 10)

Max Uplift 1=-58(LC 12), 9=-58(LC 13) Max Grav 1=1373(LC 19), 9=1373(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-2035/293, 3-4=-1430/363, 4-5=-37/309, 5-6=-37/310, 6-7=-1429/363,

7-9=-2034/293

1-12=-92/1578, 10-12=-92/1578, 9-10=-92/1578 BOT CHORD WEBS 7-10=0/713, 3-12=0/713, 4-6=-1851/461

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-9-12, Exterior(2) 13-9-12 to 18-2-9, Interior(1) 18-2-9 to 27-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 1, 9.



Structural wood sheathing directly applied or 4-5-2 oc purlins.

4-6

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

1 Row at midpt

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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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003251 J0124-0344 A4 Common Girder Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:52 2023 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-IA3vzAo_nik?gTBEWJdawXAI1_WFHN2onNeTPwzdg99 6-7-1 6-7-0 7-2-11 Scale = 1:57.8 5x8 || 3 8.00 12 8x8 // 8x8 ×

	1-2-12	0-7-1	
Plate Offsets (X,Y)	[1:0-4-3,0-2-0], [2:0-4-0,0-4-8], [4:0-4-0	,0-4-8], [5:0-4-3,0-2-0], [8:0-4-0,0-4-	12]

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	0.65	Vert(LL)	-0.18	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.31	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S	Wind(LL)	0.09	5-6	>999	240	Weight: 386 lb	FT = 20%

15

7

BRACING-

TOP CHORD

BOT CHORD

6x6 =

8

8x8

16

14

13-9-12

13

9

3x10 ||

¹⁸6

3x10 ||

19

21

4v8 =

20

Structural wood sheathing directly applied or 4-3-14 oc purlins.

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

17

20-4-12

LUMBER-

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8 Max Horz 1=-223(LC 23)

Max Uplift 1=-360(LC 8), 5=-368(LC 9) Max Grav 1=7614(LC 2), 5=7779(LC 2)

10

4x8 =

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-11164/539, 2-3=-7505/449, 3-4=-7505/449, 4-5=-11184/541 **BOT CHORD** 1-9=-464/9152, 8-9=-464/9152, 6-8=-361/9171, 5-6=-361/9171

WFBS 3-8=-381/7884, 4-8=-3746/323, 4-6=-95/4041, 2-8=-3722/321, 2-9=-94/4019

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. 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.
- * 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) 1=360, 5=368.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1037 lb down and 55 lb up at 2-0-12, 1037 lb down and 55 lb up at 4-0-12, 1037 lb down and 55 lb up at 6-0-12, 1037 lb down and 55 lb up at 8-0-12, 1037 lb down and 55 lb up at 10-0-12, 1037 lb down and 55 lb up at 12-0-12, 1037 lb down and 55 lb up at 14-0-12, 1037 lb down and 55 lb up at 16-0-12, 1037 lb down and 55 lb up at 17-10-12, 1037 lb down and 55 lb up at 19-10-12, 1037 lb down and 55 lb up at 21-10-12, and 1037 lb down and 55 lb up at 23-10-12, and 1037 lb down and 55 lb up at 25-10-12 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

ORTH SEAL 036322 March 6,2023

Continued on page 2

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Truss Type Job Truss Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003251 J0124-0344 Α4 Common Girder | **2** | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:52 2023 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-IA3vzAo_nik?gTBEWJdawXAI1_WFHN2onNeTPwzdg99

LOAD CASE(S) Standard

Uniform Loads (plf)

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

Concentrated Loads (lb)

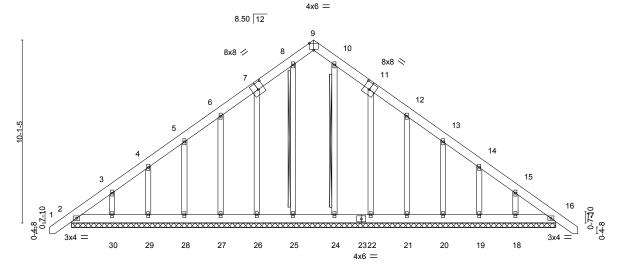
Vert: 8=-868(B) 10=-868(B) 11=-868(B) 12=-868(B) 13=-868(B) 14=-868(B) 15=-868(B) 16=-868(B) 17=-868(B) 18=-868(B) 19=-868(B) 20=-868(B) 21=-868(B) 18=-868(B) 18=-86



Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003252 J0124-0344 B1-GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:53 2023 Page 1 Comtech, Inc.

ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-nNdHAWpcX0ssldmQ419pSkjdwO37013x?1O0xNzdg98 27-11-8 1-2-8 26-9-0 13-4-8 13-4-8

Scale: 3/16"=1"



26-9-0

Plate Off	fsets (X,Y)	[7:0-4-0,0-4-8], [9:0-3-0,Ed	dge], [11:0-4-0	0,0-4-8]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	16	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	16	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 233 lb	FT = 20%

BRACING-LUMBER-

TOP CHORD 2x6 SP No.1 TOP CHORD **BOT CHORD BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.2 **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 - 8-25, 10-24

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 26-9-0.

Max Horz 2=-307(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 27, 28, 29, 21, 20, 19, 16 except 26=-111(LC 12),

30=-111(LC 12), 22=-115(LC 13), 18=-109(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 24, 22, 21, 20, 19, 18, 16

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

TOP CHORD 2-3=-335/215, 15-16=-281/201

BOT CHORD 2-30=-186/285, 29-30=-186/285, 28-29=-186/285, 27-28=-186/285, 26-27=-186/285, 25-26=-187/286, 24-25=-187/286, 22-24=-187/286, 21-22=-186/285, 20-21=-186/285,

19-20=-186/285, 18-19=-186/285, 16-18=-186/285

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 27, 28, 29, 21, 20, 19, 16 except (jt=lb) 26=111, 30=111, 22=115, 18=109.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required



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Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003253 J0124-0344 B2 COMMON 6 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:55 2023 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-jll2bCqt3d6aXxvpBSBHX9oqlBcXUtXETLt70Fzdg96 18-4-8 19-9-12 26-9-0 27-11-8 1-2-8 8-4-8 1-5-4 6-11-4 5-0-0 5-0-0 1-5-4 6-11-4 Scale = 1:60.1 4x6 = 8.50 12 6 2x4 =5x8 / 5x8 💸 2x4 = 8 4 2x4 17 2x4 || 16 9 18 15 10-0-0 13 14 12 3x10 3x10 = 4x6 = 2x4 || 2x4 || 26-9-0 8-4-8 10-0-0 8-4-8 Plate Offsets (X,Y)--[2:0-6-12,0-1-8], [6:0-3-0,Edge], [10:0-6-12,0-1-8] L/d **GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def **PLATES** 20.Ó -0.26 12-14 TCLL Plate Grip DOL 1.15 TC 0.52 Vert(LL) >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.61 Vert(CT) -0.36 12-14 >886 240 BCLL 0.0 Rep Stress Incr YES WB 0.41 Horz(CT) 0.03 10 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.23 2-14 >999 240 Weight: 175 lb Matrix-S

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=245(LC 11)

Max Uplift 2=-70(LC 12), 10=-70(LC 13) Max Grav 2=1404(LC 19), 10=1404(LC 20)

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

TOP CHORD 2-3=-1939/272, 3-4=-1321/341, 8-9=-1321/341, 9-10=-1939/272

BOT CHORD 2-14=-44/1474, 12-14=-44/1474, 10-12=-44/1474

WFBS 9-12=0/713, 3-14=0/713, 4-8=-1586/397

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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-4-8, Exterior(2) 13-4-8 to 17-9-5, Interior(1) 17-9-5 to 27-9-15 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, 10.



Structural wood sheathing directly applied or 5-1-2 oc purlins.

4-8

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

1 Row at midpt



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003254 J0124-0344 **B3** COMMON 8 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:56 2023 Page 1 Comtech, Inc. ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-ByJQpXrVqxER94U?l9iW4NL2pby9DCXOi?cgYizdg95

5-0-0

1-5-4

17-4-8

4-0-0

19-9-12

2-5-4

Scale = 1:58.9 4x6 =

22-7-0

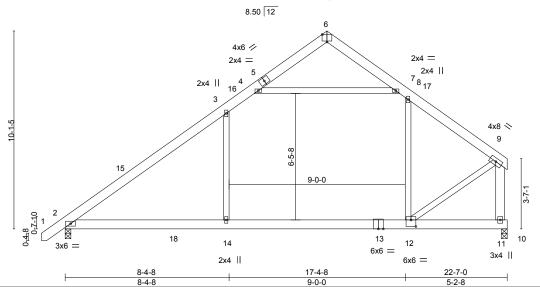
2-9-4

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

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

except end verticals.

6-0-0 oc bracing: 11-12.



LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.29 14 >900 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.52 Vert(CT) -0.46 2-14 >574 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.94 Horz(CT) 0.01 11 n/a n/a Code IRC2015/TPI2014 Wind(LL) Weight: 166 lb FT = 20% **BCDL** 10.0 2-14 >999 240 Matrix-S 0.21

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

Plate Offsets (X,Y)--

2x6 SP 2400F 2.0E TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E **WEBS** 2x4 SP No.2 *Except*

(size) 2=0-3-8, 11=0-3-8

Max Horz 2=237(LC 9)

Max Uplift 2=-61(LC 12), 11=-35(LC 12) Max Grav 2=1160(LC 19), 11=1086(LC 19)

[6:0-3-0,Edge], [12:0-3-0,0-4-0]

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

TOP CHORD 2-3=-1321/171, 3-4=-858/263, 7-8=-949/289, 8-9=-1131/222, 9-11=-1339/249

BOT CHORD 2-14=-115/970, 12-14=-115/970

9-11: 2x6 SP No.1

WEBS 3-14=0/484, 4-7=-1001/298, 9-12=-144/1304

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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-4-8, Exterior(2) 13-4-8 to 17-6-4, Interior(1) 17-6-4 to 22-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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, 11.

6-11-4





Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003255 J0124-0344 **B4** COMMON 5 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:57 2023 Page 1 Comtech, Inc. ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-f8to0ts7bFMInE3CJtDldatDZ?IOyfnXwfME48zdg94 17-4-8 19-9-12 22-7-0 6-11-4 1-5-4 5-0-0 4-0-0 2-5-4 2-9-4 Scale = 1:59.7 4x6 = 8.50 12 6 4x6 / ⁷8 ₁₇ 16 4x8 <> 0-0-9 9-0-0 0.4.8 0<u>.7-1</u>0 11 10 18 13 14 12 3x6 =

Plate Offsets (X,Y)	[6:0-3-0,Edge], [12:0-2-12,0-4-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.29 14 >900 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.46 2-14 >574 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT) 0.01 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.21 2-14 >999 240	Weight: 187 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

9-0-0

5x5 =

LUMBER-

REACTIONS.

2x6 SP 2400F 2.0E TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E **WEBS** 2x4 SP No.2 *Except*

(size) 2=0-3-8, 11=0-3-8

Max Horz 2=237(LC 9)

Max Uplift 2=-61(LC 12), 11=-35(LC 12) Max Grav 2=1160(LC 19), 11=1086(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1321/171, 3-4=-858/263, 7-8=-949/289, 8-9=-1131/222, 9-11=-1339/249

BOT CHORD 2-14=-115/970, 12-14=-115/970

9-11: 2x6 SP No.1

WEBS 3-14=0/484, 4-7=-1001/298, 9-12=-144/1304

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) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 13-4-8, Exterior(2) 13-4-8 to 17-6-4, Interior(1) 17-6-4 to 22-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

8-4-8

- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.



3x4 II

6x8 =

22-7-0

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

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

6x12 =

except end verticals.

6-0-0 oc bracing: 11-12.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Precision/Lot 69 Liberty Meadows/Harnett 157003256 J0124-0344 B5-GE **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:32:59 2023 Page 1

ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-bX_YRZtN7sd00YDaQHGDi?zeWo6jQlYqOzrL91zdg92 13-4-8 9-2-8

Scale = 1:62.7

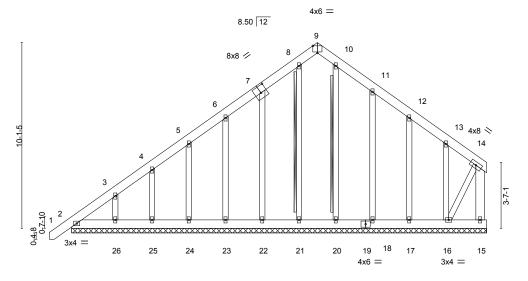


Plate Off	rsets (X,Y)	[7:0-4-0,0-4-8], [9:0-3-0,Eage]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 1 n/r 120	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 1 n/r 120	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 15 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 216 lb FT = 20%

LUMBER-BRACING-

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

14-16: 2x4 SP No.2

OTHERS 2x4 SP No.2 **BOT CHORD WEBS**

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. 2x4 SPF No.2 - 8-21, 10-20 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.

REACTIONS. All bearings 22-7-0.

(lb) -Max Horz 2=308(LC 12)

> Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 21, 23, 24, 25, 17 except 22=-106(LC 12), 26=-116(LC 12), 18=-109(LC 13), 16=-290(LC 13)

> Max Grav All reactions 250 lb or less at joint(s) 2, 15, 21, 22, 23, 24, 25, 26, 20,

18, 17, 16

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

TOP CHORD 2-3=-343/221

- 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 DOI = 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, 15, 21, 23, 24, 25. 17 except (it=lb) 22=106, 26=116, 18=109, 16=290.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



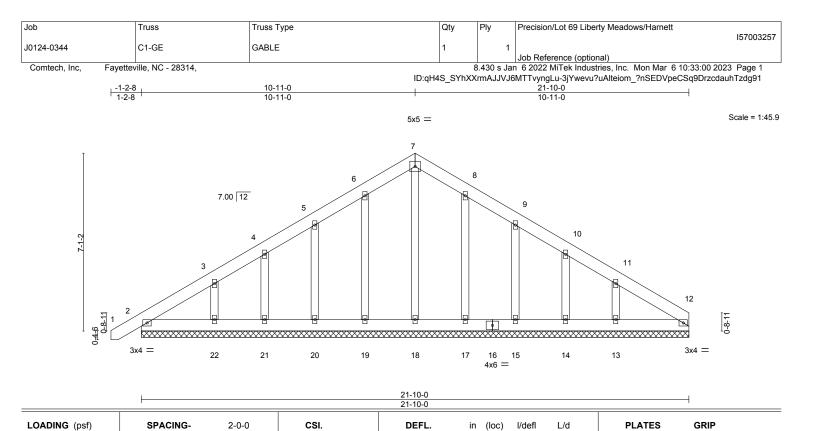
March 6,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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-0.00

0.00

0.00

12

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

120

120

n/a

n/r

n/r

n/a

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1

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

20.0

10.0

0.0

10.0

REACTIONS. All bearings 21-10-0. Max Horz 2=206(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 17, 15, 14 except 22=-119(LC 12), 13=-127(LC 13) Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18, 19, 20, 21, 22, 17, 15, 14 except 13=262(LC 20)

TC

ВС

WB

Matrix-S

0.03

0.02

0.08

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.

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

1.15

1.15

YES

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, 19, 20, 21, 17, 15, 14 except (jt=lb) 22=119, 13=127.



244/190

FT = 20%

MT20

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

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

Weight: 162 lb



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003258 J0124-0344 C2 COMMON 3 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:01 2023 Page 1 ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-Yv6JsFvefTtkGsNzYiIhnQ2sUciXub67rHKRDvzdg90 21-10-0 5-8-4 5-8-4 14-11-0

4-0-0

4-0-0

1-2-12

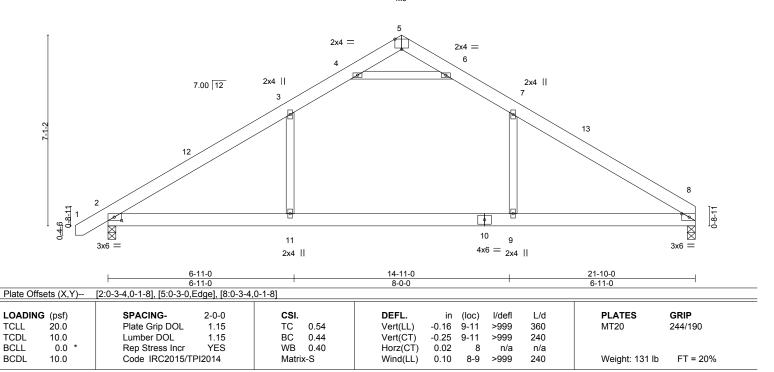
Scale = 1:42.8 4x6 =

Structural wood sheathing directly applied or 5-8-1 oc purlins.

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

5-8-4

1-2-12



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 8=0-3-8, 2=0-3-8 Max Horz 2=164(LC 11)

Max Uplift 8=-48(LC 13), 2=-65(LC 12) Max Grav 8=991(LC 20), 2=1062(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1496/226, 3-4=-1096/286, 4-5=-99/546, 5-6=-88/548, 6-7=-1096/295,

7-8=-1488/229

2-11=-85/1171, 9-11=-85/1171, 8-9=-85/1171 BOT CHORD WEBS 7-9=0/455, 3-11=0/465, 4-6=-1740/441

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) -1-0-13 to 3-4-0, Interior(1) 3-4-0 to 10-11-0, Exterior(2) 10-11-0 to 15-0-12, Interior(1) 15-0-12 to 21-8-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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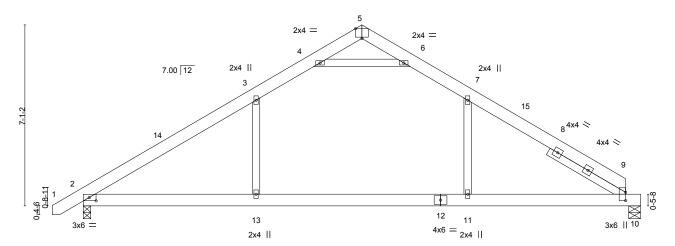
Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003259 J0124-0344 C3 COMMON Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:02 2023 Page 1 Comtech, Inc.

ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-05gh3bwGQn?bt?y95QpwKeb2k00ld1cG4w4?lLzdg9? 14-11-0 16-1-12 21-10-0 5-8-4 5-8-4 1-2-12 4-0-0 4-0-0 1-2-12 5-8-4

> 4x6 = Scale = 1:45.1

> > Structural wood sheathing directly applied or 5-11-9 oc purlins.

