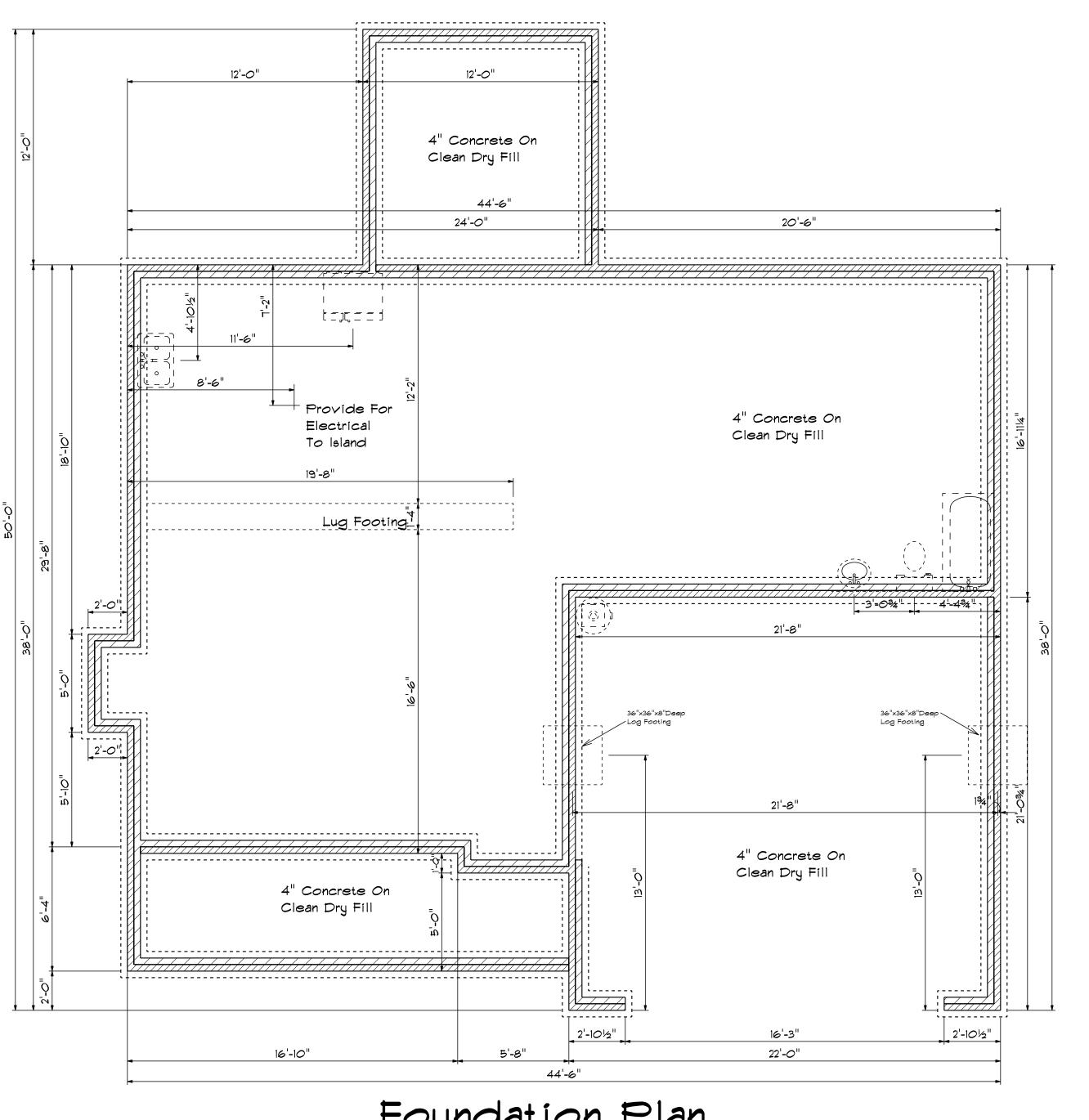


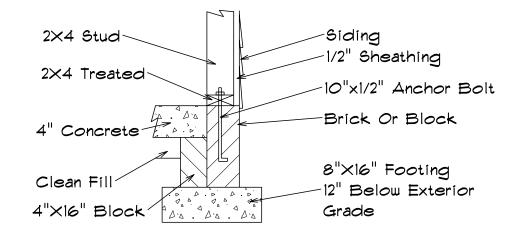
SECOND FLOOR OPENING SCHEDULE								
PRODUCT CODE	SIZE	HINGE	COUNT					
1-6 Door Unit	1'-4"	R	1					
2-0 Door Unit	2'-0"	R	1					
2-4 Door Unit	2'-4"	R	1					
2-4 Door Unit	2'-4"	L	2					
2-6 Door Unit	2'-6"	R	2					
2-6 Door Unit	2'-6"	L	1					
2-8 Door Unit	2'-8"	R	2					
3-0 Doublehung Door Unit	3'-0"	LR	2					
20x32 single	2'-0" x 3'-2"	N	2					
28x52 single	2'-8" x 5'-2"	N	5					
28x52 triple	8'-0" x 5'-2"	NA	1					

Second Floor Plan

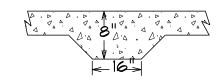
Scale: 1/4"= 1'-0"

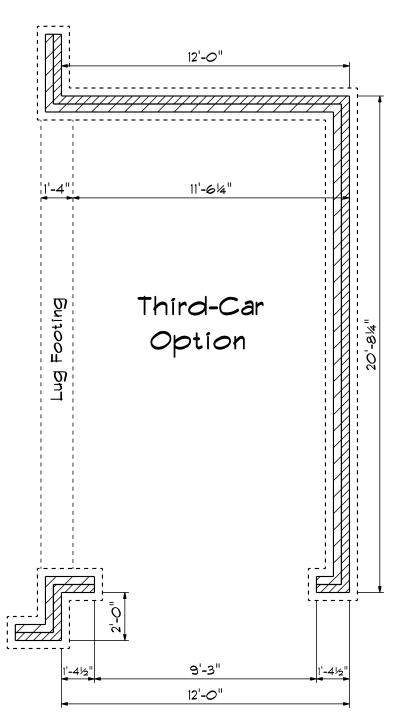


Foundation Detail Siding

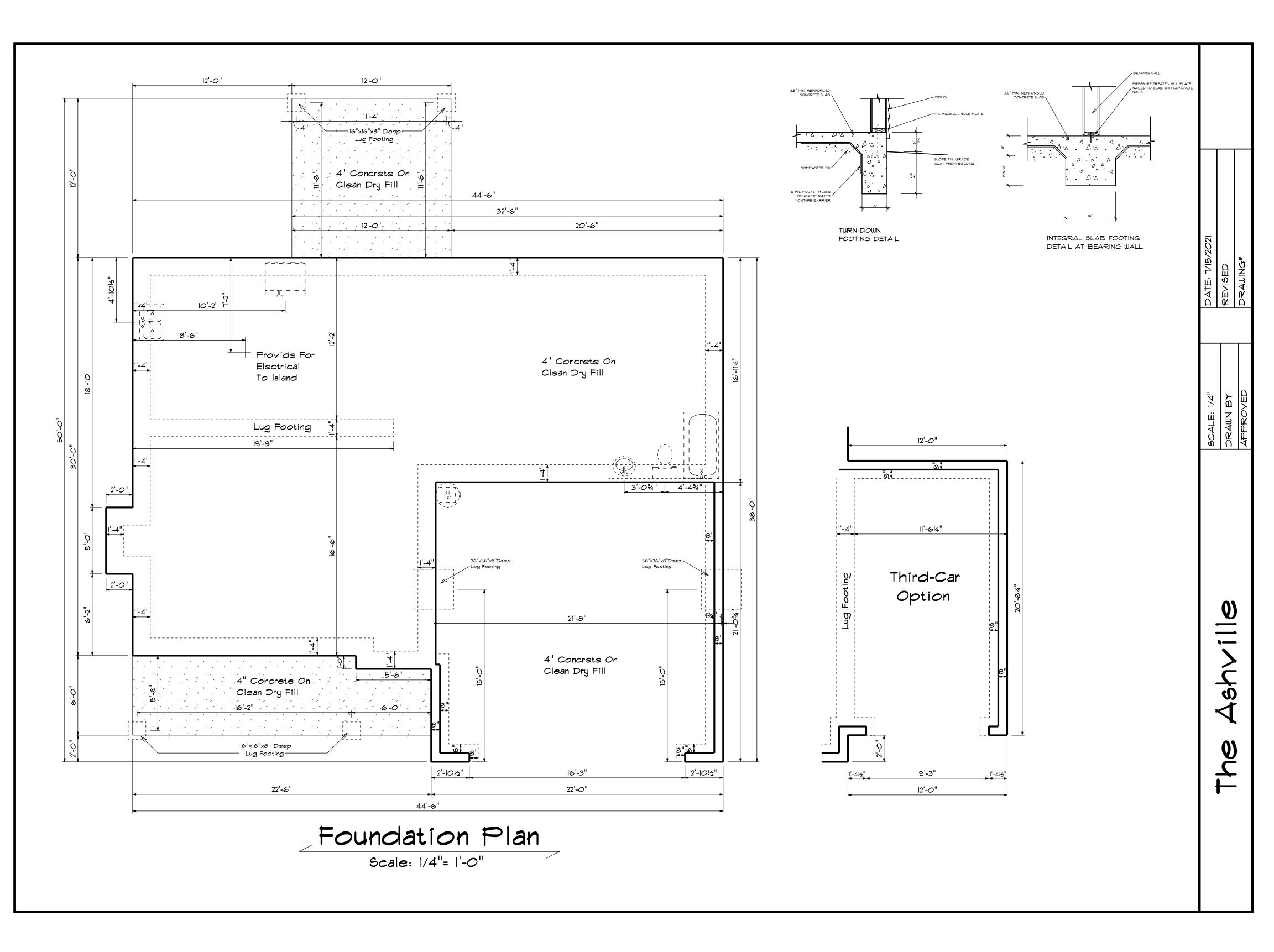


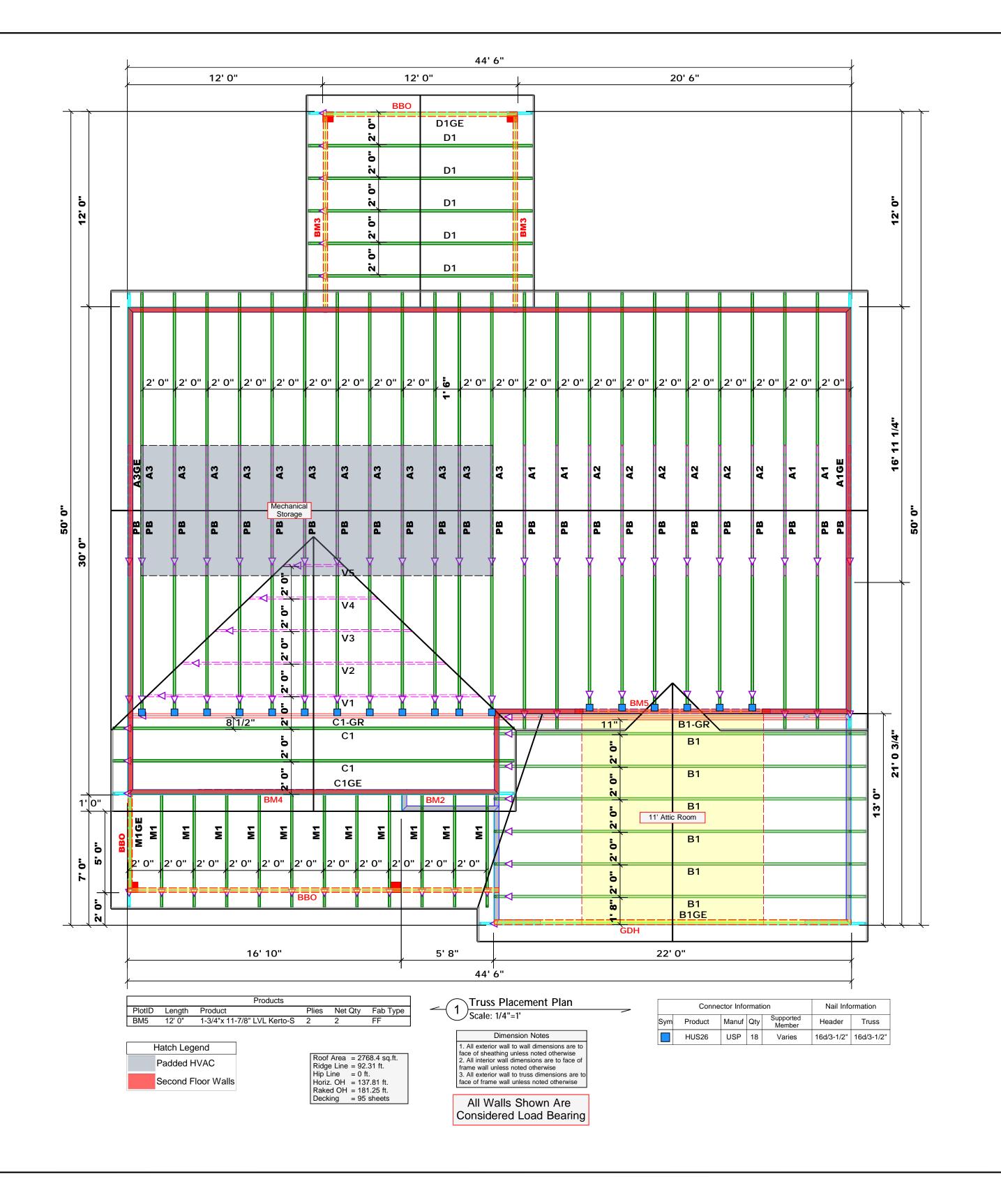
Lug Footing Detail





Foundation Plan Scale: 1/4"= 1'-0"







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

Bearing reactions less than or equal to 300# 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 design the support system for all reactions that exceed 15000#.

