

# All Walls Shown Are Considered Load Bearing

Roof Area = 1692.08 sq.ft.
Ridge Line = 52.07 ft.
Hip Line = 0 ft.
Hip Line = $0 \text{ ft.}$ Horiz. OH = $115.69 \text{ ft.}$
Raked OH = 175.3 ft.
Decking = 58 sheets

Rake Deck	d OH = 175.3 ft.	;			Tray	y Ceiling
					Dro	p Beam
	Conne	ctor Info	rmati	ion	Nail Info	ormation
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	12	NA	16d/3-1/2"	16d/3-1/2"
3	THDH210-3	USP	1	Varies	16d/3-1/2"	16d/3-1/2"

Hatch Legend

Padded HVAC

2nd Floor Walls

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan
Scale: 1/4"=1'

соттесн **ROOF & FLOOR TRUSSES & BEAMS** 

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

earing reactions less than or equal to 3000# are seemed to comply with the prescriptive Code equirements. The contractor shall refer to the tached Tables ( derived from the prescriptive Code equirements ) to determine the minimum foundation ze and number of wood studs required to support seations greater than 3000# but not greater than 5000#. A registered design professional shall be stained to design the support system for any action that exceeds those specified in the attached ables. A registered design professional shall be stained to design the support system for all leactions that exceed 15000#.

David Landry

David Landry

LO.	AD (	CHAR	T FO	RJ	ACK :	STUD	5
	(B	ASED O	N TABLE:	5 R502	5(1) & (t	))	
NU	WBER C		STUDS R			A END OF	:
(UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER
700	1		2550	1		3400	1
400	2		5100	2		6800	2

END REACTIO (UP TO)	REQ'D STUDS (2) PLY HEAD	END REACTIO (UP TO)	REQ'D STUDS (3) PLY HEAD	END REACTIC (UP TO)	
1700	1	2550	1	3400	1
3400	2	5100	2	6800	)
5100	3	7650	3	10200	)
6800	4	10200	4	13600	)
8500	5	12750	5	17000	)
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

ADDRESS Lot 1 Thomas Place MODEL Roof  DATE REV. 05/18/22  DRAWN BY David Landry	ADDRESS AODEL DATE REV. DRAWN BY
David Landry	DRAWN BY
05/18/22	DATE REV.
Roof	MODEL
Lot 1 Thomas Place	ADDRESS
Harnett Co. / Harnett	CITY / CO.

Weaver Development Co. Inc. N/A JOB NAME SEAL DATE

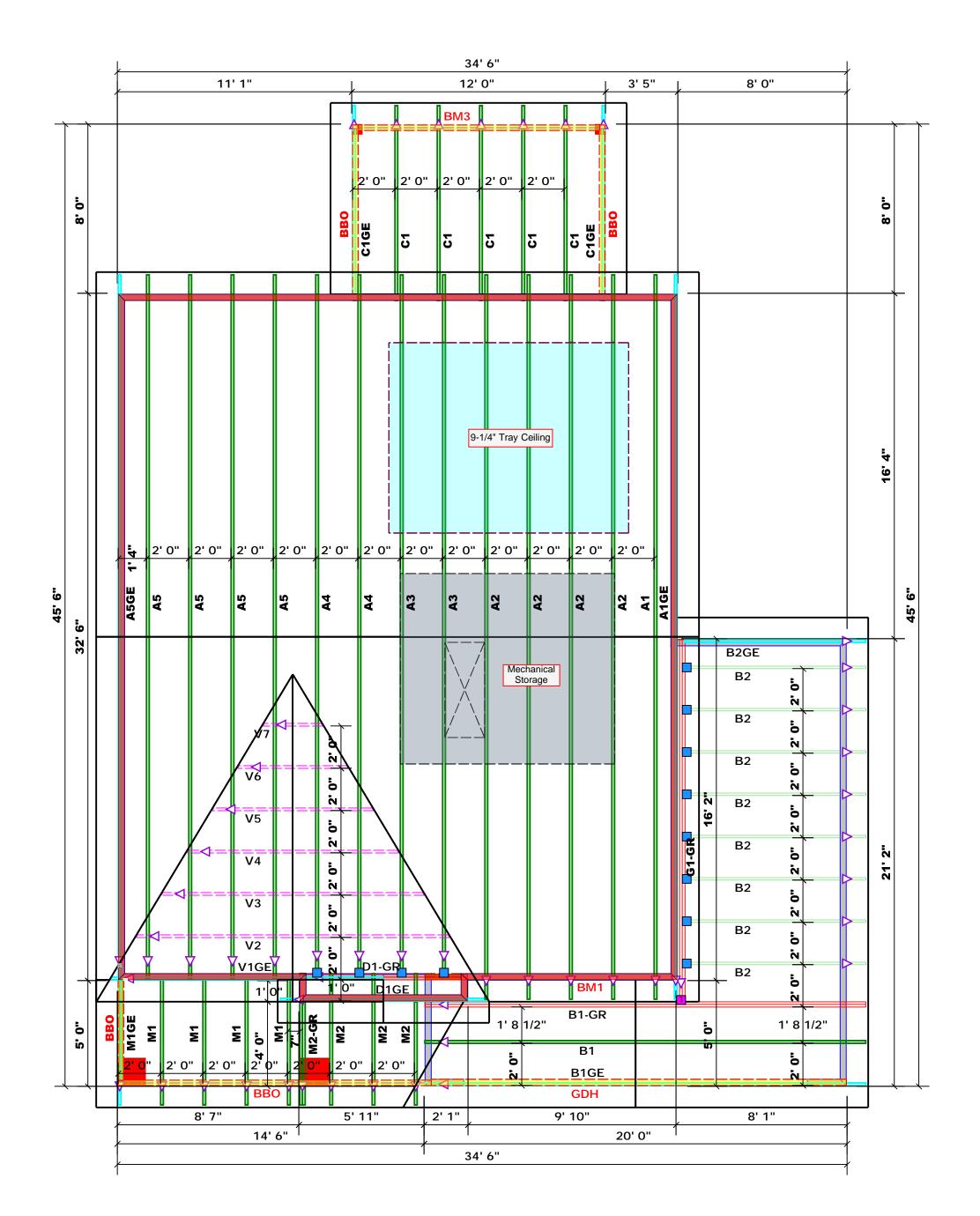
J0522-2606

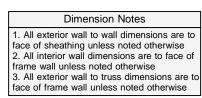
QUOTE #

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

PLAN

BUILDER





# All Walls Shown Are Considered Load Bearing

Hatch Legend Roof Area = 1692.08 sq.ft. Ridge Line = 52.07 ft. Hip Line = 0 ft. Padded HVAC 2nd Floor Walls Horiz. OH = 115.69 ft. Raked OH = 175.3 ft. Tray Ceiling Decking = 58 sheets Drop Beam

	Conne	ctor Info	rmati	on	Nail Info	ormation
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	12	NA	16d/3-1/2"	16d/3-1/2"
3	THDH210-3	USP	1	Varies	16d/3-1/2"	16d/3-1/2"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
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BM3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan

соттесн **ROOF & FLOOR TRUSSES & BEAMS** 

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

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

David Landry

David Landry

AD (	CHAR	RT FO	R J	ACK S	STUD	5
(B.	ASED O	N TABLE:	5 R502	5(1) & (b	))	
IMBER O		STUDS R HEADERA			A ENID OF	-
REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER

END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER	END REACTION (UP TO)
1700	1	2550	1	3400
3400	2	5100	2	6800
5100	3	7650	3	10200
6800	4	10200	4	13600
8500	5	12750	5	17000
10200	6	15300	6	
11900	7			
13600	8			
15300	9			

ADDRESS	ADDRESS Lot 1 Thomas Place
MODEL	Roof
DATE REV.	05/18/22
DRAWN BY	DRAWN BY David Landry
SALES REP.	SALES REP. Lenny Norris

BUILDER	Weaver Development Co. Inc.
JOB NAME	JOB NAME Lot 1 Thomas Place
PLAN	Hickory II "C" / 2GLF, CP
SEAL DATE N/A	N/A
QUOTE#	

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RE: J0522-2606

Lot 1 Thomas Place

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Wever Development Co. Inc. Project Name: J0522-2606 Lot/Block: 1 Model: Hickory II

Address: Subdivision: Thomas Place

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 Floor Load: N/A psf Roof Load: 40.0 psf

This package includes 28 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E16492049	A1	12/20/2021	21	E16492069	M2-GR	12/20/2021
2	E16492050	A1GE	12/20/2021	22	E16492070	V1GE	12/20/2021
3	E16492051	A2	12/20/2021	23	E16492071	V2	12/20/2021
4	E16492052	A3	12/20/2021	24	E16492072	V3	12/20/2021
5	E16492053	A4	12/20/2021	25	E16492073	V4	12/20/2021
6	E16492054	A5	12/20/2021	26	E16492074	V5	12/20/2021
7	E16492055	A5GE	12/20/2021	27	E16492075	V6	12/20/2021
8	E16492056	B1	12/20/2021	28	E16492076	V7	12/20/2021
9	E16492057	B1-GR	12/20/2021				
10	E16492058	B1GE	12/20/2021				
11	E16492059	B2	12/20/2021				
12	E16492060	B2GE	12/20/2021				
13	E16492061	C1	12/20/2021				

12/20/2021

12/20/2021

12/20/2021

12/20/2021

12/20/2021

12/20/2021

12/20/2021

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

C1GE

D1-GR

D1GE

M1

M2

G1-GR

M1GE

Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Strzyzewski, Marvin

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

North Carolina COA: C-0844

E16492062

E16492063

E16492064

E16492065

E16492066

E16492067

E16492068

14

15

16

17

18

19

20

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.

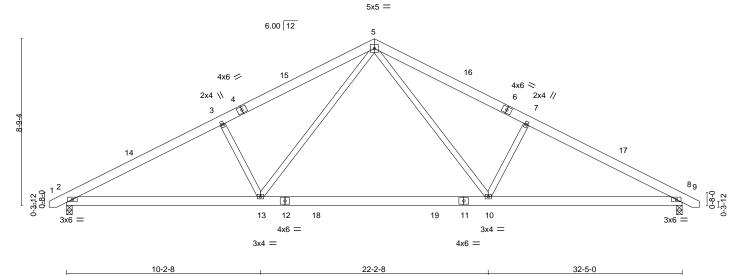


December 20, 2021

Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492049 J0522-2606 COMMON A1 Job Reference (optional)

Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:46 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-cOokM7e\_U9uBJpmwi?x?s48ibor5qAAQYoEz\_ y74yN 16-2-8 32-5-0 8-0-0 8-0-0 8-2-8

Scale = 1:60.7



		10-2-8	I	12-0-0	l	10-2-8
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.34 10-13	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.47 10-13	>824 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.05 8	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 2-13	>999 240	Weight: 208 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-110(LC 10)

Max Uplift 2=-89(LC 12), 8=-89(LC 13) Max Grav 2=1337(LC 1), 8=1337(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2307/486, 3-5=-2125/534, 5-7=-2125/534, 7-8=-2307/486 TOP CHORD

**BOT CHORD** 2-13=-316/2007. 10-13=-106/1303. 8-10=-320/1964

**WEBS** 5-10=-147/921, 7-10=-454/288, 5-13=-147/921, 3-13=-454/288

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 16-2-8, Exterior(2) 16-2-8 to 20-7-5, Interior(1) 20-7-5 to 33-1-10 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, 8.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Structural wood sheathing directly applied or 4-11-7 oc purlins.

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

December 20,2021



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

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

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

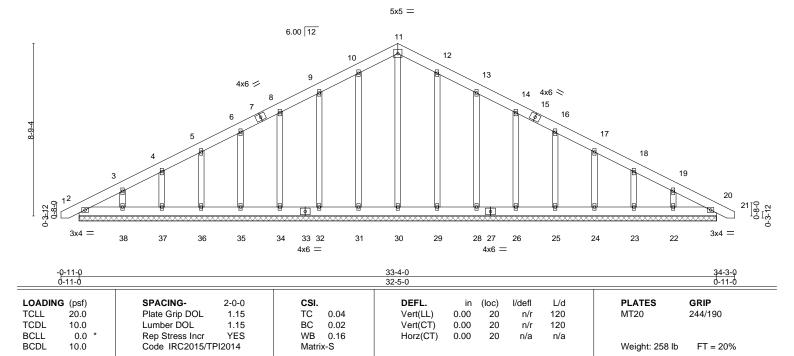


Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492050 J0522-2606 A1GE COMMON SUPPORTED GAB Job Reference (optional) Comtech, Inc.

Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:49 2021 Page 1

ID:1yUksKymplk2404ufZYCrxyoKUD-1zUs?9gsn4GmAGVUN8UiUjmGc00b1ZbsEmTdbJy74yK 17-1-8 33-4-0 16-2-8 16-2-8

Scale = 1:58.6



LUMBER-

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

-0-11-0 0-11-0

BRACING-

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

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

REACTIONS. All bearings 32-5-0.

Max Horz 2=-171(LC 17) (lb) -

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

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

TOP CHORD 10-11=-114/284, 11-12=-114/284

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 20,2021



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



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492051 J0522-2606 A2 ROOF SPECIAL 4 Job Reference (optional)

16-2-8

6-0-0

Fayetteville, NC - 28314, Comtech, Inc.