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



14-11-0 21-10-0 6-11-0 Plate Offsets (X Y)-- [2:0-3-4 0-1-8] [5:0-3-0 Edge] [9:0-3-14 0-0-0]

BRACING-

TOP CHORD

BOT CHORD

I late Oil	3Ct3 (A, 1)	[2.0 0 4,0 1 0], [0.0 0 0,Euge], [0.0	7 14,0 0 0]		
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 0.50	Vert(LL) -0.15 11-13 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.23 11-13 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.02 10 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 2-13 >999 240	Weight: 135 lb FT = 20%

LUMBER-

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

SLIDER Right 2x4 SP No.2 3-5-8

REACTIONS. (size) 2=0-3-8, 10=0-5-8 Max Horz 2=164(LC 11)

Max Uplift 2=-65(LC 12), 10=-40(LC 13) Max Grav 2=1058(LC 19), 10=966(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1478/222, 3-4=-1089/286, 4-5=-84/493, 5-6=-77/502, 6-7=-1079/292,

7-9=-1480/239

BOT CHORD 2-13=-82/1157, 11-13=-82/1157, 9-11=-82/1157 **WEBS** 7-11=0/492, 3-13=0/449, 4-6=-1664/425

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) -1-0-13 to 3-4-0, Interior(1) 3-4-0 to 10-11-0, Exterior(2) 10-11-0 to 15-0-12, Interior(1) 15-0-12 to 21-3-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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, 10.

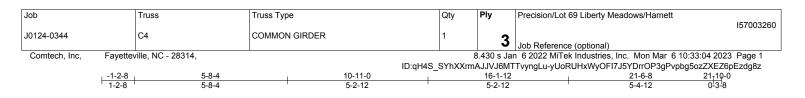


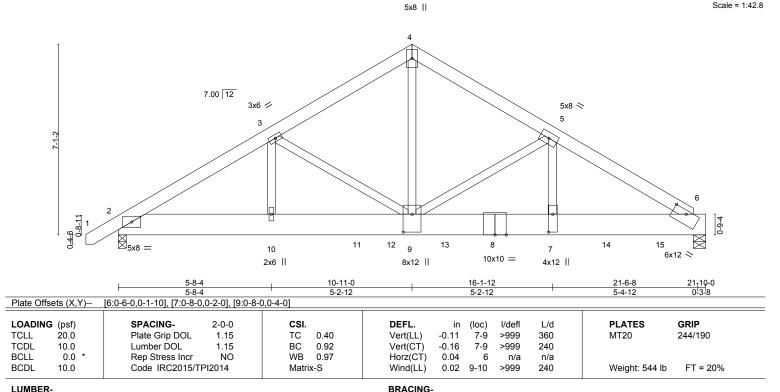
March 6,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)







TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD

BOT CHORD 2x10 SP No.1 *Except*

6-8: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2

REACTIONS. (size) 6=0-5-8, 2=0-3-8

Max Horz 2=163(LC 5)

Max Uplift 6=-239(LC 9), 2=-344(LC 8) Max Grav 6=10527(LC 14), 2=5311(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-9607/634, 3-4=-9467/507, 4-5=-9459/508, 5-6=-15071/410 **BOT CHORD** 2-10=-547/8111 9-10=-547/8111 7-9=-283/12777 6-7=-283/12777 **WEBS** 4-9=-418/9283, 5-9=-5469/326, 5-7=-174/6131, 3-9=-947/266, 3-10=-116/791

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-5-0 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 (it=lb) 6=239, 2=344.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2119 lb down and 477 lb up at 8-10-8, 2277 lb down at 10-1-12, 2320 lb down at 12-1-12, 2320 lb down at 14-1-12, 2320 lb down at 16-1-12, and 2320 lb down at 18-1-12, and 2320 lb down at 20-1-12 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



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

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

Continued on page 2

M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

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Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003260 COMMON GIRDER J0124-0344 C4

Comtech, Inc, Fayetteville, NC - 28314,

3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:04 2023 Page 2 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-yUoRUHxWyOFI7J5YDrrOP3gPvpbg5ozZXEZ6pEzdg8z

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-598(F) 7=-598(F) 11=-2119(F) 12=-606(F) 13=-598(F) 14=-598(F) 15=-598(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Precision/Lot 69 Liberty Meadows/Harnett 157003261 J0124-0344 D1-GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:05 2023 Page 1 $ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-QgMpicy8jiN9kTgknYMdxGDbND7fqTFimulfLgzdg8y$ 14-2-8

6-6-0

Scale = 1:29.9 4x4 =

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

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

1-2-8

6-6-0

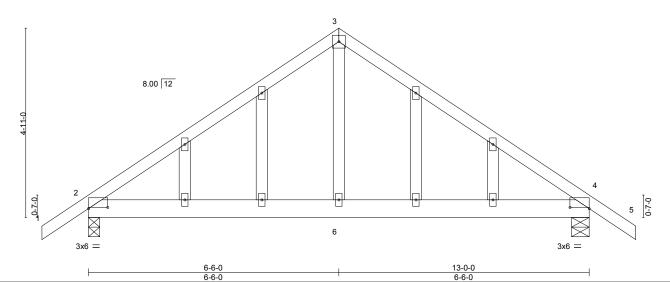


Plate Offsets (X,Y)--[2:0-6-0,0-0-6], [4:0-6-0,0-0-6] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP 20.Ó TCLL Plate Grip DOL 1.15 TC 0.35 Vert(LL) -0.01 2-6 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.17 Vert(CT) -0.03 2-6 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 4 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.02 2-6 >999 240 Weight: 78 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=0-3-8, 4=0-5-8

Max Horz 2=-154(LC 10)

Max Uplift 2=-136(LC 12), 4=-138(LC 13) Max Grav 2=586(LC 1), 4=592(LC 1)

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

2-3=-605/168, 3-4=-606/168 TOP CHORD **BOT CHORD** 2-6=-20/416, 4-6=-20/416

WEBS 3-6=0/323

- 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 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=136, 4=138.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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building design. Bracing indicated is to prevent bucking 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003262 J0124-0344 D2 COMMON 3 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:06 2023 Page 1 ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-utvCvyzmU0V0MdFwKGusUUlm7dTuZwVs?Y2Ct7zdg8x 14-2-8 6-6-0 6-6-0 1-2-8 Scale = 1:29.9 4x4 = 8.00 12 10 6 2x4 || 3x6 = 3x6 Plate Offsets (X,Y)--[2:0-6-0,0-0-6], [4:0-6-0,0-0-6]

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	0.35	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.01	2-6	>999	240	Weight: 65 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 4=0-5-8

Max Horz 2=-123(LC 10)

Max Uplift 2=-46(LC 12), 4=-46(LC 13) Max Grav 2=586(LC 1), 4=592(LC 1)

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

2-3=-605/154, 3-4=-606/154 TOP CHORD **BOT CHORD** 2-6=0/406, 4-6=0/406

WFBS 3-6=0/323

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 6-6-0, Exterior(2) 6-6-0 to 10-10-13, Interior(1) 10-10-13 to 14-2-8 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.
- 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) 2, 4.



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

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Precision/Lot 69 Liberty Meadows/Harnett
					157003263
J0124-0344	M1-GE	GABLE	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:07 2023 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-M3Ta6I_OEJdt_nq7uzP51hI0S1rWIOB?DCnmQZzdg8w

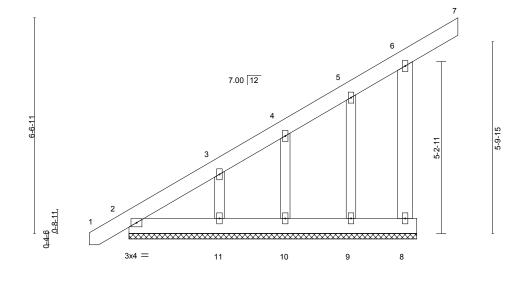
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

10-0-0 8-9-0 1-3-0

Scale = 1:35.0



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 74 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

(lb) -

2x4 SP No.2 All bearings 8-9-0.

Max Horz 2=293(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 9, 10 except 8=-130(LC 12), 11=-121(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11

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

TOP CHORD 2-3=-333/250

NOTES-

OTHERS

REACTIONS.

- 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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) 9, 10 except (jt=lb) 8=130, 11=121.





Job Truss Truss Type Qty Precision/Lot 69 Liberty Meadows/Harnett 157003264 J0124-0344 M2 JACK-CLOSED 5 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:08 2023 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-qF1yKe_1?dlkbwPJSgwKZvr7XR9L1r69SsXJy?zdg8v

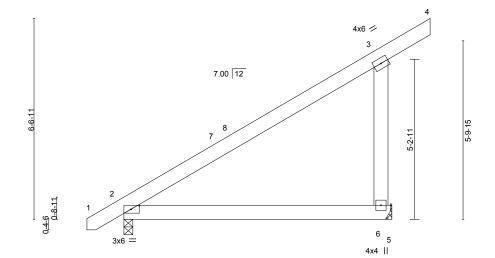
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

10-0-0 8-9-0 1-3-0

Scale = 1:37.6



_Plate Off	Plate Offsets (X,Y) [2:0-3-4,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.03	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.06	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-P	Wind(LL)	0.02	2-6	>999	240	Weight: 62 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1

REACTIONS. (size) 6=Mechanical, 2=0-3-8 Max Horz 2=201(LC 12)

Max Uplift 6=-122(LC 12) Max Grav 6=456(LC 19), 2=399(LC 1)

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

TOP CHORD 3-6=-363/312

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) -1-0-13 to 3-4-0, Interior(1) 3-4-0 to 10-0-0 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.
- * 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=122.