Signature_

David Landry

LO.	AD 6	CHAR	RT FO	RJ	ACK :	STUD	5
	(8	ASED O	N TABLE:	S R502	5(1) 4 (1	200	
NU	MBER C		STUDS R HEADER/V			A END OF	
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP T0)	REQ15 STUDS FOR (3) PLY HEADER		END REACTION (OT 9U)	REQ'D STUDS FOR (4) PLY HEADER
1700	1		2550	1		3400	1
3400	2		5100	2		6800	2
5100	3		7650	3		10200	3
6800	4		10200	4		13600	4
8500	5		12750	5		17000	5
10200	6		15300	6			
11900	7						
13600	8						
15300	9						

BUILDER	Benjamin Stout Real Estate	COUNTY	Harnett Co. / Harnett	11900 13600 15300
JOB NAME	Lot 3 Liberty Meadows	ADDRESS	82 Wolcott Court	7 8 9
PLAN	The Ashville / 2GRF, CP	MODEL	Roof	
SEAL DATE	N/A	DATE REV.	08/10/22	
		DRAWN BY	DRAWN BY David Landry	
# 90B #	J0822-4064	SALESMAN	SALESMAN Marshall Naylor	

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



RE: J0822-4064

Lot 3 Liberty Meadows

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J0822-4064 Lot/Block: 3 Model: Ashville

Address: 82 Wolcott Subdivision: Liberty Meadows

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

This package includes 21 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	E16391025	A1	11/9/2021	21	E16391045	V5	11/9/2021
2	E16391026	A1GE	11/9/2021				
3	E16391027	A2	11/9/2021				
4	E16391028	A3	11/9/2021				
5	E16391029	A3GE	11/9/2021				
6	E16391030	B1	11/9/2021				
7	E16391031	B1-GR	11/9/2021				
8	E16391032	B1GE	11/9/2021				
9	E16391033	C1	11/9/2021				
10	E16391034	C1-GR	11/9/2021				
11	E16391035	C1GE	11/9/2021				
12	E16391036	D1	11/9/2021				
13	E16391037	D1GE	11/9/2021				
14	E16391038	M1	11/9/2021				
15	E16391039	M1GE	11/9/2021				
16	E16391040	PB	11/9/2021				
17	E16391041	V1	11/9/2021				
18	E16391042	V2	11/9/2021				
19	E16391043	V3	11/9/2021				
20	E16391044	V4	11/9/2021				

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Gilbert, Eric

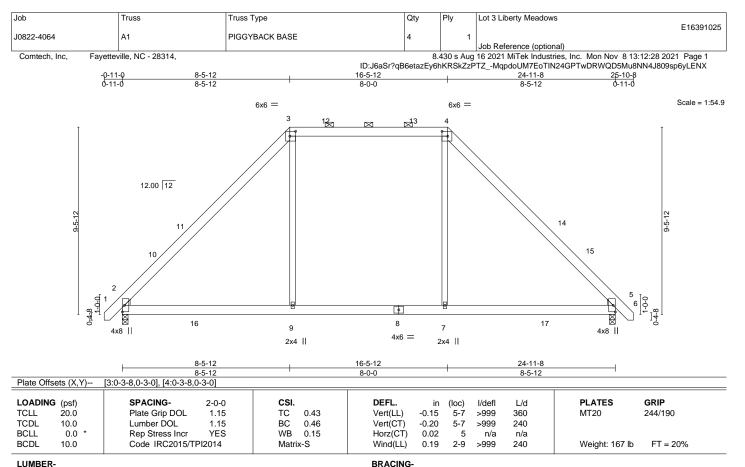
My license renewal date for the state of North Carolina is December 31, 2022

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.



November 09, 2021



TOP CHORD

BOT CHORD

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

WEDGE

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

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

Max Horz 2=223(LC 11)

Max Uplift 2=-35(LC 12), 5=-35(LC 13) Max Grav 2=1309(LC 2), 5=1309(LC 2)

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

2-3=-1465/308, 3-4=-908/350, 4-5=-1465/308 2-9=-36/930, 7-9=-33/938, 5-7=-33/928 TOP CHORD BOT CHORD

3-9=0/653, 4-7=0/653 **WEBS**

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 8-5-12, Exterior(2) 8-5-12 to 14-8-7, Interior(1) 14-8-7 to 16-5-12, Exterior(2) 16-5-12 to 22-8-7, Interior(1) 22-8-7 to 25-8-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5. 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

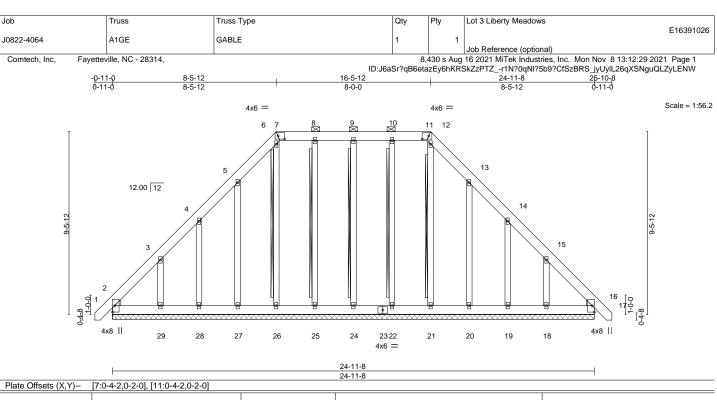
2-0-0 oc purlins (6-0-0 max.): 3-4.

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

November 9,2021







LOADING (psf) SPACING-CSI. DEFL **PLATES** GRIP 2-0-0 I/defl L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) 0.00 16 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) 0.00 16 120 n/r **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 16 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 245 lb FT = 20%

LUMBER-

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

OTHERS 2x4 SP No 2 WEDGE

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

BRACING-TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-11.

Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace:

2x4 SPF No.2 - 9-24, 8-25, 6-26, 10-22,

12-21

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 24-11-8.

(lb) - Max Horz 2=280(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 24, 25, 26, 22, 16 except 2=-114(LC 8), 27=-130(LC 12), 28=-135(LC 12), 29=-221(LC 12), 20=-125(LC 13),

19=-136(LC 13), 18=-214(LC 13)

All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 22, 21, 20, Max Grav 19, 18, 16 except 29=254(LC 19)

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

TOP CHORD 2-3=-311/246

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 25, 26, 22, 16 except (jt=lb) 2=114, 27=130, 28=135, 29=221, 20=125, 19=136, 18=214.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 9,2021

ameters 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 designs. 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 experts.

Start Property Amage Corp general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 3 Liberty Meadows F16391027 J0822-4064 A2 PIGGYBACK BASE Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:30 2021 Page 1 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-JDxNDAONmPj0cMEfXuyhWxVZW9ZXrlvbcKezu?yLENV 24-8-0 8-5-12 8-2-4 8-2-4 8-0-0 Scale = 1:53.9 6x6 =5x5 = 12 \bowtie 3 12.00 12 4x4 // 4x4 // 14 15 1-3-8 6 5 8 16 9 7 3x10 4x8 || 4x6 = 2x4 || 2x4 || 8-2-4 16-2-4 24-8-0 8-2-4 [1:Edge,0-0-0], [3:0-3-8,0-3-0], [4:0-2-12,0-2-12] Plate Offsets (X,Y)--LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI I/defl L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.44 Vert(LL) -0.29 5-7 >999 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 ВС 0.53 -0.34 5-7 >861 240 0.13 **BCLL** 0.0 Rep Stress Incr YES WB Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.19 5-7 >999 240 Weight: 176 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Right: 2x4 SP No.2

SLIDER Left 2x6 SP No.1 5-11-1

REACTIONS.

(size) 1=Mechanical, 5=0-3-8

Max Horz 1=-221(LC 8)

Max Uplift 1=-20(LC 12), 5=-35(LC 13)

Max Grav 1=1087(LC 2), 5=1249(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-3=-1337/307, 3-4=-815/353, 4-5=-1306/303 TOP CHORD

BOT CHORD 1-9=-36/838, 7-9=-32/844, 5-7=-33/836

WEBS 3-9=0/518, 4-7=0/562

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 8-2-4, Exterior(2) 8-2-4 to 14-4-15, Interior(1) 14-4-15 to 16-2-4, Exterior(2) 16-2-4 to 22-4-15, Interior(1) 22-4-15 to 25-5-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

2-0-0 oc purlins (6-0-0 max.): 3-4.

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

November 9,2021

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



Job Truss Truss Type Qty Ply Lot 3 Liberty Meadows F16391028 J0822-4064 АЗ PIGGYBACK BASE 12 Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:31 2021 Page 1 $ID: J6aSr? qB6etazEy6hKRSkZzPTZ_-nPVIQWP?XjrtEVpr5cTw381jxZujaknlq_NXQRyLENU\\$ 24-11-8 8-0-0 8-5-12 Scale = 1:57.7 6x6 =6x6 =2 12.00 12 13 1-0-0 T 15 16 6 4x8 || 4x8 II 3x4 || 3x4 | 3x10 =4x8 = 4x6 = 4x4 = 16-5-12 [2:0-3-8,0-3-0], [3:0-3-8,0-3-0] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.46 Vert(LL) -0.14 1-8 >999 360 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.15 ВС 0.53 -0.19 1-8 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.17 1-8 >999 240 Weight: 181 lb FT = 20% LUMBER-**BRACING-**TOP CHORD

BOT CHORD

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

2x4 SP No.2 WFBS

WEDGE

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

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

Max Horz 1=-221(LC 8)

Max Uplift 1=-22(LC 12), 4=-35(LC 13) Max Grav 1=1263(LC 2), 4=1314(LC 2)

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

1-2=-1449/307, 2-3=-925/359, 3-4=-1489/315 1-8=-35/947, 6-8=-37/955, 4-6=-32/944 TOP CHORD

BOT CHORD

2-8=0/660, 3-6=0/667 **WEBS**

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; DCDL=6.0psf; and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 8-5-12, Exterior(2) 8-5-12 to 14-8-7, Interior(1) 14-8-7 to 16-5-12, Exterior(2) 16-5-12 to 22-8-7, Interior(1) 22-8-7 to 25-8-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

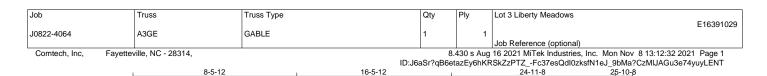
Rigid ceiling directly applied or 10-0-0 oc bracing.

2-0-0 oc purlins (6-0-0 max.): 2-3.

November 9,2021







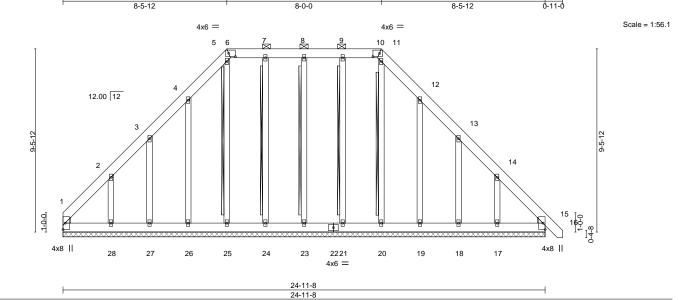


Plate Offse	ets (X,Y)	[6:0-4-2,0-2-0], [10:0-4-2	,0-2-0]										
LOADING TCLL	i (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.04	DEFL. Vert(LL)	in 0.00	(loc) 15	l/defl	L/d 120	PLATES MT20	GRIP 244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	15	n/r n/r	120	IVITZU	244/190	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	15	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 242 lb	FT = 20%	

LUMBER-

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

OTHERS 2x4 SP No.2 WEDGE

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

BRACING-

BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-10.

