



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

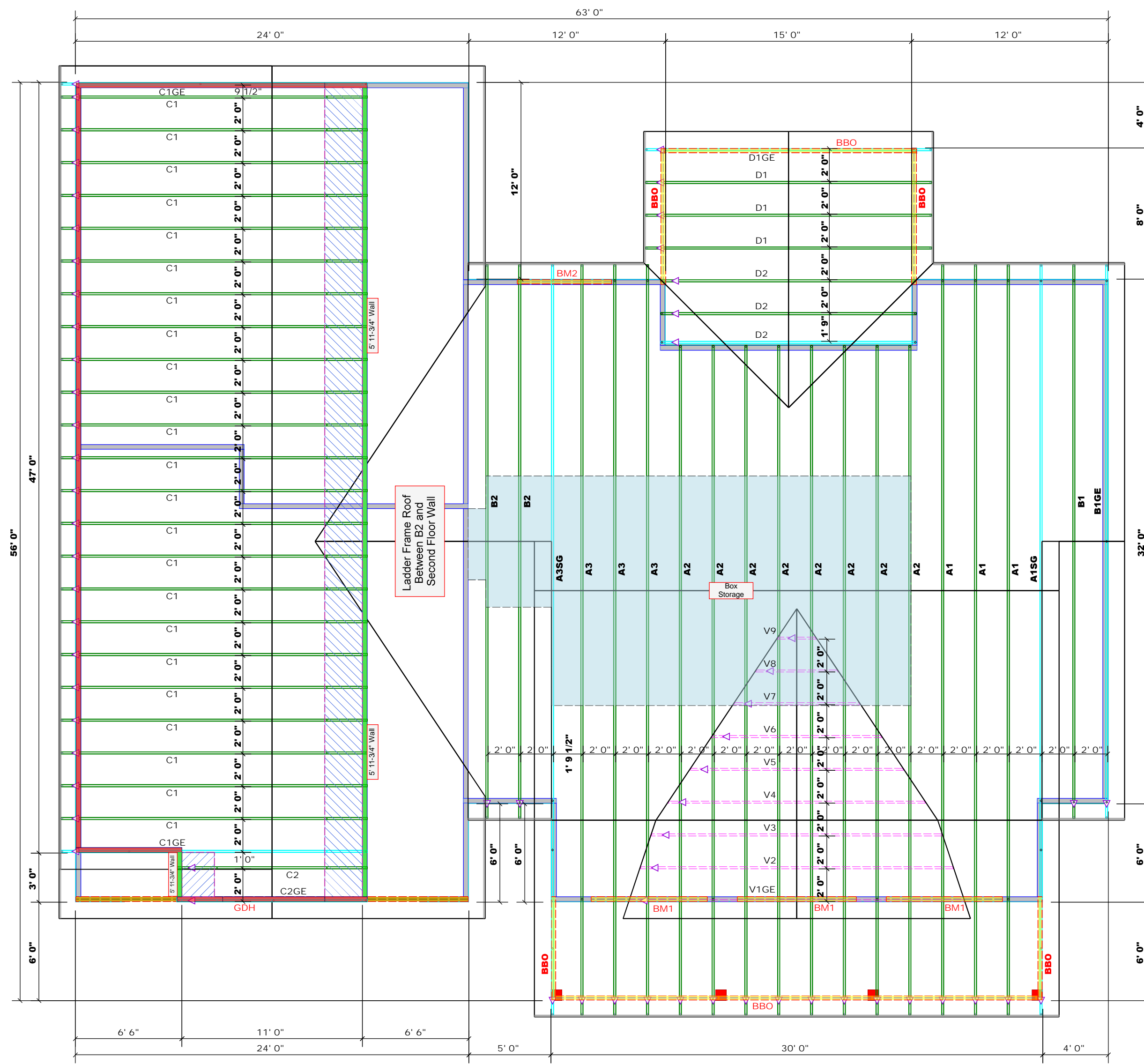
Signature **David Landry**

**David Landry**

**LOAD CHART FOR JACK STUDS**

(BASED ON TABLES MODEL: S 103)

REACTION (LBS)	NUMBER OF JACK STUDS REQUIRED PER END OF HEADPOST/BEAM	REACTING SURFACE	
		1" x 4" STUDS PER END	2" x 4" STUDS PER END
1700	1	2550	3400
3400	2	5100	6800
5100	3	7650	10200
6800	4	10200	13600
8500	5	12750	17000
10200	6	15300	
11900	7		
13600	8		
15300	9		



Products				
PlotID	Length	Product	Plies	Net Qty
BM1	8' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	6
BM2	6' 0"	2x10 SP No.1	2	2
GDH	24' 0"	1-3/4"x 16" LVL Kerto-S	2	2

**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

**1 Truss Placement Plan**  
Scale: 3/16"=1'

Roof Area = 4288.08 sq.ft.  
Ridge Line = 120.29 ft.  
Hip Line = 0 ft.  
Horiz. OH = 272.16 ft.  
Raked OH = 267.73 ft.  
Decking = 147 sheets

Hatch Legend	
	5' 11-3/4" Walls
	Second Floor Walls
	Vaulted Ceiling
	Box Storage
	Drop Beam

All Walls Shown Are Considered Load Bearing

= Indicates Left End of Truss  
( Reference Engineered Truss Drawing )  
Do NOT Erect Truss Backwards

BUILDER	Glover Design Build	CITY / CO.	Fuquay Varina / Harnett
JOB NAME	Lot 43 Purfoy Place	ADDRESS	193 Lambert Lane
PLAN	Paxton	MODEL	Roof
SEAL DATE	N/A	DATE REV.	01/31/22
QUOTE #		DRAWN BY	Jonathan Landry
JOB #	J1121-6629	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 @ sbindustry.com



RE: J1121-6629  
Lot 43 Purfoy Place

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: Glover Design Build Project Name: J1121-6629  
Lot/Block: 43 Model: Paxton  
Address: 193 Lambert Lane Subdivision: Purfoy  
City: Fuquay Varina State: NC

**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: 150 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I49950837	A1	1/30/2022	21	I49950857	V6	1/30/2022
2	I49950838	A1SG	1/30/2022	22	I49950858	V7	1/30/2022
3	I49950839	A2	1/30/2022	23	I49950859	V8	1/30/2022
4	I49950840	A3	1/30/2022	24	I49950860	V9	1/30/2022
5	I49950841	A3SG	1/30/2022				
6	I49950842	B1	1/30/2022				
7	I49950843	B1GE	1/30/2022				
8	I49950844	B2	1/30/2022				
9	I49950845	C1	1/30/2022				
10	I49950846	C1GE	1/30/2022				
11	I49950847	C2	1/30/2022				
12	I49950848	C2GE	1/30/2022				
13	I49950849	D1	1/30/2022				
14	I49950850	D1GE	1/30/2022				
15	I49950851	D2	1/30/2022				
16	I49950852	V1GE	1/30/2022				
17	I49950853	V2	1/30/2022				
18	I49950854	V3	1/30/2022				
19	I49950855	V4	1/30/2022				
20	I49950856	V5	1/30/2022				

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

Truss Design Engineer's Name: Gilbert, Eric

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.



January 30, 2022

Job	Truss	Truss Type	Qty	Ply	Lot 43 Purfoy Place	I49950837
J1121-6629	A1	ROOF SPECIAL	3	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:22 2022 Page 1

0-11-0	6-1-12	10-11-8	14-11-8	24-11-8	34-11-8	43-11-0	44-10-0
0-11-0	6-1-12	4-9-12	4-0-0	10-0-0	10-0-0	8-11-8	0-11-0

Scale: 1/8"=1'

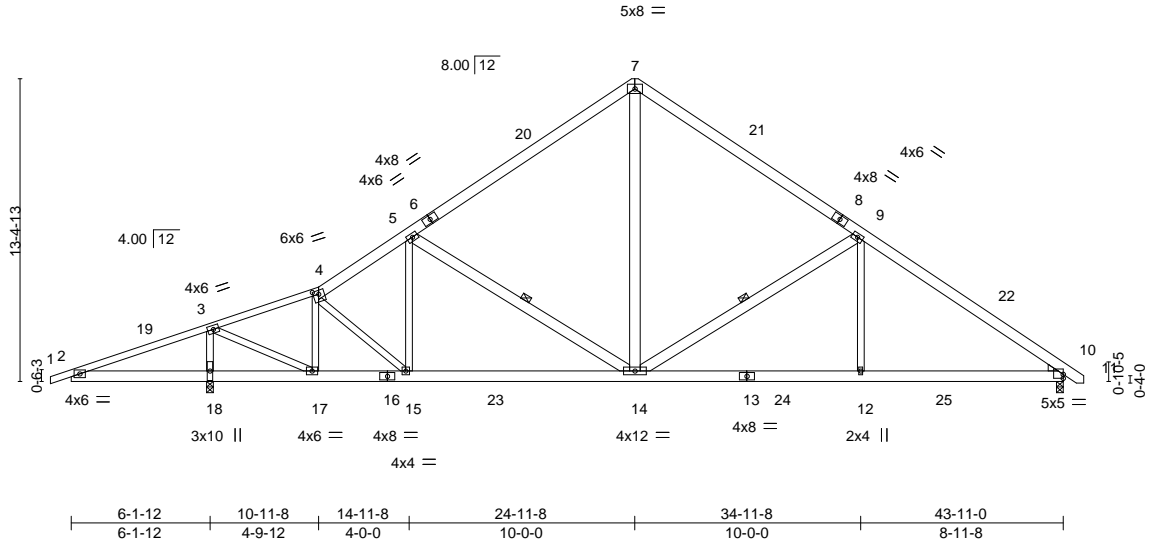


Plate Offsets (X,Y) -- [4:0-3-0,0-2-0], [10:0-0-0,0-2-2]

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 0.44	Vert(LL)	-0.09 14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.18 14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06 14-15	>999	240	Weight: 340 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
 1-4: 2x4 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 5-14,7-14,9-14: 2x6 SP No.1

**WEDGE**

Right: 2x4 SP No.3

**REACTIONS.**

(size) 18=0-3-8, 10=0-3-8  
 Max Horz 18=428(LC 11)  
 Max Uplift 18=-407(LC 12), 10=-272(LC 13)  
 Max Grav 18=2101(LC 1), 10=1733(LC 20)

**FORCES.**

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

TOP CHORD 2-3=-993/771, 3-4=-1648/236, 4-5=-2093/516, 5-7=-1694/600, 7-9=-1703/632,  
 9-10=-2472/691  
 BOT CHORD 2-18=-665/1011, 17-18=-750/1002, 15-17=-271/1780, 14-15=-293/1966, 12-14=-367/1889,  
 10-12=-367/1889  
 WEBS 3-18=-1873/993, 3-17=-928/2057, 4-17=-931/512, 4-15=-355/335, 5-15=-30/319,  
 5-14=-817/332, 7-14=-275/1180, 9-14=-1075/475, 9-12=0/583

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=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 24-11-8, Exterior(2) 24-11-8 to 29-4-5, Interior(1) 29-4-5 to 44-8-1 zone; cantilever left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=407, 10=272.



January 30, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSII/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



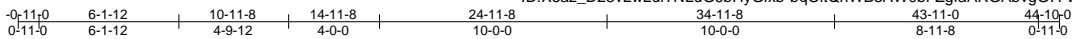
818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss A1SG	Truss Type GABLE	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	149950838
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:24 2022 Page 1

ID:X5az\_D23vLwLuITNLuG6bHyGfxb-bqQitQhWB3AWObFZgfaARGAvbgG7PbN5i9usZUzqtP



5x8 ||

Scale: 1/8"=1'

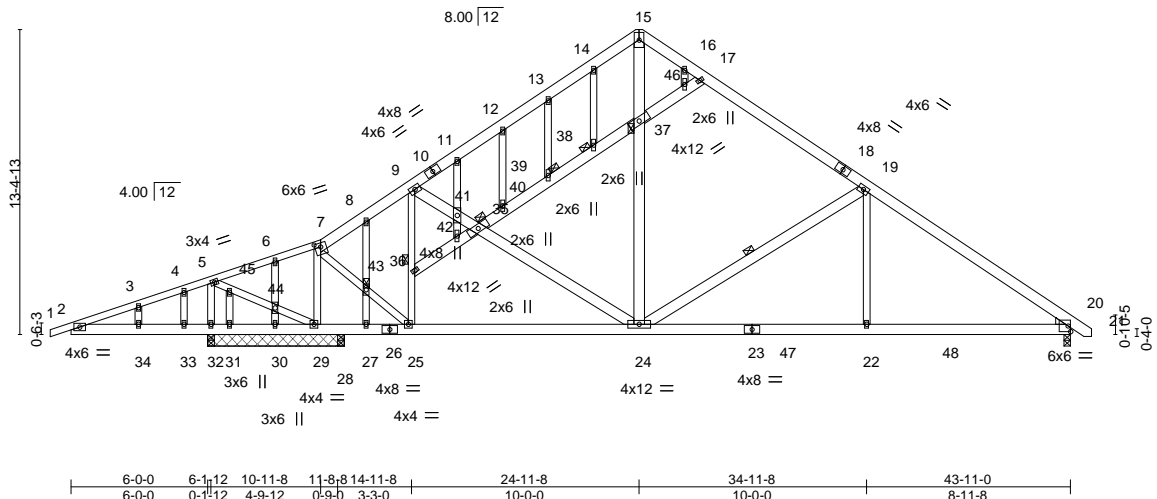


Plate Offsets (X,Y)-- [7:0-3-0,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.06 22-24 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.12 22-24 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 20 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 20-22 >999 240	Weight: 412 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
1-7: 2x4 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
5-32,5-29,7-29,7-25,9-25,19-22: 2x4 SP No.2  
OTHERS 2x4 SP No.2  
WEDGE  
Right: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:  
10-0-0 oc bracing: 24-25,22-24,20-22.  
WEBS 1 Row at midpt 19-24  
JOINTS 1 Brace at Jt(s): 35, 36, 37, 38, 39, 43

**REACTIONS.**

All bearings 6-0-0 except (jt=length) 20=0-3-8, 28=0-3-8.  
(lb) - Max Horz 32=553(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) except 32=-1265(LC 8), 29=-345(LC 12), 20=-514(LC 13), 30=-176(LC 8), 31=-544(LC 23), 28=-185(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) except 32=1193(LC 23), 32=1137(LC 1), 29=1059(LC 19), 20=1516(LC 20), 30=313(LC 1), 31=571(LC 8), 28=464(LC 19)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-962/724, 3-4=-902/722, 4-5=-861/715, 5-6=-386/467, 6-7=-328/445, 7-8=-784/348, 8-9=-883/352, 9-11=-1162/483, 11-12=-1143/486, 12-13=-1218/580, 13-14=-1265/646, 14-15=-1197/626, 15-16=-1159/597, 16-17=-1241/635, 17-19=-1323/633, 19-20=-2071/749  
BOT CHORD 2-34=-660/960, 33-34=-660/960, 32-33=-660/960, 31-32=-780/932, 30-31=-780/932, 29-30=-780/932, 28-29=-571/492, 27-28=-571/492, 25-27=-571/492, 24-25=-253/853, 22-24=-404/1545, 20-22=-404/1545  
WEBS 5-32=-390/502, 5-45=-489/331, 44-45=-488/332, 29-44=-501/340, 7-29=-1456/714, 7-43=-603/1314, 25-43=-577/1263, 25-36=-704/516, 9-36=-574/418, 9-41=-5/345, 35-41=-63/423, 24-35=-149/387, 24-37=-240/736, 15-37=-266/760, 19-24=-1050/585, 19-22=0/594, 8-43=-262/69

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



January 30, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 43 Purfoy Place	I49950838
J1121-6629	A1SG	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:24 2022 Page 2  
 ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-bqOitQhWB3AW0bFZgfaARGAbvgG7PbN5i9usZUzqtP

**NOTES-**

- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1265 lb uplift at joint 32, 345 lb uplift at joint 29, 514 lb uplift at joint 20, 176 lb uplift at joint 30, 544 lb uplift at joint 31 and 185 lb uplift at joint 28.