March 6,2023



Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003265 Flat J0124-0344 М3 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:10 2023 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-ne9ilK0HXE?SrEZhZ5yoeKwVXEmAVipRwA0Q1uzdg8t 5-9-8 5-9-8 5-9-8 Scale = 1:30.7 2x4 || 4x6 =

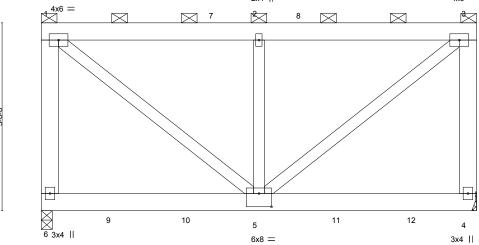


Plate Offsets (X V)__ [5:0_4_0 0_4_4]

T late on	Tate Offsets (A, 1)** [0.04-0,04-4]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.06	5-6	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S	Wind(LL)	0.03	5-6	>999	240	Weight: 198 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except* 1-6,3-4: 2x6 SP No.1

(size) 6=0-3-8, 4=Mechanical Max Uplift 6=-565(LC 8), 4=-457(LC 8) Max Grav 6=2282(LC 1), 4=2139(LC 1)

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

TOP CHORD 1-6=-1606/650, 1-2=-1629/554, 2-3=-1629/554, 3-4=-1431/545

WEBS 1-5=-679/1988, 2-5=-320/244, 3-5=-679/1988

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. 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.
- 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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 11-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=565, 4=457.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 175 lb down and 145 lb up at 0-2-12 on top chord, and 418 lb down and 142 lb up at 1-10-12, 418 lb down and 142 lb up at 3-10-12, 418 lb down and 142 lb up at 5-10-12, and 418 lb down and 142 lb up at 7-10-12, and 418 lb down and 142 lb up at 9-10-12 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

2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.

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

March 6,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003265 Flat J0124-0344 М3 2 | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:10 2023 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-ne9ilK0HXE?SrEZhZ5yoeKwVXEmAVipRwA0Q1uzdg8t

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 4-6=-134(F=-114)

Concentrated Loads (lb)

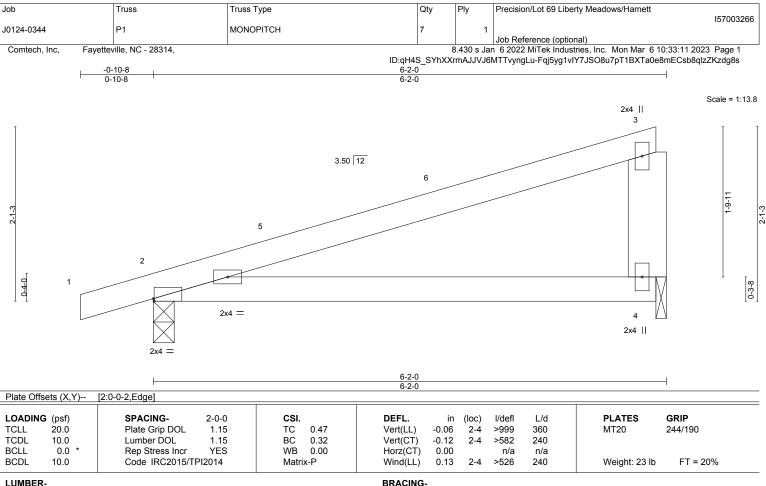
Vert: 1=-175 5=-418(B) 9=-418(B) 10=-418(B) 11=-418(B) 12=-418(B)

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818 Soundside Road Edenton, NC 27932



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=68(LC 8)

Max Uplift 2=-120(LC 8), 4=-95(LC 8) Max Grav 2=298(LC 1), 4=227(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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-11-4 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
- 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 = 120



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

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

except end verticals.



Job Truss Truss Type Qty Ply Precision/Lot 69 Liberty Meadows/Harnett 157003267 J0124-0344 VA1 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Mar 6 10:33:12 2023 Page 1 ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-j1HTA01X3sFA4Yj4hW Gjl?q?2Xezf7kNUVX5mzdg8r 7-3-8 7-3-8 7-3-8 Scale = 1:30.9 4x4 = 8.00 12 10 2x4 || 2x4 | 12 3x4 / 7 3x4 > 8 6 2x4 || 2x4 || 2x4 || Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES GRIP** LOADING (psf) CSI. **DEFL** in (loc) I/defl L/d 20.Ó TCLL 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 ВС 0.08 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.06 0.00 5 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 57 lb Matrix-S LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 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 14-5-14.

Max Horz 1=-109(LC 8) (lb) -

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=258(LC 1), 8=345(LC 19), 6=345(LC 20)

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

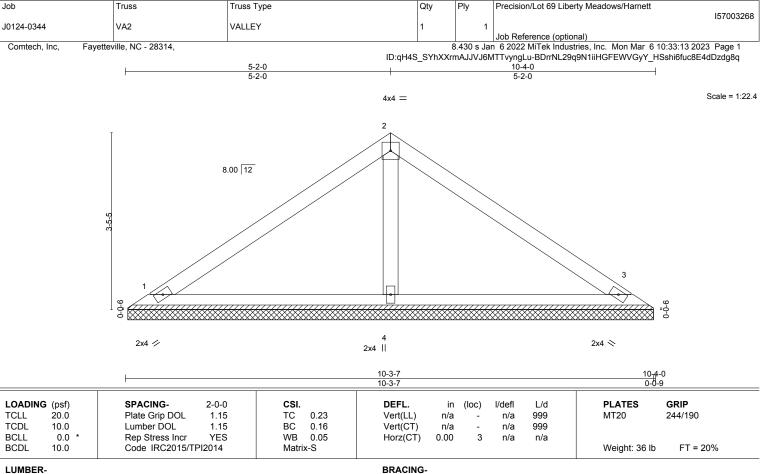
2-8=-294/201, 4-6=-294/201 WEBS

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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-3-8, Exterior(2) 7-3-8 to 11-8-5, Interior(1) 11-8-5 to 14-1-1 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, 8, 6.







TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. 1=10-2-14, 3=10-2-14, 4=10-2-14 (size) Max Horz 1=-75(LC 8)

Max Uplift 1=-23(LC 12), 3=-30(LC 13)

Max Grav 1=186(LC 1), 3=186(LC 1), 4=377(LC 1)

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

NOTES-

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



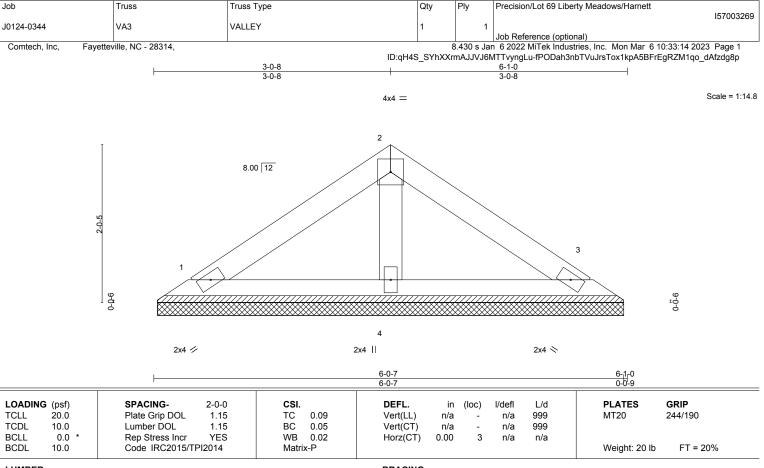
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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.

1=5-11-14, 3=5-11-14, 4=5-11-14 (size) Max Horz 1=-41(LC 10) Max Uplift 1=-17(LC 12), 3=-21(LC 13)

Max Grav 1=111(LC 1), 3=111(LC 1), 4=186(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.



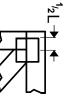
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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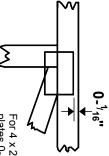


Symbols

PLATE LOCATION AND ORIENTATION



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



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 software or upon request

PLATE SIZE

4 × 4

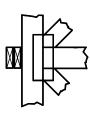
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



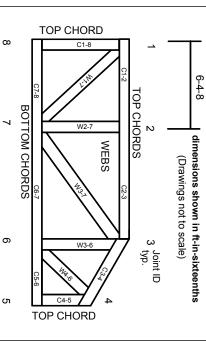
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Trusses Plate Connected Wood Truss Construction.

DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses

ယ

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5 Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- 19. 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



Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0124-0345

Precision/69 Liberty Meadows/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I63819705 thru I63819719

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



February 26,2024

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett	
J0124-0345	FT1	GABLE	1	1		163819705
00.12.1 00.10		0,1522			Job Reference (optional)	

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:48 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



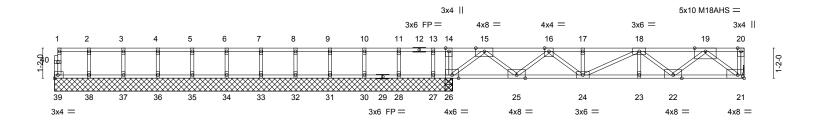
2-0-12

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

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

except end verticals.