Rigid ceiling directly applied or 10-0-0 oc bracing.
T-Brace: 2x4 SPF No.2 - 8-23.

2x4 SPF No.2 - 8-23, 7-24, 5-25, 9-21,

11-20

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 24-11-8.

(lb) - Max Horz 1=-277(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 21, 15 except

26=-129(LC 12), 27=-134(LC 12), 28=-228(LC 12), 19=-125(LC 13), 18=-136(LC

13), 17=-214(LC 13), 1=-120(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 27, 21, 20, 19,

18, 17, 1, 15 except 28=266(LC 19)

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

TOP CHORD 1-2=-317/250 WEBS 2-28=-252/242

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 25, 21, 15 except (jt=lb) 26=129, 27=134, 28=228, 19=125, 18=136, 17=214, 1=120.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 9,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
10000 4004	D4	ATTIC			E16391030
J0822-4064	B1	ATTIC	В	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:33 2021 Page 1

Structural wood sheathing directly applied or 5-1-3 oc purlins.

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

1 Brace at Jt(s): 13

		ID:J6a	Sr?qB6etazEy	6hKRSkZzPTZjod	WrCQF3K6b	TpyDC1VO8Z7?ANYi2d	V2IIsdVKyLENS
5-5-8	9-1-13	10-11-8 12-9-3	16-5-8	21-11-0	22-10 _T 0		
5-5-8	3-8-5	1-9-11 1-9-11	3-8-5	5-5-8	0-11-b		

Scale = 1:71.8 6x8 =

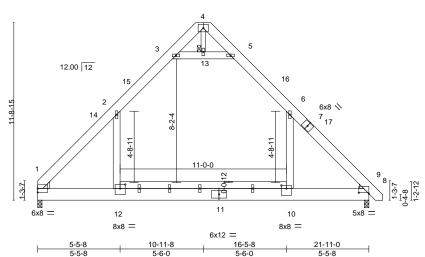


Plate Offsets (X,Y)-- [8:0-8-0,0-0-13], [10:0-4-0,0-2-8], [12:0-4-0,0-3-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.21 10-12 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.36 10-12 >720 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01 8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 10-12 >999 240	Weight: 248 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x8 SP No.1

2x10 SP No.1 *Except* 10-12: 2x6 SP No.1 **BOT CHORD**

2x6 SP No.1 *Except* WEBS

4-13: 2x4 SP No.2

WEDGE

Left: 2x6 SP No.2, Right: 2x4 SP No.3

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

Max Horz 1=-277(LC 8)

Max Grav 1=1413(LC 21), 8=1459(LC 21)

BOT CHORD 1-12=0/1085, 10-12=0/1085, 8-10=0/1085

WEBS 6-10=0/975, 2-12=0/889, 3-13=-1621/246, 5-13=-1621/246

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 22-7-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-13, 5-13; Wall dead load (5.0psf) on member(s).6-10, 2-12
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 8) Attic room checked for L/360 deflection.



November 9,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



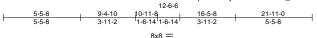
ĺ	Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
	J0822-4064	B1-GR	ATTIC	1	2	E16391031
					ာ	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:36 2021 Page 1 $ID: J6aSr? qB6etazEy6hKRSkZzPTZ_-7NIeUDT8LFUAKHhot 935mCIWcaZIFxRU_G5I5 fyLENPART AND STANDART STAND$

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

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

1 Brace at Jt(s): 11



Scale = 1:77.0

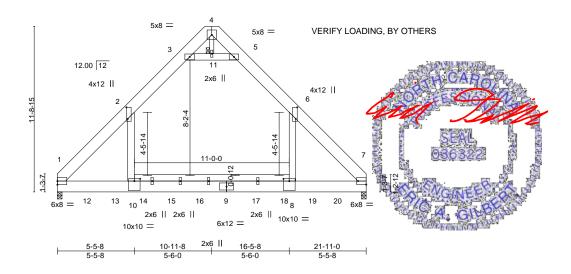


Plate Off	late Offsets (X,Y) [2:0-9-12,0-1-4], [6:0-9-12,0-1-4], [7:Edge,0-3-0], [8:0-5-0,0-2-0], [10:0-5-0,0-2-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.29	8-1Ó	>905	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.39	8-10	>666	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.02	7	n/a	n/a			
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S	Wind(LL)	0.01	10	>999	240	Weight: 801 lb	FT = 20%	

BRACING-

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x10 SP 2400F 2.0E BOT CHORD 2x10 SP No.1 *Except* 8-10: 2x6 SP No.1

WEBS 2x6 SP No.1 *Except* 4-11: 2x4 SP No.2

REACTIONS. (size) 1=0-4-0, 7=0-4-0

Max Horz 1=271(LC 5)

Max Grav 1=9588(LC 14), 7=9573(LC 14)

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

TOP CHORD 1-2=-10113/0, 2-3=-4213/35, 3-4=-19/3638, 4-5=-20/3649, 5-6=-4203/35, 6-7=-10124/0

BOT CHORD 1-10=0/5656, 8-10=0/5720, 7-8=0/5656

WEBS 6-8=0/8207, 2-10=0/8177, 3-11=-11296/4, 5-11=-11296/4, 4-11=0/835

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 5 rows staggered at 0-4-0 oc.

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

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage; #4 Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #5 Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #8 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #9 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #11 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #12 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #13 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #14 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #15 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #16 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #17 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #18 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #19 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #18 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #19 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #19 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #19 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. In (Pos. Internal) 4th Parallel; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #20 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); Int) 2nd Parallel).

November 9,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	B1-GR	ATTIC	1		E16391031
00022 100 1	2. 3.			3	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:36 2021 Page 2 ID:J6aSr?qB6etazEy6hKRŠkZzPTZ_-7NIeUDT8LFUAKHhot935mClWcaZIFxRU_G5l5fyLENP

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.
- 8) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-11, 5-11; Wall dead load (5.0psf) on member(s).6-8, 2-10
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-10
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1726 lb down at 1-11-12, 1726 lb down at 3-11-12, 3826 lb down at 5-2-12, 376 lb down and 34 lb up at 5-11-12, 376 lb down and 34 lb up at 7-11-12, 376 lb down and 34 lb up at 9-11-12, 376 lb down and 34 lb up at 11-11-12, 376 lb down and 34 lb up at 13-11-12, 376 lb down and 34 lb up at 15-11-12, 3826 lb down at 16-8-4, and 1726 lb down at 17-11-12, and 1726 lb down at 19-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-80, 3-4=-60, 4-5=-60, 5-6=-80, 6-7=-60, 1-10=-20, 8-10=-40, 7-8=-20, 3-5=-20

Drag: 6-8=-10, 2-10=-10

Concentrated Loads (lb)

Vert: 9=-62(B) 8=-1029(B) 10=-1029(B) 12=-430(B) 13=-430(B) 14=-62(B) 15=-62(B) 16=-62(B) 17=-62(B) 18=-62(B) 19=-430(B) 20=-430(B)



Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	B1GE	GABLE	1	,	E16391032
30022-4004	DIGE	GABLE	'	· '	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:34 2021 Page 1 VycB1myLENR

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

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

1 Brace at Jt(s): 23

			ID:36851.4t	o o e laz Eyon K	SKZZP I ZB_BU3X	RideE997Y	ZITIKUUNNIA4IIIVZN4HBVVY
-Q-11 ₁ 0	5-5-8	9-1-13	10-11-8, 12-9-3	16-5-8	21-11-0	22-10 _T 0	
0-11-h	5-5-8	3-8-5	1-9-11 1-9-11	3-8-5	5-5-8	0-11-b	

Scale = 1:73.2 6x8 =

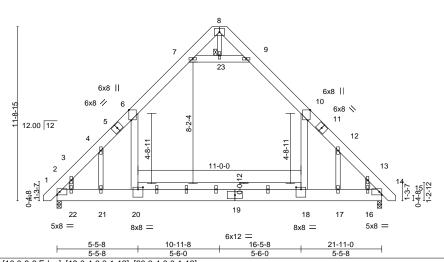


Plate Offsets (X,Y)	[6:0-8-6,Edge], [10:0-8-6,Edge], [18:0-4	-0,0-1-12], [20:0-4-0,0-1-1	12]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.17 18-20 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.30 18-20 >855 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 14 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 18-20 >999 240	Weight: 261 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x8 SP No.1

2x10 SP No.1 *Except* **BOT CHORD** 18-20: 2x6 SP No.1

2x6 SP No.1 *Except* WEBS

8-23: 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 14=0-3-8

Max Horz 2=349(LC 11)

Max Grav 2=1443(LC 20), 14=1443(LC 21)

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

TOP CHORD 2-3=-1821/0, 3-4=-1558/0, 4-6=-1957/23, 6-7=-1028/184, 7-8=-60/389, 8-9=-61/390, 9-10=-1028/184, 10-12=-1956/22, 12-13=-1557/0, 13-14=-1821/0

BOT CHORD 2-22=0/1098, 21-22=0/1110, 20-21=0/1095, 18-20=0/1095, 17-18=0/1095, 16-17=0/1109,

14-16=0/1092

WEBS 10-18=0/1192, 6-20=0/1192, 7-23=-1506/324, 9-23=-1506/324, 4-21=-717/135,

3-22=0/341, 12-17=-717/135, 13-16=0/341

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x6 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (10.0 psf) on member(s). 6-7, 9-10, 7-23, 9-23; Wall dead load (5.0psf) on member(s).10-18, 6-20
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20
- 10) Attic room checked for L/360 deflection.



November 9,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	C1	COMMON	2	1	E16391033
30022-4004	C1	COMMON	2	'	Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:37 2021 Page 1

ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-cZs0hZTm6Zc1yQG?RsaKIPHqn_?J_PKdDwqre5yLENO 11-4-12 17-4-12 0-11-0 6-0-0 6-0-0

> Scale = 1:68.6 5x8 =

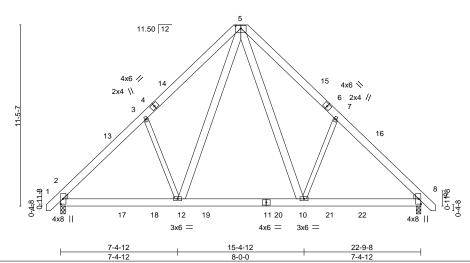


Plate Offsets (X,Y)--[5:0-4-0,0-2-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 (loc) I/defl L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) -0.05 10-12 >999 360 MT20 244/190 TCDL -0.07 10-12 10.0 Lumber DOL 1.15 ВС 0.26 Vert(CT) >999 240 0.27 **BCLL** 0.0 Rep Stress Incr YES WB Horz(CT) 0.01 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01 2-12 >999

240

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

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

Weight: 204 lb

FT = 20%

LUMBER-

BCDL

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

10.0

7-10,3-12: 2x4 SP No.2

WEDGE

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

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

Max Horz 2=-280(LC 10)

Max Uplift 2=-42(LC 12), 8=-42(LC 13) Max Grav 2=1057(LC 19), 8=1057(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1210/251, 3-5=-1109/415, 5-7=-1110/415, 7-8=-1210/251

Code IRC2015/TPI2014

BOT CHORD 2-12=-91/943, 10-12=0/619, 8-10=-42/811

WEBS 5-10=-201/658, 7-10=-406/304, 5-12=-201/657, 3-12=-406/304

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-6 to 3-7-7, Interior(1) 3-7-7 to 11-4-12, Exterior(2) 11-4-12 to 15-9-9, Interior(1) 15-9-9 to 23-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



November 9,2021

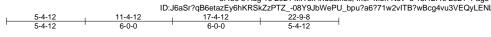
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

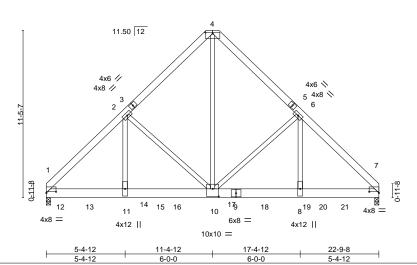
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
					E16391034
J0822-4064	C1-GR	COMMON GIRDER	1	2	
					Job Reference (optional)
Comtech, Inc, Fayettev	rille, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:40 2021 Page 1
		ID: IcoCr	2aBCoto-I	LICH K DCK	7-DT7 09V0 lbWoDLL bpu2c6271w2vITD2wDcg4/w2VEOvLENI



Scale = 1:74.3 5x12 =



[1:0-8-0,0-0-15], [4:0-6-0,0-1-0], [7:0-8-0,0-0-15], [10:0-5-0,0-6-4] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI DEFL **PLATES** GRIP 2-0-0 in I/defl L/d (loc) TCLL 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.10 8-10 >999 360 MT20 244/190 TCDL -0.17 8-10 >999 240

BOT CHORD

10.0 Lumber DOL 1.15 ВС 0.40 Vert(CT) **BCLL** 0.0 Rep Stress Incr NO WB 0.94 Horz(CT) BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL)

0.04 n/a n/a 0.05 8-10 >999 240 Weight: 396 lb **BRACING-**TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins.