**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



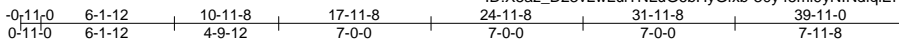
818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss A2	Truss Type ROOF SPECIAL	Qty 8	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	149950839
-------------------	-------------	----------------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:25 2022 Page 1

ID: X5az\_D23vLwLuITNLuG6bHyGfxb-30y45mi9yNINdlqEN5P\_Ujh43Wp8z9ExpdP5xztbO



5x8 =

Scale = 1:99.8

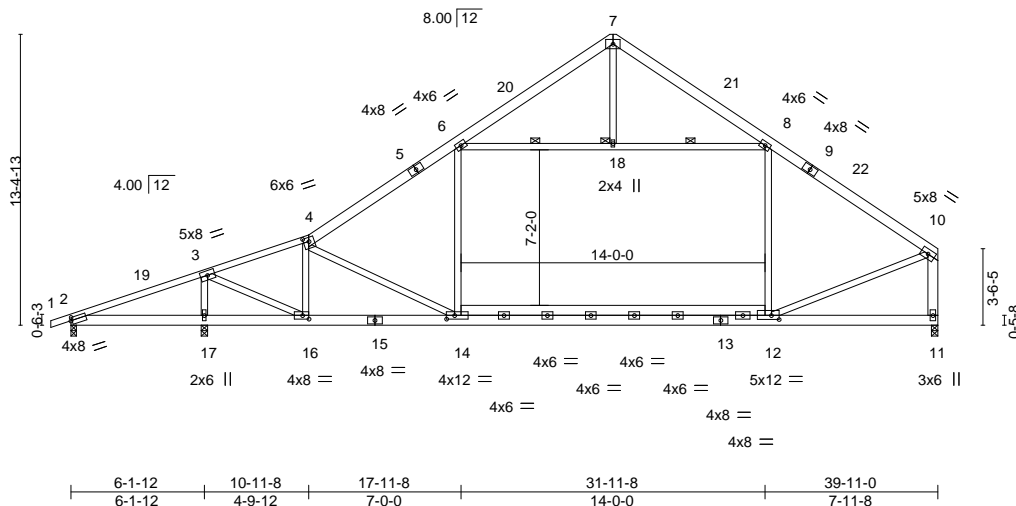


Plate Offsets (X,Y)-- [2:0-0-11,0-1-12], [4:0-3-0,0-2-4], [12:0-4-4,0-2-4], [14:0-4-8,0-2-0], [16:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.82	Vert(LL) -0.30 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.44 12-14 >910 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.24 14-16 >999 240	Weight: 322 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
1-4: 2x4 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
10-11: 2x6 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 4-10-7 oc bracing.  
WEBS 1 Row at midpt 6-18, 8-18  
JOINTS 1 Brace at Jt(s): 18

**REACTIONS.**

(size) 2=0-3-0, 17=0-3-8, 11=0-3-8  
Max Horz 2=421(LC 9)  
Max Uplift 2=834(LC 19), 17=721(LC 12), 11=234(LC 13)  
Max Grav 2=422(LC 9), 17=2770(LC 19), 11=1538(LC 20)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1313/2824, 3-4=-1257/602, 4-6=-1786/505, 6-7=-501/288, 7-8=-522/295,  
8-10=-1602/486, 10-11=-1549/494  
BOT CHORD 2-17=-2427/840, 16-17=-2427/840, 14-16=-271/953, 12-14=-262/1230  
WEBS 3-17=-2534/808, 3-16=-751/3147, 4-16=-1295/372, 4-14=-269/859, 6-14=-171/462,  
8-12=-83/385, 10-12=-244/1365, 6-18=-1064/440, 8-18=-1064/440

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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 24-11-8, Exterior(2) 24-11-8 to 29-4-5, Interior(1) 29-4-5 to 39-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 834 lb uplift at joint 2, 721 lb uplift at joint 17 and 234 lb uplift at joint 11.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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



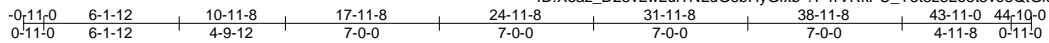
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 43 Purfoy Place	I49950840
J1121-6629	A3	ROOF SPECIAL	3	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:27 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-?P4rVRkPU\_Y5t3z8Lo8t3vo5QtGivHXO76WApzqbM



Scale = 1:98.5

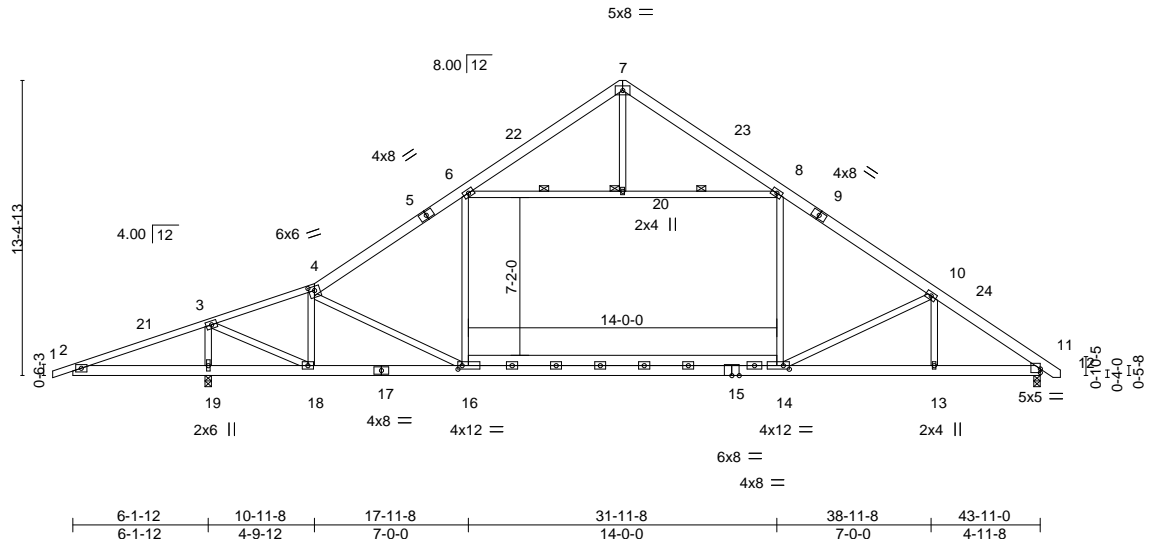


Plate Offsets (X,Y)-- [4:0-3-0,0-2-4], [11:0-0-0,0-2-2], [14:0-3-4,0-2-0], [16:0-2-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.36	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.46	13-14	>974	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.04	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.44	13-14	>999	240	Weight: 343 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
1-4: 2x4 SP No.1  
BOT CHORD 2x6 SP 2400F 2.0E  
WEBS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 6-20, 8-20  
JOINTS 1 Brace at Jt(s): 20

**REACTIONS.**

(size) 19=0-3-8, 11=0-3-8  
Max Horz 19=428(LC 11)  
Max Uplift 19=-407(LC 12), 11=-272(LC 13)  
Max Grav 19=2157(LC 2), 11=1764(LC 20)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-566/781, 3-4=-1706/473, 4-6=-2312/660, 6-7=-558/312, 7-8=-538/305,  
8-10=-2338/714, 10-11=-2650/763  
BOT CHORD 2-19=-675/613, 18-19=-712/604, 16-18=-305/1867, 14-16=-259/1938, 13-14=-487/2047,  
11-13=-487/2047  
WEBS 3-19=-1875/833, 3-18=-760/2197, 4-18=-1166/467, 4-16=-281/501, 10-14=-540/402,  
8-14=0/721, 6-16=0/671, 6-20=-1539/583, 8-20=-1539/583, 10-13=-154/305

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=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 24-11-8, Exterior(2) 24-11-8 to 29-4-5, Interior(1) 29-4-5 to 44-8-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 407 lb uplift at joint 19 and 272 lb uplift at joint 11.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 ANSIP/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 J1121-6629	Truss A3SG	Truss Type GABLE	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950841
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:29 2022 Page 1

0-11-0 6-1-12 10-11-8 17-11-8 24-11-8 31-11-8 38-11-8 43-11-0 44-10-0  
 0-11-0 6-1-12 4-9-12 7-0-0 7-0-0 7-0-0 7-0-0 4-11-8 0-11-0

5x8 =

Scale = 1:101.5

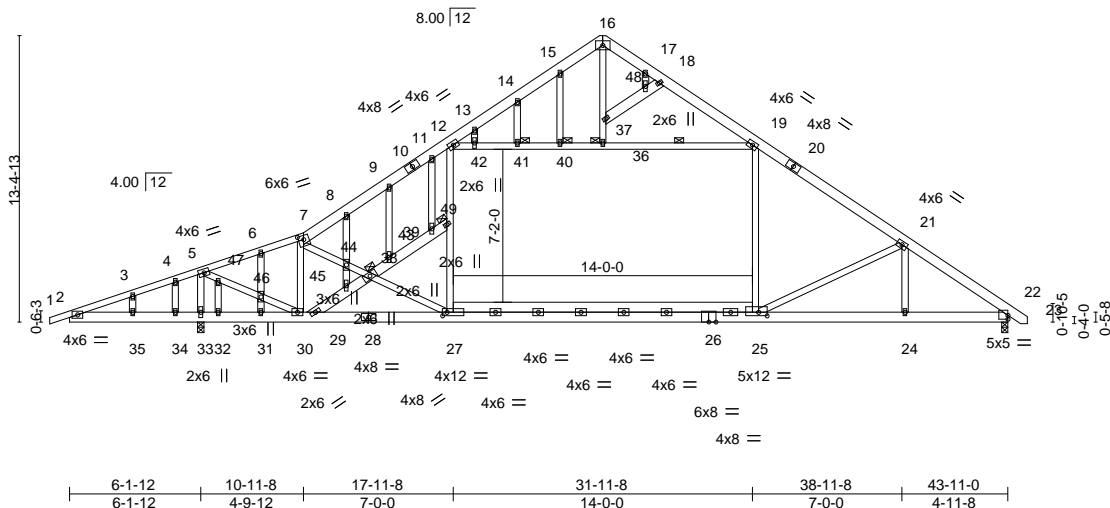


Plate Offsets (X,Y)-- [7:0-3-0,0-2-4], [22:0-0-0,0-2-2], [25:0-4-12,0-2-0], [27:0-2-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) 0.50 24-25 >897 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Vert(CT) -0.40 25-27 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 22 n/a n/a		
	Code IRC2015/TPI2014			Weight: 403 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 1-7: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 19-36
OTHERS 18-37,38-39,29-38: 2x6 SP No.1 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 36, 38, 39, 40, 41

**REACTIONS.** (size) 33=0-3-8, 22=0-3-8  
 Max Horz 33=553(LC 11)  
 Max Uplift 33=-834(LC 12), 22=-564(LC 13)  
 Max Grav 33=2157(LC 2), 22=1769(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-990/716, 3-4=-925/715, 4-5=-893/704, 5-6=-1846/453, 6-7=-1806/503,  
 7-8=-2319/707, 8-9=-2325/765, 9-11=-2243/827, 11-12=-2007/716, 12-13=-734/393,  
 13-14=-506/300, 14-15=-516/339, 15-16=-506/361, 16-17=-501/351, 17-18=-533/374,  
 18-19=-614/375, 19-21=-2345/812, 21-22=-2640/941  
 BOT CHORD 2-35=-652/986, 34-35=-652/986, 33-34=-652/986, 32-33=-714/947, 31-32=-714/947,  
 30-31=-714/947, 29-30=-606/2052, 27-29=-809/2250, 25-27=-382/1987, 24-25=-643/2052,  
 22-24=-643/2052  
 WEBS 5-33=-1608/899, 5-47=-1035/2121, 46-47=-1071/2145, 30-46=-1082/2181,  
 7-30=-1163/508, 7-44=-496/551, 38-44=-477/523, 27-38=-673/610, 21-25=-600/566,  
 19-25=-12/740, 27-39=0/666, 12-39=-53/591, 12-42=-1564/682, 41-42=-1521/664,  
 40-41=-1521/664, 36-40=-1521/664, 19-36=-1466/592, 29-45=-278/274, 13-42=-222/404,  
 21-24=-190/307, 11-49=-279/398

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 834 lb uplift at joint 33 and 564 lb uplift at joint 22.



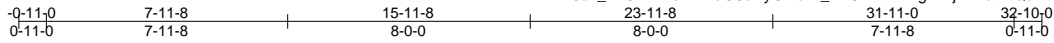
January 30, 2022



Job J1121-6629	Truss B1	Truss Type COMMON	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950842
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:30 2022 Page 1



5x5 =

Scale = 1:71.5

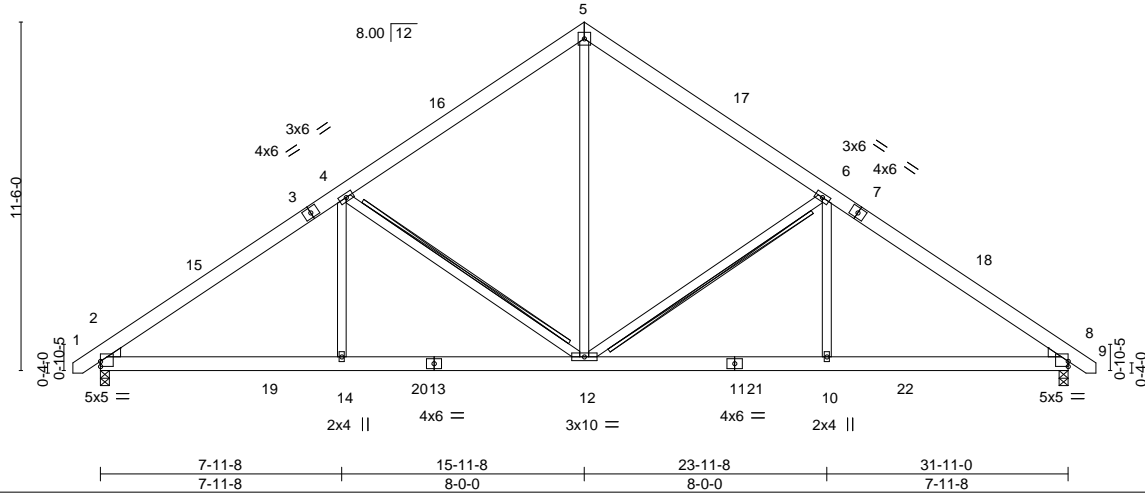


Plate Offsets (X,Y)-- [2:0-0-0,0-2-2], [8:0-0-0,0-2-2]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.05 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Vert(CT) -0.10 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 2-14 >999 240	Weight: 230 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS T-Brace: 2x4 SPF No.2 - 6-12, 4-12  
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
Brace must cover 90% of web length.