10-2-8 10-2-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:51 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-zMcdQri7IiWUPaftUYWAZ8sR3pYxVLf9h4ykfCy74yI 19-2-8 24-2-8 30-1-8 32-5-0 33-4-0 2-3-8 0-11-0 3-0-0 5-0-0

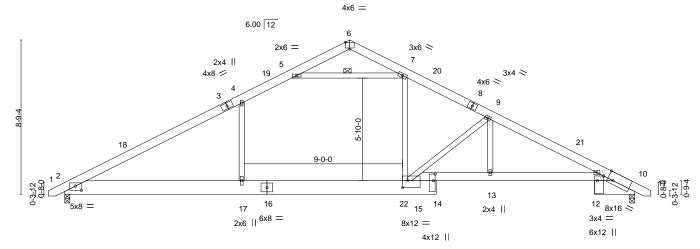
Structural wood sheathing directly applied or 4-0-8 oc purlins.

5-7

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

1 Row at midpt

Scale = 1:65.5



	10-2-8	10-2-0	19-2-0	21-1-0	24-2-0	30-1-0	1 32-3-0 I	
	10-2-8	6-0-0	3-0-0	1-11-0	3-1-0	5-11-0	2-3-8	
Offsets (X.Y)	[2:0-4-0.0-2-14], [6:0-3-0.Edge], [10:0-4-0.Edge]	dael. [12:0-3-4.Edael. [14:	0-4-8.0-1-4]. [	15:0-3-8.	0-4-121			

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 0.75	Vert(LL)	-0.21	17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.67	Vert(CT)	-0.38	17	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.17	2-17	>999	240	Weight: 247 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

Plate O

TOP CHORD 2x6 SP No 1

**BOT CHORD** 2x10 SP No.1 \*Except\*

10-15: 2x6 SP 2400F 2.0E

**WEBS** 2x4 SP No.2

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

Max Horz 2=110(LC 11)

Max Uplift 2=-90(LC 12), 10=-90(LC 13) Max Grav 2=1393(LC 2), 10=1353(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-2217/403, 4-5=-1870/483, 7-9=-2258/519, 9-10=-2889/551

 $2\text{-}17\text{=-}193/1848,\ 15\text{-}17\text{=-}195/1860,\ 13\text{-}15\text{=-}371/2525,\ 10\text{-}13\text{=-}380/2525}$ **BOT CHORD WEBS**  $4\text{-}17\text{=-}29/402, \, 7\text{-}15\text{=-}114/967, \, 9\text{-}15\text{=-}1075/232, \, 9\text{-}13\text{=-}0/616, \, 5\text{-}7\text{=-}1955/459}$ 

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 16-2-8, Exterior(2) 16-2-8 to 20-7-5, Interior(1) 20-7-5 to 33-1-10 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.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 20,2021



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Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492052 J0522-2606 ROOF SPECIAL 2 А3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

15-11-8

6-0-0

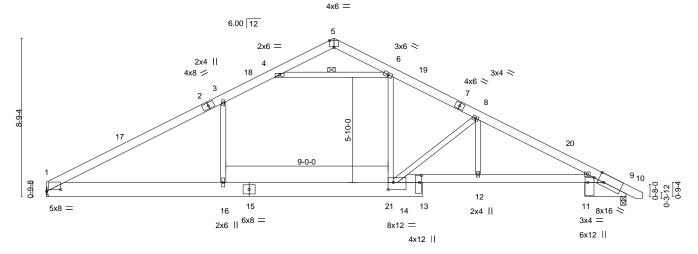
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:52 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-RY9?dAjl3?eL1kE32G2P6LOcfDuEEorJwkhHBey74yH 18-11-8 23-11-8 29-10-8 32-2-0 33-1-0 2-3-8 0-11-0 3-0-0 5-0-0 5-11-0

Structural wood sheathing directly applied or 3-10-0 oc purlins.

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

1 Row at midpt

Scale: 3/16"=1"



1	9-11-8	18-11-8 20-	-10-8	23-11-8	29-10-8	32-2-0
	9-11-8	9-0-0	-11-0	3-1-0	5-11-0	2-3-8
Plate Offsets (X,Y)	[1:0-9-6,0-1-2], [5:0-3-0,Edge], [9:0-4-0,I	Edge], [11:0-3-4,Edge], [13:0-4-12,0-1-4], [14	4:0-3-8	0-4-12]		

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0	).21 16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0	0.36 16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0	0.09 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0	).16 1-16	>999	240	Weight: 243 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x6 SP No 1

**BOT CHORD** 2x10 SP No.1 \*Except\*

9-14: 2x6 SP 2400F 2.0E

**WEBS** 2x4 SP No.2

REACTIONS. (size) 1=Mechanical, 9=0-3-8

Max Horz 1=-111(LC 8)

Max Uplift 1=-76(LC 12), 9=-90(LC 13) Max Grav 1=1345(LC 2), 9=1347(LC 2)

9-11-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-2189/401, 3-4=-1853/491, 6-8=-2237/517, 8-9=-2874/549 **BOT CHORD** 1-16=-198/1827, 14-16=-200/1839, 12-14=-375/2511, 9-12=-384/2511 **WEBS** 6-14=-117/966, 3-16=-53/392, 4-6=-1931/474, 8-14=-1081/228, 8-12=0/620

# 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) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 32-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.



December 20,2021



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

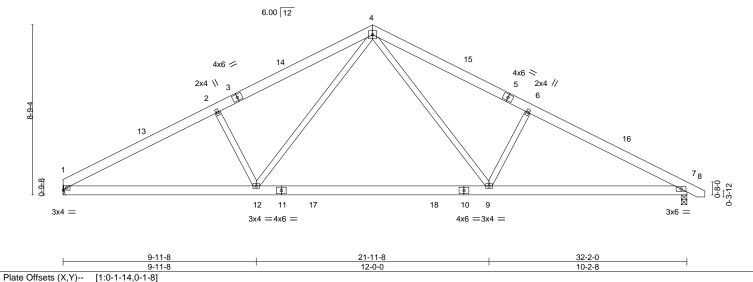


Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492053 J0522-2606 COMMON 2 A4 Job Reference (optional) Comtech, Inc.

Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:53 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-vkjNqWkNqJmCfupGczZefZxupdEkzLtS9ORrk4y74yG 7-11-8 7-11-8 15-11-8 23-11-8 32-2-0 8-0-0 8-0-0 8-2-8

5x5 =

Scale = 1:59.4



LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.34 9-12 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.64 Vert(CT) -0.47 9-12 >822 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.27 Horz(CT) 0.05 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.05 12 >999 240 Weight: 204 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

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

Max Horz 1=-111(LC 8)

Max Uplift 1=-76(LC 12), 7=-89(LC 13) Max Grav 1=1278(LC 1), 7=1331(LC 1)

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

TOP CHORD 1-2=-2276/496, 2-4=-2096/546, 4-6=-2113/532, 6-7=-2294/484

**BOT CHORD** 1-12=-319/1973. 9-12=-109/1291. 7-9=-324/1953

WFBS 4-9=-147/922, 6-9=-454/288, 4-12=-144/897, 2-12=-437/286

# 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) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 32-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.



Structural wood sheathing directly applied or 4-11-9 oc purlins.

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

December 20,2021



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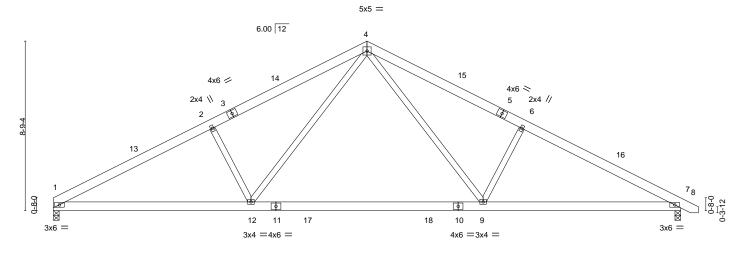
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492054 J0522-2606 COMMON A5 Job Reference (optional)

Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:54 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-NxHl2sk?bdu3G2OSAh4tBmU3V1ayio3cN2AOGXy74yF 8-2-8 8-2-8 16-2-8 . 24-2-8 32-5-0 8-0-0 8-0-0 8-2-8

Scale = 1:59.6



<u> </u>	10-2-8 10-2-8		22-2-8 12-0-0	1	32-5-0 10-2-8	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.29 BC 0.65 WB 0.27 Matrix-S	DEFL.         in (loc           Vert(LL)         -0.34         9-12           Vert(CT)         -0.47         9-12           Horz(CT)         0.05         12           Wind(LL)         0.05         12	, 2 >999 360 2 >822 240 7 n/a n/a	PLATES GRIP MT20 244/190  Weight: 206 lb FT = 20%	

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-111(LC 10)

Max Uplift 1=-77(LC 12), 7=-89(LC 13) Max Grav 1=1284(LC 1), 7=1337(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2310/503, 2-4=-2129/551, 4-6=-2126/535, 6-7=-2308/487

**BOT CHORD** 1-12=-327/2012, 9-12=-111/1304, 7-9=-326/1966

**WEBS** 4-9=-147/921, 6-9=-454/288, 4-12=-149/924, 2-12=-458/292

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 16-2-8, Exterior(2) 16-2-8 to 20-7-5, Interior(1) 20-7-5 to 33-1-10 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) 1, 7.



Structural wood sheathing directly applied or 4-10-13 oc purlins.

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

December 20,2021



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Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492055 J0522-2606 COMMON SUPPORTED GAB A5GE Job Reference (optional)

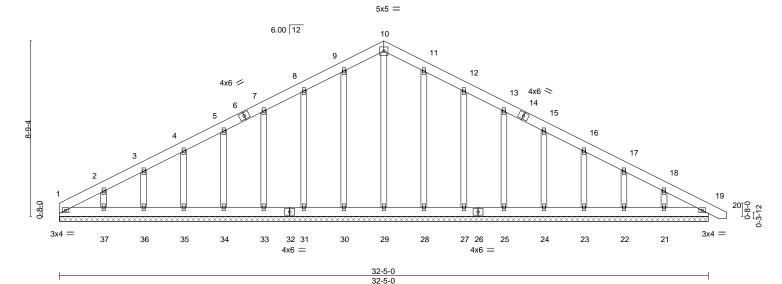
Fayetteville, NC - 28314, Comtech, Inc.

16-2-8 16-2-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:55 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-r7r7FCldMw0vuByejOb6k\_0I5Q4?RG4lchwyozy74yE 32-5-0

16-2-8

Scale = 1:57.6



LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	19	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	19	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	19	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	014	Matri	x-S	, ,					Weight: 256 lb	FT = 20%

LUMBER-

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

**BRACING-**

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

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

REACTIONS. All bearings 32-5-0.

Max Horz 1=-175(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 30, 31, 33, 34, 35, 36, 28, 27, 25, 24, 23, 22, 21 except

37=-101(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 29, 30, 31, 33, 34, 35, 36, 37, 28, 27, 25, 24, 23, 22, 21, 19

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

TOP CHORD 9-10=-114/284, 10-11=-114/284

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 30, 31, 33, 34, 35, 36, 28, 27, 25, 24, 23, 22, 21 except (jt=lb) 37=101.



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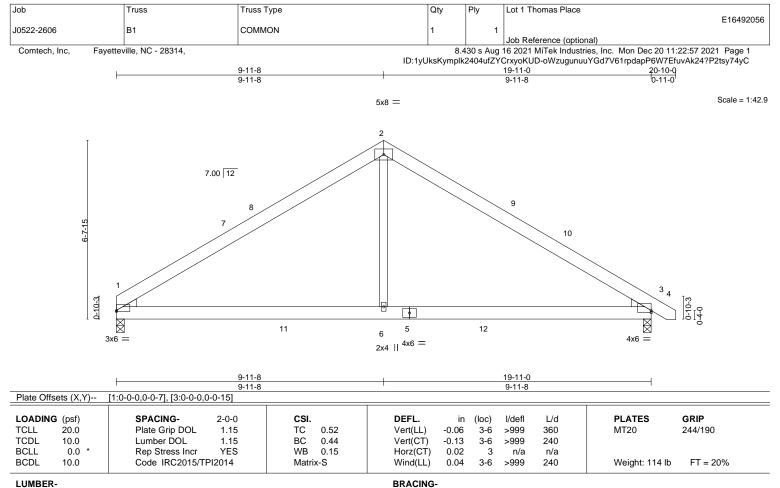


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TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE

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

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

Max Horz 1=-149(LC 8)

Max Uplift 1=-43(LC 12), 3=-56(LC 13) Max Grav 1=900(LC 19), 3=951(LC 20)

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

TOP CHORD 1-2=-1193/217, 2-3=-1221/216 **BOT CHORD** 1-6=-30/956, 3-6=-30/956

**WEBS** 2-6=0/660

# NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 20-8-0 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) 1, 3.



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

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

December 20,2021



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Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492057 J0522-2606 B1-GR COMMON GIRDER 2 Job Reference (optional)

9-11-8

5-0-0

Fayetteville, NC - 28314, Comtech, Inc.