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

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

2x4 SP No 2

(size) 1=0-3-8, 7=0-3-8

Max Horz 1=-270(LC 23) Max Uplift 1=-225(LC 9), 7=-237(LC 8) Max Grav 1=7977(LC 2), 7=8527(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-8698/296, 2-4=-5745/316, 4-6=-5744/316, 6-7=-8803/299 **BOT CHORD** 1-11=-233/5962, 10-11=-233/5971, 8-10=-139/6041, 7-8=-139/6032

4-10=-299/7498, 6-10=-2640/260, 6-8=-42/3902, 2-10=-2545/257, 2-11=-37/3758 **WEBS**

NOTES-

LUMBER-

REACTIONS.

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=225, 7=237.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1246 lb down and 39 lb up at 0-10-4, 1243 lb down and 42 lb up at 2-10-4, 1243 lb down and 42 lb up at 4-10-4, 1243 lb down and 42 lb up at 6-10-4, 1243 lb down and 42 lb up at 8-10-4, 1243 lb down and 42 lb up at 10-10-4, 1243 lb down and 42 lb up at 12-10-4, 1243 lb down and 42 lb up at 14-10-4, 1243 lb down and 42 lb up at 16-10-4, 1243 lb down and 42 lb up at 18-10-4, and 1243 lb down and 42 lb up at 20-4-4, and 1250 lb down and 35 lb up at 22-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



FT = 20%

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ameters 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 designs. 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 experts.

Start Property Amage Corp general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	C1-GR	COMMON GIRDER	1	_	E16391034
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:40 2021 Page 2 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_08Y9JbWePU_bpu?a6?71w2vITB?wBcg4vu3VEQyLENL

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

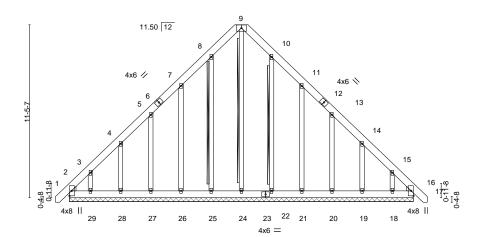
Vert: 9=-969(B) 7=-976(B) 12=-972(B) 13=-969(B) 14=-969(B) 15=-969(B) 16=-969(B) 17=-969(B) 18=-969(B) 19=-969(B) 20=-969(B) 21=-969(B)



Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows	
					E163	391035
J0822-4064	C1GE	COMMON SUPPORTED GAB	1	1		
					Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:38 2021 Pag	je 1
			ID. 10-0-0-D0-1-	-F-01-14D	01.7-DT7 4 0.0- 11.01-11 D0 - F71-4 - 0.D71-4 - D 0.AV-1 F1	N I N I

ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-4mQPuvUOtsktaarB?a5Zrdq1aOP7ju1nRaaOAXyLENN 22-9-8 0-11-0 11-4-12 11-4-12

> Scale = 1:71.8 5x8 =



22-9-8

22-9-8 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl L/d Plate Grip DOL Vert(LL) 244/190 **TCLL** 20.0 1.15 TC 0.05 -0.00 120 MT20 16 n/r TCDL 10.0 Lumber DOL 1.15 вс 0.03 Vert(CT) -0.00 16 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.18 Horz(CT) 0.01 16 n/a n/a BCDL Code IRC2015/TPI2014 Weight: 227 lb FT = 20%

LUMBER-

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

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

BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 9-24, 8-25, 10-22 T-Brace:

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 22-9-8.

Max Horz 2=-350(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25, 22 except 2=-170(LC 10), 26=-147(LC 12), 27=-130(LC 12),

28=-137(LC 12), 29=-210(LC 12), 21=-150(LC 13), 20=-130(LC 13), 19=-136(LC 13), 18=-200(LC 13),

16=-103(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18 except 2=362(LC 12), 16=317(LC 13)

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

2-3=-506/298, 3-4=-336/228, 14-15=-285/175, 15-16=-449/302 TOP CHORD

BOT CHORD 2-29=-218/336, 28-29=-220/337, 27-28=-220/337, 26-27=-221/337, 25-26=-221/337,

24-25=-221/337, 22-24=-221/337, 21-22=-221/337, 20-21=-221/337, 19-20=-220/337,

18-19=-220/336, 16-18=-218/335

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 22 except $(jt=lb)\ 2=170,\ 26=147,\ 27=130,\ 28=137,\ 29=210,\ 21=150,\ 20=130,\ 19=136,\ 18=200,\ 16=103.$
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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



Job	Truss	Truss Type	(Qty	Ply	Lot 3 Liberty Meadow	rs .	
J0822-4064	D1	COMMON			1			E16391036
J0622-4004	Di	COMMON)	'	Job Reference (option	nal)	
Comtech, Inc, Fa	yetteville, NC - 28314,			8.	430 s Aug	16 2021 MiTek Indust	ries, Inc. Mon Nov 8 1	3:12:41 2021 Page 1
-0-11-0		5-11-8	ID:J6aSr?qE	36etazEy	/6hKRSkZ	zPTZUL6XXxXGAn6	SSR2ZmgifGTFSV8bPF	lwHcD8Yo2nsyLENK
-0-11-0 0-11-0	+	5-11-8 5-11-8	+			11-11-0 5-11-8		12-10-0
								Scale: 1/2"=1'
			5x5 =					Scale: 1/2 =1
_			3					
			/ 口 >					
	6.00 12							
	•					9		
		8			`			
5		/ /			`			
3-8-15							10	
	7							
_ 2								4
-/								5
6-9-3								2.6
0.3-12			_					0-3-12
. 9 .								
			6					$\overline{\lambda}$
3x	4 =		2x4				3x4 =	_
		5-11-8				11-11-0		_
Dist. 0" (V/V)	[0 0 0 0 0 1 10] [1 0 0 0 0 0	5-11-8	'			5-11-8		
Plate Offsets (X,Y)	[2:0-2-0,0-1-12], [4:0-2-0,0-1	-12]					T	
LOADING (psf)	SPACING- 2	-0-0 CSI.	DEFL.	in	(loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0		1.15 TC 0.16	Vert(LL)	0.02		>999 240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC 0.13	Vert(CT)	-0.02		>999 240		
BCLL 0.0 *	Rep Stress Incr	YES WB 0.06	Horz(CT)	0.01	4	n/a n/a		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WFBS 2x4 SP No.1

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

Max Horz 2=43(LC 11) Max Uplift 2=-106(LC 9), 4=-106(LC 8)

Code IRC2015/TPI2014

Max Grav 2=517(LC 1), 4=517(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-626/654, 3-4=-626/654 BOT CHORD 2-6=-466/475, 4-6=-466/475

WEBS 3-6=-364/279

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-11-8, Exterior(2) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 12-7-10 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=106, 4=106.



Weight: 69 lb

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

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

FT = 20%

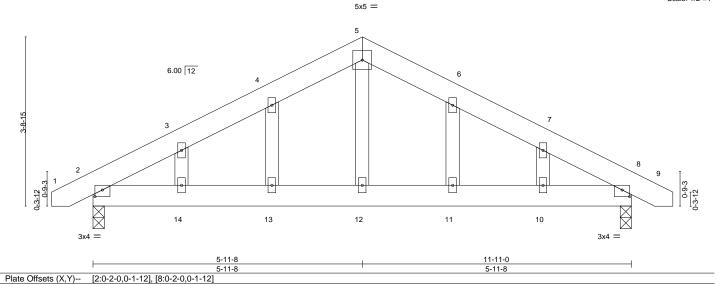
November 9,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows	
J0822-4064	D1GE	GABLE	1	1		E16391037
30022-4004	DIOL	OABLE	ı'	'	Job Reference (optional)	
Comtech, Inc, Fayettev	ville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8	13:12:42 2021 Page 1
			ID:J6aSr?qB6eta	zEy6hKR	SkZzPTZyXfvkGXvx5EJ3C8yEQAV?T?h\	/?IPfksMMCYcJJyLENJ
0-11-0		5-11-8			11-11-0	12-10-0
0-11-0		5-11-8			5-11-8	0-11-0

Scale: 1/2"=1'



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

(loc)

-0.01 13-14

-0.02 13-14

0.02 10-11

0.01

I/defl

>999

>999

>999

n/a

L/d

360

240

n/a

240

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

10.0

10.0

0.0

OTHERS 2x4 SP No.2

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

Max Horz 2=68(LC 12)

Max Uplift 2=-137(LC 9), 8=-137(LC 8) Max Grav 2=517(LC 1), 8=517(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-623/674, 3-4=-555/669, 4-5=-530/694, 5-6=-530/694, 6-7=-555/669, 7-8=-623/674 BOT CHORD 2-14=-490/476, 13-14=-490/476, 12-13=-490/476, 11-12=-490/476, 10-11=-490/476,

2-0-0

1.15

1.15

YES

8-10=-490/476 WEBS 5-12=-372/227

NOTES

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB 0.06

0.12

0.14

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=137, 8=137.



PLATES

Weight: 77 lb

MT20

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

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

GRIP

244/190

FT = 20%

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	M1	MONOPITCH	11	1	E16391038
00022 100 1		Interversion			Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:42 2021 Page 1

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

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

except end verticals.

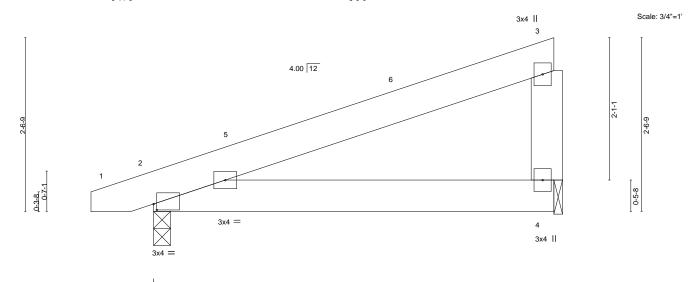


Plate Offs	sets (X,Y)	[2:0-0-9,0-1-1]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.ó	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Wind(LL)	0.03	2-4	>999	240	Weight: 34 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1 WFBS

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

Max Horz 2=71(LC 8)

Max Uplift 2=-104(LC 8), 4=-97(LC 8)

Max Grav 2=274(LC 1), 4=223(LC 1)

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

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-9 to 3-9-4, Interior(1) 3-9-4 to 5-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=104.



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JOD	Truss		I rus	ss Type		Qty	Ply	Lot 3 Liberty Meadows	
									E16391039
J0822-4064	M1GE	Ē	GAB	BLE		1	1		
								Job Reference (optional)	
Comtech, Inc, Fayettev	/ille, No	C - 28314,				8.4	130 s Aug	16 2021 MiTek Industries, Inc. Mon I	Nov 8 13:12:43 2021 Page 1
					ID:J6	aSr?qB6e	tazEy6hKl	RSkZzPTZQjDlycYXiPMAgLj8o7hk	YgXsbP5KOBuWbrH9rlyLENI
	1	-0-11-0			6-0-)			
		0-11-0			6-0-)		1	
								3x4	Scale: 3/4"=1'

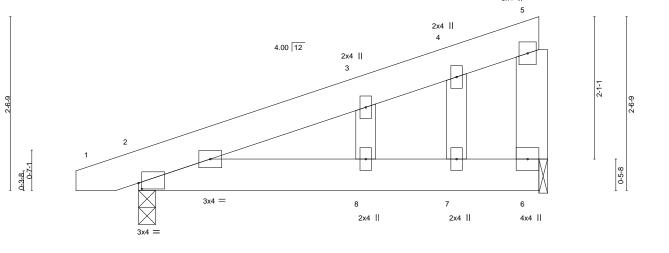


Plate Off	Plate Offsets (X,Y) [2:0-0-9,0-1-1]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.02	2-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 37 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1 WFBS

2x4 SP No.2 **OTHERS**

REACTIONS. (size) 2=0-3-0, 6=0-1-8

Max Horz 2=101(LC 8)

Max Uplift 2=-151(LC 8), 6=-142(LC 8) Max Grav 2=274(LC 1), 6=223(LC 1)

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

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable acone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=151, 6=142.



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

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

except end verticals.