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8  
Max Horz 2=356(LC 11)  
Max Uplift 2=233(LC 12), 8=233(LC 13)  
Max Grav 2=1472(LC 19), 8=1472(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=2046/647, 4-5=1483/609, 5-6=1483/609, 6-8=2047/647  
BOT CHORD 2-14=345/1807, 12-14=345/1807, 10-12=348/1560, 8-10=348/1560  
WEBS 5-12=342/1092, 6-12=832/389, 6-10=0/444, 4-12=831/389, 4-14=0/444

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 32-8-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2 and 233 lb uplift at joint 8.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

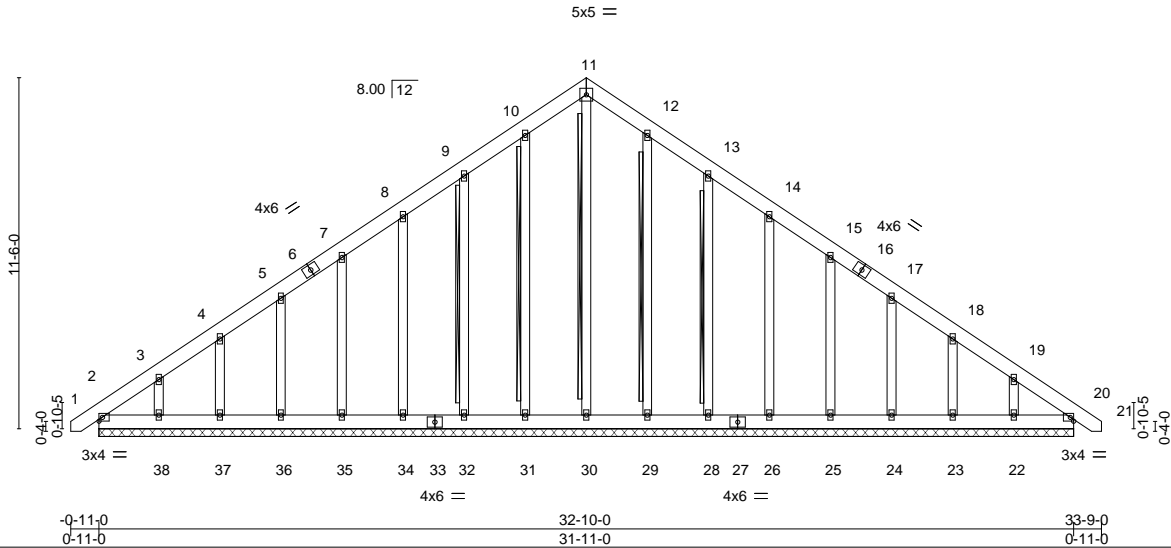
Job J1121-6629	Truss B1GE	Truss Type GABLE	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950843
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:32 2022 Page 1

-0-11-0 16-10-8 32-10-0 33-9-0  
0-11-0 15-11-8 15-11-8 0-11-0

Scale = 1:71.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 20 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(CT) 0.00 20 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 20 n/a n/a		
	Code IRC2015/TPI2014			Weight: 295 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
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.  
WEBS T-Brace: 2x4 SPF No.2 - 11-30, 10-31, 9-32, 12-29, 13-28  
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
Brace must cover 90% of web length.

**REACTIONS.**

All bearings 31-11-0.  
(lb) - Max Horz 2=445(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 20, 30, 31, 29 except 2=-150(LC 8), 32=-148(LC 12), 34=-133(LC 12), 35=-131(LC 12), 36=-132(LC 12), 37=-132(LC 12), 38=-212(LC 12), 28=-153(LC 13), 26=-133(LC 13), 25=-131(LC 13), 24=-132(LC 13), 23=-131(LC 13), 22=-198(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 20, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22 except 2=257(LC 9), 30=285(LC 13)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-489/359, 3-4=-339/289, 4-5=-278/252, 8-9=-200/281, 9-10=-288/346, 10-11=-334/381, 11-12=-334/381, 12-13=-288/321, 19-20=-383/255  
BOT CHORD 2-38=-224/347, 37-38=-224/347, 36-37=-224/347, 35-36=-224/347, 34-35=-224/347, 32-34=-224/347, 31-32=-224/347, 30-31=-224/347, 29-30=-224/347, 28-29=-224/347, 26-28=-224/347, 25-26=-224/347, 24-25=-224/347, 23-24=-224/347, 22-23=-224/347, 20-22=-224/347  
WEBS 11-30=-261/174

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 30, 31, 29 except (jt=lb) 2=150, 32=148, 34=133, 35=131, 36=132, 37=132, 38=212, 28=153, 26=133, 25=131, 24=132, 23=131, 22=198.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



January 30, 2022

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 43 Purfoy Place	I49950843
J1121-6629	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:33 2022 Page 2  
 ID:X5az\_D23vLwLuiTNLU66bHyGfb-qZR6mVoA3qJFb\_Rli2FHIA2CSIR00jtQn3ZqNTzqtG

**NOTES-**

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

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 J1121-6629	Truss B2	Truss Type COMMON	Qty 2	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950844
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

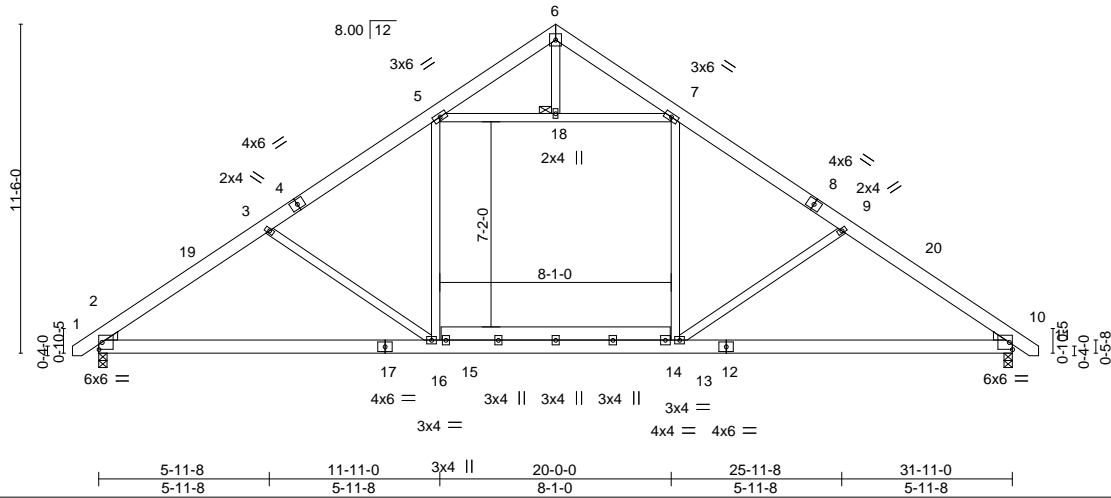
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:34 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfb-II?Uzrpoq8R5C8UGmmWrNblPigVl6mZ?jOvwzqtbF

-0-11-0	5-11-8	11-11-0	15-11-8	20-0-0	25-11-8	31-11-0	32-10-0
0-11-0	5-11-8	5-11-8	4-0-8	4-0-8	5-11-8	5-11-8	0-11-0

5x5 =

Scale = 1:75.8



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.23 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.33 10-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.27 2-16 >999 240	Weight: 250 lb	FT = 20%

**LUMBER-**

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

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 18

**REACTIONS.**

(size) 2=0-3-8, 10=0-3-8  
 Max Horz 2=356(LC 11)  
 Max Uplift 2=233(LC 12), 10=233(LC 13)  
 Max Grav 2=1429(LC 19), 10=1429(LC 20)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1954/687, 3-5=-1746/626, 5-6=-384/200, 6-7=-384/200, 7-9=-1746/626, 9-10=-1954/687  
 BOT CHORD 2-16=-411/1764, 13-16=-165/1455, 10-13=-408/1498  
 WEBS 9-13=-436/310, 3-16=-436/310, 7-13=-56/536, 5-16=-56/536, 5-18=-1315/526, 7-18=-1315/526

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 15-11-8, Exterior(2) 15-11-8 to 20-1-12, Interior(1) 20-1-12 to 32-8-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=233, 10=233.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 30, 2022

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

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



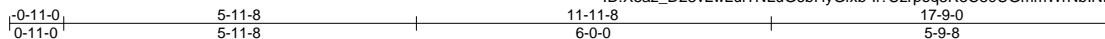
818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss C1	Truss Type ROOF SPECIAL	Qty 23	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950845
-------------------	-------------	----------------------------	-----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:34 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-Il7Uzrpoq8R5C80UGmmWrNblNijal69Z?jOvwzqtbf



Scale = 1:36.7

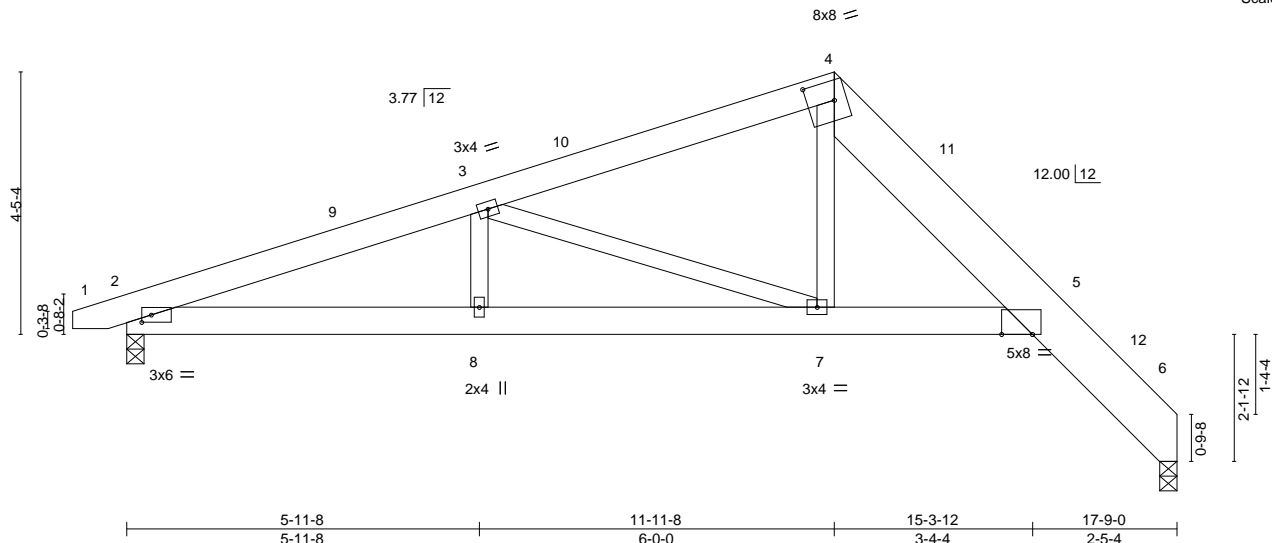


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [4:0-5-8,0-4-0], [5:0-6-4,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) -0.05 5-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.10 5-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.09 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 5-7 >999 240	Weight: 118 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
4-6: 2x10 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 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.**

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=166(LC 11)  
Max Uplift 2=189(LC 8), 6=108(LC 8)  
Max Grav 2=746(LC 1), 6=711(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=1503/605, 3-4=857/407, 4-5=926/397, 5-6=451/249  
BOT CHORD 2-8=396/1365, 7-8=396/1365, 5-7=104/761  
WEBS 3-7=650/307, 4-7=85/424

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-6 to 3-9-6, Interior(1) 3-9-6 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 17-7-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189, 6=108.



January 30, 2022

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

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



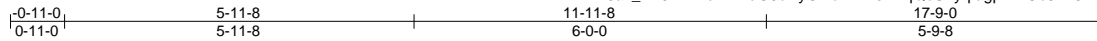
818 Soundside Road  
Edenton, NC 27932

Job J1121-6629	Truss C1GE	Truss Type GABLE	Qty 2	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950846
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:35 2022 Page 1

ID:X5az\_D23vLwLuiTNLUg6bHyGfxb-mxZsBAqQbSZyqlagpTHIOb8T752nUdSjEN2xSMzqtBE



Scale = 1:36.9

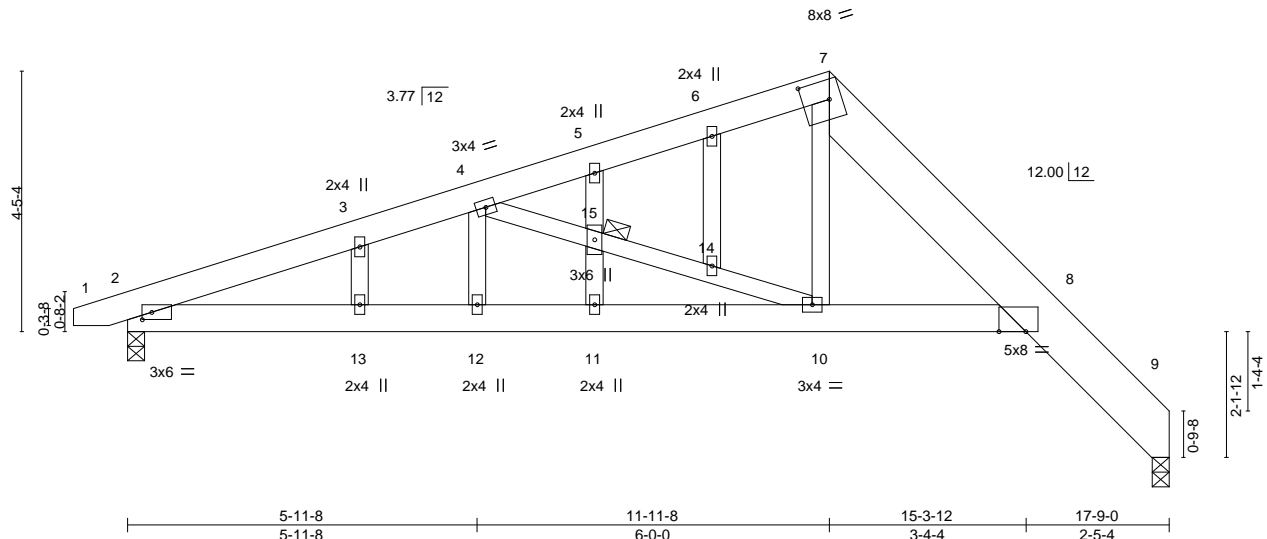


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [7:0-5-8,0-4-0], [8:0-5-8,0-0-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.44	Vert(LL) -0.05	11	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT) -0.10	8-10	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT) 0.09	9	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.06	11	>999	240	Weight: 126 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
 TOP CHORD 2x6 SP No.1 \*Except\*  
 7-9: 2x10 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 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.  
 JOINTS 1 Brace at Jt(s): 15