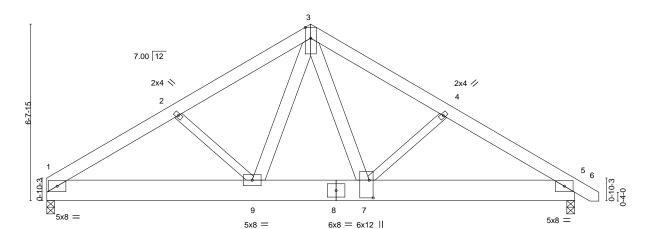
4-11-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:59 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-ku5e5ao8Q9WLNpGPyEg2uqBwH2NwN\_uLXJu9xky74yA 14-11-8 19-11-0 5-0-0

Scale = 1:43.5 5x12 ||

Structural wood sheathing directly applied or 4-11-12 oc purlins.

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



12-2-0 19-11-0 7-9-0 Plate Offsets (X,Y)--[7:0-8-0,0-1-12]

LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.07 >999 360 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 BC 0.27 Vert(CT) -0.14 >999 240 WB **BCLL** 0.0 Rep Stress Incr NO 0.55 Horz(CT) 0.03 5 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.05 >999 240 Weight: 348 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x10 SP 2400F 2.0E 2x6 SP No.1 \*Except\* WFBS 4-7,2-9: 2x4 SP No.2

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

Max Horz 1=-148(LC 4)

Max Uplift 1=-423(LC 8), 5=-642(LC 9) Max Grav 1=4234(LC 2), 5=6219(LC 2)

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

TOP CHORD 1-2=-7519/795, 2-3=-7422/798, 3-4=-10665/1144, 4-5=-10716/1136

BOT CHORD 1-9=-679/6256, 7-9=-581/6251, 5-7=-887/8935

**WEBS** 3-7=-953/8888, 4-7=-281/487, 3-9=-44/404, 2-9=-284/309

# NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-2-0 oc. Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 9034 lb down and 972 lb up at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 1-5=-20

Concentrated Loads (lb) Vert: 7=-7520(B)

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December 20,2021



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492058 J0522-2606 B1GE COMMON SUPPORTED GAB Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:22:58 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-GiXGuEnWfrOUlfhDPW8pMcepae5keeDBlf8cPly74yB 9-11-8 19-11-0 20-10-0 0-11-0 9-11-8 Scale = 1:42.6 5x5 =

0-10-3,	2	7.00 12	4	5	6	7	8	9	10	11 1/20 0-14
3x4 =	22	21	20	19	18 17 4x6	= 16	15	14	13	3x4 =

LOADING	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	0.03	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 146 lb	FT = 20%

19-11-0

LUMBER-

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

**BRACING-**

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

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

REACTIONS. All bearings 19-11-0.

Max Horz 1=-186(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 20, 21, 16, 15, 14, 11 except 22=-116(LC 12),

13=-103(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 18, 19, 20, 21, 22, 16, 15, 14, 13, 11

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

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 20, 21, 16, 15, 14, 11 except (jt=lb) 22=116, 13=103.



December 20,2021





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

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Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
					E16492059
J0522-2606	B2	JACK-CLOSED	8	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

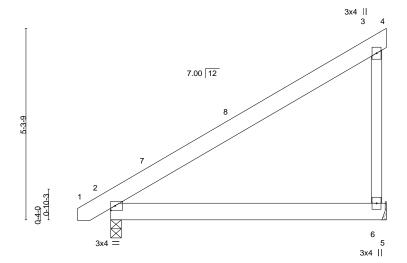
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:00 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-C4e0lwpmBTeC\_zrcWxBHR1k4LRkA6ZnUmzdjUAy74y9 7-7-8 7-7-8

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: 3/8"=1



**BRACING-**TOP CHORD

**BOT CHORD** 

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 0.33	Vert(LL)	-0.04 2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.21	Vert(CT)	-0.07 2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 48 lb	FT = 20%

LUMBER-

REACTIONS.

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

2x4 SP No.2 **WEBS** 

(size) 6=Mechanical, 2=0-3-8

Max Horz 2=158(LC 12) Max Uplift 6=-82(LC 12)

Max Grav 6=318(LC 19), 2=345(LC 1)

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

TOP CHORD 3-6=-288/220

# 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) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 7-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

0-11-0

- 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) 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) 6.



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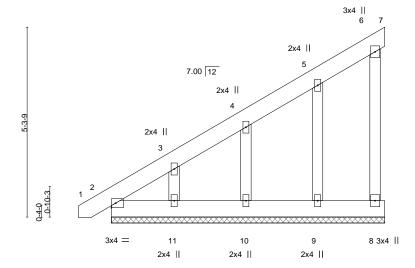
Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place	
						E16492060
J0522-2606	B2GE	MONOPITCH SUPPORTED	1	1		
					Joh Reference (ontional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:00 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-C4e0lwpmBTeC\_zrcWxBHR1k9\_Rnl6ZJUmzdjUAy74y9

0-11-0

Scale: 3/8"=1'



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.01 Vert(CT) -0.00 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.03 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 57 lb FT = 20%

LUMBER-

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

2x4 SP No.2 WFBS **OTHERS** 2x4 SP No.2

**BRACING-**

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

except end verticals.

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

REACTIONS. All bearings 7-7-8.

(lb) -Max Horz 2=228(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 9, 10 except 11=-117(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 8, 2, 9, 10, 11

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

TOP CHORD 2-3=-269/227

# NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 9, 10 except (jt=lb) 11=117.



December 20,2021

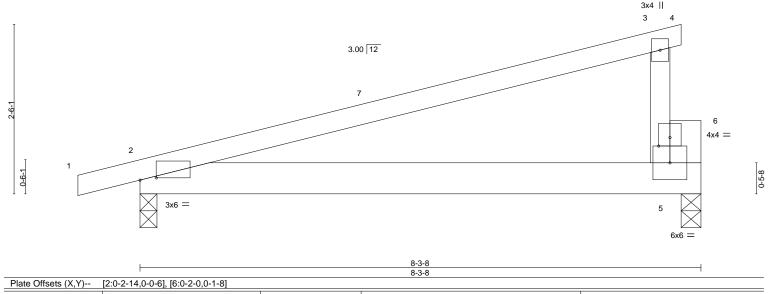




Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place	
					E1649206	.
J0522-2606	C1	Monopitch	5	1		
		•			Job Reference (optional)	
Comtech, Inc. Fayettev	/ille, NC - 28314,		8.4	30 s Aug	16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:01 2021 Page 1	_

ID:1yUksKymplk2404ufZYCrxyoKUD-gHCPWFqOymn3c6Qo4fiWzFG70r4tr01e\_dNG0dy74y8 -0-11-0

Scale = 1:17.0



LOADING (ps	)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	)	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.05	2-5	>999	360	MT20	244/190
TCDL 10.	)	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.10	2-5	>969	240		
BCLL 0.	o *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.	)	Code IRC2015/TP	PI2014	Matri	x-P	Wind(LL)	0.10	2-5	>886	240	Weight: 37 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 1 2x6 SP No.1

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

REACTIONS.

(size) 2=0-3-0, 5=0-3-8 Max Horz 2=74(LC 8)

Max Uplift 2=-150(LC 8), 5=-127(LC 8) Max Grav 2=375(LC 1), 5=314(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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 8-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=150, 5=127.



Structural wood sheathing directly applied or 5-3-4 oc purlins,

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

except end verticals.

December 20,2021



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



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492062 J0522-2606 GABLE 2 C1GE Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:02 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-8Tmnjbr0j4vwEG?\_eMDIWSpQVFOuaT3nDH6pY3y74y7 8-0-0 8-0-0 Scale = 1:17.0 3x4 = 2x4 || 5 3.00 12 2x4 || 2x4 || 12 4x4 = 0-6-1 3x6 = 11 10 9 2x4 || 2x4 || 2x4 || 5x10 M18AHS = 8-3-8 8-3-8 Plate Offsets (X,Y)--[2:0-2-14,0-0-6], [8:Edge,0-2-0], [12:0-2-0,0-1-8] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defl L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.35 Vert(LL) 0.09 10-11 >999 240 MT20 244/190 TCDL M18AHS 186/179 10.0 Lumber DOL 1.15 ВС 0.26 Vert(CT) -0.08 10-11 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.01 Horz(CT) -0.00 8 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 41 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

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

8-12: 2x6 SP No.1

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

Max Horz 2=105(LC 8) Max Uplift 2=-216(LC 8), 8=-188(LC 8)

Max Grav 2=375(LC 1), 8=314(LC 1)

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

BOT CHORD 2-11=-284/207, 10-11=-284/207, 9-10=-284/207, 8-9=-284/207

# NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=216, 8=188.



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

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

except end verticals.

December 20,2021





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Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492063 J0522-2606 D1-GR Common Girder 2 Job Reference (optional)

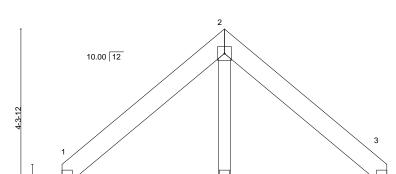
4x4 ||

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:04 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-5suX8HsHEh9eTa8NlnFDbtulV30Y2Hm4hbbwdyy74y5

3-11-8 3-11-8

Scale = 1:28.1



6

3-11-8 3-11-8 3-11-8

4 3x10 || 8

3x10 ||

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

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

SPACING-CSI. GRIP LOADING (psf) 2-0-0 DEFL. in (loc) I/defl L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.02 3-4 >999 360 MT20 244/190 TCDL Lumber DOL 1.15 ВС 0.57 Vert(CT) -0.04 3-4 >999 240 WB **BCLL** 0.0 Rep Stress Incr NO 0.39 Horz(CT) 0.01 3 n/a n/a Code IRC2015/TPI2014 Wind(LL) BCDL 10.0 Matrix-P 0.01 3-4 >999 240 Weight: 100 lb FT = 20%

> BRACING-TOP CHORD

> BOT CHORD

LUMBER-

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

WEDGE

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

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

Max Horz 1=91(LC 24) Max Uplift 1=-191(LC 8), 3=-180(LC 9)

Max Grav 1=2919(LC 1), 3=2779(LC 2)

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

3x10 ||

TOP CHORD 1-2=-2418/177, 2-3=-2418/177 BOT CHORD 1-4=-100/1678, 3-4=-100/1678

**WEBS** 2-4=-154/3142

# 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 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1261 lb down and 93 lb up at 0-9-12, 1258 lb down and 96 lb up at 2-9-12, and 1325 lb down and 96 lb up at 4-9-12, and 1325 lb down and 96 lb up at 6-9-12 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: 1-2=-60, 2-3=-60, 1-3=-20



December 20,2021

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	Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
						E16492063
	J0522-2606	D1-GR	Common Girder	1	2	
L						Job Reference (optional)

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8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:04 2021 Page 2 ID:1yUksKymplk2404ufZYCrxyoKUD-5suX8HsHEh9eTa8NlnFDbtulV30Y2Hm4hbbwdyy74y5

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 5=-1261(B) 6=-1258(B) 7=-1258(B) 8=-1258(B)

Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492064 J0522-2606 D1GE COMMON SUPPORTED GAB Job Reference (optional)

4-10-8

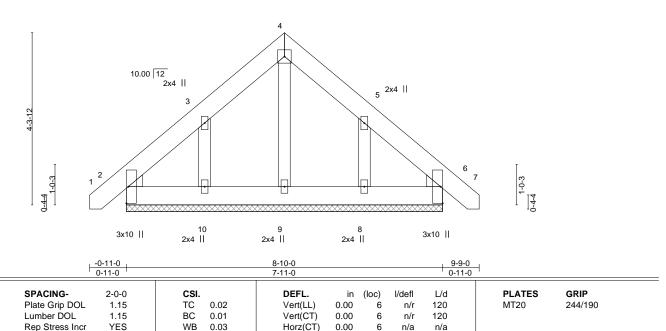
3-11-8

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:03 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-cfK9xxreUO1nrQaBB4k\_3fMfMfozJw1wSxsN4Vy74y6 8-10-0

Scale = 1:28.8

4x4 =



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

0.0

10.0

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

REACTIONS. All bearings 7-11-0.

(lb) - Max Horz 2=-118(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-152(LC 12), 8=-148(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

Code IRC2015/TPI2014

# NOTES-

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

Matrix-P

- 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) 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.
- 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, 6 except (jt=lb) 10=152. 8=148.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Weight: 60 lb

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

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

FT = 20%

December 20,2021

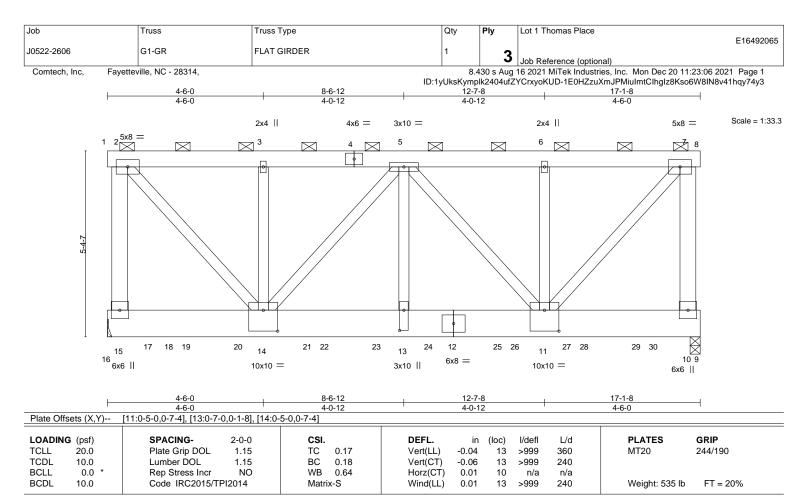


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No 1 **BOT CHORD** 2x10 SP 2400F 2 0F WFBS 2x4 SP No.2 \*Except\*

2-15,7-10: 2x6 SP No.1

REACTIONS.