November 9,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	PB	Piggyback	24	1	E16391040
00022 4004		i iggybaok			Job Reference (optional)
Occasionals have Francisco	'II- NO 00044		_	100 - 1	40 0004 MT-Is Indicated as Inc. Man New 0 40 40 44 0004 Page 4

4-0-0 4-0-0

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-uvng9yZ9TiU1IVILLrCz5u4?doRi7evfqV1jNByLENH

4-0-0

Scale = 1:25.9 4x4 =

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

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

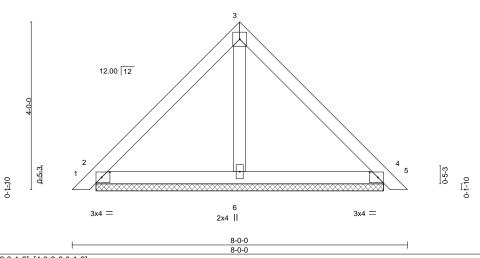


Plate Offsets (X,Y)	[2:0-2-6,0-1-8], [4:0-2-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) 0.01 5 n/r 120 MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.01 5 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Weight: 32 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 OTHERS

REACTIONS. (size) 2=6-10-6, 4=6-10-6, 6=6-10-6

Max Horz 2=-114(LC 10)

Max Uplift 2=-65(LC 13), 4=-71(LC 13)

Max Grav 2=190(LC 1), 4=190(LC 1), 6=214(LC 3)

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

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



November 9,2021



Job	Truss	Truss Type	Qty	P	Ply	Lot 3 Liberty Meadows
						E1639
J0822-4064	V1	VALLEY	1		1	
						Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,			8.43	30 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:45 2021 Page
			ID:J6aSr?qB6	6etazEy	6hKRSk	ZzPTZN6L2MlanE0cuwftXvYjCd5dB6CmNs2Jp29mGwdyLEN
	L	10-2-8	1		20-5-1	<u> </u>
	ı	10-2-8	ı		10-2-9	'
			444 =			Scale =

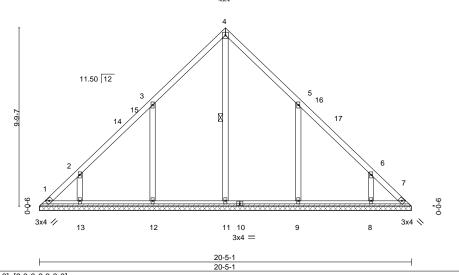


Plate Of	Plate Oπsets (X, Y) [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	7	n/a	n/a			
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 105 lb	FT = 20%	

LUMBER-

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

OTHERS

2x4 SP No.2

BRACING-

TOP CHORD BOT CHORD WFBS

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

1 Row at midpt 4-11

REACTIONS. All bearings 20-5-1.

(lb) - Max Horz 1=226(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-173(LC 12), 13=-126(LC 12), 9=-173(LC 13),

8=-126(LC 13)

All reactions 250 lb or less at joint(s) 1, 7 except 11=440(LC 22), 12=486(LC 19), 13=285(LC 19), 9=485(LC 20), 8=285(LC 20)

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

WEBS $3-12=-393/294,\ 2-13=-299/243,\ 5-9=-393/294,\ 6-8=-299/243$

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-6 to 4-9-2, Interior(1) 4-9-2 to 10-2-8, Exterior(2) 10-2-8 to 14-7-5, Interior(1) 14-7-5 to 20-0-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=173, 13=126, 9=173, 8=126.



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Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	V2	VALLEY	1	1	E16391042
30022-4004	VZ	VALLE	'		Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:46 2021 Page 1 $ID: J6aSr? qB6etazEy6hKR\mathring{S}kZzPTZ_-rIvQaeaP?KklXpSjTFERAJ9Mfc6ebWmyHpWpS4yLENFALAMART AND STANDARD AND STA$

Scale = 1:49.9



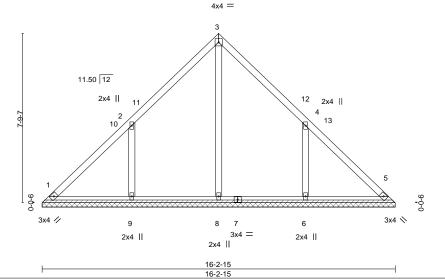


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 I/defI L/d Plate Grip DOL 244/190 **TCLL** 20.0 1.15 TC 0.17 Vert(LL) n/a n/a 999 MT20 TCDL Lumber DOL 10.0 1.15 ВС 0.19 Vert(CT) n/a n/a 999 0.13 0.00 BCLL 0.0 Rep Stress Incr YES WB Horz(CT) n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 77 lb FT = 20%

LUMBER-TOP CHORD

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

BRACING-TOP CHORD **BOT CHORD**

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

REACTIONS. All bearings 16-2-15.

(lb) - Max Horz 1=-178(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-182(LC 12), 6=-182(LC 13)

All reactions 250 lb or less at joint(s) 1, 5 except 8=418(LC 22), 9=503(LC 19), 6=503(LC 20)

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

WEBS 2-9=-406/302, 4-6=-406/302

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-6 to 4-9-2, Interior(1) 4-9-2 to 8-1-8, Exterior(2) 8-1-8 to 12-6-4, Interior(1) 12-6-4 to 15-10-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=182, 6=182,



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Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4064	V3	VALLEY	1	1	E16391043
30022-4004	VS	VALLET	'	'	Job Reference (optional)

6-0-7

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:47 2021 Page 1 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-JUTon_b1mdsc9z1w1zlgiWiXz0TMK_y6WTFN_WyLENE 12-0-14

6-0-7

4x4 = Scale = 1:36.2

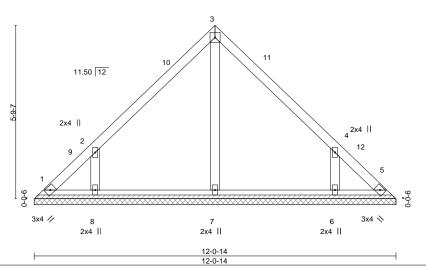


Plate Off	sets (X,Y)	[4:0-0-0,0-0-0]											
LOADIN	(1 - /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 53 lb	FT = 20%	

LUMBER-

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

OTHERS 2x4 SP No.1

BRACING-

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

REACTIONS. All bearings 12-0-14.

(lb) - Max Horz 1=-130(LC 8)

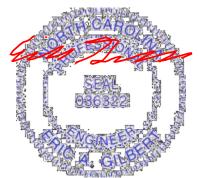
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-150(LC 12), 6=-150(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=334(LC 19), 6=334(LC 20)

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

WEBS 2-8=-344/282, 4-6=-344/282

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-6 to 4-9-2, Interior(1) 4-9-2 to 6-0-7, Exterior(2) 6-0-7 to 10-5-4, Interior(1) 10-5-4 to 11-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=150, 6=150.



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Comtech, Inc, Fayetteville, NC - 28314,	VyyLEND
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
4x4 =	Scale = 1:25.3
	Scale = 1:25.3
11.50 12	
g	
98 98	
3	
÷ 1000000000000000000000000000000000000	
3x4 // 4 2x4 3x4 №	
7-10-12	
7-10-12	
LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 20.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) n/a - n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) n/a - n/a 999 MT20 244/190	
TCDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) n/a - n/a 999 BCLL 0.0 * Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 31 lb FT = 2	20%

LUMBER-

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

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

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

REACTIONS. (size)

(size) 1=7-10-12, 3=7-10-12, 4=7-10-12 Max Horz 1=-82(LC 8)

Max Uplift 1=-30(LC 13), 3=-31(LC 13)

Max Grav 1=173(LC 1), 3=173(LC 1), 4=228(LC 1)

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

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



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Job Truss Truss Type Qty Ply Lot 3 Liberty Meadows F16391045 J0822-4064 V5 VALLEY Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:12:48 2021 Page 1 $ID: J6aSr? qB6etazEy6hKRSkZzPTZ_-nh1B?KcfXx_Tn7c6agHvFkFkIQqk3SEFI7?wWyyLEND\\$ 1-10-5 1-10-5 Scale = 1:11.7 4x4 = 2 11.50 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 📏 3-8-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES GRIP** in (loc) I/defl L/d 20.0 Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 1.15 0.03 n/a 999 MT20 n/a ВС TCDL 10.0 Lumber DOL 1.15 0.02 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.01 Horz(CT) 0.00 3 n/a n/a BCDL Code IRC2015/TPI2014 Weight: 13 lb FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins.

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

REACTIONS. (size) 1=3-8-11, 3=3-8-11, 4=3-8-11

Max Horz 1=34(LC 9)

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

Max Grav 1=72(LC 1), 3=72(LC 1), 4=95(LC 1)

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

NOTES-

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



November 9,2021





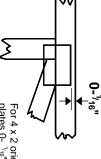
818 Soundside Road

Symbols

PLATE LOCATION AND ORIENTATION



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



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

ω

O

S

required direction of slots in connector plates This symbol indicates the

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



number where bearings occur.

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

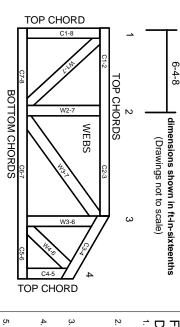
Industry Standards:

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

DSB-89:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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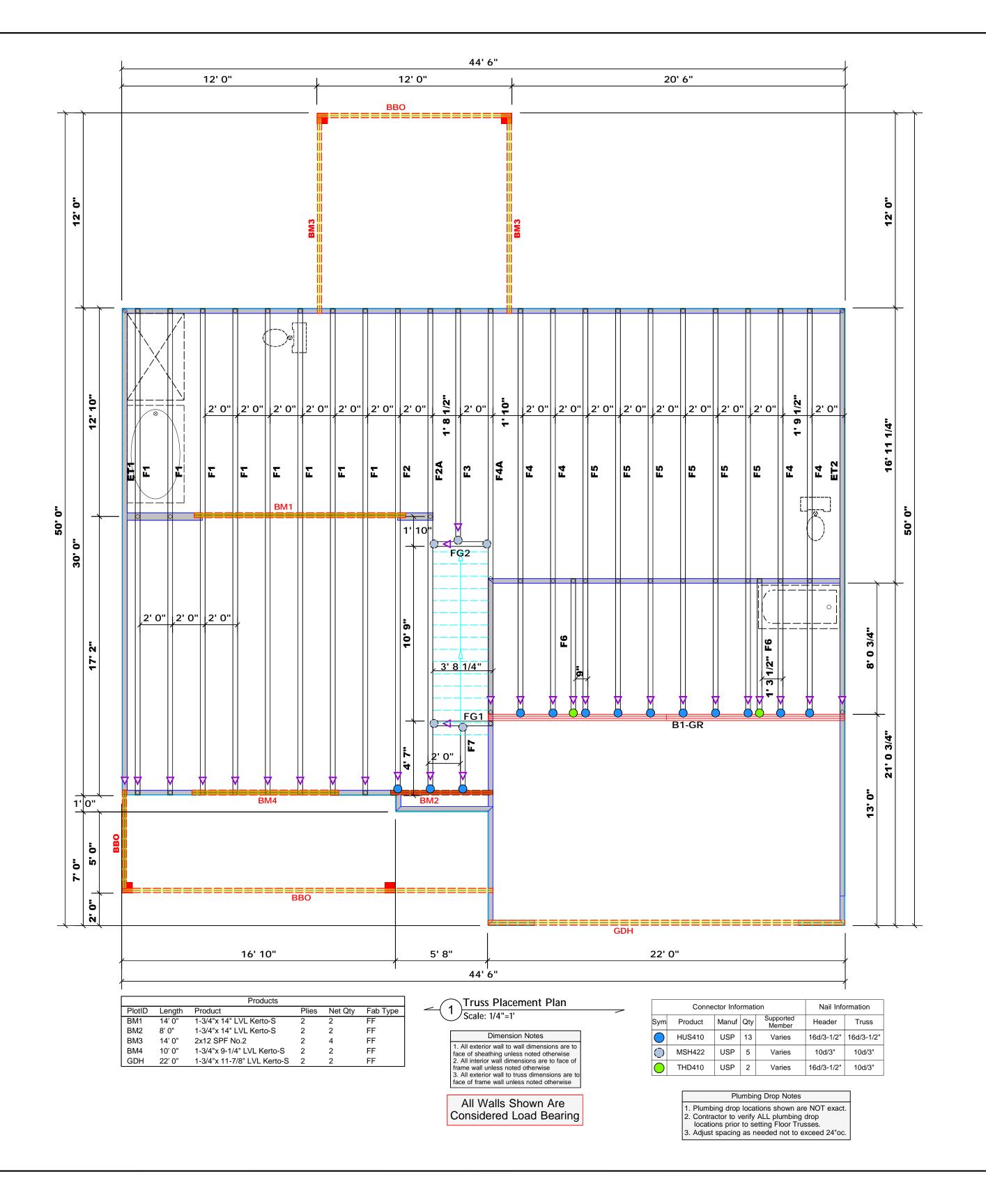


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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





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

Bearing reactions less than or equal to 300# ar 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 design the support system for all reactions that exceed 15000#.