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8  
 Max Horz 2=227(LC 13)  
 Max Uplift 2=350(LC 8), 9=214(LC 13)  
 Max Grav 2=746(LC 1), 9=711(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1469/782, 3-4=-1392/828, 4-5=-855/460, 5-6=-820/493, 6-7=-797/512,  
 7-8=-931/488, 8-9=-451/278  
 BOT CHORD 2-13=-593/1328, 12-13=-593/1328, 11-12=-593/1328, 10-11=-593/1328, 8-10=-172/765  
 WEBS 4-15=-609/440, 14-15=-604/434, 10-14=-617/445, 7-10=-190/418

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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
  - 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.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=350, 9=214.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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



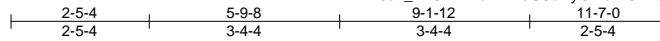
818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss C2	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950847
-------------------	-------------	----------------------------	----------	----------	---	-----------

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:36 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfb-E87FOWq2MlhpSR9tNAo\_woggcVQRd5YsT1oU\_ozqtBD



Scale = 1:38.2

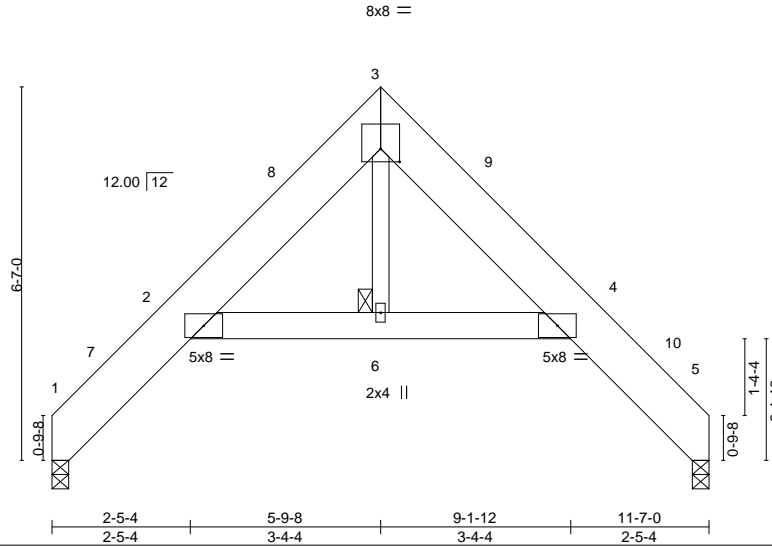


Plate Offsets (X,Y)-- [3:0-4-0,0-2-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.03	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.06	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.09	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	2-6	>999	Weight: 89 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x10 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 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.  
 JOINTS 1 Brace at Jt(s): 6

**REACTIONS.**

(size) 1=0-3-8, 5=0-3-8  
 Max Horz 1=180(LC 8)  
 Max Uplift 1=56(LC 12), 5=56(LC 13)  
 Max Grav 1=466(LC 1), 5=466(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-368/196, 2-3=-514/219, 3-4=-539/220, 4-5=-346/194  
 BOT CHORD 2-6=-36/499, 4-6=-36/499

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=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 5-9-8, Exterior(2) 5-9-8 to 10-2-5, Interior(1) 10-2-5 to 11-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



January 30, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 J1121-6629	Truss C2GE	Truss Type GABLE	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950848
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:37 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfb-iKhdcrg73pg4bk3xuDT0DrLvm2yXW?hhX2WEzqtbc



Scale = 1:38.2

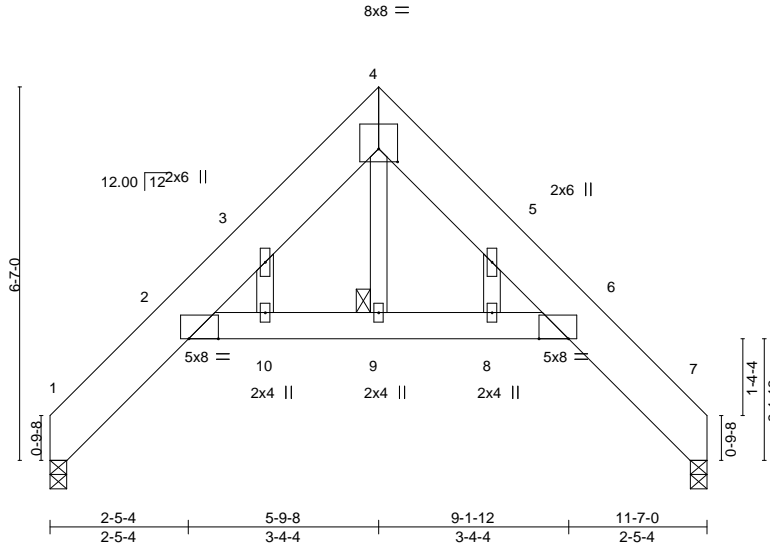


Plate Offsets (X,Y)-- [2:0-6-4,Edge], [4:0-4-0,0-2-12], [6:0-6-4,Edge]

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 0.26	Vert(LL)	-0.03	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.06	8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.09	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	10	>999	Weight: 92 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x10 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 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.  
 JOINTS 1 Brace at Jt(s): 9

**REACTIONS.**

(size) 1=0-3-8, 7=0-3-8  
 Max Horz 1=225(LC 8)  
 Max Uplift 1=132(LC 12), 7=-132(LC 13)  
 Max Grav 1=466(LC 1), 7=466(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-391/243, 2-3=-483/175, 3-4=-565/274, 4-5=-565/274, 5-6=-539/190, 6-7=-346/195  
 BOT CHORD 2-10=-84/548, 9-10=-78/539, 8-9=-78/539, 6-8=-78/544  
 WEBS 4-9=-109/318

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=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
- 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.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=132, 7=132.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

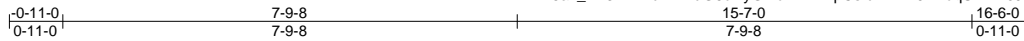


Job J1121-6629	Truss D1	Truss Type COMMON	Qty 3	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950849
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:38 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-AWF?pCsluNxXhJfVbqS?Dm0JJ2?hwb9wLHb3gzqtbB



5x5 =

Scale = 1:37.2

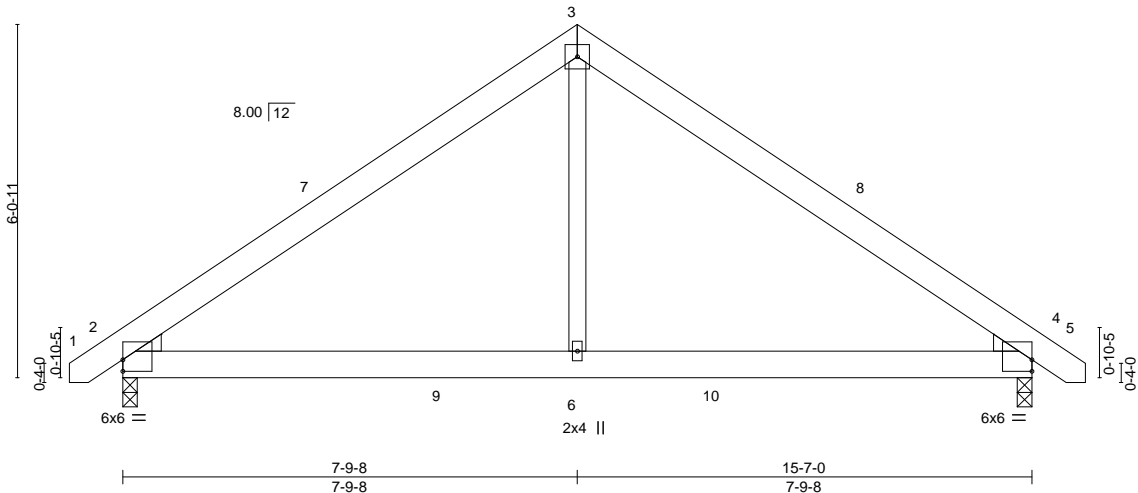


Plate Offsets (X,Y)-- [2:0-0-0,0-2-6], [4:Edge,0-2-6]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) 0.07 4-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Vert(CT) -0.05 2-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 95 lb	FT = 20%

**LUMBER-**

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

**WEDGE**

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

**REACTIONS.**

(size) 2=0-3-0, 4=0-3-0  
 Max Horz 2=182(LC 11)  
 Max Uplift 2=192(LC 9), 4=192(LC 8)  
 Max Grav 2=685(LC 2), 4=685(LC 2)

**FORCES.**

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

TOP CHORD 2-3=-807/920, 3-4=-807/917  
 BOT CHORD 2-6=-564/567, 4-6=-564/567  
 WEBS 3-6=-674/457

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 7-9-8, Exterior(2) 7-9-8 to 12-2-5, Interior(1) 12-2-5 to 16-4-1 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 4=192.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 30, 2022

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

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

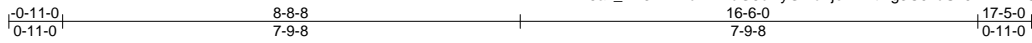


818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss D1GE	Truss Type GABLE	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950850
-------------------	---------------	---------------------	----------	----------	---	-----------

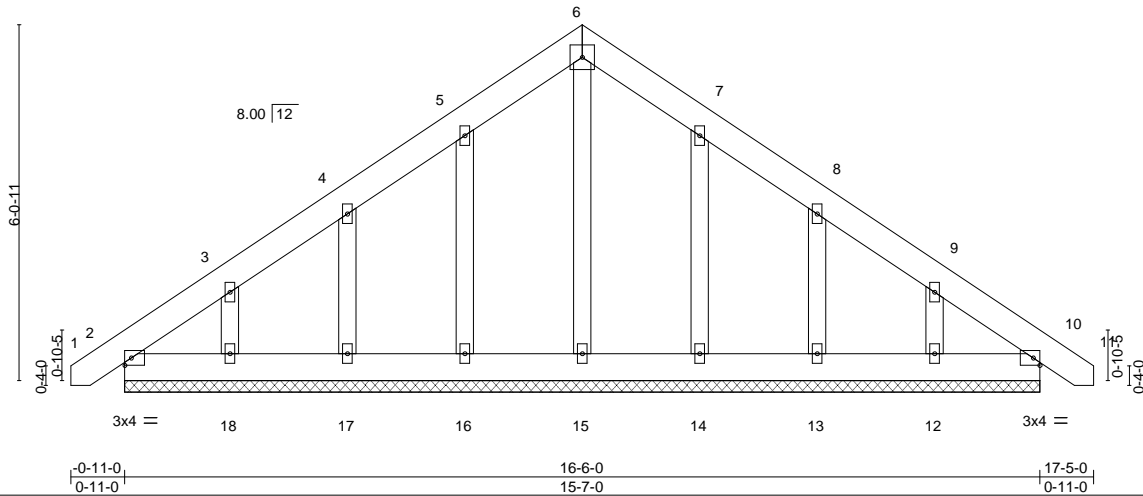
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:39 2022 Page 1  
ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-fjoN1Ytxfg3OJvuS2JLhYRIESjUgQS919\_09b7zqtba



5x5 =

Scale = 1:36.9



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) -0.00 10 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 116 lb FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
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 15-7-0.  
(lb) - Max Horz 2=227(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-121(LC 12), 17=-139(LC 12), 18=-168(LC 12), 14=-116(LC 13), 13=-141(LC 13), 12=-160(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

**FORCES.**

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 16=121, 17=139, 18=168, 14=116, 13=141, 12=160.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

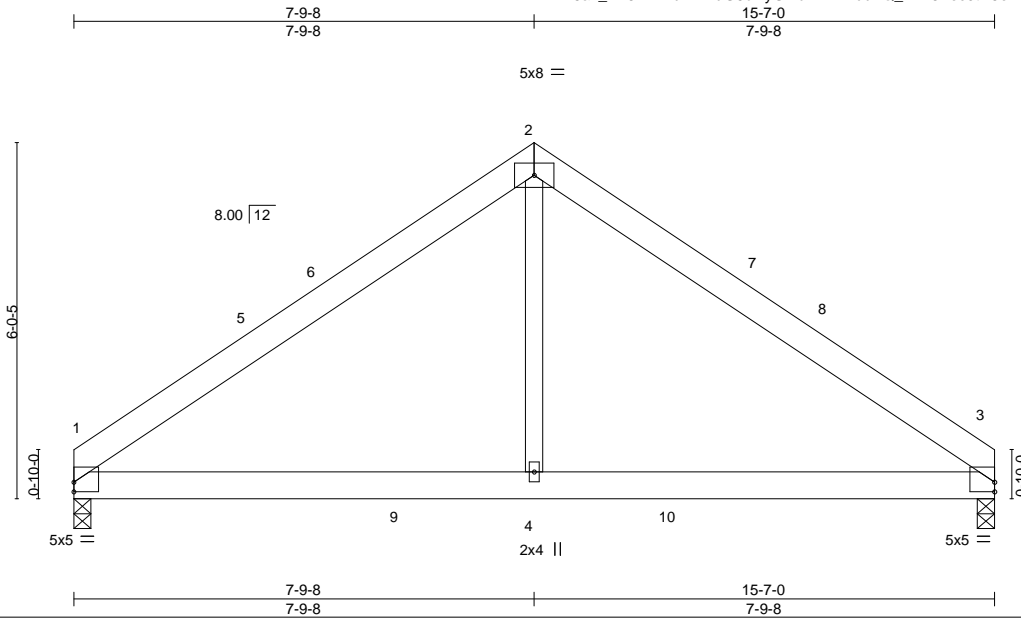


818 Soundside Road  
Edenton, NC 27932

Job J1121-6629	Truss D2	Truss Type COMMON	Qty 3	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950851
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:40 2022 Page 1  
ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-7vMIeUuZQ\_BF3Tec0tw5erLt6m99qBSOemi7Zzqt9



Scale = 1:36.7

Plate Offsets (X,Y)-- [1:0-0-0,0-1-15], [3:0-0-0,0-1-15]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.31	Vert(LL) 0.07	1-4	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT) -0.05	1-4	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 89 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 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 9'-6-4 oc bracing.

**REACTIONS.**

(size) 1=0-3-8, 3=0-3-8  
Max Horz 1=-176(LC 8)  
Max Uplift 1=-183(LC 9), 3=-183(LC 8)  
Max Grav 1=638(LC 2), 3=638(LC 2)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-804/923, 2-3=-804/923  
BOT CHORD 1-4=-580/569, 3-4=-580/569  
WEBS 2-4=-669/452

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=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 7-9-8, Exterior(2) 7-9-8 to 12-2-5, Interior(1) 12-2-5 to 15-5-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=183, 3=183.