15=Mechanical, 10=0-3-8 Max Uplift 15=-952(LC 4), 10=-496(LC 5) Max Grav 15=9044(LC 2), 10=5622(LC 14)

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

2-15=-4967/485, 2-3=-4297/388, 3-5=-4297/388, 5-6=-4012/329, 6-7=-4012/329. TOP CHORD

7-10=-4613/423

BOT CHORD 13-14=-445/5318 11-13=-445/5318

**WEBS**  $2-14 = -563/6307, \, 5-14 = -1816/442, \, 7-11 = -484/5953, \, 5-13 = -233/2760, \, 5-11 = -2053/179$ 

# 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 5 rows staggered at 0-4-0 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) 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
- 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.
- 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) 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) 15=952, 10=496.
- 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) 5000 lb down and 537 lb up at 1-2-8, 276 lb down and 102 lb up at 1-9-12, 1043 lb down at 2-3-12, 276 lb down and 102 lb up at 3-9-12, 1043 lb down at 4-3-12 276 lb down and 102 lb up at 5-9-12, 1043 lb down at 6-3-12, 276 lb down and 102 lb up at 7-9-12, 1122 lb down at 8-3-12, 1122 lb down at 9-3-12, 276 lb down and 102 lb up at 9-9-12, 1122 lb down at 11-3-12, 276 lb down and 102 lb up at 11-9-12,
  - 1122 lb down at 13-3-12, 276 lb down and 102 lb up at 13-9-12, and 1122 lb down at 15-3-12, and 276 lb down and 102 lb up at 15-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIN-7473 rev. 5/19/20/20 BEFUNE USE.

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2-0-0 oc purlins (6-0-0 max.): 1-8, except end verticals.

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

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Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
10500 0000	04.00	ELAT CIPDED	_		E16492065
J0522-2606	G1-GR	FLAT GIRDER	1	3	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:06 2021 Page 2 ID:1yUksKymplk2404ufZYCrxyoKUD-1E0HZzuXmJPMiuImtClhglz8Kso6W8lN8v41hqy74y3

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-7=-60, 7-8=-60, 9-16=-20

Concentrated Loads (lb)

Vert: 12=-276(F) 14=-255(B) 13=-291(B) 17=-5000(B) 18=-276(F) 19=-255(B) 20=-276(F) 21=-276(F) 22=-255(B) 23=-276(F) 24=-291(B) 25=-291(B) 26=-276(F) 27=-291(B) 28=-276(F) 29=-291(B) 30=-276(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492066 J0522-2606 M1 MONOPITCH Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:07 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-VRZgmJu9XcXCK1tyQvpwDVWHMG9oFkWWNZqaDHy74y2 0-11-0 Scale = 1:13.8 3x4 ↓ 4.00 12 1-9-1 0-7-1 3x4 II 5-0-0 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.01 2-4 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) -0.01 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.00 Horz(CT) 0.00 n/a n/a

LUMBER-

REACTIONS.

BCDL

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

10.0

2x6 SP No.1

Max Horz 2=63(LC 8) Max Uplift 2=-102(LC 8), 4=-79(LC 8) Max Grav 2=255(LC 1), 4=179(LC 1)

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

BRACING-

Wind(LL)

0.01

2-4

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

240

Weight: 24 lb

FT = 20%

except end verticals.

>999

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

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

Code IRC2015/TPI2014

# NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-P

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=102.



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Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492067 J0522-2606 M1GE GABLE Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:07 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-VRZgmJu9XcXCK1tyQvpwDVWKGG9dFkHWNZqaDHy74y2 0-11-0 Scale = 1:13.8 2x4 || 3x4 ↓ 4.00 12 2x4 || 3 1-9-1 2-2-9 0-7-1 <sup>8</sup> 2x4 || <sup>7</sup> 2x4 || 3x4 II 3x4 = 5-0-0 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) 0.01 8 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.09 Vert(CT) -0.01 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.02 Horz(CT) -0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 27 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x6 SP No.1 WFBS **OTHERS** 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 6=0-1-8 Max Horz 2=90(LC 8)

Max Uplift 2=-147(LC 8), 6=-115(LC 8) Max Grav 2=255(LC 1), 6=179(LC 1)

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

# NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=147. 6=115.



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

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

except end verticals

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Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492068 3 J0522-2606 M2 Half Hip Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:08 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-zd72\_fvnlwf3yBS8\_dK9lj3TggSc\_BmfbDZ8mjy74y1 -0-11-0 3-11-8 0-11-0 Scale = 1:13.2 3x4 || 3 4.00 12 10 4x6 = 4x4 || 5-3-8 3-11-8 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

-0.00

-0.01

-0.00

0.02

8 >999

8 >999

8 >999

n/a

10-0-0 oc bracing: 3-5

360

240

n/a

240

MT20

Structural wood sheathing directly applied or 5-3-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-8, 5-6. Except:

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

Weight: 28 lb

244/190

FT = 20%

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

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

20.0

0.0

10.0

2x6 SP No.1 WFBS

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

Max Horz 2=69(LC 12)

Max Uplift 7=-173(LC 8), 2=-138(LC 8) Max Grav 7=561(LC 19), 2=349(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

2-3=-425/505, 5-8=-279/265, 5-6=-233/338, 6-7=-292/309 TOP CHORD

**BOT CHORD** 2-8=-546/359 7-8=-338/233

# 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) -0-11-0 to 3-7-4, Interior(1) 3-7-4 to 5-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

вс

WB

Matrix-R

0.24

0.24

0.00

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

NO

- 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) except (jt=lb) 7=173, 2=138.
- 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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: 1-3=-60, 3-4=-60, 5-9=-40, 6-9=-80, 2-7=-20

Concentrated Loads (lb)

Vert: 9=-400

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-3=-50, 3-4=-50, 5-9=-100, 6-9=-130, 2-7=-20



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Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
					E16492068
J0522-2606	M2	Half Hip	3	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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### LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 9=-350

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-20, 3-4=-20, 5-6=-40, 2-7=-40

Concentrated Loads (lb)

Vert: 9=-300

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=70, 2-3=58, 3-4=153, 5-6=12, 2-8=52, 8-10=115, 7-10=52 Horz: 1-2=-82, 2-3=-70, 3-4=-165, 3-5=-55

Concentrated Loads (lb)

Vert: 9=548

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=51, 2-3=58, 3-4=51, 5-6=42, 2-8=52, 8-10=115, 7-10=52 Horz: 1-2=-63, 2-3=-70, 3-4=-63, 3-5=-55

Concentrated Loads (lb)

Vert: 9=566

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-1, 2-3=-45, 3-4=17, 5-6=-58, 2-8=-9, 8-10=2, 7-10=-9

Horz: 1-2=-19, 2-3=25, 3-4=-37, 3-5=51

Concentrated Loads (lb)

Vert: 9=-420

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-39, 2-3=-45, 3-4=-39, 5-6=-58, 2-8=-9, 8-10=2, 7-10=-9

Horz: 1-2=19, 2-3=25, 3-4=19, 3-5=51

Concentrated Loads (lb)

Vert: 9=-420

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=36, 2-3=21, 3-4=14, 5-6=-11, 2-8=10, 8-10=33, 7-10=10

Horz: 1-2=-48, 2-3=-33, 3-4=-26, 3-5=7

Concentrated Loads (lb)

Vert: 9=154

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=12, 3-4=28, 5-6=1, 2-7=-12

Horz: 1-2=-18, 2-3=-24, 3-4=-40, 3-5=-27

Concentrated Loads (lb)

Vert: 9=43

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-33, 2-8=2, 8-10=25, 7-10=2

Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=34

Concentrated Loads (lb)

Vert: 9=-339

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-3=-9, 3-4=-2, 5-6=-21, 2-7=-20

Horz: 1-2=-18, 2-3=-11, 3-4=-18, 3-5=-0

Concentrated Loads (lb)

Vert: 9=-234

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-11, 2-7=-12

Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39

Concentrated Loads (lb)

Vert: 9=43

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=1, 2-7=-12 Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27

Concentrated Loads (lb)

Vert: 9=43

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60. Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-11, 2-7=-12 Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39

Concentrated Loads (lb)

Vert: 9=43

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60





Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
					E16492068
J0522-2606	M2	Half Hip	3	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:08 2021 Page 3 ID:1yUksKymplk2404ufZYCrxyoKUD-zd72\_fvnlwf3yBS8\_dK9lj3TggSc\_BmfbDZ8mjy74y1

```
LOAD CASE(S) Standard
    Uniform Loads (plf)
            Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=1, 2-7=-12
            Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
    Concentrated Loads (lb)
            Vert: 9=43
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-33, 2-7=-20
            Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=-12
    Concentrated Loads (lb)
            Vert: 9=-234
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-6, 2-3=-13, 3-4=-6, 5-6=-21, 2-7=-20
            Horz: 1-2=-14, 2-3=-7, 3-4=-14, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-234
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-6=-120, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-200
19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-95, 6-9=-125, 2-8=-3, 8-10=13, 7-10=-3
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=26
    Concentrated Loads (lb)
            Vert: 9=-454
20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-37, 2-3=-42, 3-4=-37, 5-9=-86, 6-9=-116, 2-7=-20
            Horz: 1-2=-13, 2-3=-8, 3-4=-13, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-95, 6-9=-125, 2-7=-20
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=-9
    Concentrated Loads (lb)
            Vert: 9=-375
22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-40, 2-3=-45, 3-4=-40, 5-9=-86, 6-9=-116, 2-7=-20
            Horz: 1-2=-10, 2-3=-5, 3-4=-10, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-60, 3-4=-60, 5-6=-40, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-9=-40, 6-9=-80, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-50, 3-4=-50, 5-6=-100, 2-7=-20
```

Concentrated Loads (lb) Vert: 9=-350

Concentrated Loads (lb) Vert: 9=-350

Uniform Loads (plf)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-3=-20, 3-4=-20, 5-9=-100, 6-9=-130, 2-7=-20



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492069 J0522-2606 M2-GR HALF HIP 2 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:09 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-RphQB?wP3EnwaL1KYKrOlwbgK4pMje0pqtJhl9y74y0 -0-11-0 3-11-8 0-11-0 Scale = 1:13.2 3x4 || 3 4.00 12 9 4x6 = 3x4 = 3x4 || 5-3-8 3-11-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) -0.00 8 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.14 Vert(CT) -0.01 8 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 n/a n/a Wind(LL) BCDL 10.0 Code IRC2015/TPI2014 Matrix-R 0.01 8 >999 240 Weight: 55 lb FT = 20%BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1 WFBS

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

Max Horz 2=69(LC 12)

Max Uplift 7=-24(LC 8), 2=-112(LC 8) Max Grav 7=710(LC 19), 2=375(LC 1)

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

2-3=-484/446, 5-8=-334/210, 5-6=-280/291, 6-7=-390/210 TOP CHORD

**BOT CHORD** 2-8=-491/415 7-8=-291/280

# NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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: 2x6 - 2 rows staggered 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) and C-C Exterior(2) -0-11-0 to 3-7-4, Interior(1) 3-7-4 to 5-0-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 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) 7 except (jt=lb)
- 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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

Vert: 1-3=-60, 3-4=-60, 5-9=-160, 6-9=-200, 2-7=-20



Structural wood sheathing directly applied or 5-3-8 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-8, 5-6. Except:

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

10-0-0 oc bracing: 3-5

December 20,2021

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

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

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



Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:09 2021 Page 2 ID:1yUksKymplk2404ufZYCrxyoKUD-RphQB?wP3EnwaL1KYKrOlwbgK4pMje0pqtJhl9y74y0

### LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 9=-400

2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 3-4=-50, 5-9=-220, 6-9=-250, 2-7=-20

Concentrated Loads (lb)

Vert: 9=-350

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-20, 3-4=-20, 5-6=-160, 2-7=-40

Concentrated Loads (lb)

Vert: 9=-300

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=70, 2-3=58, 3-4=153, 5-6=-108, 2-8=52, 8-10=115, 7-10=52

Horz: 1-2=-82, 2-3=-70, 3-4=-165, 3-5=-55

Concentrated Loads (lb)

Vert: 9=548

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=51, 2-3=58, 3-4=51, 5-6=-78, 2-8=52, 8-10=115, 7-10=52

Horz: 1-2=-63, 2-3=-70, 3-4=-63, 3-5=-55

Concentrated Loads (lb)

Vert: 9=566

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-1, 2-3=-45, 3-4=17, 5-6=-178, 2-8=-9, 8-10=2, 7-10=-9

Horz: 1-2=-19, 2-3=25, 3-4=-37, 3-5=51

Concentrated Loads (lb)

Vert: 9=-420

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-39, 2-3=-45, 3-4=-39, 5-6=-178, 2-8=-9, 8-10=2, 7-10=-9

Horz: 1-2=19, 2-3=25, 3-4=19, 3-5=51

Concentrated Loads (lb)

Vert: 9=-420

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=36, 2-3=21, 3-4=14, 5-6=-131, 2-8=10, 8-10=33, 7-10=10

Horz: 1-2=-48, 2-3=-33, 3-4=-26, 3-5=7

Concentrated Loads (lb)