Signatur

David Landry

LO.	LOAD CHART FOR JACK STUDS											
	(8	ASED O	N TABLE:	S R502	5(1) 4 (1	200						
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER												
5	D STUDS FOR		6	S STUDS FOR		8 -	RQ'D STUDS FO (4) PLY HEADER					
END REACTION (UP TO)	울棄		65	ĕ₹		END REACTION (UP TO)	53					
88	P. S.		활동	50		발원	200					
名	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		굺	REQ15 STUDS FOR (4) PLY HEADER					
1700	1		2550	1		3400	1					
3400	2		5100	2		6800	2					
5100	3		7650	3		10200	3					
6800	4		10200	4		13600	4					
8500	5		12750	5		17000	5					
10200	6		15300	6								
11900	7											
13600	8											
15300	9											

15300	9				
Harnett Co. / Harnett	82 Wolcott Court	Floor	08/10/22	DRAWN BY David Landry	SALESMAN Marshall Naylor
COUNTY	ADDRESS	MODEL	DATE REV . 08/10/22	DRAWN BY	SALESMAN
Benjamin Stout Real Estate	JOB NAME Lot 3 Liberty Meadows	The Ashville / 2GRF, CP	N/A		J0822-4065
BUILDER	10B NAME	PLAN	SEAL DATE N/A	QUOTE #	10B #

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



Benjamin Stout Real Estate Client:

Project: The Ashville Address: 82 Wolcott Court

8/10/2022 Date:

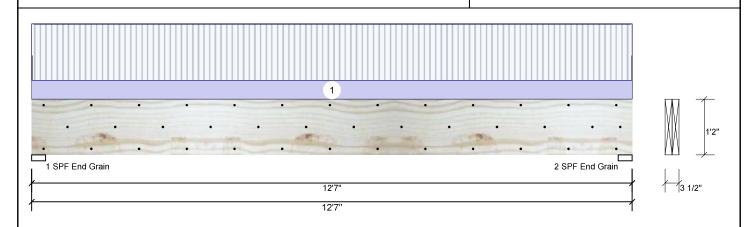
Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 1 of 1

J0822-4065 Project #:

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

Level: Level

Reactions UNPATTERNED lb (Uplift)



							• •	<i>*</i>		
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	4568	1591	0	0	0
Moisture Condition	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	4568	1591	0	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									

Analysis Results

Member Information

	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
l	Moment	17989 ft-lb	6'3 1/2"	26999 ft-lb	0.666 (67%)	D+L	L
	Unbraced	17989 ft-lb	6'3 1/2"	18014 ft-lb	0.999 (100%)	D+L	L
l	Shear	4744 lb	11'1 1/2"	10453 lb	0.454 (45%)	D+L	L
l	LL Defl inch	0.252 (L/578)	6'3 1/2"	0.303 (L/480)	0.831 (83%)	L	L
	TL Defl inch	0.340 (L/428)	6'3 1/2"	0.404 (L/360)	0.840 (84%)	D+L	L

Bearings

Bearing I	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	60%	1591 / 4568	6159	L	D+L
2 - SPF End Grain	3.500"	Vert	60%	1591 / 4568	6159	L	D+L

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	242 PLF	726 PLF	0 PLF	0 PLF	0 PLF	F1

Self Weight 11 PLF

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

Lumber

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

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info

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





isDesign

Client: Benjamin Stout Real Estate

Project: The Ashville

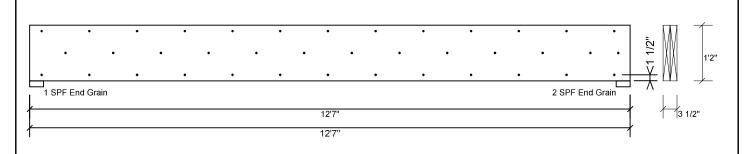
Address: 82 Wolcott Court Date: 8/10/2022

Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 2 of 1

J0822-4065 Project #:

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

Level: Level



Multi-Ply Analysis

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

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

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

Lumber

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

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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Manufacturer Info

www.metsawood.com/us

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Benjamin Stout Real Estate Client:

Project: The Ashville Address: 82 Wolcott Court

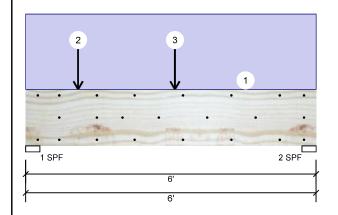
8/10/2022 Date:

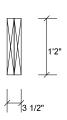
Input by: David Landry Job Name: Lot 3 Liberty Meadows

J0822-4065 Project #:

Kerto-S LVL BM₂

1.750" X 14.000" 2-Ply - PASSED Level: Level





Page 3 of 1

Member Information

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

Floor Application: Design Method: ASD **Building Code:** IBC/IRC 2015

Load Sharing:

Deck: Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	678	709	0	0	0
2	Vertical	189	546	0	0	0

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	27%	709 / 678	1387	L	D+L
2 - SPF	3.500"	Vert	14%	546 / 189	734	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1305 ft-lb	2'8 7/16"	26999 ft-lb	0.048 (5%)	D+L	L
Unbraced	1305 ft-lb	2'8 7/16"	17702 ft-lb	0.074 (7%)	D+L	L
Shear	1165 lb	1'5 1/2"	10453 lb	0.111 (11%)	D+L	L
LL Defl inch	0.003 (L/21799)	2'7 3/8"	0.139 (L/480)	0.022 (2%)	L	L
TL Defl inch	0.008 (L/8727)	2'10 1/16"	0.185 (L/360)	0.041 (4%)	D+L	L

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above
2	Point	1-1-0		Far Face	238 lb	714 lb	0 lb	0 lb	0 lb	F2A
3	Point	3-1-0		Far Face	51 lb	153 lb	0 lb	0 lb	0 lb	F7
	Self Weight				11 PLF					

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

Lumber

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

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info

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





isDesign

Client: Benjamin Stout Real Estate

The Ashville

82 Wolcott Court

8/10/2022 Date:

Input by: David Landry Job Name: Lot 3 Liberty Meadows

J0822-4065 Project #:

Level: Level

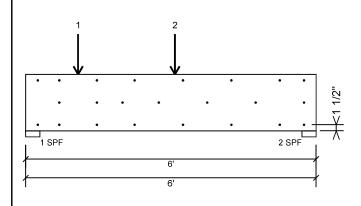
Kerto-S LVL BM₂

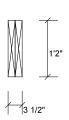
1.750" X 14.000"

Project:

Address:

2-Ply - PASSED





Page 4 of 1

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6".

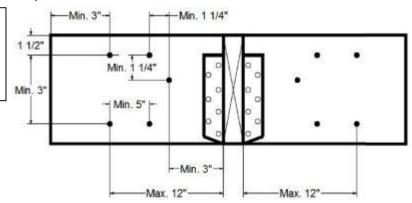
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 1-1-0 with a minimum of (6) – 10d Box nails (.128x3") in the loattern shown

pattern snown.		
Capacity Load	96.9 %	
Load	476.0lb.	
Total Yield Limit	491.0 lb.	
Cg	0.9998	
Yield Limit per Fastener	81.9 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Min/Max fastener distances for Concentrated Side Loads



Manufacturer Info

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

Lumber

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

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

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Client:

Benjamin Stout Real Estate

Project: The Ashville Address: 82 Wolcott Court Date: 8/10/2022

Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 5 of 1

Const

D+S

0

0

J0822-4065 Project #:

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

Level: Level

Reactions UNPATTERNED Ib (Uplift)

Vert

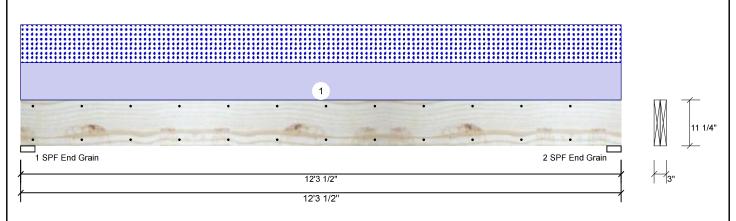
36%

799 / 799

1598 L

2 - SPF 3.500"

End Grain



Girder Floor Application: Direction Live Dead Wind Type: Brg Snow Plies: Design Method: ASD 799 Vertical 0 799 0 1 Moisture Condition: Dry **Building Code:** IBC/IRC 2015 0 799 799 0 2 Vertical Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Normal - II Importance: Temp <= 100°F Temperature: Bearings Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" Vert 36% 799 / 799 1598 L D+S End Grain

Analysis Results

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4551 ft-lb	6'1 3/4"	5306 ft-lb	0.858 (86%)	D+S	L
Unbraced	4551 ft-lb	6'1 3/4"	4552 ft-lb	1.000 (100%)	D+S	L
Shear	1278 lb	1'2 3/4"	3493 lb	0.366 (37%)	D+S	L
LL Defl inch	0.115 (L/1234)	6'1 3/4"	0.296 (L/480)	0.389 (39%)	S	L
TL Defl inch	0.230 (L/617)	6'1 3/4"	0.394 (L/360)	0.584 (58%)	D+S	L

Design Notes

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

o Latera	i sienderness rado pased 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	130 PLF	0 PLF	130 PLF	0 PLF	0 PLF	D1

This design is valid until 11/3/2024

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

CSD



Client: Benja Project: The A

Benjamin Stout Real Estate

Project: The Ashville
Address: 82 Wolcott Court

Date: 8/10/2022

Input by: David Landry
Job Name: Lot 3 Liberty Meadows

Page 6 of 1

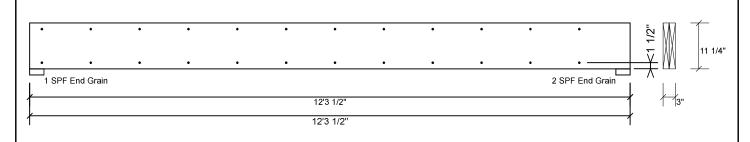
Project #: J0822-4065

BM3 S-P-F #2

2.000" X 12.000"

2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

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



Client: Benjamin Stout Real Estate

Project: The Ashville

Address: 82 Wolcott Court

8/10/2022 Date:

Input by: David Landry Job Name: Lot 3 Liberty Meadows

Level: Level

Reactions UNPATTERNED lb (Uplift)

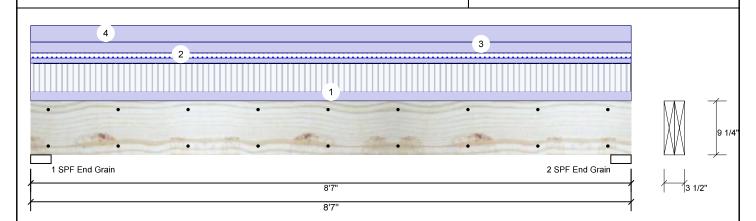
Page 7 of 1

J0822-4065 Project #:

Kerto-S LVL BM4

1.750" X 9.250"

2-Ply - PASSED



Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	1330	2005	240	0	0
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	1330	2005	240	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bear	rings					
				Bea	aring Length	Dir.	Cap. React D/L lt	Total	Ld. Case	Ld. Comb.
				1 - End	SPF 3.500"	Vert	32% 2005 / 1330	3335	L	D+L
Analysis Result	S			Gra	ain					

Grain

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6413 ft-lb	4'3 1/2"	12542 ft-lb	0.511 (51%)	D+L	L
Unbraced	6413 ft-lb	4'3 1/2"	8468 ft-lb	0.757 (76%)	D+L	L
Shear	2515 lb	1' 3/4"	6907 lb	0.364 (36%)	D+L	L
LL Defl inch	0.075 (L/1301)	4'3 9/16"	0.203 (L/480)	0.369 (37%)	L	L
TL Defl inch	0.188 (L/519)	4'3 9/16"	0.271 (L/360)	0.694 (69%)	D+L	L

Design Notes

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

Bearings	s						
Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	32%	2005 / 1330	3335	L	D+L
2 - SPF Fnd	3.500"	Vert	32%	2005 / 1330	3335	L	D+L

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	104 PLF	310 PLF	0 PLF	0 PLF	0 PLF	F1	
2	Uniform			Тор	56 PLF	0 PLF	56 PLF	0 PLF	0 PLF	M1	
3	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above	
4	Uniform			Тор	180 PLF	0 PLF	0 PLF	0 PLF	0 PLF	C1GE	
	Self Weight				7 PLF						

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

Lumber

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

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info





isDesign

Client: Benjamin Stout Real Estate

Project: The Ashville

Address: 82 Wolcott Court Date: 8/10/2022

Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 8 of 1

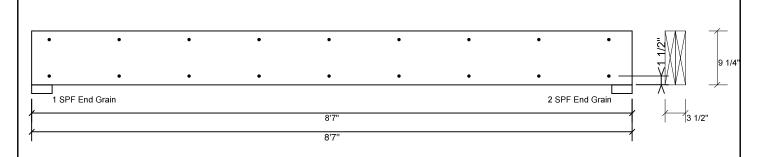
J0822-4065 Project #:

Kerto-S LVL BM4

1.750" X 9.250"

2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

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

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

Lumber

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

chemicals

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Manufacturer Info







Client: Benjamin Stout Real Estate

Project: The Ashville

Address: 82 Wolcott Court

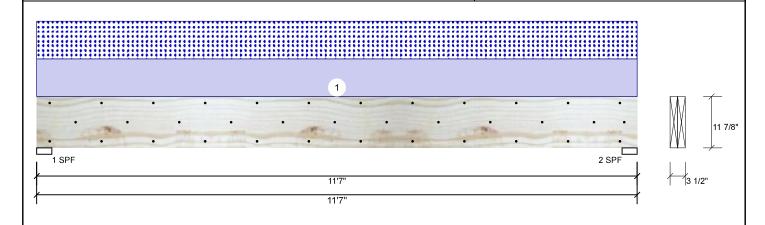
8/10/2022 Date:

Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 9 of 1

J0822-4065 Project #:

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

Level: Level



Member Infor	mation			Read	ctions UNP	ATTERN	ED lb (Uplift	t)		
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	0	1559	1506	0	0
Moisture Conditio	n: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	1559	1506	0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
				Bear	rings					
				Bea	aring Length	Dir.	Cap. React D/	L lb Total	Ld. Case	Ld. Comb.
				1 -	SPF 3.500"	Vert	59% 1559 / 1	506 3065	L	D+S

2 - SPF 3.500"

Vert

59%

1559 / 1506

3065 L

D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	8188 ft-lb	5'9 1/2"	22897 ft-lb	0.358 (36%)	D+S	L
Unbraced	8188 ft-lb	5'9 1/2"	8589 ft-lb	0.953 (95%)	D+S	L
Shear	2911 lb	1'3 3/8"	10197 lb	0.285 (29%)	D+S	L
LL Defl inch	0.103 (L/1298)	5'9 1/2"	0.278 (L/480)	0.370 (37%)	S	L
TL Defl inch	0.209 (L/637)	5'9 1/2"	0.371 (L/360)	0.565 (56%)	D+S	L

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Far Face	260 PLF	0 PLF	260 PLF	0 PLF	0 PLF	A2
	Self Weight				9 PLF					

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

Lumber

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

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info Metsä Wood

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





isDesign

Client: Benjamin Stout Real Estate

Project: The Ashville

Address: 82 Wolcott Court

8/10/2022 Date:

Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 10 of 1

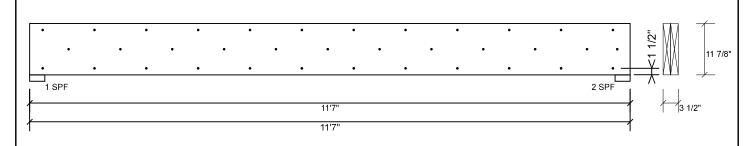
J0822-4065 Project #:

Kerto-S LVL BM₅

1.750" X 11.875"

2-Ply - PASSED

Level: Level



Multi-Ply Analysis

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

Capacity 92.1 % 260.0 PLF Load Yield Limit per Foot 282.4 PLF Yield Limit per Fastener 94.1 lb. IV Yield Mode Edge Distance 1 1/2" 3" Min. End Distance D+S Load Combination Duration Factor 1.15

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

Lumber

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

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

This design is valid until 11/3/2024

Manufacturer Info 6. For flat roofs provide proper drainage to prevent ponding

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







Member Information

Client: Benjamin Stout Real Estate

The Ashville

Address: 82 Wolcott Court

8/10/2022 Date:

Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 11 of 1

J0822-4065 Project #:

Level: Level

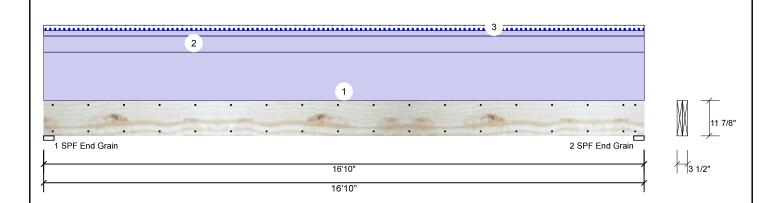
Reactions UNPATTERNED lb (Uplift)

Kerto-S LVL GDH

1.750" X 11.875"

Project:

2-Ply - PASSED



Type:	Girder		Applicati	on: F	loor		Brg	Direction	Live		Dead	Snow	Wind	Const
Plies:	2		Design N	Method: A	SD		1	Vertical	0		2266	168	0	0
Moisture Cor	ndition: Dry		Building	Code: IE	BC/IRC 2015		2	Vertical	0		2266	168	0	0
Deflection LL	.: 480		Load Sh	aring: N	lo									
Deflection TL	.: 360		Deck:	N	lot Checked									
Importance:	Normal -	II												
Temperature	: Temp <=	100°F												
	·						Beari	ngs						
							Bear	ing Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - S	PF 3.500"	Vert	24%	2266 / 168	2434	L	D+S
							End							
Analysis Re	esults						Grain	n						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - S	PF 3.500"	Vert	24%	2266 / 168	2434	L	D+S
Moment	9024 ft-lb	8'5"	17919 ft-lb	0.504 (50%) D	Uniform	End	n						

Uniform

L

Design Notes

Unbraced

Shear

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

8'5" 9704 ft-lb

8'5 1/16" 0.409 (L/480) 0.085 (9%) S

8'5 1/16" 0.546 (L/360) 0.927 (93%) D+S

15'6 5/8" 7980 lb

0.999

(100%)

0.242 (24%) D

- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.

9694 ft-lb

1930 lb

LL Defl inch 0.035 (L/5617)

TL Defl inch 0.506 (L/388)

- 6 Top must be laterally braced at a maximum of 9'6 3/4" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	180 PLF	0 PLF	0 PLF	0 PLF	0 PLF	B1GE	
2	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Above	
3	Tie-In	0-0-0 to 16-10-0	1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	Roof Load	
	Self Weight				9 PLF						

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

Lumber

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

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info





isDesign

Client: Benjamin Stout Real Estate

Project: The Ashville

Address: 82 Wolcott Court

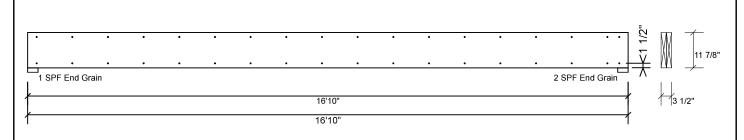
8/10/2022 Date:

Input by: David Landry Job Name: Lot 3 Liberty Meadows Page 12 of 1

J0822-4065 Project #:

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

Level: Level



Multi-Ply Analysis

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

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

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

Lumber

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

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

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

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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

Manufacturer Info







RE: J0822-4065

Lot 3 Liberty Meadows

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J0822-4065 Lot/Block: 3 Model: Ashville

Address: 82 Wolcott Court Subdivision: Liberty Meadows

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 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16391095	ET1	11/9/2021
2	E16391096	ET2	11/9/2021
3	E16391097	F1	11/9/2021
4	E16391098	F2	11/9/2021
5	E16391099	F2A	11/9/2021
6	E16391100	F3	11/9/2021
7	E16391101	F4	11/9/2021
8	E16391102	F4A	11/9/2021
9	E16391103	F5	11/9/2021
10	E16391104	F6	11/9/2021
11	E16391105	F7	11/9/2021
12	E16391106	FG1	11/9/2021
13	E16391107	FG2	11/9/2021

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

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

Truss Design Engineer's Name: 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.



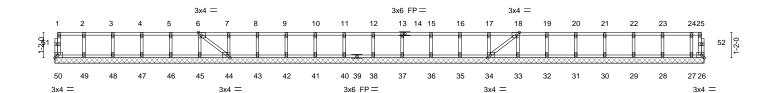
Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
10000 4005	ET4	GABLE		,	E16391095
J0822-4065	EII	GABLE	1	1	Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:25 2021 Page 1 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-ComAmz3tpJfDjpxDFyRbFXH3ZKSZEB?hFOTOJJyLEMe

0-1-8

п Scale = 1:50.0



29-11-0

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 | 24-0-0 | 25-4-0 | 26-8-0 | 28-0-0 | 29-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0 | 1-4-0

Plate Oil	Plate Offsets (A, 1) [6.0-1-6,Euge], [16.0-1-6,Euge], [34.0-1-6,Euge], [44.0-1-6,Euge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	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/TF	PI2014	Matri	x-S						Weight: 128 lb	FT = 20%F, 11%E

 LUMBER

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

10-0-0 oc bracing: 49-50,48-49,47-48,46-47,45-46,44-45.

REACTIONS. All bearings 29-11-0.

2x4 SP No.3(flat)

2x4 SP No.3(flat)

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 26

Max Grav All reactions 250 lb or less at joint(s) 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35,

34, 33, 32, 31, 30, 29, 28, 27

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

NOTES-

WFBS

OTHERS

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





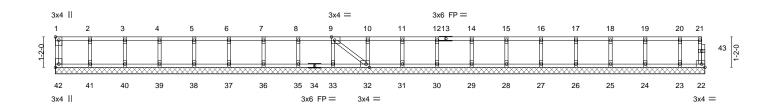


Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4065	ET2	GABLE	1	1	E16391096
30022-4003	E12	CABLE	'	'	Joh Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:26 2021 Page 1 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-g?KYzJ3Vacn4KyWPpfyqnlpEHkoozeErU2CxrlyLEMd

0-1-8

Scale = 1:41.7



_	1-4-0 2-8-0		6-8-0 8-0-0	9-4-0 10-8-0	12-0-0	13-4-0 14-8-		17-4-0	18-8-0	20-0-0	21-4-0 22-8-0	24-0-0 24-11-8
	1-4-0 1-4-0	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 '0-11-8'
Plate Offs	Plate Offsets (X,Y) [1:Edge,0-1-8], [9:0-1-8,Edge], [32:0-1-8,Edge], [42:Edge,0-1-8]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (l	loc) I/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	22 n/a	n/a			
BCDL	5.0	Code IRC2015/	TPI2014	Matrix-S							Weight: 106 lb	FT = 20%F, 11%E
		1		l								

 LUMBER BRACING

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

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

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

REACTIONS. All bearings 24-11-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

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

NOTES-

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



November 9,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows	
10000 1005		_		١.		E16391097
J0822-4065	F1	Floor	8	1	Lab Defenses (autional)	
					Job Reference (optional)	

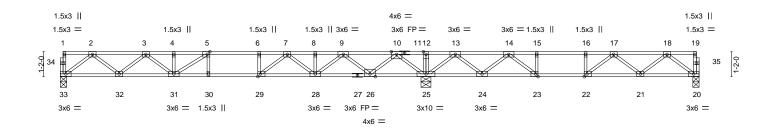
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:28 2021 Page 1 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-cNRIO?5l6E1naGfow4_ltAvMLYG4RO68xMh2weyLEMb

0-1-8

HI 1-3-0 1-6-0 2-3-0

2-2-0

0-1-8 Scale = 1:50.8



_		17-1-8							29-11-0					
		17-1-8							12-9-8					
Plate Offse	late Offsets (X,Y) [5:0-1-8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [29:0-1-8,Edge]													
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP		
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.20	` 3Ó	>999	480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.28	30	>735	360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	20	n/a	n/a				
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	k-S						Weight: 149 lb	FT = 20%F, 11%E		

LUMBER-

BOT CHORD

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

REACTIONS. (size) 33=0-3-8, 25=0-5-8, 20=0-3-8

Max Grav 33=826(LC 3), 25=1934(LC 1), 20=608(LC 4)

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

2-3=-1695/0, 3-4=-2732/0, 4-5=-2732/0, 5-6=-2963/0, 6-7=-2963/0, 7-8=-2067/0, $8-9 = -2067/0, \ 9-10 = -539/303, \ 10-12 = 0/2152, \ 12-13 = 0/2152, \ 13-14 = -551/972,$

14-15=-1575/269, 15-16=-1575/269, 16-17=-1575/269, 17-18=-1162/0

32-33=0/1030, 31-32=0/2330, 30-31=0/2963, 29-30=0/2963, 28-29=0/2561, $26 - 28 = -37/1417, \ 25 - 26 = -833/0, \ 24 - 25 = -1263/0, \ 23 - 24 = -662/1135, \ 22 - 23 = -269/1575,$

21-22=-24/1515, 20-21=0/747

WEBS 2-33=-1290/0, 2-32=0/866, 3-32=-826/0, 3-31=0/514, 10-25=-1655/0, 10-26=0/1228,

9-26=-1188/0, 9-28=0/878, 7-28=-685/0, 7-29=0/807, 6-29=-359/0, 5-31=-475/153, 13-25=-1321/0, 13-24=0/882, 14-24=-926/0, 14-23=0/942, 18-20=-935/0, 18-21=0/540,