January 30, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 J1121-6629	Truss V1GE	Truss Type VALLEY	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950852
-------------------	---------------	----------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:41 2022 Page 1

ID:X5az\_D23vLwLuiTNLUg6bHyGfxb-b5w8REuBBIJ6YD2qAkO9dsNZCWAbuJmbclVff?zqtB8

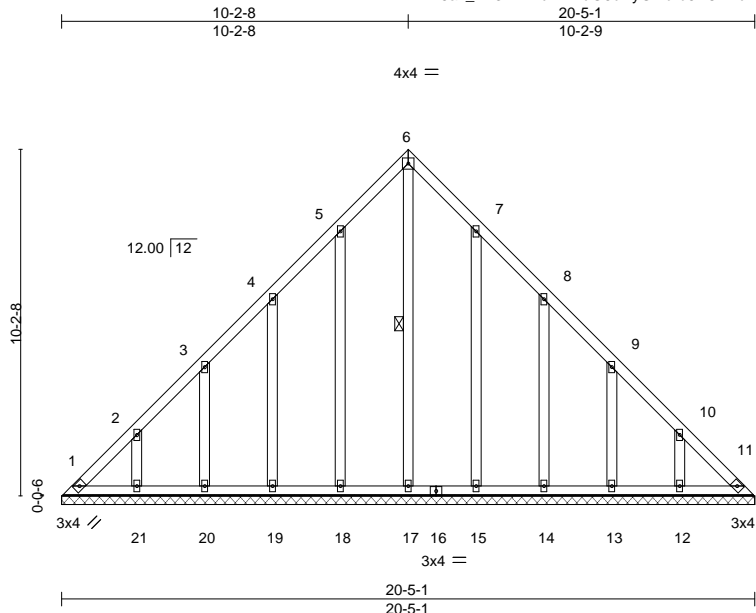


Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 11 n/a n/a		
	Code IRC2015/TPI2014			Weight: 141 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 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.  
 WEBS 1 Row at midpt 6-17

**REACTIONS.**

All bearings 20-5-1.  
 (lb) - Max Horz 1=393(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 17 except 1=174(LC 10), 11=108(LC 11), 18=197(LC 12), 19=208(LC 12), 20=196(LC 12), 21=218(LC 12), 15=193(LC 13), 14=210(LC 13), 13=196(LC 13), 12=218(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 21, 15, 14, 13, 12 except 1=339(LC 12), 11=294(LC 13), 17=333(LC 13)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=519/323, 2-3=338/256, 5-6=277/305, 6-7=277/305, 9-10=275/163, 10-11=456/308  
 BOT CHORD 1-21=246/367, 20-21=246/367, 19-20=246/367, 18-19=246/367, 17-18=246/367, 15-17=246/367, 14-15=246/367, 13-14=246/367, 12-13=246/367, 11-12=246/367  
 WEBS 6-17=319/230

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 1=174, 11=108, 18=197, 19=208, 20=196, 21=218, 15=193, 14=210, 13=196, 12=218.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

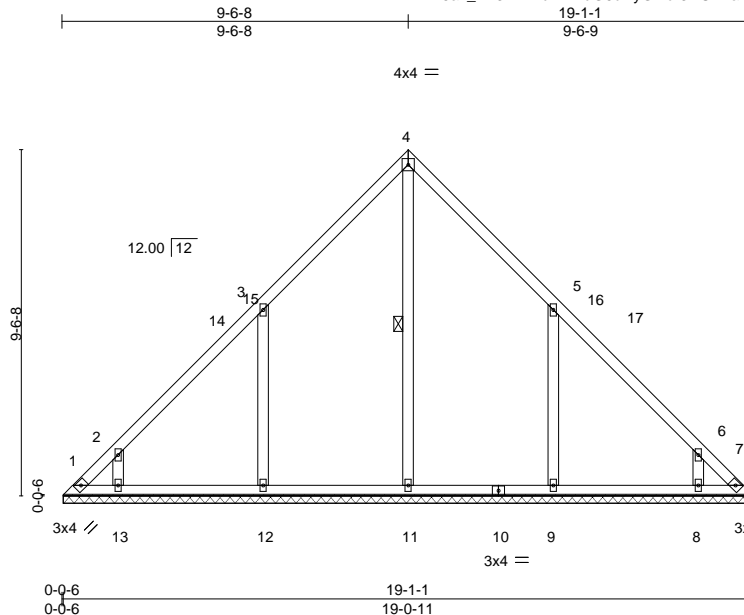


818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss V2	Truss Type VALLEY	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950853
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:42 2022 Page 1  
ID:X5az\_D23vLwLuiTNLU6bHyGfxb-3HUWfavpybRzAMd1kRvOA3wiywTmdm9lryFpCSzqtB7



Scale = 1:59.8

Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

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 0.21	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 98 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
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.  
WEBS 1 Row at midpt 4-11

**REACTIONS.**

All bearings 19-0-5.  
(lb) - Max Horz 1=293(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) except 1=-189(LC 10), 7=-140(LC 11), 12=-280(LC 12),  
13=-203(LC 12), 9=-279(LC 13), 8=-204(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 7 except 1=255(LC 12), 11=447(LC 22), 12=523(LC 19),  
13=304(LC 19), 9=523(LC 20), 8=304(LC 20)

**FORCES.**

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

TOP CHORD 1-2=-357/311, 3-4=-273/261, 4-5=-273/261, 6-7=-355/311  
WEBS 3-12=-511/429, 2-13=-395/368, 5-9=-511/429, 6-8=-395/368

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-6-8, Exterior(2) 9-6-8 to 13-11-5, Interior(1) 13-11-5 to 18-8-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 1, 140 lb uplift at joint 7, 280 lb uplift at joint 12, 203 lb uplift at joint 13, 279 lb uplift at joint 9 and 204 lb uplift at joint 8.
- Non Standard bearing condition. Review required.



January 30, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSII/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



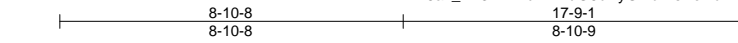
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 43 Purfoy Place	I49950854
J1121-6629	V3	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:45 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-TsAeHbxhFWpY1qLbPZS5oiYC37VZq7OBXwTTomzqtB4



4x4 =

Scale = 1:56.0

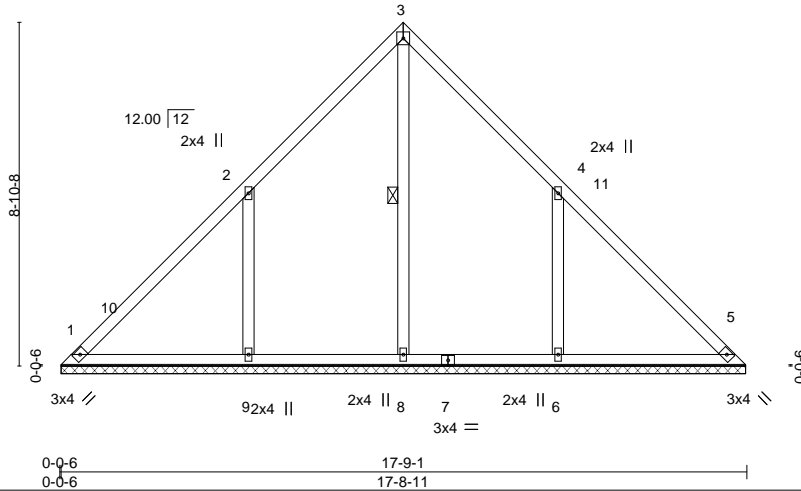


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.20	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 87 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 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.  
 WEBS 1 Row at midpt 3-8

**REACTIONS.** All bearings 17-8-5.  
 (lb) - Max Horz 1=272(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=328(LC 12), 6=327(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=427(LC 22), 9=594(LC 19), 6=594(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-255/243, 3-4=-255/244  
 WEBS 2-9=-583/475, 4-6=-583/475

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-10-8, Interior(1) 4-10-8 to 8-10-8, Exterior(2) 8-10-8 to 13-3-5, Interior(1) 13-3-5 to 17-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=328, 6=327.
  - Non Standard bearing condition. Review required.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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

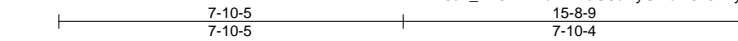


818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss V4	Truss Type VALLEY	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950855
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:46 2022 Page 1  
ID:X5az\_D23vLwLuiTNLU66bHyGfxb-x3k0VxyK?yOf\_wozHzKKv5OvXrkZbaKmaD0LDzqt3



4x4 =

Scale = 1:49.5

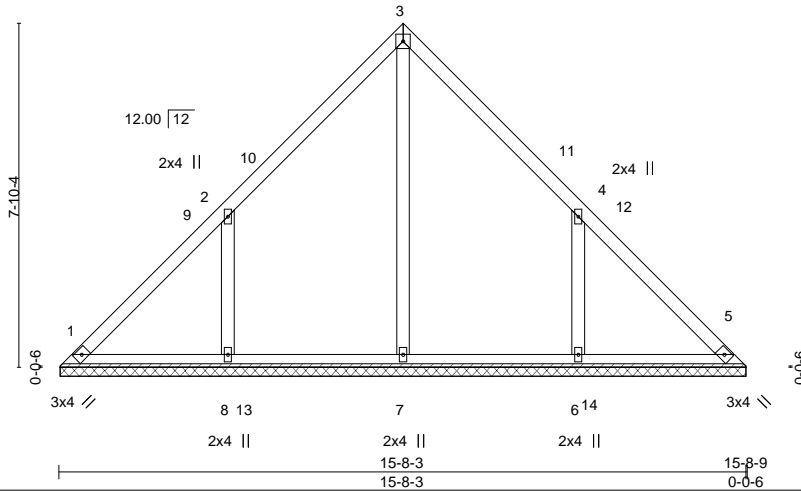


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 75 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
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 15-7-13.  
(lb) - Max Horz 1=240(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=284(LC 12), 6=284(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=425(LC 22), 8=512(LC 19), 6=512(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=511/431, 4-6=511/431

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-10-5, Exterior(2) 7-10-5 to 12-3-1, Interior(1) 12-3-1 to 15-4-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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=284, 6=284.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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

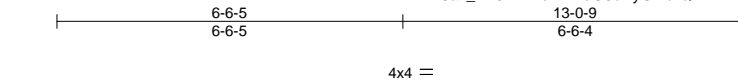


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 43 Purfoy Place	I49950856
J1121-6629	V5	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:47 2022 Page 1  
 ID:X5az\_D23vLwLuiTNLUg6bHyGfxb-QFHPiHzym84FG8V\_W\_VZl7daCxBWI3cU?EyafzqtB2



Scale = 1:40.9

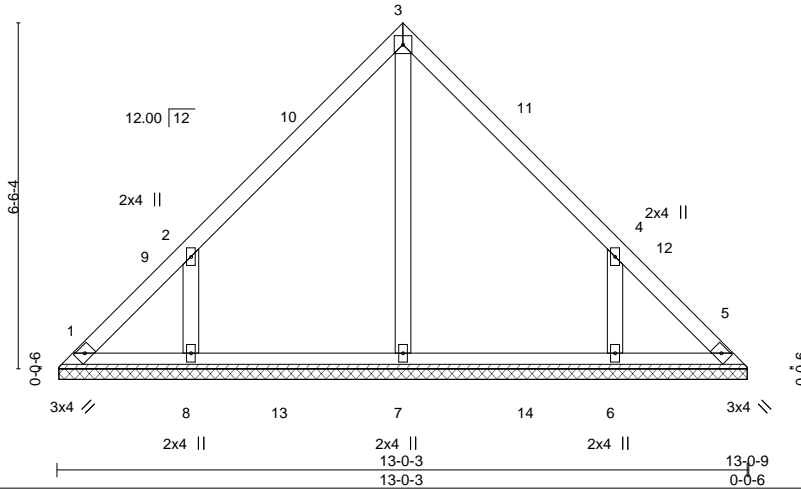


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 60 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 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 12-11-13.  
 (lb) - Max Horz 1=197(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-245(LC 12), 6=-245(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=390(LC 19), 8=404(LC 19), 6=404(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=-451/401, 4-6=-451/402

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-6-5, Exterior(2) 6-6-5 to 10-11-1, Interior(1) 10-11-1 to 12-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - 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=245, 6=245.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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



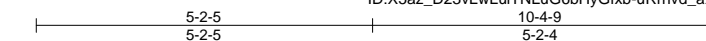
818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Lot 43 Purfoy Place	I49950857
J1121-6629	V6	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:48 2022 Page 1  
 ID:X5az\_D23vLwLuITNLuG6bHyGfxb-uRrmd\_aXRC6uH4A4i0oPKAKWLXj1WvdDui7P5zqtB1



4x4 =

Scale = 1:33.5

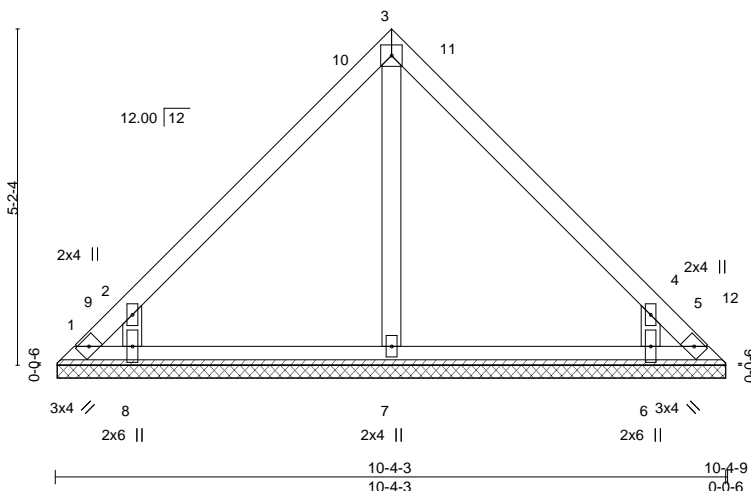


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 44 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 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 10-3-13.  
 (lb) - Max Horz 1=154(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) except 1=178(LC 10), 5=153(LC 11), 8=276(LC 12), 6=276(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=416(LC 19), 6=416(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-257/213, 4-5=-258/213  
 WEBS 2-8=-529/498, 4-6=-530/498

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-2-5, Exterior(2) 5-2-5 to 9-7-1, Interior(1) 9-7-1 to 10-0-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 1, 153 lb uplift at joint 5, 276 lb uplift at joint 8 and 276 lb uplift at joint 6.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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

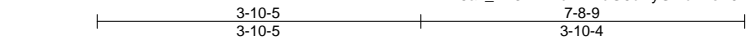


818 Soundside Road  
 Edenton, NC 27932

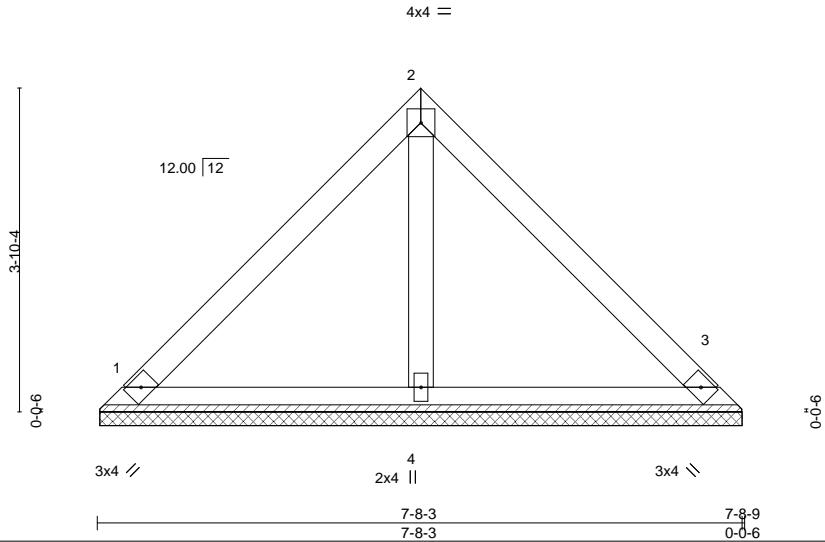
Job J1121-6629	Truss V7	Truss Type VALLEY	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950858
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:49 2022 Page 1  
ID:X5az\_D23vLwLuiTNLUg6bHyGfb-MeP97z?CIkzWRfNePX1yYjuItum\_3mSYRgxYzqtbo



Scale = 1:25.8



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 31 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 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.** (size) 1=7-7-13, 3=7-7-13, 4=7-7-13  
 Max Horz 1=112(LC 10)  
 Max Uplift 1=55(LC 13), 3=55(LC 13)  
 Max Grav 1=171(LC 1), 3=171(LC 1), 4=219(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=150mph Vasd=119mph; TCCL=6.0psf; BCCL=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 55 lb uplift at joint 1 and 55 lb uplift at joint 3.