Vert: 9=154

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=12, 3-4=28, 5-6=-119, 2-7=-12

Horz: 1-2=-18, 2-3=-24, 3-4=-40, 3-5=-27

Concentrated Loads (lb)

Vert: 9=43

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-153, 2-8=2, 8-10=25, 7-10=2

Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=34

Concentrated Loads (lb)

Vert: 9=-339

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-3=-9, 3-4=-2, 5-6=-141, 2-7=-20

Horz: 1-2=-18, 2-3=-11, 3-4=-18, 3-5=-0

Concentrated Loads (lb)

Vert: 9=-234

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-131, 2-7=-12

Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39

Concentrated Loads (lb)

Vert: 9=43

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=-119, 2-7=-12

Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27

Concentrated Loads (lb)

Vert: 9=43

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place	=
J0522-2606	M2-GR	  HALF HIP	1	_		E16492069
					Job Reference (optional)	

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:09 2021 Page 3 ID:1yUksKymplk2404ufZYCrxyoKUD-RphQB?wP3EnwaL1KYKrOIwbgK4pMje0pqtJhl9y74y0

```
LOAD CASE(S) Standard
    Uniform Loads (plf)
            Vert: 1-2=14, 2-3=21, 3-4=14, 5-6=-131, 2-7=-12
            Horz: 1-2=-26, 2-3=-33, 3-4=-26, 3-5=-39
    Concentrated Loads (lb)
            Vert: 9=43
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=2, 2-3=9, 3-4=2, 5-6=-119, 2-7=-12
            Horz: 1-2=-14, 2-3=-21, 3-4=-14, 3-5=-27
    Concentrated Loads (lb)
            Vert: 9=43
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=6, 2-3=-1, 3-4=6, 5-6=-153, 2-7=-20
            Horz: 1-2=-26, 2-3=-19, 3-4=-26, 3-5=-12
    Concentrated Loads (lb)
            Vert: 9=-234
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-6, 2-3=-13, 3-4=-6, 5-6=-141, 2-7=-20
            Horz: 1-2=-14, 2-3=-7, 3-4=-14, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-234
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-6=-240, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-200
19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-215, 6-9=-245, 2-8=-3, 8-10=13, 7-10=-3
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=26
    Concentrated Loads (lb)
            Vert: 9=-454
20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-37, 2-3=-42, 3-4=-37, 5-9=-206, 6-9=-236, 2-7=-20
            Horz: 1-2=-13, 2-3=-8, 3-4=-13, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
            Vert: 1-2=-31, 2-3=-36, 3-4=-31, 5-9=-215, 6-9=-245, 2-7=-20
            Horz: 1-2=-19, 2-3=-14, 3-4=-19, 3-5=-9
    Concentrated Loads (lb)
            Vert: 9=-375
22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
            Vert: 1-2=-40. 2-3=-45. 3-4=-40. 5-9=-206. 6-9=-236. 2-7=-20
            Horz: 1-2=-10, 2-3=-5, 3-4=-10, 3-5=-0
    Concentrated Loads (lb)
            Vert: 9=-375
23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-60, 3-4=-60, 5-6=-160, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-20, 3-4=-20, 5-9=-160, 6-9=-200, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-400
25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-3=-50, 3-4=-50, 5-6=-220, 2-7=-20
    Concentrated Loads (lb)
            Vert: 9=-350
26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15. Plate Increase=1.15
    Uniform Loads (plf)
```

Concentrated Loads (lb) Vert: 9=-350

Vert: 1-3=-20, 3-4=-20, 5-9=-220, 6-9=-250, 2-7=-20



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492070 V1GE ROOF SPECIAL STRUCTU J0522-2606 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:10 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-v0FoPKx1qXvnBVcX62Mdr88s\_TBHS42y3X2Eqby74y? 12-10-9

4-3-2

4x4 =

Scale = 1:44.8

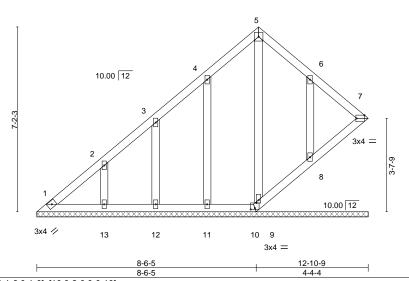


Plate Offsets (X,Y)--[7:0-3-11,Edge], [9:0-1-6,0-1-0], [10:0-2-0,0-0-10] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defl L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a 999 n/a WB **BCLL** 0.0 Rep Stress Incr YES 0.08 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 75 lb FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 12-10-9.

(lb) -Max Horz 1=231(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10 except 11=-112(LC 12), 12=-107(LC 12), 13=-133(LC 12), 8=-126(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 9, 11, 12, 13, 8

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

TOP CHORD 1-2=-295/189

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Bearing at joint(s) 7, 9, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10 except (it=lb) 11=112, 12=107, 13=133, 8=126,
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 9, 8.



December 20,2021



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

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

ANSI/TPII Quality Criteria, DSB-89 and BCSI Building Component Safety Internation, available from Truss Plate Institute 2/870 (Crain Hichways, Suite 2/30 Waldorf MD 2/6001) Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492071 J0522-2606 V2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:11 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-NCpAcgxgbr1epfBjfltsNLh?XtVeBX56lBooM2y74y\_ 7-5-0 7-5-0 14-10-0 Scale = 1:39.2 4x4 = 3 10.00 12 10 2x4 || 2x4 || 12 9 3x4 / 3x4 × 13 2x4 || 2x4 || 2x4 || 14-10-0

_Plate Off	sets (X,Y)	[4:0-0-0,0-0-0]		
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 0.14	Vert(LL) n/a - n/a 999   MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) n/a - n/a 999
BCLL	0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 5 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 64 lb FT = 20%

14-10-0

LUMBER-TOP CHORD

2x4 SP No 1 2x4 SP No.1

**BOT CHORD OTHERS** 

2x4 SP No.2

**BRACING-**

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

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

REACTIONS. All bearings 14-10-0.

(lb) -Max Horz 1=-140(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-135(LC 12), 6=-135(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=400(LC 19), 8=393(LC 19), 6=393(LC 20)

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

**WEBS** 2-8=-338/247, 4-6=-338/247

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-5-0, Exterior(2) 7-5-0 to 11-9-13, Interior(1) 11-9-13 to 14-5-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=135, 6=135.



December 20,2021



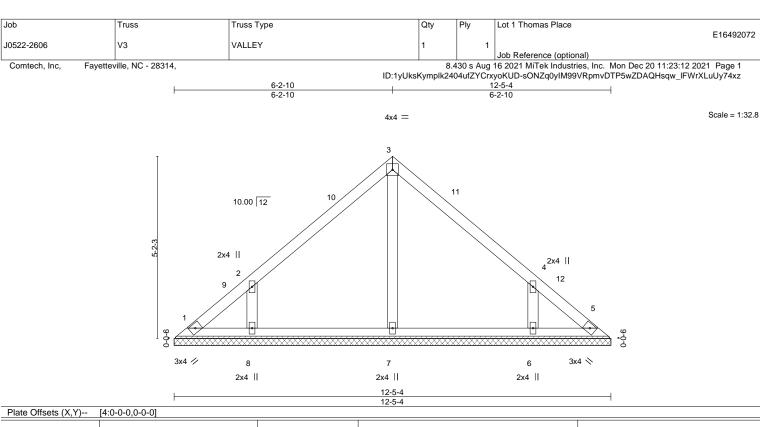


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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	0010 (71,17	[ 0 0,0 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 0.13	Vert(LL) n/a - n/a 999 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 5 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 52 lb FT = 20%

LUMBER-TOP CHORD **BOT CHORD** 

**OTHERS** 

2x4 SP No 1

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

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

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

REACTIONS. All bearings 12-5-4.

(lb) -Max Horz 1=-116(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-123(LC 12), 6=-123(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

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

**WEBS** 2-8=-312/241, 4-6=-312/241

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-2-10, Exterior(2) 6-2-10 to 10-7-7, Interior(1) 10-7-7 to 12-0-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=123, 6=123.



December 20,2021





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



J0522-2606 V4 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:14 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-onVJFi\_YumPDg6vlLuRZ?\_JVR5XFOuPY\_90SyNy74xx 5-0-3 5-0-3 10-0-7 5-0-4 Scale = 1:26.9 4x4 = 10.00 12 4 3x4 🚿 3x4 // 2x4 || 10-0-7 10-0-7 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.22 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.16 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 38 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

Qty

Ply

Lot 1 Thomas Place

E16492073

LUMBER-

Job

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

REACTIONS.

(size) 1=10-0-7, 3=10-0-7, 4=10-0-7

Max Horz 1=-92(LC 8)

Truss

Truss Type

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

Max Grav 1=197(LC 1), 3=197(LC 1), 4=344(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.

December 20,2021



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



Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492074 J0522-2606 V5 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:15 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-Gz2hS2?Af4X4IGUUubyoYBrh1Utb7L7hDpm?Upy74xw 3-9-13 3-9-13 7-7-10 3-9-13 Scale = 1:21.7 4x4 =10.00 12 9-0-0 0-0-6 3x4 📏 3x4 // 2x4 || 7-7-10 7-7-10 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.09 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.02 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 28 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

**BOT CHORD** 

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

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

REACTIONS.

(size) 1=7-7-10, 3=7-7-10, 4=7-7-10

Max Horz 1=68(LC 9)

Max Uplift 1=-24(LC 13), 3=-30(LC 13)

Max Grav 1=158(LC 1), 3=158(LC 1), 4=230(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.



December 20,2021





Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492075 J0522-2606 V6 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:15 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-Gz2hS2?Af4X4lGUUubyoYBridUuN7LKhDpm?Upy74xw 5-2-13 Scale: 3/4"=1' 4x4 = 2 10.00 12 3 9-0-0 9-0-0 3x4 📏 3x4 / 5-2-13 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.01 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 19 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 1=5-2-13, 3=5-2-13, 4=5-2-13

Max Horz 1=-44(LC 8)

Max Uplift 1=-15(LC 13), 3=-19(LC 13)

Max Grav 1=102(LC 1), 3=102(LC 1), 4=149(LC 1)

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

# NOTES-

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



Structural wood sheathing directly applied or 5-2-13 oc purlins.

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

December 20,2021



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Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492076 J0522-2606 V7 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:16 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-k9c3fO?oQNgxvQ3hSIT14POuCuEfsolrRTVZ1Fy74xv 2-10-0 Scale = 1:8.7 3x4 2 10.00 12 3 0-0-6 9-0-0 3x4 💉 3x4 // 2-10-0 2-10-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP

LOADING (psf) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.01 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999 0.0 WB 0.00 **BCLL** Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 8 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 1=2-10-0, 3=2-10-0

Max Horz 1=-20(LC 8)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=81(LC 1), 3=81(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 2-10-0 oc purlins.

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

December 20,2021





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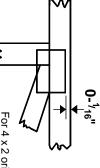
Edenton, NC 27932

## Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE

4 × 4

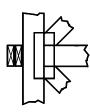
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



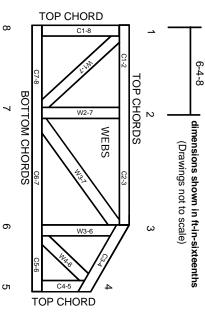
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

## Industry Standards:

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

ANSI/TPI1: DSB-89:

# Numbering System



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

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

## PRODUCT CODE APPROVALS

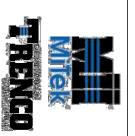
ICC-ES Reports:

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

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

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

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

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

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

4.

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

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- use with fire retardant, preservative treated, or green lumber.