Scale = 1:44.6



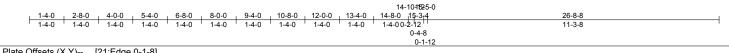


Plate Offsets (A, f)	[21.Euge,0-1-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.77	Vert(LL) -0.14 24 >945 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.59	Vert(CT) -0.20 23-24 >686 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.82	Horz(CT) 0.05 21 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 124 lb FT = 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**

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

12-20: 2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat) *Except*

BOT CHORD 21-29: 2x4 SP 2400F 2.0E(flat)

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

REACTIONS. All bearings 15-5-0 except (jt=length) 21=Mechanical.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 27=-335(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28 except

26=2437(LC 1), 26=2437(LC 1), 26=2437(LC 1), 21=2049(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 15-16=-3702/0, 16-17=-5519/0, 17-18=-5519/0, 18-19=-3827/0 **BOT CHORD** 25-26=0/2382, 24-25=0/5044, 23-24=0/5188, 22-23=0/5188, 21-22=0/2500 WEBS 14-26=-445/0, 15-26=-2985/0, 15-25=0/1719, 16-25=-1747/0, 16-24=0/606, 17-24=-499/0, 19-21=-3137/0, 19-22=0/1727, 18-22=-1738/0, 18-24=0/366

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 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 27.
- 8) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 9) 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.

10) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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

Vert: 21-39=-10, 1-14=-100, 14-20=-355



February 26,2024

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Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
10124 0245	ГТО	CARLE	1	1	163819706
J0124-0345	E12	GABLE	'	'	Job Reference (optional)

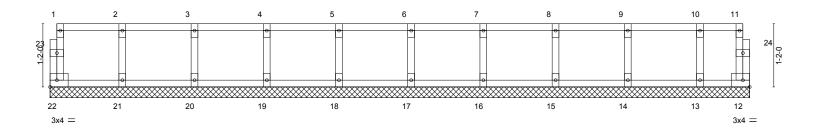
0118

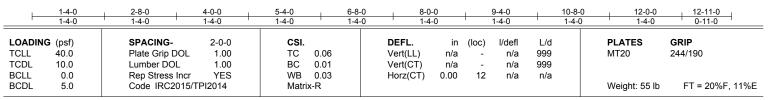
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:50 2024 Page 1

ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0₁1₇8

Scale = 1:21.3





LUMBER-BRACING-

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

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) 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 12-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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.



February 26,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 bucking 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
J0124-0345	ET2	GABLE	1	1	I63819707
30124-0345	[213	GABLE	'	'	Job Reference (optional)

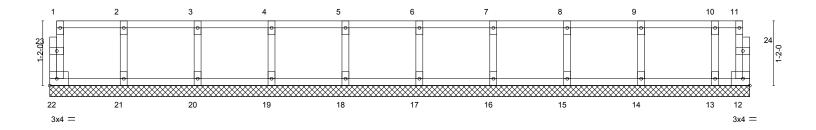
0₁1₇8

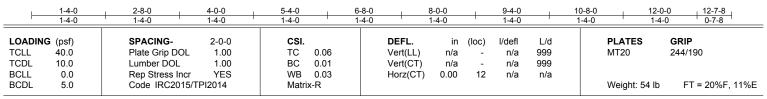
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:50 2024 Page 1

ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0₁1₇8

Scale = 1:20.8





LUMBER-BRACING-

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

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) 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 12-7-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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.



February 26,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

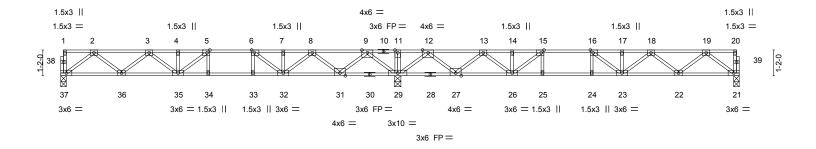
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

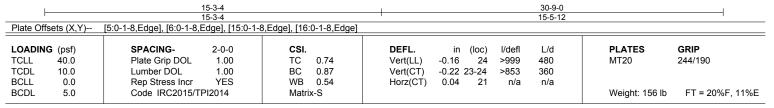


Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
J0124-0345	 	Floor		1	163819708
JU124-U345	F1	Floor	2	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:52 2024 Page 1 ID:qH4S SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) 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, Except: 6-0-0 oc bracing: 31-32,29-31,27-29,26-27.

REACTIONS. (size) 37=0-3-0, 29=0-3-8, 21=0-3-0

Max Grav 37=728(LC 3), 29=1989(LC 1), 21=739(LC 4)

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

TOP CHORD 2-3=-1450/0, 3-4=-2252/0, 4-5=-2252/0, 5-6=-2276/0, 6-7=-1763/236, 7-8=-1763/236,

8-9=-521/736, 9-11=0/2242, 11-12=0/2242, 12-13=-518/703, 13-14=-1787/207,

14-15=-1787/207, 15-16=-2337/0, 16-17=-2305/0, 17-18=-2305/0, 18-19=-1476/0 36-37=0/901, 35-36=0/1969, 34-35=0/2276, 33-34=0/2276, 32-33=0/2276,

BOT CHORD 31-32=-456/1270, 29-31=-1091/0, 27-29=-1110/0, 26-27=-424/1283, 25-26=0/2337,

24-25=0/2337, 23-24=0/2337, 22-23=0/2008, 21-22=0/915

2-37=-1128/0, 2-36=0/714, 3-36=-676/0, 3-35=0/362, 9-29=-1522/0, 9-31=0/1113,

8-31=-1065/0, 19-21=-1146/0, 19-22=0/730, 18-22=-693/0, 18-23=0/380, 12-29=-1537/0, 12-27=0/1128, 13-27=-1079/0, 8-32=0/707, 6-32=-977/0, 5-35=-140/390, 13-26=0/717,

15-26=-1020/0, 16-23=-156/376

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.



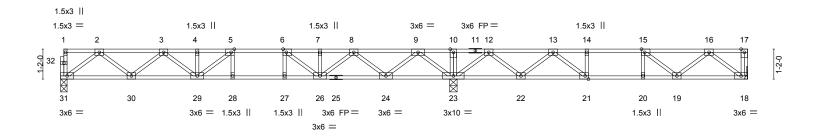
February 26,2024



Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
J0124-0345	F2	Floor	_	_	l63819709
30124-0345	F2	Floor	5	'	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:53 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





	15-3-4			1	26-8-8				
	15-3-4			11-5-4					
Plate Offsets (X,Y)	[5:0-1-8,Edge], [6:0-1-8,Edge], [15:0-1-	8,Edge], [21:0-1-8,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (l	oc) l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL)	-0.15	28 >999	480	MT20	244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT)	-0.20	28 >909	360			
BCLL 0.0	Rep Stress Incr NO	WB 0.50	Horz(CT)	0.03	18 n/a	n/a			
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 135 lb	FT = 20%F, 11%E	
							3	, , , , , , , , , , , , , , , , , , , ,	

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. (size) 31=0-3-0, 23=0-3-8, 18=Mechanical Max Grav 31=741(LC 3), 23=1724(LC 1), 18=2340(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 17-18=-1835/0, 2-3=-1483/0, 3-4=-2315/0, 4-5=-2315/0, 5-6=-2372/0, 6-7=-1892/0,

7-8=-1892/0, 8-9=-677/263, 9-10=0/1758, 10-12=0/1758, 12-13=-482/640, 13-14=-1242/104, 14-15=-1242/104, 15-16=-965/0

BOT CHORD 30-31=0/919, 29-30=0/2017, 28-29=0/2372, 27-28=0/2372, 26-27=0/2372,

24-26=-29/1412, 23-24=-586/0, 22-23=-886/0, 21-22=-389/968, 20-21=-104/1242,

19-20=-104/1242, 18-19=0/652

WEBS 2-31=-1150/0, 2-30=0/735, 3-30=-696/0, 3-29=0/380, 9-23=-1470/0, 9-24=0/1058,

8-24=-1014/0, 12-23=-1169/0, 12-22=0/754, 13-22=-766/0, 16-18=-818/0,

16-19=-46/407, 8-26=0/663, 6-26=-851/0, 5-29=-270/264, 15-19=-354/175, 13-21=0/672,

NOTES-

- 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) Refer to girder(s) for truss to truss connections.
- 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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

Vert: 18-31=-10, 1-17=-100

Concentrated Loads (lb) Vert: 17=-1800



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Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett	
		0.171.5			1638	19710
J0124-0345	F3	GABLE	1	1	Inh Deference (antique)	
					Job Reference (optional)	

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:55 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8 H|-1-3-0 1-10-12

Scale = 1:44.5

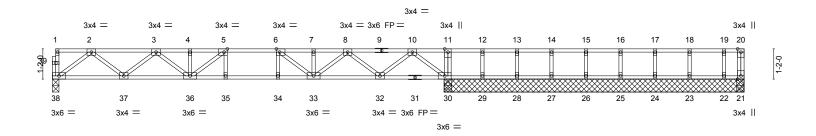




Plate Oil	sels (X,Y)	[5.0-1-8,Eage], [6.0-1-8,Eage]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL . in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.27	Vert(LL) -0.16 34-35 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.56	Vert(CT) -0.22 34-35 >842 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.04 21 n/a n/a	I
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 127 lb FT = 20%F, 11%E
					L

LUMBER-**BRACING-**

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

REACTIONS. All bearings 11-7-0 except (jt=length) 38=0-3-0, 30=0-3-8, 30=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 29

Max Grav All reactions 250 lb or less at joint(s) 21, 21, 29, 28, 27, 26, 25, 24, 23, 22 except 38=821(LC 3), 30=992(LC 1), 30=992(LC 1)

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

TOP CHORD 2-3=-1684/0, 3-4=-2691/0, 4-5=-2691/0, 5-6=-2945/0, 6-7=-2663/0, 7-8=-2663/0, 8-10=-1613/0

BOT CHORD 37-38=0/1023, 36-37=0/2310, 35-36=0/2945, 34-35=0/2945, 33-34=0/2945, 32-33=0/2266, 30-32=0/954

2-38=-1281/0, 2-37=0/860, 3-37=-815/0, 3-36=0/487, 10-30=-1196/0, 10-32=0/860, 8-32=-852/0, 8-33=0/507, 6-33=-355/0, 5-36=-318/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29.
- 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.