January 30, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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



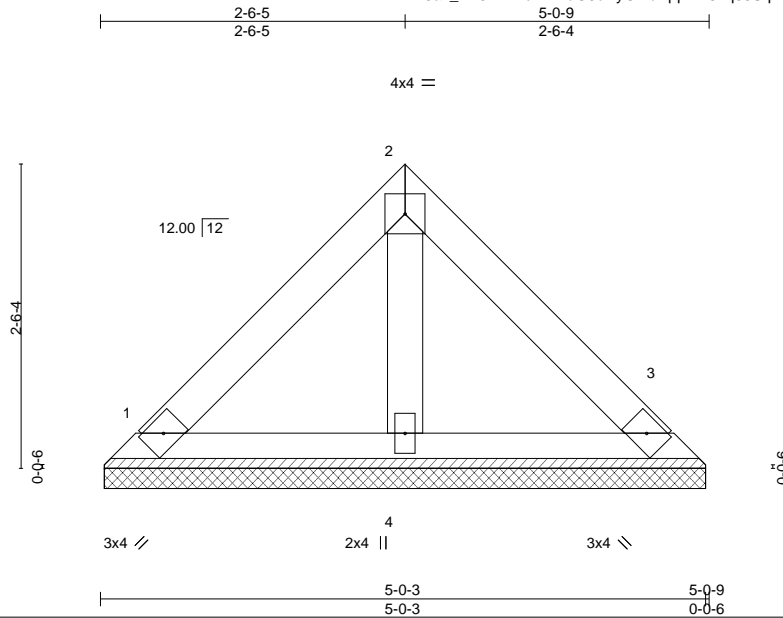
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 43 Purfoy Place	I49950859
J1121-6629	V8	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:50 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfb-qzXKJ?q33Sq7bEZC72GUIF6d8E?VRcwhCBEU\_zqtb?



Scale = 1:18.0

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
BCDL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-9 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 1=4-11-13, 3=4-11-13, 4=4-11-13  
 Max Horz 1=69(LC 8)  
 Max Uplift 1=34(LC 13), 3=34(LC 13)  
 Max Grav 1=106(LC 1), 3=106(LC 1), 4=136(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 34 lb uplift at joint 3.



January 30, 2022

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

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

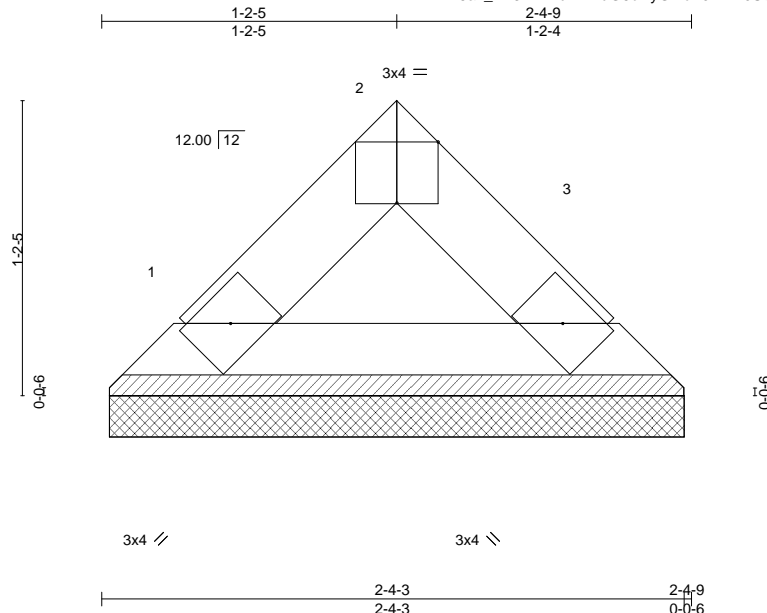


818 Soundside Road  
 Edenton, NC 27932

Job J1121-6629	Truss V9	Truss Type VALLEY	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950860
-------------------	-------------	----------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:37:51 2022 Page 1  
ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-I0XvYf0SqMahlplqZV1zoIqYaREu?3wswnoQzqt\_b\_



Scale = 1:8.7

Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 7 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-4-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=2-3-13, 3=2-3-13  
Max Horz 1=27(LC 8)  
Max Uplift 1=10(LC 12), 3=10(LC 12)  
Max Grav 1=67(LC 1), 3=67(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 10 lb uplift at joint 3.



January 30, 2022

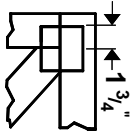
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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



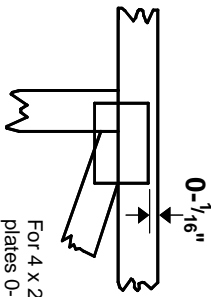
818 Soundside Road  
Edenton, NC 27932

# 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- $\frac{1}{16}$ " 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 X 4

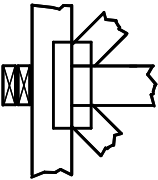
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



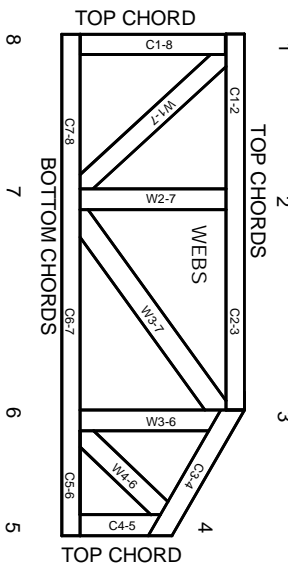
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



**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

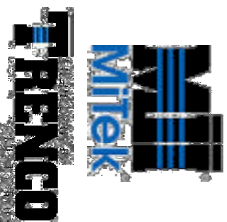
ICC-ES Reports:

ESR-1311, ESR-1352, ESR 1988  
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/TP1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MITek® All Rights Reserved



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



**ROOF & FLOOR TRUSSES & BEAMS**

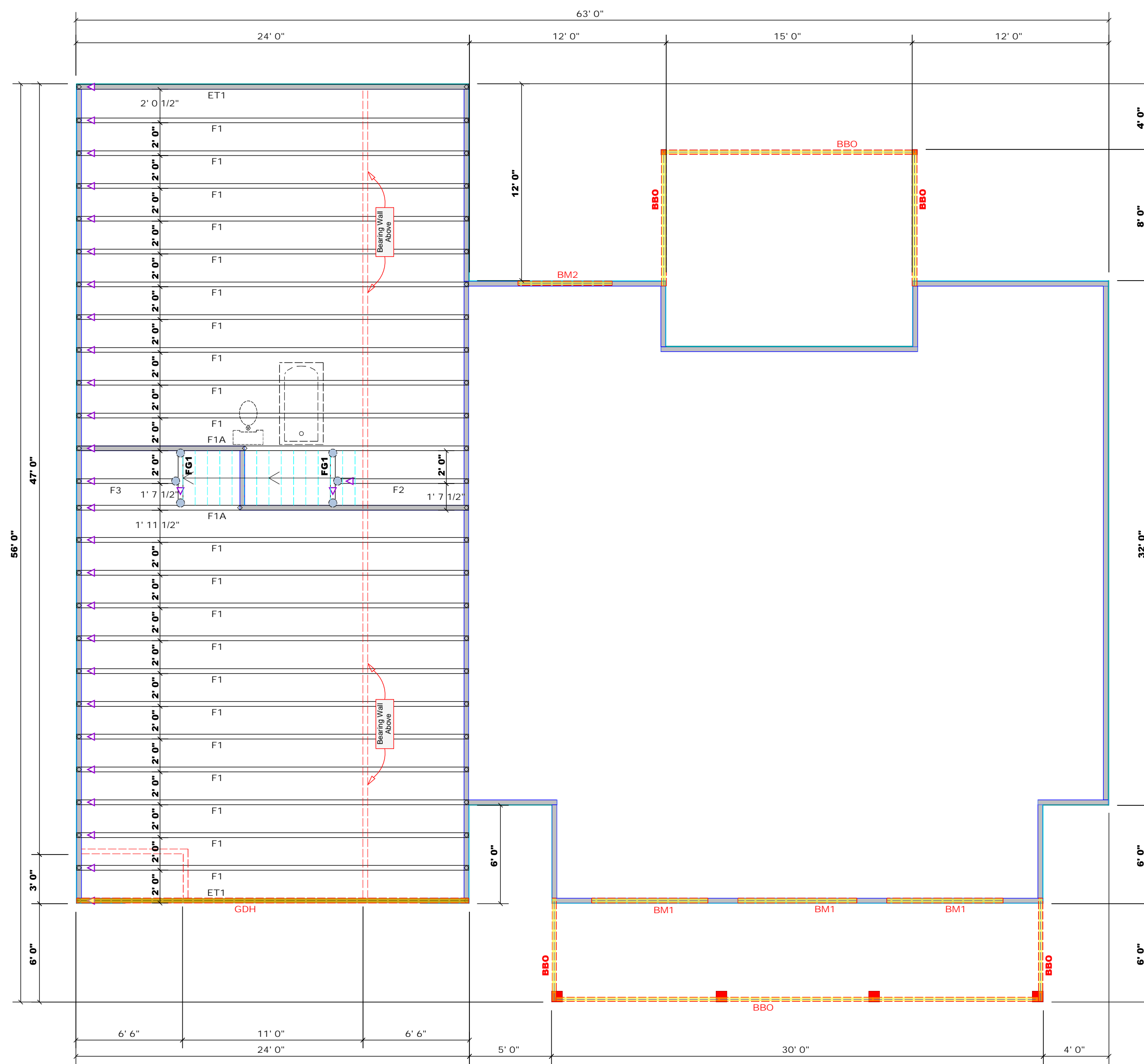
Reilly Road Industrial Park  
Fayetteville, N.C. 28309  
Phone: (910) 864-8787  
Fax: (910) 864-4444

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

Signature David Landry  
David Landry

**LOAD CHART FOR JACK STUDS**  
(BASED ON TABLES MODEL: S 103)

REACTION (LBS)	NUMBER OF JACK STUDS REQUIRED PER EACH END OF HEADPOST/HEADER	REQ'D STUDS PER JACK/HEADER	
		REQ'D STUDS PER JACK/HEADER	REQ'D STUDS PER JACK/HEADER
1700	1	2550	3400
3400	2	5100	6800
5100	3	7650	10200
6800	4	10200	13600
8500	5	12750	17000
10200	6	15300	
11900	7		
13600	8		
15300	9		



Products				
PlotID	Length	Product	Plies	Net Qty
BM1	8' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	6
BM2	6' 0"	2x10 SP No.1	2	2
GDH	24' 0"	1-3/4"x 16" LVL Kerto-S	2	2

**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

**1 Truss Placement Plan**  
Scale: 3/16"=1'

**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.

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	MSH422	USP	6	Varies	10d/3"	10d/3"

**Hatch Legend**

- 5' 11-3/4" Walls
- Second Floor Walls
- Vaulted Ceiling
- Box Storage
- Drop Beam

All Walls Shown Are Considered Load Bearing

▲ = Indicates Left End of Truss  
(Reference Engineered Truss Drawing)  
Do NOT Erect Truss Backwards

BUILDER	Job Name	Plan	Seal Date	Quote #	Job #
Glover Design Build	Lot 43 Purfoy Place	Paxton	N/A		J1121-6630
CITY / CO.	Fuquay Varina / Harnett	Address	Model	Date Rev.	Drawn By
	193 Lambert Lane	Floor	01/31/22	Jonathan Landry	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 @ sbindustry.com

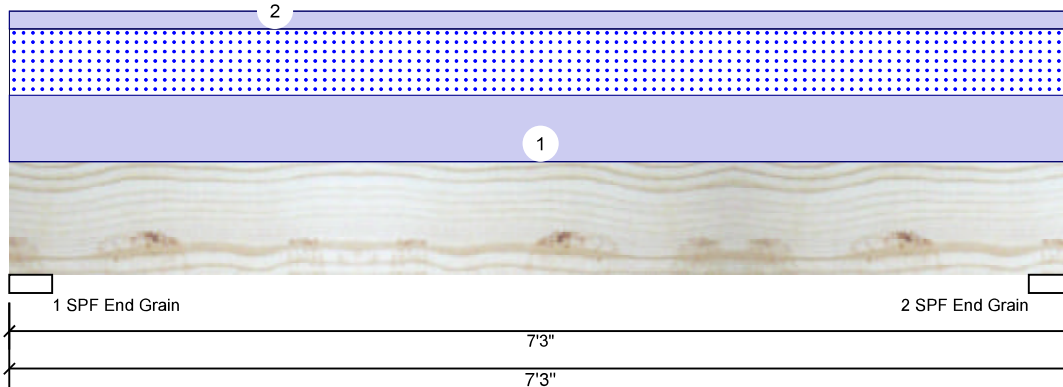


Client: Glover Design Build  
 Project: Paxton  
 Address: 193 Lambert Lane  
 Fuquay Varina, NC 27526

Date: 1/31/2022  
 Input by: Jonathan Landry  
 Job Name: Lot 43 Purfoy Place  
 Project #: J1121-6630

**BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

**Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	0	2600	2030	0	0
2	0	2600	2030	0	0

**Bearings**

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	43%	2600 / 2030	4630	L	D+S
2 - SPF End Grain	3.500"	43%	2600 / 2030	4630	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7364 ft-lb	3'7 1/2"	14423 ft-lb	0.511 (51%)	D+S	L
Unbraced	7364 ft-lb	3'7 1/2"	9819 ft-lb	0.750 (75%)	D+S	L
Shear	3353 lb	6'3"	7943 lb	0.422 (42%)	D+S	L
LL Defl inch	0.070 (L/1172)	3'7 9/16"	0.170 (L/480)	0.410 (41%)	S	L
TL Defl inch	0.159 (L/514)	3'7 9/16"	0.340 (L/240)	0.470 (47%)	D+S	L

**Design Notes**

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top braced at bearings.
- Bottom braced at bearings.
- Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Const.	Comments
1	Uniform			Top	0.9	560 PLF	1.15	1.6	1.25	A3
2	Uniform			Top	0.9	150 PLF	1.15	1.6	1.25	V1GE
	Self Weight				0.9	7 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.