Unless expressly noted, this design is not applicable for

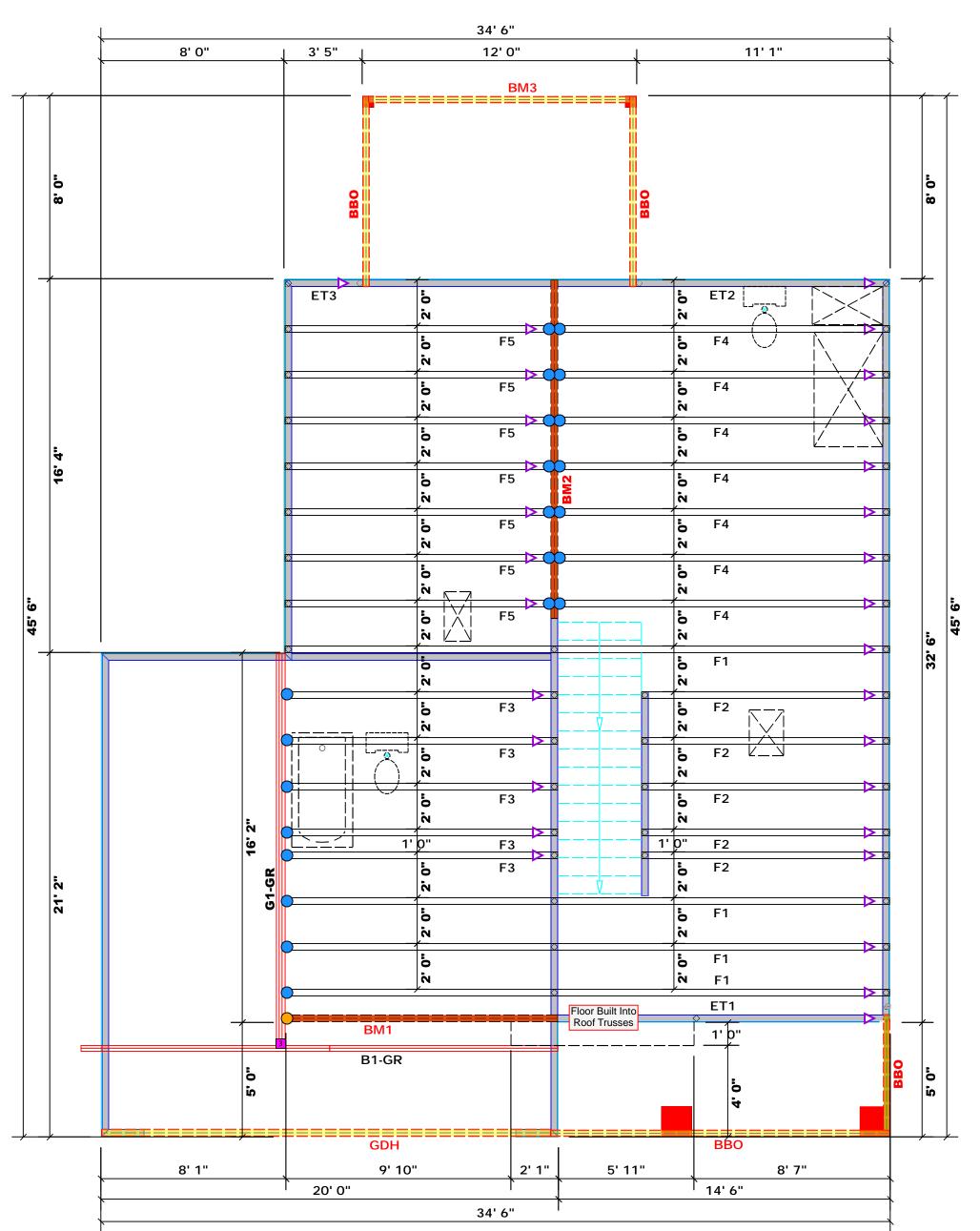
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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.

3

- 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 after truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.



Dimension Notes All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 All interior wall dimensions are to face of frame wall unless noted otherwise
 All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

### All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes Plumbing drop locations shown are NOT exact.
 Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
 Adjust spacing as needed not to exceed 24"oc.

	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	22	NA	16d/3-1/2"	16d/3-1/2"
	THDH412	USP	1	NA	16d /3-1/2"	16d /3-1/2"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan

соттесн **ROOF & FLOOR TRUSSES & BEAMS** 

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

dearing reactions less than or equal to 3000# are eemed to comply with the prescriptive Code equirements. The contractor shall refer to the ttached Tables ( derived from the prescriptive Code equirements ) to determine the minimum foundation ize and number of wood studs required to support eactions greater than 3000# but not greater than 5000#. A registered design professional shall be etained to design the support system for any eaction that exceeds those specified in the attached ables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

David Landry

David Landry

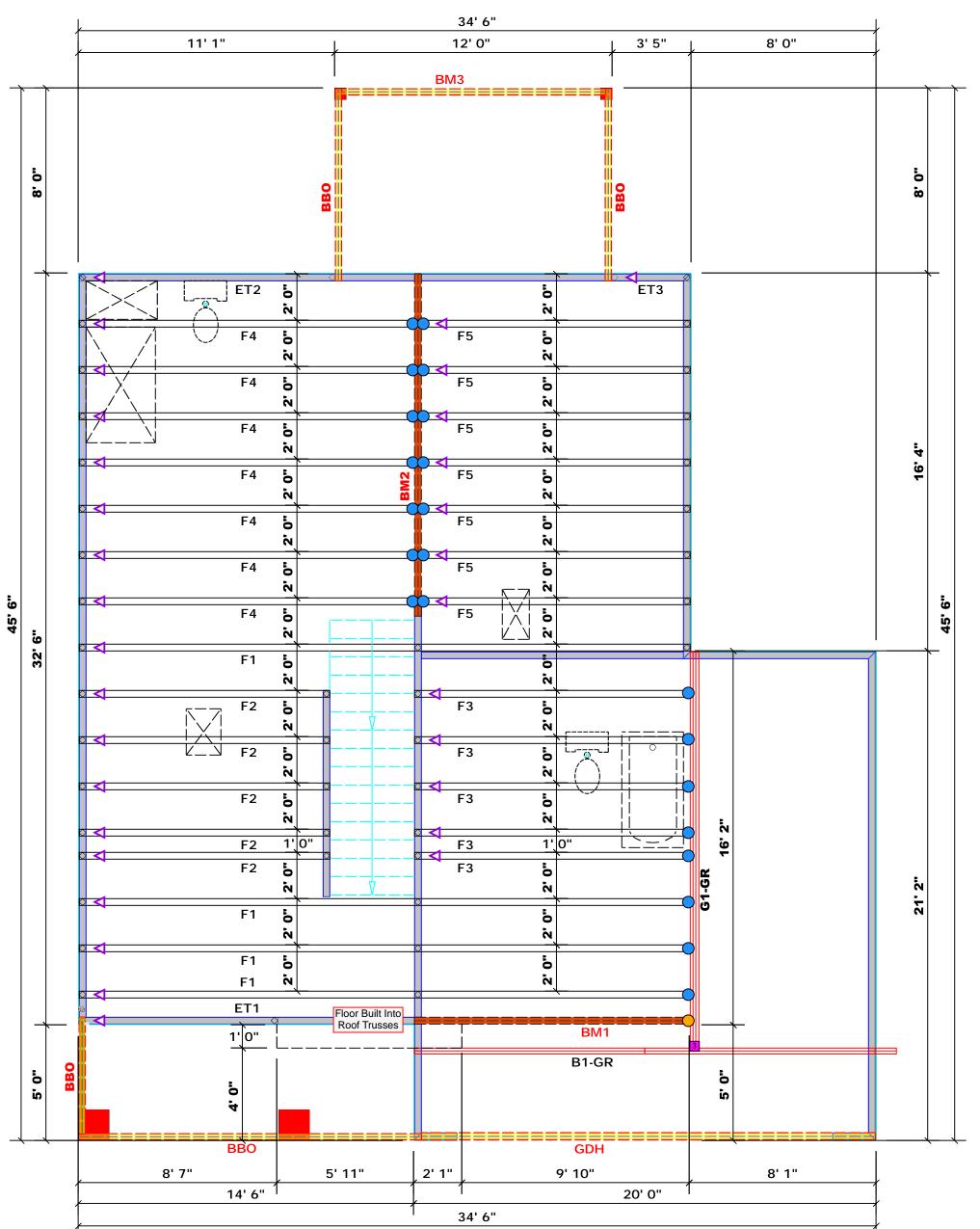
Notice   N	NUMBER OF JACK STUDS REQUIRED ® EA END OF MEADER/GIRDER										
1700 1 2550 1 3400 1 3400 2 5100 2 6800 2 5100 3 7650 3 10200 3 6800 4 10200 4 13600 4 8500 5 12750 5 17000 5 10200 6 15300 6 11900 7 13600 8	END REACTION (UP TO)	REQ'D STUDS FOI (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		ENS REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER			
5100 3 7650 3 10200 3 6800 4 10200 4 13600 4 8500 5 12750 5 17000 5 10200 6 15300 6 11900 7 13600 8	1700	1		2550	1		3400	1			
6800 4 10200 4 13600 4 8500 5 12750 5 17000 5 10200 6 15300 6 11900 7 13600 8	3400	2		5100	2		6800	2			
8500 5 12750 5 17000 5 10200 6 15300 6 11900 7 13600 8	5100			7650	3		10200	3			
10200 6 15300 6 11900 7 13600 8	6800	4		10200	4		13600	4			
11900 7 13600 8	8500	5		12750	5		17000	5			
13600 8	10200	6		15300	6						
	11900	7									
15300 9	13600	8									
	15300	9									

BUILDER	Weaver Development Co. Inc.	CITY / CO.	CITY / CO. Harnett Co. / Harnett	6800 8500 10200 11900 13600 15300
JOB NAME	JOB NAME Lot 1 Thomas Place	ADDRESS	Lot 1 Thomas Place	3 4 5 6 7 8 9
PLAN	Hickory II "C" / 2GLF, CP	MODEL	Floor	7650 1020 1275 1530
SEAL DATE N/A	N/A	DATE REV.	05/18/22	0 4
QUOTE#		DRAWN BY	DRAWN BY David Landry	1360 1700
JOB #	10522-2607	SALES REP.	SALES REP. Lenny Norris	00 4

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)

Do NOT Erect Truss Backwards



Dimension Notes All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
 All interior wall dimensions are to face of frame wall unless noted otherwise
 All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

### All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes 1. Plumbing drop locations shown are NOT exact. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
 Adjust spacing as needed not to exceed 24"oc.

	Conne	Nail Information				
Sym	Product Manuf Qty		Supported Member	Header	Truss	
	HUS410	USP	22	NA	16d/3-1/2"	16d/3-1/2"
	THDH412	USP	1	NA	16d /3-1/2"	16d /3-1/2"

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
ВМ3	12' 0"	2x10 SPF No.2	2	2	FF
GDH	20' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF

Truss Placement Plan

соттесн **ROOF & FLOOR TRUSSES & BEAMS** 

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

tearing reactions less than or equal to 3000# are eemed to comply with the prescriptive Code equirements. The contractor shall refer to the ttached Tables ( derived from the prescriptive Code equirements) to determine the minimum foundation ize and number of wood studs required to support eactions greater than 3000# but not greater than 5000#. A registered design professional shall be etained to design the support system for any eaction that exceeds those specified in the attached ables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

David Landry

David Landry

LOAD CHART FOR JACK STUDS

Weaver Development Co. Inc.	.02 / געב	CITY / CO.   Harnett Co. / Harnett	13600 15300
Lot 1 Thomas Place	ADDRESS	Lot 1 Thomas Place	8
Hickory II "C" / 2GLF, CP	MODEL	Floor	
N/A	DATE REV.	05/18/22	
	DRAWN BY	DRAWN BY David Landry	
J0522-2607	SALES REP.	SALES REP. Lenny Norris	

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

JOB NAME

BUILDER



Weaver Development

Hickory II

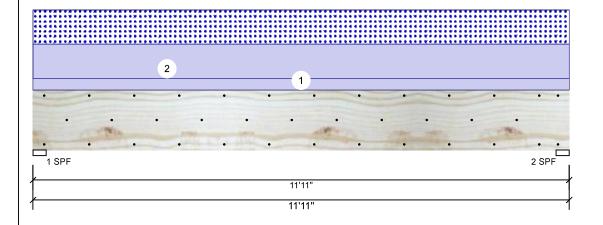
Date: 5/18/2022

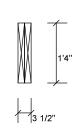
Input by: David Landry Job Name: Lot 1 Thomas Place

Project #: J0522-2607

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** BM<sub>1</sub>

Level: Level





Page 1 of 8

### Member Information

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

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked Ceiling: Gypsum 1/2"

### **Reactions UNPATTERNED Ib (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2869	2079	0	0
2	Vertical	0	2869	2079	0	0

### **Bearings**

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	95%	2869 / 2079	4948	L	D+S
2 - SPF	3.500"	Vert	95%	2869 / 2079	4948	L	D+S

### **Analysis Results**

, ,						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13679 ft-lb	5'11 1/2"	39750 ft-lb	0.344 (34%)	D+S	L
Unbraced	13679 ft-lb	5'11 1/2"	13699 ft-lb	0.999 (100%)	D+S	L
Shear	3615 lb	1'7 1/2"	13739 lb	0.263 (26%)	D+S	L
LL Defl inch	0.069 (L/2000)	5'11 1/2"	0.287 (L/480)	0.240 (24%)	S	L
TL Defl inch	0.164 (L/840)	5'11 1/2"	0.383 (L/360)	0.428 (43%)	D+S	L

### **Design Notes**

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

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Uniform			Тор	349 PLF	0 PLF	349 PLF	0 PLF	0 PLF	A2
	Self Weight				12 PLF					

### Notes

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

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

### Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

Comtech, Inc. Lot 35 Briarwood Bluff vay, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024 CSD



Weaver Development

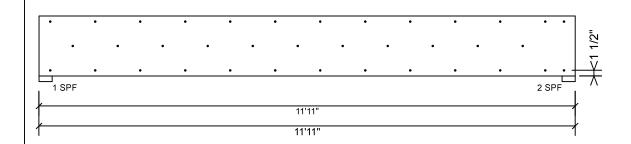
Hickory II

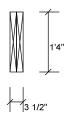
Date: 5/18/2022

Input by: David Landry Job Name: Lot 1 Thomas Place Project #: J0522-2607

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

Level: Level





Page 2 of 8

### 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".

rasterrain pines asing 5 To	TO OT TOO BOX TIGHTS (.TEOXS ) OF
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

### Notes

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

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

### Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

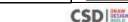
Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

Manufacturer Info

(800) 622-5850 www.metsawood.com/us Comtech, Inc. Lot 35 Briarwood Bluff Broadway, NC adway, NC

Broadway, NC USA 28314 910-864-TRUS







Weaver Development

Hickory II

Date: 5/18/2022

Input by: David Landry Job Name: Lot 1 Thomas Place Project #: J0522-2607

Page 3 of 8

Const 0 0

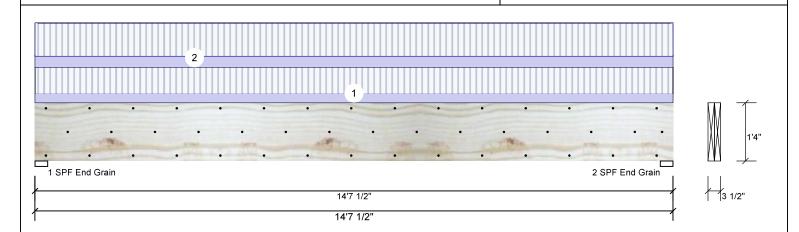
Ld. Comb.