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Job Truss Truss Type Qty Precision/69 Liberty Meadows/Harnett 163819711 J0124-0345 F4 Floor 3 Job Reference (optional)

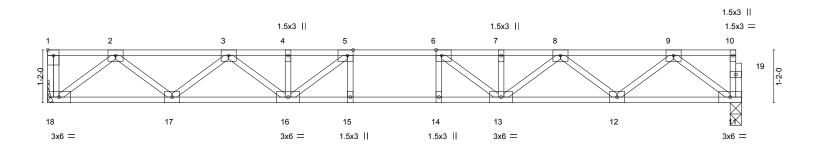
Comtech, Inc, Fayetteville, NC - 28314,

1-3-0

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:56 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-10-0 0₁1₇8

Scale = 1:25.5



15-4-0 Plate Offsets (X,Y)--[1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge] SPACING-LOADING (psf) CSI. DEFL. (loc) L/d **PLATES** GRIP -0.16 14-15 TCLL 40.0 Plate Grip DOL 1.00 TC 0.35 Vert(LL) >999 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.66 Vert(CT) -0.22 14-15 >839 360 BCLL 0.0 Rep Stress Incr YES WB 0.41 Horz(CT) 0.04 n/a n/a 11 Code IRC2015/TPI2014 Weight: 79 lb FT = 20%F, 11%E **BCDL** 5.0 Matrix-S

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) 18=Mechanical, 11=0-3-0 Max Grav 18=830(LC 1), 11=823(LC 1)

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

TOP CHORD 2-3=-1691/0, 3-4=-2704/0, 4-5=-2704/0, 5-6=-2966/0, 6-7=-2704/0, 7-8=-2704/0,

8-9=-1691/0

BOT CHORD 17-18=0/1028, 16-17=0/2320, 15-16=0/2966, 14-15=0/2966, 13-14=0/2966, 12-13=0/2320,

11-12=0/1027

WFBS 2-18=-1289/0, 2-17=0/864, 3-17=-818/0, 3-16=0/490, 5-16=-596/25, 9-11=-1285/0,

9-12=0/865, 8-12=-819/0, 8-13=0/490, 6-13=-596/25

NOTES-

- 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) Refer to girder(s) for truss to truss connections.
- 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.
- 6) CAUTION, Do not erect truss backwards.



February 26,2024



Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
10404 0045	 Fe		2		l63819712
J0124-0345	F5	Floor	3	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:57 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



—| <u>1-0-8</u> Scale = 1:25.1

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

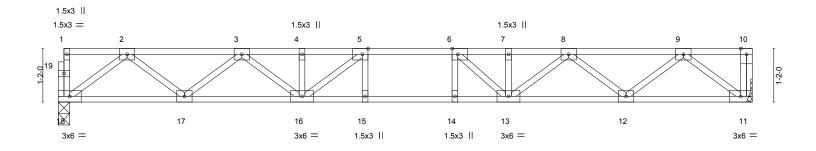


Plate Offsets (X,Y)--[5:0-1-8,Edge], [6:0-1-8,Edge] LOADING (psf) SPACING-CSI. DEFL. (loc) L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.36 Vert(LL) -0.15 15 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.66 Vert(CT) -0.21 14-15 >867 360 BCLL 0.0 Rep Stress Incr YES WB 0.40 0.04 Horz(CT) n/a 11 n/a Code IRC2015/TPI2014 Weight: 78 lb FT = 20%F. 11%E **BCDL** 5.0 Matrix-S

BOT CHORD

LUMBER-**BRACING-**

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

REACTIONS. (size) 18=0-3-0, 11=Mechanical Max Grav 18=812(LC 1), 11=818(LC 1)

2x4 SP No.3(flat)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1662/0, 3-4=-2649/0, 4-5=-2649/0, 5-6=-2884/0, 6-7=-2641/0, 7-8=-2641/0, 8-9=-1663/0

BOT CHORD $17-18=0/1012,\ 16-17=0/2278,\ 15-16=0/2884,\ 14-15=0/2884,\ 13-14=0/2884,\ 12-13=0/2278,$

11-12=0/1012

2-18=-1267/0, 2-17=0/846, 3-17=-802/0, 3-16=0/475, 5-16=-562/38, 9-11=-1270/0, 9-12=0/847, 8-12=-800/0, 8-13=0/464, 6-13=-587/29

NOTES-

WFBS

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) Refer to girder(s) for truss to truss connections.
- 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.
- 6) CAUTION, Do not erect truss backwards.



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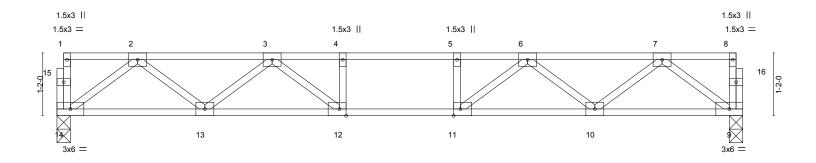


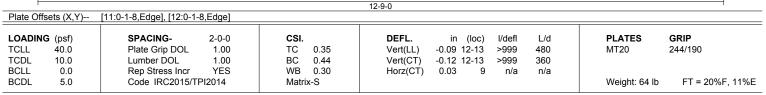
Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
	F0				I63819713
J0124-0345	F6	Floor	9	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:58 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







LUMBER-BRACING-

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

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

REACTIONS. (size) 14=0-3-0, 9=0-3-0

Max Grav 14=681(LC 1), 9=681(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1333/0, 3-4=-2022/0, 4-5=-2022/0, 5-6=-2022/0, 6-7=-1333/0 **BOT CHORD** 13-14=0/841, 12-13=0/1790, 11-12=0/2022, 10-11=0/1790, 9-10=0/841 2-14=-1053/0, 2-13=0/640, 3-13=-595/0, 3-12=0/499, 7-9=-1053/0, 7-10=0/640, WEBS

6-10=-595/0, 6-11=0/499

NOTES-

- 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.



February 26,2024

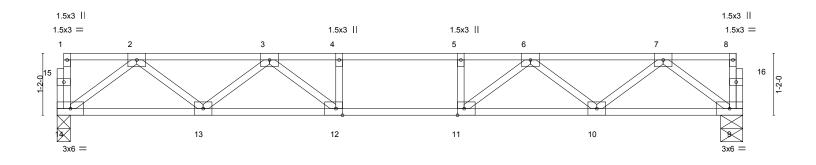


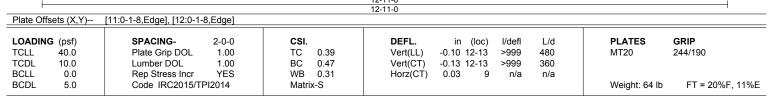
Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
					I63819714
J0124-0345	F6A	Floor	3	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:59 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







LUMBER-BRACING-

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

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

REACTIONS. (size) 14=0-3-0, 9=0-5-0 Max Grav 14=690(LC 1), 9=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1356/0, 3-4=-2072/0, 4-5=-2072/0, 5-6=-2072/0, 6-7=-1356/0 BOT CHORD 13-14=0/854, 12-13=0/1823, 11-12=0/2072, 10-11=0/1823, 9-10=0/854 2-14=-1069/0, 2-13=0/654, 3-13=-609/0, 3-12=0/526, 4-12=-251/0, 5-11=-251/0, WEBS

7-9=-1069/0, 7-10=0/654, 6-10=-609/0, 6-11=0/526

NOTES-

- 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.



February 26,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

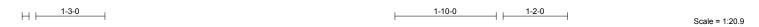


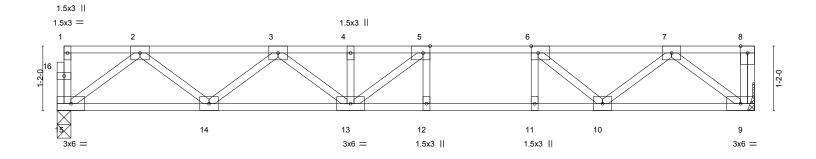
Job	Truss	Truss Type	Qty	Ply	Precision/69 Liberty Meadows/Harnett
					I63819715
J0124-0345	F7	FLOOR	8	1	
					Job Reference (optional)

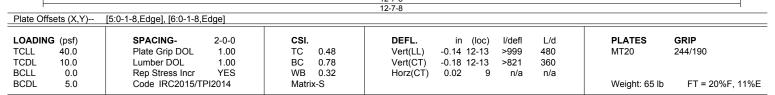
Fayetteville, NC - 28314, Comtech, Inc.