**Lumber**  
 1. Dry service conditions, unless noted otherwise  
 2. LVL not to be treated with fire retardant or corrosive chemicals

- Handling & Installation**
- LVL beams must not be cut or drilled
  - Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
  - Damaged Beams must not be used
  - Design assumes top edge is laterally restrained
  - Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

**Manufacturer Info**  
 Metsä Wood  
 301 Merritt 7 Building, 2nd Floor  
 Norwalk, CT 06851  
 (800) 622-5850  
 www.metsawood.com/us  
 ICC-ES: ESR-3633

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

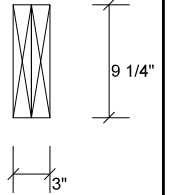
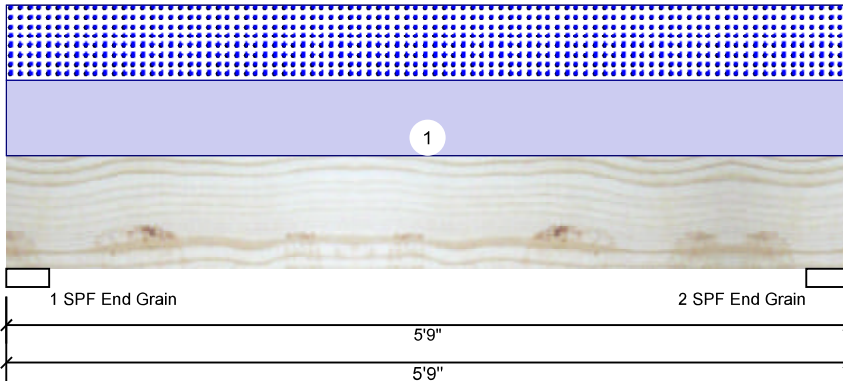


Client: Glover Design Build  
 Project: Paxton  
 Address: 193 Lambert Lane  
 Fuquay Varina, NC 27526

Date: 1/31/2022  
 Input by: Jonathan Landry  
 Job Name: Lot 43 Purfoy Place  
 Project #: J1121-6630

**BM2 S-P-F #1 2.000" X 10.000" 2-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

**Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	0	1302	1302	0	0
2	0	1302	1302	0	0

**Bearings**

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	58%	1302 / 1302	2605	L	D+S
2 - SPF End Grain	3.500"	58%	1302 / 1302	2605	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3171 ft-lb	2'10 1/2"	3946 ft-lb	0.804 (80%)	D+S	L
Unbraced	3171 ft-lb	2'10 1/2"	3624 ft-lb	0.875 (88%)	D+S	L
Shear	1699 lb	4'9"	2872 lb	0.591 (59%)	D+S	L
LL Defl inch	0.029 (L/2201)	2'10 1/2"	0.132 (L/480)	0.220 (22%)	S	L
TL Defl inch	0.058 (L/1100)	2'10 1/2"	0.265 (L/240)	0.220 (22%)	D+S	L

**Design Notes**

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top braced at bearings.
- Bottom braced at bearings.
- 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	453 PLF	0 PLF	453 PLF	0 PLF	0 PLF	A3

**Manufacturer Info**

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



This design is valid until 4/24/2023



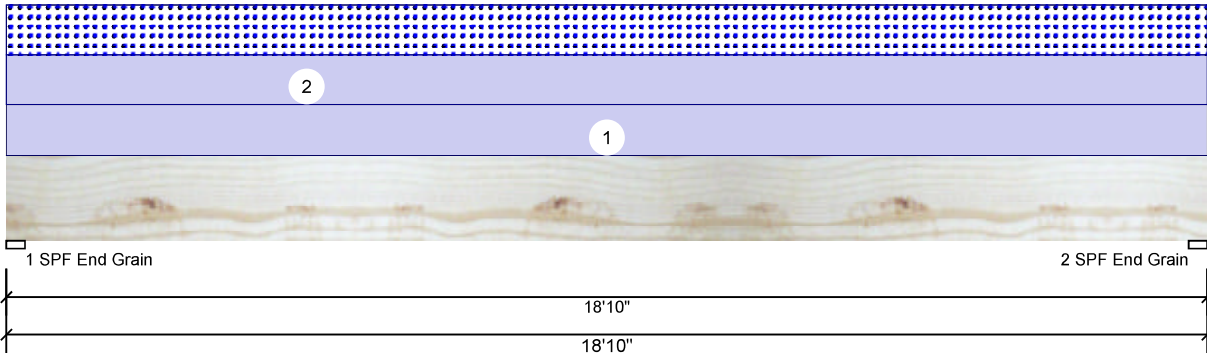


Client: Glover Design Build  
 Project: Paxton  
 Address: 193 Lambert Lane  
 Fuquay Varina, NC 27526

Date: 1/31/2022  
 Input by: Jonathan Landry  
 Job Name: Lot 43 Purfoy Place  
 Project #: J1121-6630

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

Level: Level



**Member Information**

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

**Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	0	2349	1102	0	0
2	0	2349	1102	0	0

**Bearings**

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	32%	2349 / 1102	3451	L	D+S
2 - SPF End Grain	3.500"	32%	2349 / 1102	3451	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15501 ft-lb	9'5"	39750 ft-lb	0.390 (39%)	D+S	L
Unbraced	15501 ft-lb	9'5"	15517 ft-lb	0.999 (100%)	D+S	L
Shear	2882 lb	17'3 3/8"	13739 lb	0.210 (21%)	D+S	L
LL Defl inch	0.136 (L/1619)	9'5 1/16"	0.460 (L/480)	0.300 (30%)	S	L
TL Defl inch	0.427 (L/517)	9'5 1/16"	0.920 (L/240)	0.460 (46%)	D+S	L

**Design Notes**

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top must be laterally braced at a maximum of 7'7 1/2" o.c.
- Bottom braced at bearings.
- 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	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Uniform			Top	117 PLF	0 PLF	117 PLF	0 PLF	0 PLF	C2GE
	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.

**Lumber**  
 1. Dry service conditions, unless noted otherwise  
 2. LVL not to be treated with fire retardant or corrosive chemicals

**Handling & Installation**  
 1. LVL 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 4/24/2023

**Manufacturer Info**  
 Metsä Wood  
 301 Merritt 7 Building, 2nd Floor  
 Norwalk, CT 06851  
 (800) 622-5850  
 www.metsawood.com/us  
 ICC-ES: ESR-3633

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



RE: J1121-6630  
Lot 43 Purfoy Place

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: Glover Design Build Project Name: J1121-6630  
Lot/Block: 43 Model: Paxton  
Address: 193 Lambert Lane Subdivision: Purfoy Place  
City: Fuquay Varina State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4  
Wind Code: N/A Wind Speed: N/A mph  
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 6 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I49950862	ET1	1/28/2022
2	I49950863	F1	1/28/2022
3	I49950864	F1A	1/28/2022
4	I49950865	F2	1/28/2022
5	I49950866	F3	1/28/2022
6	I49950867	FG1	1/28/2022

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

Truss Design Engineer's Name: Gilbert, Eric

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.



January 28, 2022

Job J1121-6630	Truss ET1	Truss Type GABLE	Qty 2	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	149950862
-------------------	--------------	---------------------	----------	----------	---	-----------

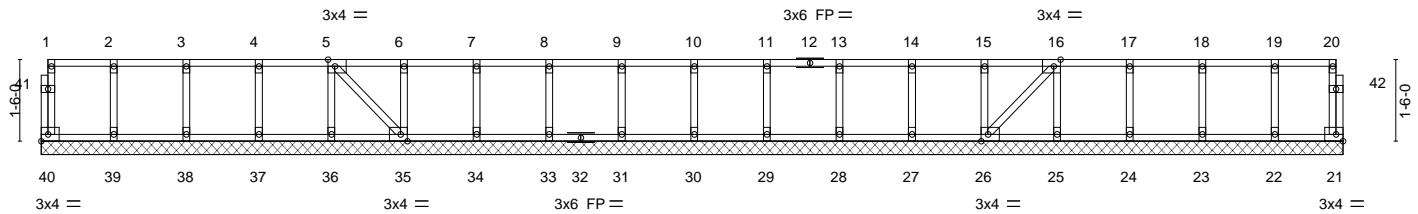
Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:38:17 2022 Page 1  
ID:X5az\_D23vLwLuiTNLUg6bHyGfb-X05l?YKmiMr?tlolHl1b5StkS1SmKeyuuvD9wvzqttaa

0-1-8

0-1-8

Scale = 1:39.8



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	23-11-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [16:0-1-8,Edge], [26:0-1-8,Edge], [35:0-1-8,Edge]

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 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	26	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						Weight: 114 lb	FT = 20%F, 11%E

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.**

All bearings 23-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

**FORCES.**

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

**NOTES-**

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.



January 28, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 J1121-6630	Truss F1	Truss Type FLOOR	Qty 21	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	149950863
-------------------	-------------	---------------------	-----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:38:19 2022 Page 1  
ID:X5az\_D23vLwLuiTNLuG6bHyGfb-UPDVQDM0Ez6j2y8Oi33Aty\_vrzxoN7BMDiG\_ozqtaY

0-1-8



0-1-8  
Scale = 1:41.2

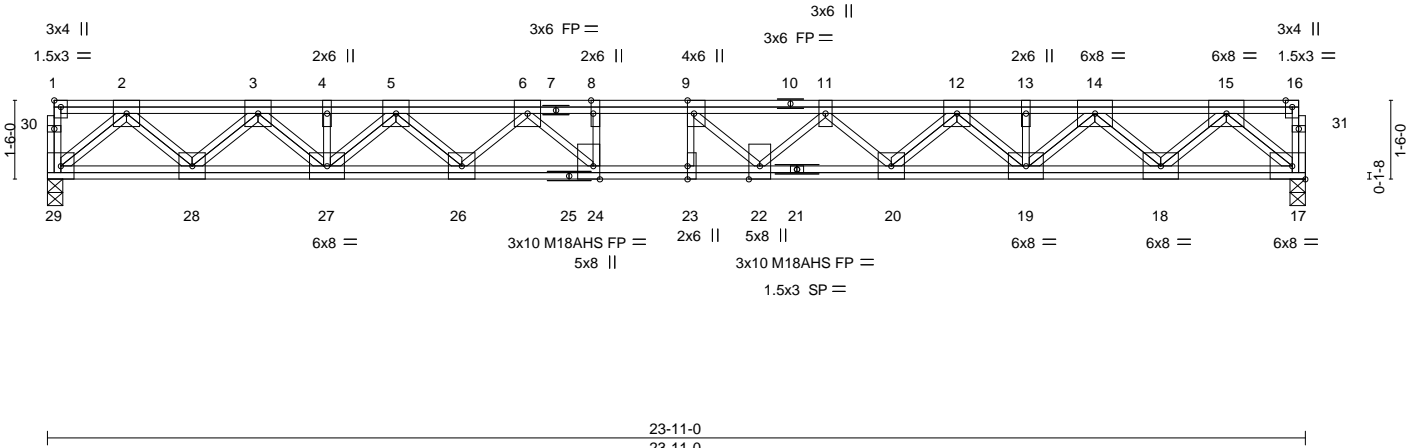


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-3-0,Edge], [9:0-3-0,Edge], [23:0-3-0,0-0-0], [24:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0 Plate Grip DOL 1.00	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.73	Vert(LL) -0.42 22-23 >669 480	M18AHS	186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.76	Vert(CT) -0.58 22-23 >487 360		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.09 17 n/a n/a		
				Weight: 222 lb	FT = 20%F, 11%E

**LUMBER-**

TOP CHORD 2x4 SP 2400F 2.0E(flat)  
BOT CHORD 2x4 SP 2400F 2.0E(flat)  
WEBS 2x4 SP No.3(flat)

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 29=0-3-8, 17=0-3-8  
Max Grav 29=1647(LC 1), 17=2224(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3117/0, 3-4=-5636/0, 4-5=-5636/0, 5-6=-7455/0, 6-8=-9204/0, 8-9=-9204/0, 9-11=-9699/0, 11-12=-9794/0, 12-13=-8010/0, 13-14=-8010/0, 14-15=-4320/0  
BOT CHORD 28-29=0/1747, 27-28=0/4464, 26-27=0/6716, 24-26=0/8329, 23-24=0/9204, 22-23=0/9204, 20-22=0/9940, 19-20=0/9659, 18-19=0/6234, 17-18=0/2378  
WEBS 2-29=-2359/0, 2-28=0/1937, 3-28=-1905/0, 3-27=0/1618, 15-17=-3210/0, 15-18=0/2747, 14-18=-2706/0, 14-19=0/2453, 12-19=-2277/0, 12-20=-43/395, 5-27=-1492/0, 5-26=0/1066, 6-26=-1217/0, 11-20=-369/30, 11-22=-633/313, 6-24=0/1588, 8-24=-653/0, 9-22=-329/1103, 9-23=-563/65

**NOTES-**

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 6x6 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 21 = 11%
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1280 lb down at 17-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 17-29=-10, 1-16=-100  
Concentrated Loads (lb)  
Vert: 12=-1280(F)



January 28, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIP/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



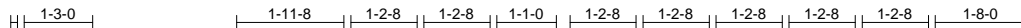
818 Soundside Road  
Edenton, NC 27932

Job J1121-6630	Truss F1A	Truss Type FLOOR GIRDER	Qty 2	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950864
-------------------	--------------	----------------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:38:20 2022 Page 1  
ID:X5az\_D23vLwLuiTNLuG6bHyGfb-ybntdZNe?HEakCKXyQbli4V1aEI6XnflatSpXFzqtaX