D+L

D+L

1.750" X 16.000" **Kerto-S LVL** 2-Ply - PASSED BM<sub>2</sub>

Level: Level



Member Inform	mation			Rea	Reactions UNPATTERNED Ib (Uplift)							
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	- (		
Plies:	2	Design Method:	ASD	1	Vertical	3868	1385	0	0			
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	3868	1385	0	0			
Deflection LL:	480	Load Sharing:	No									
Deflection TL:	360	Deck:	Not Checked									
Importance:	Normal - II	Ceiling:	Gypsum 1/2"									
Temperature:	Temp <= 100°F											
	•			Bea	rings							

Bearing Length

1 - SPF 3.500"

2 - SPF 3.500"

End Grain

End Grain Dir.

Vert

Vert

Cap. React D/L lb

51% 1385 / 3868

51%

1385 / 3868

### **Analysis Results**

_	•						
	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	18077 ft-lb	7'3 3/4"	34565 ft-lb	0.523 (52%)	D+L	L
	Unbraced	18077 ft-lb	7'3 3/4"	18085 ft-lb	1.000 (100%)	D+L	L
	Shear	5044 lb	1'7 1/2"	11947 lb	0.422 (42%)	D+L	L
	LL Defl inch	0.229 (L/743)	7'3 13/16"	0.355 (L/480)	0.646 (65%)	L	L
	TL Defl inch	0.311 (L/547)	7'3 13/16"	0.473 (L/360)	0.658 (66%)	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 a maximum of 6'5 1/8" o.c.

6 Lateral slenderness ratio based on single ply width.										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	79 PLF	235 PLF	0 PLF	0 PLF	0 PLF	F5
2	Uniform			Far Face	98 PLF	294 PLF	0 PLF	0 PLF	0 PLF	F4
	Self Weight				12 PLF					

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

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

### Handling & Installation

1. UVL 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

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info

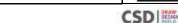
Comtech, Inc. Lot 35 Briarwood Bluff USA 28314 910-864-TRUS

Total Ld. Case

5254 L

5254 L







Weaver Development

Hickory II

Date:

Input by:

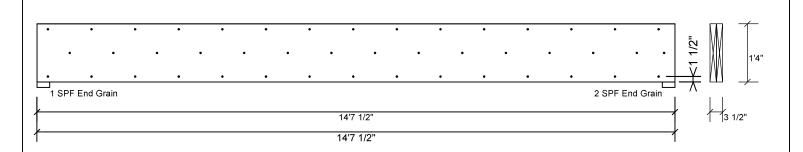
5/18/2022

David Landry Job Name: Lot 1 Thomas Place Page 4 of 8

Project #: J0522-2607

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** BM<sub>2</sub>

Level: Level



### Multi-Ply Analysis

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

Capacity	79.8 %
Load	196.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

### Notes

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

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

### Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

This design is valid until 11/3/2024

### 6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

Comtech, Inc. Lot 35 Briarwood Bluff Broadway, NC adway, NC Broadway, NC USA 28314 910-864-TRUS







Member Information

Client: Project: Address: Weaver Development

Hickory II

Date: 5/18/2022

Input by: David Landry

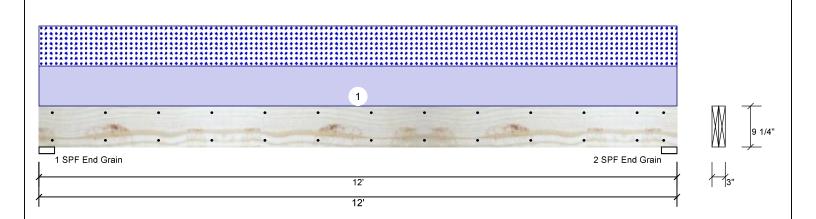
Job Name: Lot 1 Thomas Place

Project #: J0522-2607

Page 5 of 8

M3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Bearings

.,		ia (ioii		
	Туре:	Girder	Application:	Floor
	Plies:	2	Design Method:	ASD
	Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
	Deflection LL:	480	Load Sharing:	No
	Deflection TL:	360	Deck:	Not Checked
	Importance:	Normal - II	Ceiling:	Gypsum 1/2"
	Temperature:	Temp <= 100°F		

Rea	Reactions UNPATTERNED lb (Uplift)												
Brg	Direction	Live	Dead	Snow	Wind	Const							
1	Vertical	0	564	564	0	0							
2	Vertical	0	564	564	0	0							

### Analysis Results Location Allowed Comb. Analysis Actual Case Capacity Moment 3130 ft-lb 6' 3946 ft-lb 0.793 (79%) D+S L Unbraced 3130 ft-lb 6' 3131 ft-lb 1.000 L (100%)928 lb 10'11 1/4" 2872 lb 0.323 (32%) D+S Shear L 6' 0.289 (L/480) 0.470 (47%) S LL Defl inch 0.135 (L/1022) 1 TL Defl inch 0.271 (L/511) 6' 0.385 (L/360) 0.704 (70%) D+S

### Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 25% 564 / 564 1128 L D+S Vert End Grain 2 - SPF 3.500" 25% 564 / 564 1128 L D+S Vert End Grain

### **Design Notes**

- 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 8'8 11/16" o.c.

7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Top	94 PLF	0 PLF	94 PLF	0 PLF	0 PLF	C1	

Manufacturer Info

Comtech, Inc.
Lot 35 Brianwood Bluff
Broadway, NC
USA
28314
910-864-TRUS



Weaver Development

Hickory II

Date: 5/18/2022

Input by: David Landry

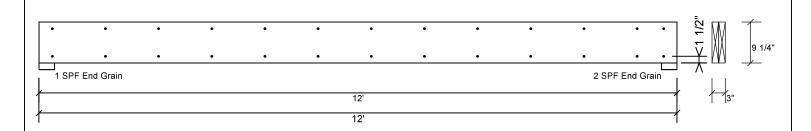
Job Name: Lot 1 Thomas Place

Project #: J0522-2607

Page 6 of 8

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

Level: Level



### Multi-Ply Analysis

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

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

Manufacturer Info

Comtech, Inc., Ld 35 Briarwood Bluff
Broadway, NC
USA
28314
910-864-TRUS

This design is valid until 11/3/2024





Hickory II

Weaver Development

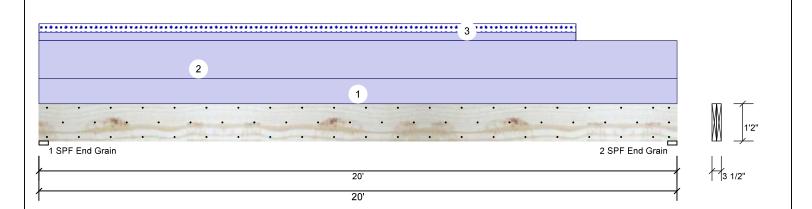
Date: 5/18/2022

David Landry Input by: Job Name: Lot 1 Thomas Place Project #: J0522-2607

Page 7 of 8

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

Level: Level



Member Information					Reactions UNPATTERNED lb (Uplift)							
Туре:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const		
Plies:	2	Design Method:	ASD	1	Vertical	0	1804	196	0	0		
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	1750	141	0	0		
Deflection LL:	480	Load Sharing:	No									
Deflection TL:	360	Deck:	Not Checked									
Importance:	Normal - II	Ceiling:	Gypsum 1/2"									
Temperature:	Temp <= 100°F											
				Bear	rings							

Bearing Length

1 - SPF 3.500"

2 - SPF 3.500"

End Grain

End Grain Dir.

Vert

Vert

Cap. React D/L lb

1804 / 196

1750 / 141

19%

18%

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8592 ft-lb	9'11 11/16"	24299 ft-lb	0.354 (35%)	D	Uniform
Unbraced	9503 ft-lb	9'11 1/2"	9509 ft-lb	0.999 (100%)	D+S	L
Shear	1553 lb	1'5 1/2"	9408 lb	0.165 (17%)	D	Uniform
LL Defl inch	0.041 (L/5726)	9'11 1/16"	0.489 (L/480)	0.084 (8%)	S	L
TL Defl inch	0.430 (L/546)	9'11 7/8"	0.651 (L/360)	0.660 (66%)	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6"
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 11'9 1/16" o.c.

7. Lateral slenderness ratio based on single ply width

/ Lateral siene	cilicas latio basca of	i single ply width.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall	
2	Uniform			Тор	90 PLF	0 PLF	0 PLF	0 PLF	0 PLF	B1GE	
3	Tie-In	0-0-0 to 16-10-0	1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load	
	Self Weight				11 PLF						

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

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

### Handling & Installation

1. UVL 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

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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Manufacturer Info

Comtech, Inc. Lot 35 Briarwood Bluff USA 28314 910-864-TRUS

Total Ld. Case

2000 L

1891 L

Ld. Comb.

D+S

D+S







**GDH** 

Client: Project: Address: Weaver Development

Hickory II

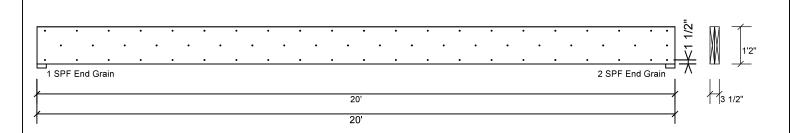
Date: 5/18/2022

Input by: David Landry Job Name: Lot 1 Thomas Place Project #: J0522-2607

Page 8 of 8

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

Level: Level



### Multi-Ply Analysis

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

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

### Notes

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

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

### Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

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

Manufacturer Info

Comtech, Inc. Lot 35 Briarwood Bluff Broadway, NC adway, NC Broadway, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024





RE: J0522-2607

Lot 1 Thomas Place

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Weaver Development Co. Inc. Project Name: J0522-2607 Lot/Block: 1 Model: Hickory II Model: Hickory II

Address: Subdivision: Thomas Place

City: State:

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

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

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

This package includes 8 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16492077	ET1	12/20/2021
2	E16492078	ET2	12/20/2021
3	E16492079	ET3	12/20/2021
4	E16492080	F1	12/20/2021
5	E16492081	F2	12/20/2021
6	E16492082	F3	12/20/2021
7	E16492083	F4	12/20/2021
8	E16492084	F5	12/20/2021

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

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

Truss Design Engineer's Name: Strzyzewski, Marvin

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

North Carolina COA: C-0844

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



December 20, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
					E16492077
J0522-2607	ET1	GABLE	1	1	
					Joh Reference (ontional)

Comtech, Inc,

0\_1\_8

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:32 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-ztld3Ofsex34VCHpSApf8n2cuLiuc12C7yNPbKy74xf

0\_1\_8

Scale: 3/4"=1'

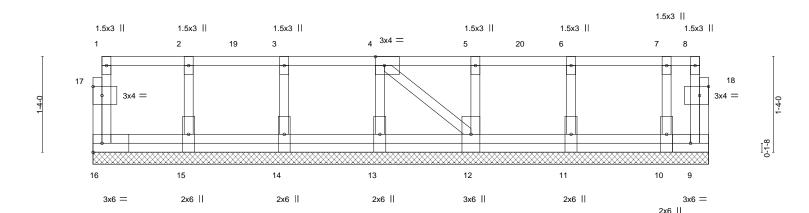


Plate Offse	ts (X,Y)	[4:0-1-8,Edge], [17:0-1-8	,0-1-8], [18:0-	1-8,0-1-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.00	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-P	` '					Weight: 54 lb	FT = 20%F, 11%E

4-0-0

1-4-0

LUMBER-

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

1-4-0

**BOT CHORD** 2x4 SP No.3(flat) WFBS

**OTHERS** 2x4 SP No.3(flat) **BRACING-**

**BOT CHORD** 

1-4-0

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

except end verticals.

1-4-0

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

8-0-0

1-4-0

8-7-0

REACTIONS. All bearings 8-7-0.