0-1-8

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:30:59 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) 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) 15=0-3-0, 9=Mechanical Max Grav 15=674(LC 1), 9=681(LC 1)

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

2-3=-1313/0, 3-4=-1995/0, 4-5=-1995/0, 5-6=-1895/0, 6-7=-1327/0 BOT CHORD

14-15=0/831, 13-14=0/1770, 12-13=0/1895, 11-12=0/1895, 10-11=0/1895, 9-10=0/807 2-15=-1040/0, 2-14=0/628, 3-14=-594/0, 3-13=0/288, 5-13=-224/289, 7-9=-1012/0, WEBS

7-10=0/677, 6-10=-745/0

NOTES-

- 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) Refer to girder(s) for truss to truss connections.
- 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.
- 6) CAUTION, Do not erect truss backwards.





ob	Truss	Truss T	уре	(Qty	Ply	Precis	ion/69 Liberty I	Meadows/Harnett	102040	740
0124-0345	F8	Floor		1		1				I63819	/16
O	Taxabarilla NO 20244					0.400 -		ference (option	ial) tries, Inc. Fri Feb 23 0	0.24.00 2024 D 4	
Comtech, Inc, F	ayetteville, NC - 28314,			ID:aH4S S					tries, inc. Fri Feb 23 U Hq3NSgPqnL8w3ulTXt		
	0-9-0	3x4 =		2-0-0			, ,		10 1	0-1-8	
	1 3x4	2					3	3x4 =	4 1.5x3		
										Scale =	1:8.5
Ī		•					f			Ţ	
		/ •						•	•		
							-			_	
										9	
		/							\	-	
1-2-0									, \ +	3x4 = 9	
Ť									\\\	<u> </u>	
	3x6 =	1.5x3					1	.5x3			
	8	7					6		5		
									X		
									3x6 =		
				4-3-0							
				4-3-0							
Plate Offsets (X,Y)	[1:Edge,0-1-8], [2:0-1-8,Edg	e], [3:0-1-8,E	Edge], [9:0-1-8,0-1-8]								
LOADING (psf)	SPACING- 2	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 40.0		1.00	TC 0.13	Vert(LL)	-0.00		>999	480	MT20	244/190	
TCDL 10.0 BCLL 0.0		1.00 YES	BC 0.06 WB 0.06	Vert(CT) Horz(CT)	-0.00 0.00		>999 n/a	360 n/a			
BCDL 5.0	Code IRC2015/TPI2		Matrix-S	(,					Weight: 24 lb	FT = 20%F, 11	%E
LUMBER-	I			BRACING	 }_						_
				TOP CHO		Structu	ral wood	sheathing dir	ectly applied or 4-3-0	oc purlins,	
OT CHORD 2x4 SP No.1(flat)					except	end vert	nd verticals.				
VEBS 2x4 SP No.3(flat)				BOT CHO	KD	Rigid ceiling directly applied or 10-0-0 oc bracing.					

REACTIONS. (size) 8=Mechanical, 5=0-3-0 Max Grav 8=220(LC 1), 5=214(LC 1)

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

WEBS 2-8=-273/0, 3-5=-272/0

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) Refer to girder(s) for truss to truss connections.
- 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.





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Precision/69 Liberty Meadows/Harnett 163819717 J0124-0345 FG-1 **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Feb 23 08:31:01 2024 Page 1 ID:qH4S_SYhXXrmAJJVJ6MTTvyngLu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-11-0

5-6-0 1-3-0 2-0-0

Scale = 1:25.3

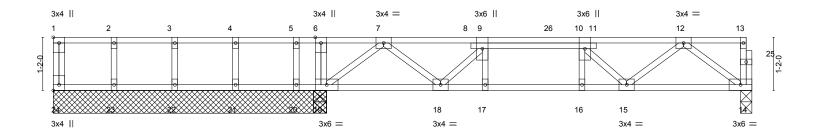




Plate Off	rsets (X,Y)	[1:Edge,0-1-8], [24:Edge,0-1-8]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	40.0	Plate Grip DOL 1.00	TC 0.27	Vert(LL) -0.03 16 >999 480 MT20 244/190	
TCDL	10.0	Lumber DOL 1.00	BC 0.36	Vert(CT) -0.05 16 >999 360	
BCLL	0.0	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.01 14 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 78 lb FT = 20%F, 11 th	%E

LUMBER-BRACING-

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

REACTIONS. All bearings 6-0-0 except (jt=length) 14=0-3-0.

Max Uplift All uplift 100 lb or less at joint(s) 20 (lb) -

Max Grav All reactions 250 lb or less at joint(s) 24, 23, 22, 21, 20 except 14=592(LC 4), 19=710(LC 1),

19=710(LC 1)

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

TOP CHORD 7-9=-1083/0, 9-10=-1453/0, 10-12=-1134/0 **BOT CHORD**

18-19=0/641, 17-18=0/1453, 16-17=0/1453, 15-16=0/1453, 14-15=0/705 **WEBS** 7-19=-805/0, 7-18=0/569, 12-14=-880/0, 12-15=0/559, 9-18=-530/0, 10-15=-451/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20.
- 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 246 lb down at 10-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 14-24=-10. 1-13=-100

Concentrated Loads (lb) Vert: 26=-166(F)

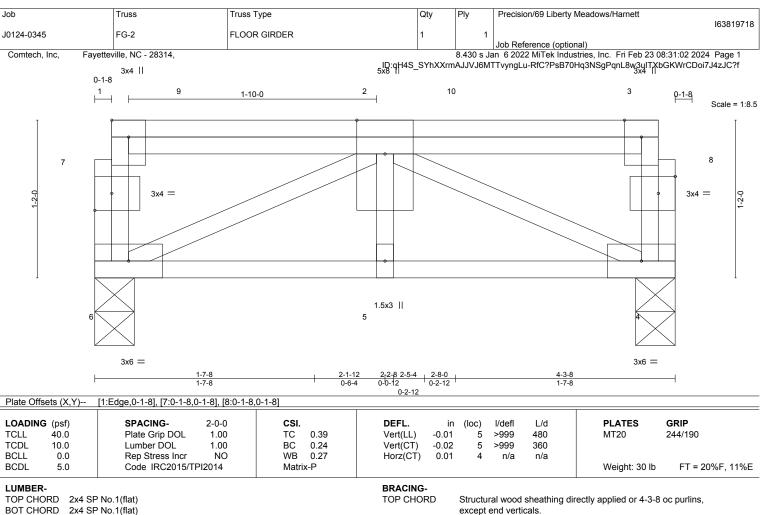


February 26,2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall a duss system. Before use, the culturing design 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BOT CHORD

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

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 6=0-3-8, 4=0-3-8 Max Grav 6=922(LC 1), 4=692(LC 1)

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

TOP CHORD 1-6=-429/0

BOT CHORD 5-6=0/1018, 4-5=0/1018 2-4=-1118/0, 2-6=-1103/0 WEBS

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) 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.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 601 lb down at 0-9-4, and 581 lb down at 2-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-10, 1-3=-100

Concentrated Loads (lb)

Vert: 9=-601(B) 10=-581(B)



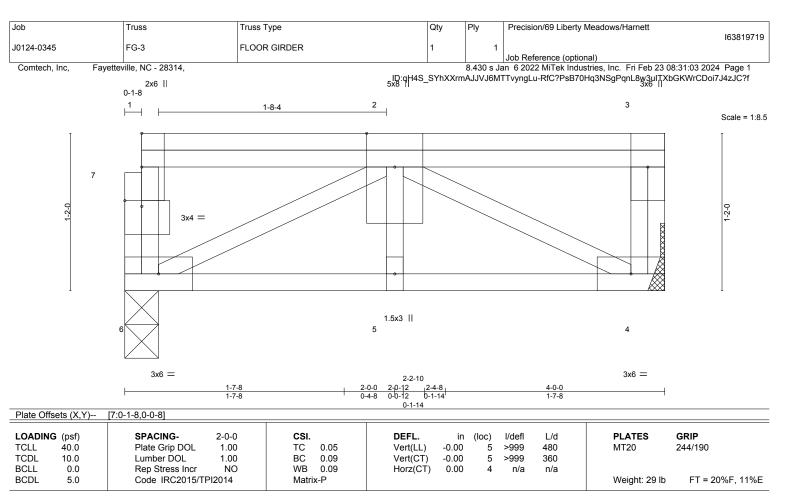
February 26,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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LUMBER-

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

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

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

REACTIONS. (size) 6=0-3-0, 4=Mechanical Max Grav 6=260(LC 1), 4=266(LC 1)

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

BOT CHORD 5-6=0/338, 4-5=0/338

WEBS 2-4=-381/0, 2-6=-376/0

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections
- 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) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down at 2-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-10, 1-3=-100

Concentrated Loads (lb) Vert: 2=-120(F)



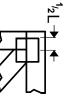
Structural wood sheathing directly applied or 4-0-0 oc purlins,

February 26,2024

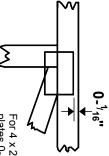


Symbols

PLATE LOCATION AND ORIENTATION



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



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 software or upon request

PLATE SIZE

4 × 4

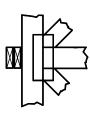
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



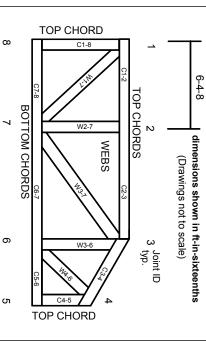
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Trusses Plate Connected Wood Truss Construction.

DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses

ယ

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5 Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- 19. 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



2/23/2024

Input by: Neal Baggett Job Name: 69 LIBERTY MEADOWS Page 1 of 6

Const

Ld. Comb.

D+0.75(L+S)

D+0.75(L+S)

0

0

Project #:

Kerto-S LVL BM₂

1.750" X 9.250"

2-Ply - PASSED

Level: Level

Reactions UNPATTERNED Ib (Uplift)

Vert

Vert

1-SPF 3.500"

2 - SPF 3.500"

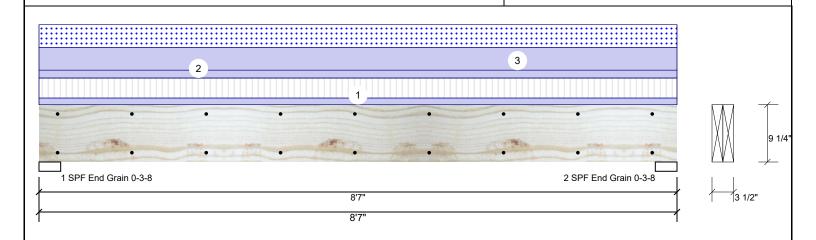
End Grain

End Grain 2477 / 2108

45% 2477 / 2108

4585 L

4585 L



Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind			
Plies:	2	Design Method:	ASD	1	Vertical	1318	2477	1494	0			
Moisture Condition	: Dry	Building Code:	IBC 2012	2	Vertical	1318	2477	1494	0			
Deflection LL:	480	Load Sharing:	No									
Deflection TL:	360	Deck:	Not Checked									
Importance:	Normal - II											
Temperature:	Temp <= 100°F											
	•			Bea	rings							
				Bea	aring Length	Dir.	Cap. React D/L I	b Total	Ld. Case			

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8817 ft-lb	4'3 1/2"	14423 ft-lb	0.611 (61%)	D+0.75(L+S)	L
Unbraced	8817 ft-lb	4'3 1/2"	14423 ft-lb	0.611 (61%)	D+0.75(L+S)	L
Shear	3456 lb	7'6 1/4"	7943 lb	0.435 (44%)	D+0.75(L+S)	L
LL Defl inch	0.119 (L/821)	4'3 9/16"	0.203 (L/480)	0.585 (58%)	0.75(L+S)	L
TL Defl inch	0.258 (L/377)	4'3 9/16"	0.271 (L/360)	0.954 (95%)	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.
- 5 Top loads must be supported equally by all plies.

Self Weight

6 Top must be	continuously laterally braced									
7 Bottom must	be laterally braced at bearing									
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	102 PLF	307 PLF	0 PLF	0 PLF	0 PLF	F3
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
3	Uniform			Тор	348 PLF	0 PLF	348 PLF	0 PLF	0 PLF	B2
	Self Weight				7 PLF					

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

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

 2 Damaged Beams must not be used

Handling & Installation

- Design assumes top edge is laterally restrained
 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 6/28/2026

Manufacturor Info

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

Client: Date: 2/23/2024 Page 2 of 6 Project: Input by: Neal Baggett isDesign Address: Job Name: 69 LIBERTY MEADOWS Project #: 1.750" X 9.250" 2-Ply - PASSED Level: Level **Kerto-S LVL** BM₂ 2 SPF End Grain 0-3-8 1 SPF End Grain 0-3-8 8'7' 8'7 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 PLF 163.7 PLF Yield Limit per Foot Yield Limit per Fastener 81.9 lb. См Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination **Duration Factor** 1.00

For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Manufacturer Info

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

Metsä Wood

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Handling & Installation

L. UV. 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

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

Notes



Date: 2/23/2024

Input by: Neal Baggett

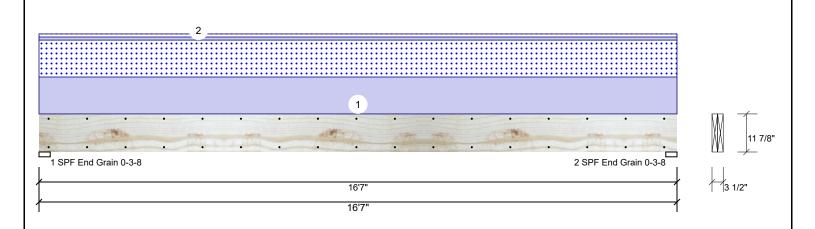
Job Name: 69 LIBERTY MEADOWS

Page 3 of 6

Project #:

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

Level: Level



Member Information									
Type:	Girder								
Plies:	2								
Moisture Condition:	Dry								
Deflection LL:	360								
Deflection TL:	240								
Importance:	Normal - II								
Temperature:	Temp <= 100°F								

Application: Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No Deck: Not Checked

Rea	ctions UNP	ATTERNED)			
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1154	1078	0	0
2	Vertical	0	1154	1078	0	0

Analysis Results Capacity Comb. Case Analysis Actual Location Allowed 8'3 1/2" 22897 ft-lb Moment 8751 ft-lb 0.382 (38%) D+S L Unbraced 8751 ft-lb 8'3 1/2" 8756 ft-lb 0.999 L (100%)1897 lb Shear 15'3 5/8" 10197 lb 0.186 (19%) D+S 8'3 9/16" 0.538 (L/360) 0.398 (40%) S LL Defl inch 0.214 (L/904) ı TL Defl inch 0.444 (L/436) 8'3 9/16" 0.806 (L/240) 0.550 (55%) D+S

Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 2232 L D+S Vert 1154 / 1078 End Grain 2 - SPF 3.500" 1154 / 1078 2232 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 a maximum of 10'10 3/8" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

		3 1 7									
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	120 PLF	0 PLF	120 PLF	0 PLF	0 PLF	C1-GE	
2	Tie-In	0-0-0 to 16-7-0	0-6-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	RAKE OH	
	Self Weight				9 PI F						

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- 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 6/28/2026

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

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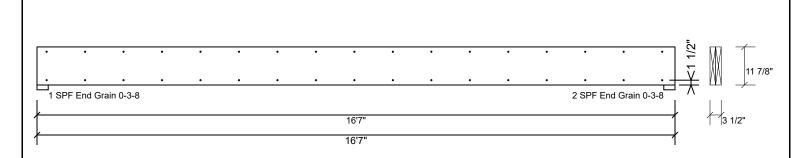
Client: Project: Address: 2/23/2024

Input by: Neal Baggett Job Name: 69 LIBERTY MEADOWS Page 4 of 6

Project #:

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

Level: Level



Multi-Ply Analysis

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

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

Notes

NOtes
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- 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 6/28/2026

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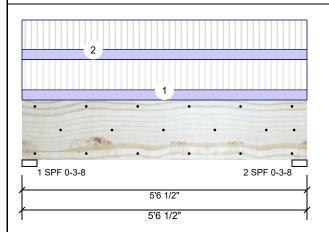
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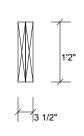
Input by: Neal Baggett Job Name: 69 LIBERTY MEADOWS

Project #:

Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED BM₁

Level: Level





Page 5 of 6

Member Information

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

Application: Floor Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No Deck: Not Checked Reactions UNPATTERNED Ib (Uplift) Direction Snow Wind Brg Live Dead Const 1721 604 Vertical n 0 0 1 2 Vertical 1721 604 0 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+L 1 - SPF 3.500" Vert 45% 604 / 1721 2324 L 2 - SPF 3.500" Vert 45% 604 / 1721 2324 L D+I

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2710 ft-lb	2'9 1/4"	26999 ft-lb	0.100 (10%)	D+L	L
Unbraced	2710 ft-lb	2'9 1/4"	18950 ft-lb	0.143 (14%)	D+L	L
Shear	2080 lb	1'5 1/2"	10453 lb	0.199 (20%)	D+L	L
LL Defl inch	0.011 (L/5785)	2'9 1/4"	0.127 (L/480)	0.083 (8%)	L	L
TL Defl inch	0.014 (L/4282)	2'9 1/4"	0.169 (L/360)	0.084 (8%)	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 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 must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width

/ Latera	i sicriacificss fallo basca off	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	105 PLF	315 PLF	0 PLF	0 PLF	0 PLF	F4
2	Uniform			Far Face	102 PLF	306 PLF	0 PLF	0 PLF	0 PLF	F5
	Self Weight				11 PLF					

NOtes
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- 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
- 6. For flat roofs provide proper drainage to prevent ponding

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- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- This design is valid until 6/28/2026



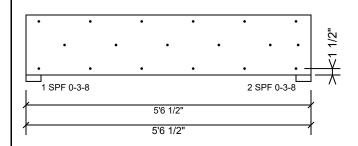
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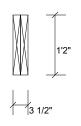
Input by: Neal Baggett Job Name: 69 LIBERTY MEADOWS

Project #:

Kerto-S LVL 1.750" X 14.000" 2-Ply - PASSED **BM1**

Level: Level





Page 6 of 6

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".

l asteri ali piles usirig 5 10	ws of 100 box flatis (.120x3) at
Capacity	85.5 %
Load	210.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1 00

Notes

NOtes
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- 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

6. For flat roofs provide proper drainage to prevent ponding

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