0-1-8



0-1-8  
Scale = 1:39.6

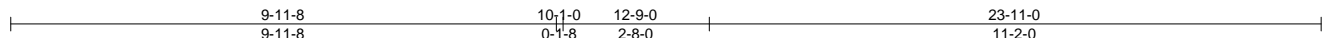
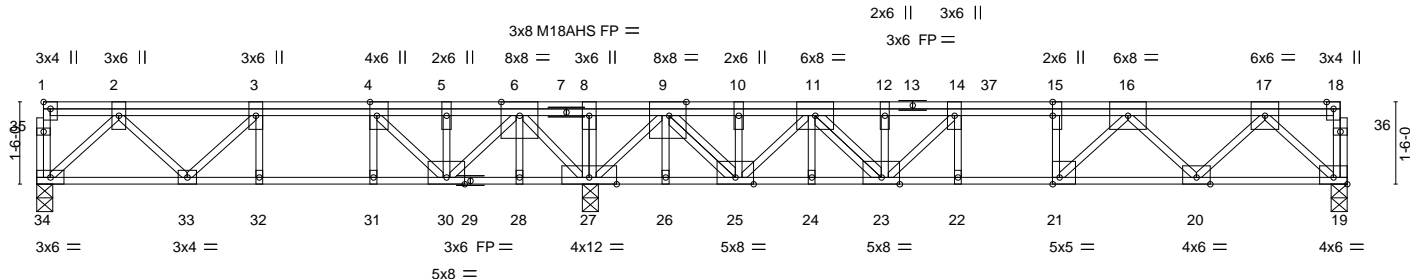


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-3-0,Edge], [9:0-3-12,Edge], [15:0-3-0,0-0-0], [19:Edge,0-1-8], [21:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.73	Vert(LL) -0.14 22 >999 480	M18AHS	186/179
BCLL 0.0	Lumber DOL 1.00	WB 0.93	Vert(CT) -0.19 22-23 >854 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 19 n/a n/a		
	Code IRC2015/TPI2014			Weight: 174 lb	FT = 20%F, 11%E

**LUMBER-**

TOP CHORD 2x4 SP No.1 (flat)  
 BOT CHORD 2x4 SP No.1 (flat) \*Except\*  
 19-29: 2x4 SP 2400F 2.0E (flat)  
 WEBS 2x4 SP No.3 (flat)

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.**

(size) 34=0-3-8, 19=0-3-8, 27=0-3-8  
 Max Grav 34=524(LC 3), 19=1405(LC 7), 27=3907(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-736/86, 3-4=-943/250, 4-5=0/1568, 5-6=0/1568, 6-8=0/4041, 8-9=0/4041,  
 9-10=-456/361, 10-11=-465/357, 11-12=-4125/0, 12-14=-4163/0, 14-15=-4775/0,  
 15-16=-4775/0, 16-17=-2470/0  
 BOT CHORD 33-34=0/506, 32-33=-250/943, 31-32=-250/943, 30-31=-250/943, 28-30=-2764/0,  
 27-28=-2764/0, 26-27=-1780/0, 25-26=-1779/0, 24-25=0/2422, 23-24=0/2424,  
 22-23=0/4775, 21-22=0/4775, 20-21=0/3512, 19-20=0/1427  
 WEBS 8-27=-342/0, 2-34=-698/0, 2-33=-152/333, 3-33=-293/232, 6-27=-2005/0, 6-30=0/1954,  
 4-30=-2148/0, 9-25=0/2962, 10-25=-263/0, 11-25=-2697/0, 11-23=0/2502,  
 12-23=-1152/0, 14-23=-1009/56, 17-19=-1971/0, 17-20=0/1512, 16-20=-1512/0,  
 16-21=0/1915, 15-21=-1220/0, 9-27=-3060/0

**NOTES-**

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1280 lb down at 17-4-12, and 972 lb down at 6-4-0, and 972 lb down at 15-7-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 19-34=-10, 1-18=-100  
 Concentrated Loads (lb)  
 Vert: 4=-892(B) 12=-892(B) 37=-1280(F)



January 28, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIP/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



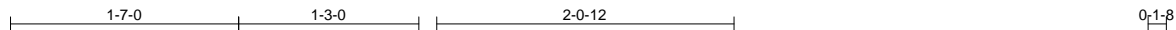
818 Soundside Road  
 Edenton, NC 27932

Job J1121-6630	Truss F2	Truss Type FLOOR	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	149950865
-------------------	-------------	---------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:38:21 2022 Page 1

ID:X5az\_D23vLwLuiTNLuG6bHyGfb-QoLFrvNHmaMRLM6WW76XF11CoebDGKEUpXBN3hzqtaW



Scale = 1:15.1

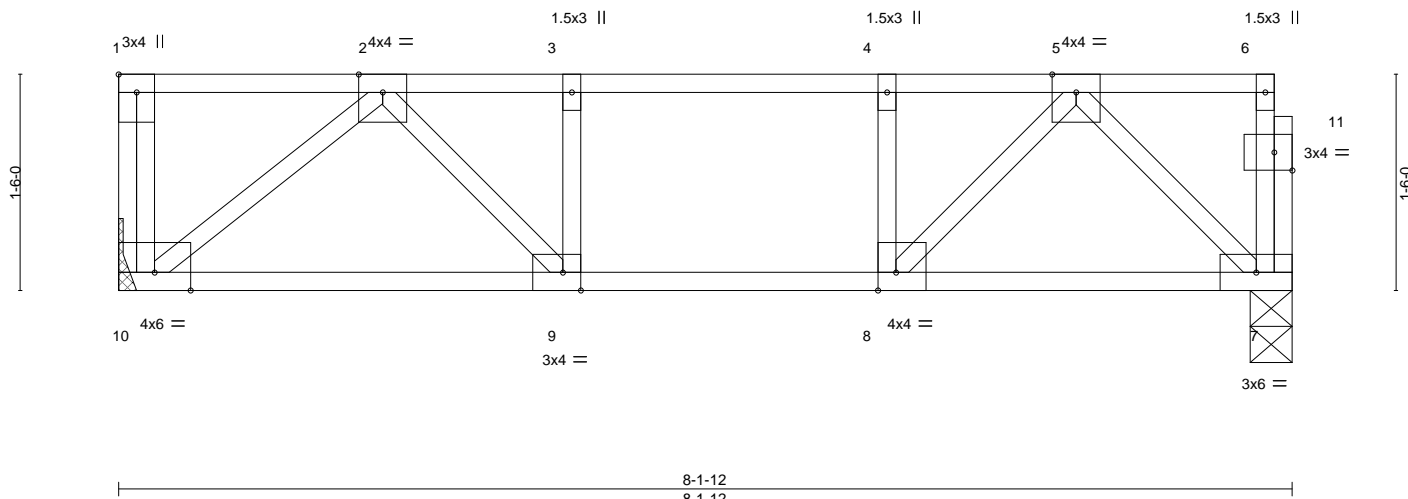


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.93	Vert(LL) -0.14 9-10 >657 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.53	Vert(CT) -0.20 9-10 >484 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 46 lb	FT = 20%F, 11%E

**LUMBER-**

TOP CHORD 2x4 SP 2400F 2.0E(flat)  
 BOT CHORD 2x4 SP No.1(flat)  
 WEBS 2x4 SP No.3(flat)

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 10=Mechanical, 7=0-3-8  
 Max Grav 10=1437(LC 1), 7=705(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1361/0, 3-4=-1361/0, 4-5=-1361/0  
 BOT CHORD 9-10=0/1660, 8-9=0/1361, 7-8=0/640  
 WEBS 2-10=-2131/0, 2-9=-524/124, 5-7=-898/0, 5-8=0/1081, 4-8=-605/0, 3-9=-81/262

**NOTES-**

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 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.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1280 lb down at 1-10-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 7-10=-10, 1-6=-100  
 Concentrated Loads (lb)  
 Vert: 2=-1280(F)



January 28, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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 J1121-6630	Truss F3	Truss Type FLOOR	Qty 1	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950866
-------------------	-------------	---------------------	----------	----------	---	-----------

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:38:22 2022 Page 1  
ID:X5az\_D23vLwLuiTNLUg6bHyGfxb-u\_ve2FOvXuUizWgj4rdmnVaXx260?u0d2Bxbw7zqtaV

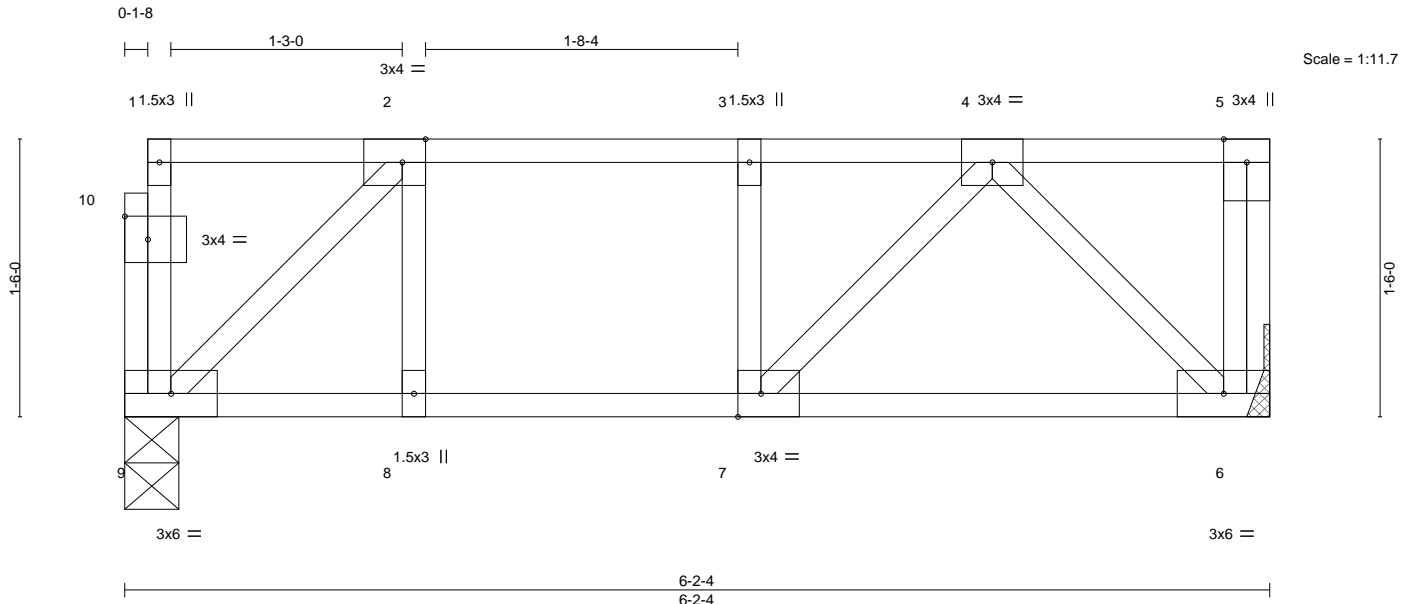


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.27	Vert(LL)	-0.03	6-7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.23	Vert(CT)	-0.04	6-7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						Weight: 37 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** (size) 9=0-3-8, 6=Mechanical  
Max Grav 9=320(LC 1), 6=327(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-324/0, 3-4=-324/0  
BOT CHORD 8-9=0/324, 7-8=0/324, 6-7=0/256  
WEBS 2-9=-447/0, 4-6=-362/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - Plates checked for a plus or minus 1 degree rotation about its center.
  - Refer to girder(s) for truss to truss connections.
  - 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.
  - CAUTION, Do not erect truss backwards.



January 28, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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

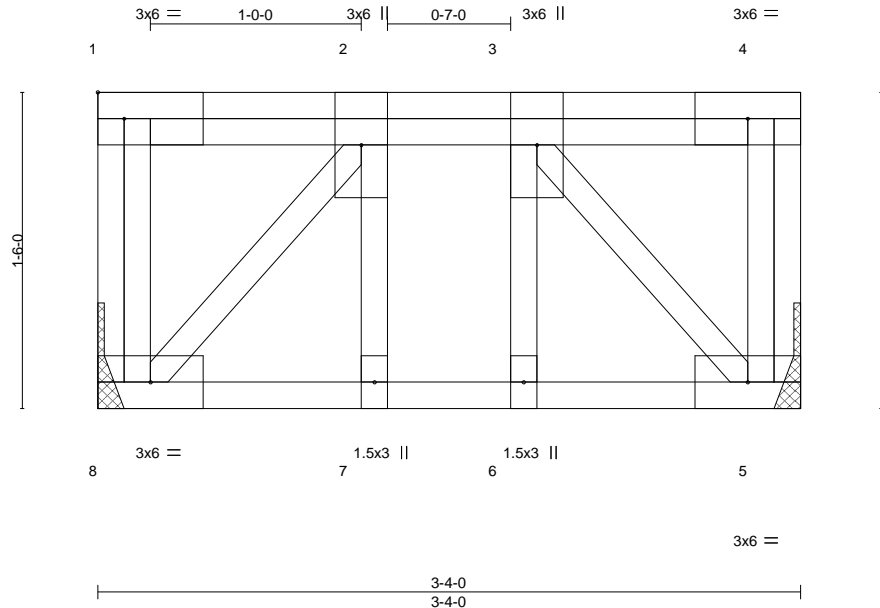


818 Soundside Road  
Edenton, NC 27932

Job J1121-6630	Truss FG1	Truss Type FLOOR GIRDER	Qty 2	Ply 1	Lot 43 Purfoy Place Job Reference (optional)	I49950867
-------------------	--------------	----------------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC - 28314,

8,430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 28 08:38:23 2022 Page 1  
ID:X5az\_D23vLwLuiTNLuG6bHyGfxb-MAT0GbPXICc8bgFvdY8?Kj7IYSRTkJBnGrgU7azqtaU



Scale = 1:10.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.31	Vert(LL) -0.01 7 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.24	Vert(CT) -0.01 7 >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 29 lb	FT = 20%F, 11%E

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 8=Mechanical, 5=Mechanical  
Max Grav 8=992(LC 1), 5=685(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-683/0  
BOT CHORD 7-8=0/683, 6-7=0/683, 5-6=0/683  
WEBS 2-8=-1018/0, 3-5=-1018/0

**NOTES-**

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1371 lb down at 1-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 5-8=-10, 1-4=-100  
Concentrated Loads (lb)  
Vert: 2=-1337(F)



January 28, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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

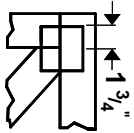


818 Soundside Road  
Edenton, NC 27932

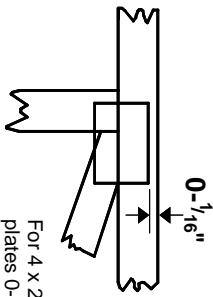


# Symbols

## 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>/<sub>16</sub>" 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 X 4

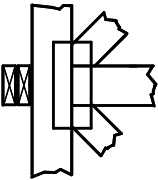
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



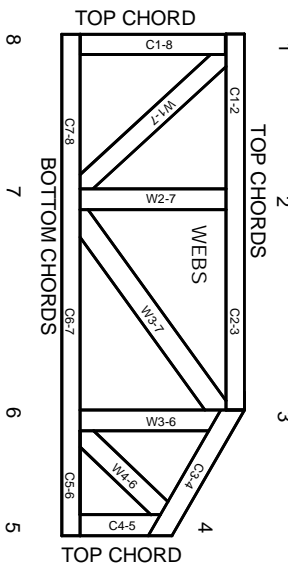
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/ITP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



**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

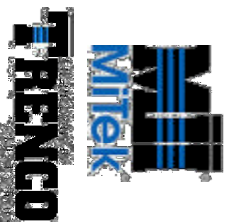
ICC-ES Reports:

ESR-1311, ESR-1352, ESR 1988  
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/TPP 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MITek® All Rights Reserved



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.