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

2-8-0

1-4-0

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

### NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 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.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 9-16=-10, 1-8=-100

Concentrated Loads (lb)

Vert: 4=-71 7=-77 19=-71 20=-71



December 20,2021





Edenton, NC 27932

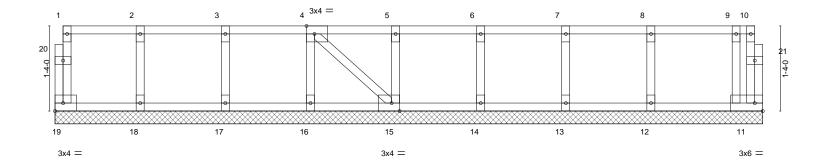
Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
					E16492078
J0522-2607	ET2	GABLE	1	1	
					Joh Reference (ontional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:33 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-R4J?HkgUPEBx7Ms00uKug\_boBl2\_LURLLc7y7my74xe

0,1,8

0<sub>1</sub>1<sub>7</sub>8 Scale = 1:18.0



	1-4-0	1-4-0	1-4-0		1-4-0	<u>'</u>	1-4-0		1-4-0		1-4-0	'	1-4-0	0-5-0
Plate Off	sets (X,Y)	[4:0-1-8,Edge], [15:0-1-8	,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DE	<b>FL.</b> in	(loc)	l/defl	L/d		PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Ve	rt(LL) n/a	-	n/a	999		MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Ve	rt(CT) n/a	-	n/a	999				
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Ho	rz(CT) 0.00	11	n/a	n/a				
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	ix-S							Weight: 54 lb	) FT = 20	0%F, 11%E

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

2x4 SP No.1(flat)

TOP CHORD **BOT CHORD** 

**BRACING-**

6-8-0

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

except end verticals.

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

REACTIONS. All bearings 11-1-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 18, 17, 16, 15, 14, 13, 12

4-0-0

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

### NOTES-

LUMBER-

TOP CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.

2-8-0

- 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.



10-8-0

11-1-0

December 20,2021





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

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

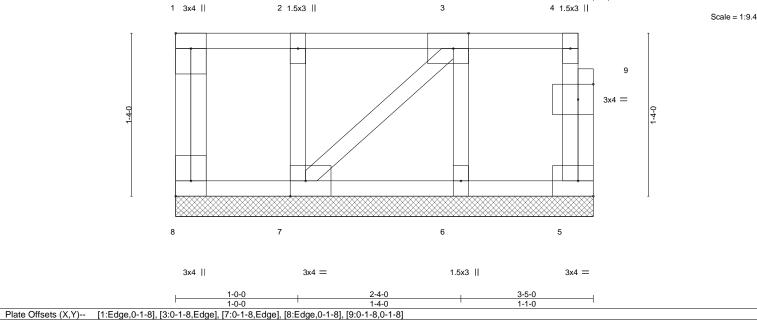
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 1 Thomas Place E16492079 J0522-2607 ЕТ3 **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:33 2021 Page 1 Comtech, Inc. ID:1yUksKymplk2404ufZYCrxyoKUD-R4J?HkgUPEBx7Ms00uKug\_boNl24LUWLLc7y7my74xe 0-1-8



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-P						Weight: 22 lb	FT = 20%F, 11%E

**BRACING-**TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat)

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

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

REACTIONS. All bearings 3-5-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

### NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 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.



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

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

except end verticals.

December 20,2021





Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
					E16492080
J0522-2607	F1	Floor	4	1	
					Job Reference (optional)

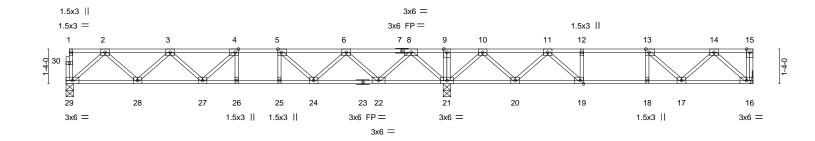
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:34 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-vGtNU4g6AYJokWRCabr7DC8rM9CS4rLUaGsWfCy74xd

0-1-8

2-4-12

0-1-8 Scale = 1:44.3



			14-7-12			'			11	-9-4	<u>'</u>
Plate Off	fsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,E	Edge], [13:0-1	-8,Edge], [19:	0-1-8,Edge]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.10 26-27	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.13 26-27	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03 16	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matrix	k-S					Weight: 136 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

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

BOT CHORD WFBS 2x4 SP No.3(flat) **BRACING-**

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

26-5-0

except end verticals.

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

REACTIONS.

(size) 29=0-3-8, 16=Mechanical, 21=0-3-8

Max Grav 29=727(LC 10), 16=1063(LC 4), 21=1671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 15-16=-537/0, 2-3=-1257/0, 3-4=-1883/0, 4-5=-2002/0, 5-6=-1658/0, 6-8=-756/225,

8-9=0/1401, 9-10=0/1401, 10-11=-468/367, 11-12=-1158/0, 12-13=-1158/0,

14-7-12

13-14=-884/0

**BOT CHORD** 28-29=0/771, 27-28=0/1717, 26-27=0/2002, 25-26=0/2002, 24-25=0/2002,

 $22-24=-34/1340,\ 21-22=-444/147,\ 20-21=-637/19,\ 19-20=-175/900,\ 18-19=0/1158,$ 

17-18=0/1158, 16-17=0/586

WEBS 2-29=-1023/0, 2-28=0/677, 3-28=-640/0, 8-21=-1289/0, 14-16=-780/0, 14-17=0/415,

13-17=-372/90, 10-21=-1064/0, 8-22=0/923, 6-22=-882/0, 6-24=0/527, 5-24=-633/0,

10-20=0/687, 11-20=-690/0, 11-19=0/582, 12-19=-278/0

### 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.

### LOAD CASE(S) Standard

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

Vert: 16-29=-10, 1-15=-100

Concentrated Loads (lb) Vert: 15=-500

BELLELYDING

December 20,2021



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

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

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



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
J0522-2607	F2	Floor	5	1	E16492081
	-				Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:35 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-NSRliPhkxsRfMg0O7JMMmPg20YcQpL7epwc3Cfy74xc

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

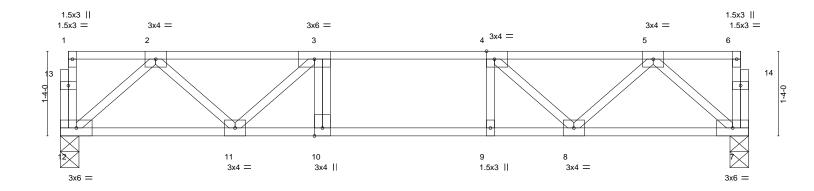
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8



 $0_{1}1_{1}8$ Scale = 1:18.1



I	10-10-0	1
	10-10-0	
Plate Offsets (X Y) [4:0-1-8 Edge]		

Flate Oil	SelS (A, I )	[4.0-1-0,Euge]		
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 0.36	Vert(LL) -0.07 10 >999 480 MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.46	Vert(CT) -0.09 10 >999 360
BCLL	0.0	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.01 7 n/a n/a
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 57 lb FT = 20%F, 11%E

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 12=0-3-8, 7=0-3-8

Max Grav 12=576(LC 1), 7=576(LC 1)

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

2-3=-923/0, 3-4=-1242/0, 4-5=-925/0 TOP CHORD

**BOT CHORD** 11-12=0/606, 10-11=0/1242, 9-10=0/1242, 8-9=0/1242, 7-8=0/603 **WEBS** 2-12=-805/0, 2-11=0/441, 3-11=-469/0, 5-7=-800/0, 5-8=0/449, 4-8=-475/0

### NOTES-

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



December 20,2021





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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
			_		E16492082
J0522-2607	F3	Floor	5	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:36 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-sf?7vliMi9ZW\_qbbh0tbIdD90yvzYnZn2aLck5y74xb

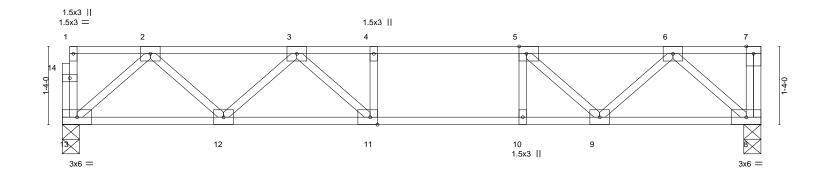
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8





1	11-11-0	ı
	11-11-0	1
Plate Offsets (X,Y)	[5:0-1-8,Edge], [11:0-1-8,Edge]	

LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.13 11-12 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.16 11-12 >894 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.02 8 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 62 lb FT = 20%F, 11%E

**BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD

WFBS 2x4 SP No.3(flat)

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

Max Grav 13=635(LC 1), 8=1142(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 7-8=-548/0, 2-3=-1060/0, 3-4=-1495/0, 4-5=-1495/0, 5-6=-1059/0 TOP CHORD 12-13=0/676, 11-12=0/1395, 10-11=0/1495, 9-10=0/1495, 8-9=0/659 **BOT CHORD WEBS** 

2-13=-898/0, 2-12=0/534, 3-12=-466/0, 3-11=-19/356, 6-8=-877/0, 6-9=0/557,

5-9=-616/0

### 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

### LOAD CASE(S) Standard

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

Vert: 8-13=-10, 1-7=-100

Concentrated Loads (lb) Vert: 7=-500



December 20,2021





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
J0522-2607	F4	Floor	7	1	E16492083
00022 2007		. 1001	ļ'		Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:36 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-sf?7vliMi9ZW\_qbbh0tbldD9fyteYmHn2aLck5y74xb

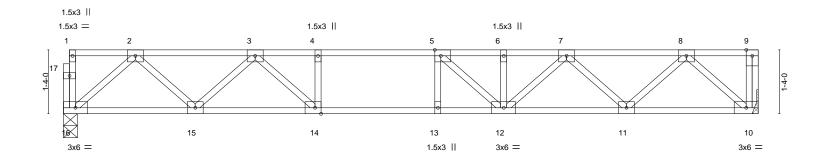
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale: 1/2"=1'



			14 0 0				
Plate Offsets (X,Y) [5:0-1-8,Edge], [14:0-1-8,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL 40.0	Plate Grip DOL 1.00	TC 0.62	Vert(LL) -0.17 12-13 >999 480	MT20 244/190			
TCDL 10.0	Lumber DOL 1.00	BC 0.78	Vert(CT) -0.22 12-13 >790 360				
BCLL 0.0	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.03 10 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 76 lb FT = 20%F, 11%E			

**BRACING-**TOP CHORD

BOT CHORD

14-6-0

LUMBER-

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

WFBS 2x4 SP No.3(flat)

**BOT CHORD** 

REACTIONS. (size) 16=0-3-8, 10=Mechanical Max Grav 16=778(LC 1), 10=784(LC 1)

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

2-3=-1348/0, 3-4=-2244/0, 4-5=-2244/0, 5-6=-2152/0, 6-7=-2152/0, 7-8=-1359/0 TOP CHORD **BOT CHORD** 15-16=0/834, 14-15=0/1856, 13-14=0/2244, 12-13=0/2244, 11-12=0/1857, 10-11=0/835 **WEBS** 2-16=-1109/0, 2-15=0/714, 3-15=-707/0, 3-14=0/697, 4-14=-339/0, 8-10=-1111/0,

8-11=0/729, 7-11=-693/0, 7-12=0/401, 5-12=-438/123

### 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.



December 20,2021





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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type	Qty	Ply	Lot 1 Thomas Place
					E16492084
J0522-2607	F5	Floor	7	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0

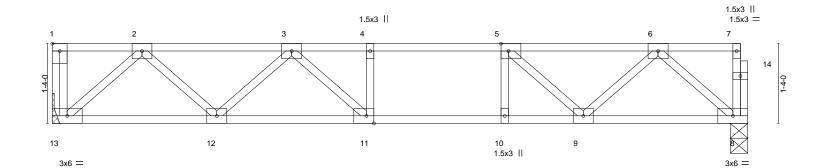
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Dec 20 11:23:37 2021 Page 1 ID:1yUksKymplk2404ufZYCrxyoKUD-KrZW65j\_TThNczAnFkOrrqmNBMHHHF2xGE5AGXy74xa 0<sub>1</sub>1<sub>7</sub>8

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 = 1:19.3



II.		11-7	-8		1
l		11-7	-8		_
Plate Offsets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,Edge], [11:0-1-8	,Edge]			

LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00	CSI. TC 0.44 BC 0.56	DEFL. in (loc) I/defl L/d Vert(LL) -0.10 11-12 >999 480 Vert(CT) -0.13 11-12 >999 360	PLATES         GRIP           MT20         244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.25 Matrix-S	Horz(CT) 0.02 8 n/a n/a	Weight: 61 lb FT = 20%F, 11%E

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

**BOT CHORD** 

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 13=Mechanical, 8=0-3-8 Max Grav 13=626(LC 1), 8=619(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1025/0, 3-4=-1427/0, 4-5=-1427/0, 5-6=-1022/0 TOP CHORD

**BOT CHORD** 12-13=0/658, 11-12=0/1345, 10-11=0/1427, 9-10=0/1427, 8-9=0/644

**WEBS** 

2-13=-876/0, 2-12=0/510, 3-12=-446/0, 3-11=-41/323, 6-8=-854/0, 6-9=0/526, 5-9=-570/0

### 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.



December 20,2021





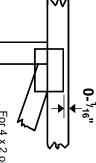
818 Soundside Road Edenton, NC 27932

## Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE

4 × 4

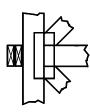
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



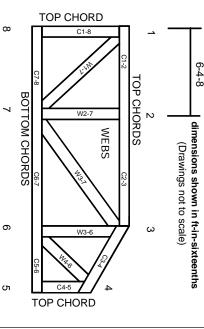
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

## Industry Standards:

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

ANSI/TPI1: DSB-89:

# **Numbering System**



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

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

## PRODUCT CODE APPROVALS

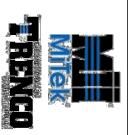
ICC-ES Reports:

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

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

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

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

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

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

4.

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

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.

3

- 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.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.