17-21=-460/99, 17-22=-345/76, 15-23=-417/0

NOTES-

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







Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
10000 4005	F2	Floor		,	E16391098
J0822-4065	FZ	Floor	'	'	Job Reference (optional)

1-3-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:29 2021 Page 1 $ID: J6aSr? qB6etazEy6hKRSkZzPTZ_-4a?hcL6NtX9eBQE_UnWXPNRXuxcHAsbHA?RbS4yLEMa$

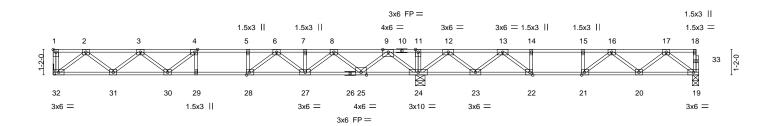
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

2-3-0

Scale = 1:49.8



			16-7-6			1679-0	1		29-7-0		
			16-7-8			0-4-8			12-10-8		1
Plate Offse	ets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,E	dge], [21:0-1	-8,Edge], [22:	0-1-8,Edge], [28:0-1-8,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	0.87	Vert(LL)	-0.18 28-29	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.25 28-29	>810	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.05 19	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matrix	(-S					Weight: 146 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

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

BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

(size) 32=Mechanical, 19=0-3-8, 24=0-5-4

Max Grav 32=814(LC 3), 19=615(LC 4), 24=1907(LC 1)

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

2-3=-1658/0, 3-4=-2582/0, 4-5=-2848/0, 5-6=-2848/0, 6-7=-2034/0, 7-8=-2034/0,

 $8-9 = -563/296, \ 9-11 = 0/2082, \ 11-12 = 0/2082, \ 12-13 = -578/905, \ 13-14 = -1611/221,$ 14-15=-1611/221, 15-16=-1611/221, 16-17=-1179/0

2-3-0

BOT CHORD 31-32=0/1002, 30-31=0/2282, 29-30=0/2848, 28-29=0/2848, 27-28=0/2500,

 $25 - 27 = -36/1414,\ 24 - 25 = -810/0,\ 23 - 24 = -1188/0,\ 22 - 23 = -602/1165,\ 21 - 22 = -221/1611,$

20-21=0/1540, 19-20=0/756

WEBS 2-32=-1257/0, 2-31=0/854, 3-31=-813/0, 3-30=0/392, 4-30=-431/27, 9-24=-1619/0,

9-25=0/1194, 8-25=-1155/0, 8-27=0/843, 6-27=-652/0, 6-28=0/750, 5-28=-323/0, 17-19=-946/0, 17-20=0/550, 16-20=-470/84, 16-21=-317/90, 12-24=-1316/0,

12-23=0/876, 13-23=-920/0, 13-22=0/936, 14-22=-417/0

NOTES-

REACTIONS.

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





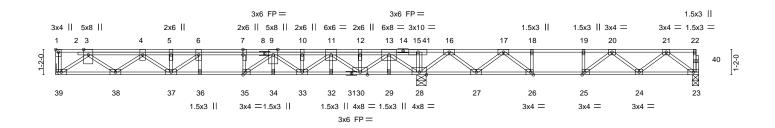


Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4065	F2A	Floor	1	1	E16391099
		1			Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:31 2021 Page 1 $ID: J6aSr? qB6etazEy6hKRSkZzPTZ_-0y7R017eP9PMRkONcCY? UoWwalOYekCadJwiXzyLEMY\\$

1-2-8 1-1-10 1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 1-3-0 2-3-0

Scale = 1:50.0



			16-7-8		16 ₁	9-0		29-7-8		
			16-7-8		0-1	-8		12-10-8		1
Plate Offs	sets (X,Y)	[1:Edge,0-1-8], [7:0-3-0,E	dge], [25:0-1-	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.	.66 Vert(LL)	-0.15 35	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.	.48 Vert(CT)	-0.20 35-36	>993	360		
BCLL	0.0	Rep Stress Incr	NO	WB 0.	.69 Horz(CT)	0.04 23	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix-S					Weight: 173 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD 2x4 SP 2400F 2.0E(flat)

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

WFBS

BRACING-TOP CHORD

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

except end verticals.

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

REACTIONS. (size) 39=Mechanical, 28=0-5-4, 23=0-3-8 Max Grav 39=951(LC 3), 28=2436(LC 1), 23=579(LC 4)

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

3-4=-2099/0, 4-5=-3320/0, 5-6=-3320/0, 6-7=-3521/0, 7-9=-3521/0, 9-10=-2750/0,

 $10\text{-}11\text{=-}2750/0,\ 11\text{-}12\text{=-}1201/0,\ 12\text{-}13\text{=-}1201/0,\ 13\text{-}15\text{=-}0/2484,\ 15\text{-}16\text{=-}0/2500,}$

16-17=-224/1085, 17-18=-1394/330, 18-19=-1394/330, 19-20=-1394/330, 20-21=-1095/0 38-39=0/1255, 37-38=0/2907, 36-37=0/3521, 35-36=0/3521, 34-35=0/3180, 33-34=0/3180, BOT CHORD

32-33=0/2041, 30-32=0/2041, 29-30=-501/77, 28-29=-501/77, 27-28=-1403/0,

26-27=-753/865, 25-26=-330/1394, 24-25=-59/1406, 23-24=0/710

WEBS 3-39=-1541/0, 3-38=0/1072, 4-38=-1027/0, 4-37=0/515, 5-37=-259/12, 13-28=-2425/0,

13-30=0/1449, 11-30=-1115/0, 11-33=0/936, 9-33=-593/0, 9-35=0/799, 7-35=-397/0, 16-28=-1479/0, 6-37=-372/209, 16-27=0/905, 17-27=-970/0, 17-26=0/989, 18-26=-436/0,

21-23=-888/0, 21-24=-6/501, 20-24=-405/117, 20-25=-370/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION. Do not erect truss backwards.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 222 lb down at 4-1-4, and 576 lb down at 15-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 23-39=-10, 1-22=-100

Concentrated Loads (lb)

Vert: 4=-142(F) 13=-496(F)



November 9,2021

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows	
J0822-4065	F3	Floor	1	1		E16391100
					Job Reference (optional)	
Comstants Inc. Fr	NO 2024 A			100 - 1	4C 2024 MiTale Indication Inc. Ma.	- N 0 40 40 00 0004 D 4

Fayetteville, NC - 28314,

1-3-0

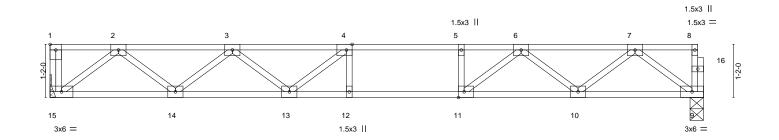
ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-U8hpEN8G9SXD2tzZ9w3E1036M9egNGIjszfF3PyLEMX 2-4-0 ⁰11⁸

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

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

except end verticals.

Scale: 1/2"=1'



						14-4-0					
						14-4-0					<u> </u>
Plate Offse	ets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,E	dge], [11:0-1-	8,Edge]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.19 12-13	>906	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.25 12-13	>687	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.04 9	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matrix	<-S					Weight: 71 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

14-4-0

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

2x4 SP No.1(flat) BOT CHORD

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 15=Mechanical, 9=0-3-8 Max Grav 15=775(LC 1), 9=768(LC 1)

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

TOP CHORD 2-3=-1559/0, 3-4=-2384/0, 4-5=-2550/0, 5-6=-2550/0, 6-7=-1538/0

 $14 - 15 = 0/947,\ 13 - 14 = 0/2143,\ 12 - 13 = 0/2550,\ 11 - 12 = 0/2550,\ 10 - 11 = 0/2118,\ 9 - 10 = 0/954$ **BOT CHORD WEBS**

2-15=-1188/0, 2-14=0/797, 3-14=-761/0, 3-13=0/398, 7-9=-1194/0, 7-10=0/760,

 $6-10=-755/0,\ 6-11=0/740,\ 5-11=-317/0,\ 4-13=-437/18$

NOTES-

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



November 9,2021





Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4065	F4	Floor		_	E16391101
JU822-4000	F4	Floor	4	'	Job Reference (optional)

2-5-4

1-3-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:33 2021 Page 1 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-zLFBRj9uwmf4g1YljdaTaDcD9Z_A6g4t5dPpbryLEMW

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

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

except end verticals.

Scale = 1:41.8

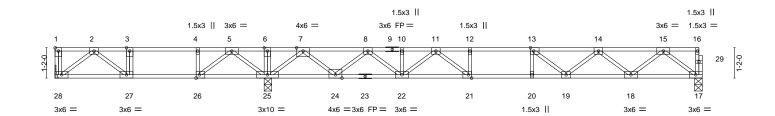


Plate Offsets (X.)	8-2-4 8-2-4) [1:Edge,0-1-8], [13:0-1-8,Edge], [:	8-2-8 0-0-4	24-11-8 16-9-0	
Flate Offsets (A,	j [1.Euge,0-1-6], [13.0-1-6,Euge], [.	1.0-1-6,Eugej, [26.0-1-6,Euge		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO	CSI. TC 0.85 BC 0.86 WB 0.54	DEFL. in (loc) l/defl L/d Vert(LL) -0.21 21-22 >964 480 Vert(CT) -0.28 21-22 >719 360 Horz(CT) 0.05 17 n/a n/a	PLATES GRIP MT20 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 125 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.1

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 28=Mechanical, 25=0-3-8, 17=0-3-8

Max Grav 28=1746(LC 3), 25=1571(LC 1), 17=851(LC 7)

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

TOP CHORD 1-28=-1403/0, 2-3=-629/297, 3-4=-629/297, 4-5=-629/297, 5-6=0/1219, 6-7=0/1219,

7-8=-1123/0, 8-10=-2493/0, 10-11=-2493/0, 11-12=-3157/0, 12-13=-3157/0,

13-14=-2793/0, 14-15=-1763/0

BOT CHORD 27-28=-55/424, 26-27=-297/629, 25-26=-730/183, 24-25=-35/277, 22-24=0/1926,

21-22=0/2904, 20-21=0/3157, 19-20=0/3157, 18-19=0/2432, 17-18=0/1059 2-28=-532/70, 2-27=-303/257, 5-25=-823/0, 5-26=0/878, 4-26=-429/0, 15-17=-1326/0,

15-18=0/917, 14-18=-871/0, 14-19=0/501, 7-25=-1524/0, 7-24=0/1128, 8-24=-1076/0,

8-22=0/753, 11-22=-559/0, 11-21=0/624, 12-21=-277/0, 13-19=-602/0

NOTES-

WEBS

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 17-28=-10, 1-16=-100

Concentrated Loads (lb)

Vert: 1=-1350



November 9,2021





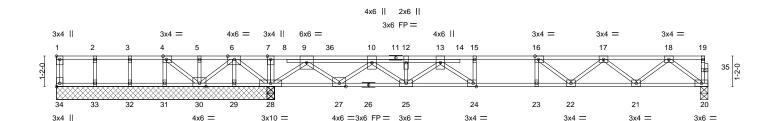
Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
10000 4005	F4A	Floor O'color	_	,	E16391102
J0822-4065	F4A	Floor Girder	1	1	Job Reference (optional)

1-2-0 1-2-8 1-2-8 1-2-8 1-2-8 1-3-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:34 2021 Page 1 $ID: J6aSr?qB6etazEy6hKRSkZzPTZ_-RXpaf2AWh4nxlB7yHL5i6R8QtyJ?r5R0JH8M7lyLEMV\\ ID: J6aSr2PTZ_-RXPAF2AWH4NYLPHRSKZPTZ_-RXPAFAWH4NYLPHRSYTZ_-RXPAFAWH4NYLPHRSYTZ_-RXPAFAWH4NYLPHRSYTZ_-RXPAFAWH4NYLPHRSYTZ_-RXPAFAWH4NYLPHRSYTZ_-RX$

2-3-0

Scale = 1:41.5



		8-2-8		8- <u>4-</u> 4	24-11-8		
		8-2-8	()-1-12	16-7-4		ı
Plate Off	sets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,E	Edge], [16:0-1-	8,Edge], [24:0-1-8,Edge]	34:Edge,0-1-8]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.72	Vert(LL) -0.18 22-23 >999 480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.88	Vert(CT) -0.24 22-23 >825 360		
BCLL	0.0	Rep Stress Incr	NO	WB 0.66	Horz(CT) 0.03 20 n/a n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix-S		Weight: 134 lb	FT = 20%F, 11%E

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

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

6-0-0 oc bracing: 29-30,28-29,27-28.

REACTIONS. All bearings 8-4-4 except (jt=length) 20=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 29=-516(LC 4), 30=-346(LC 4), 31=-239(LC 4) Max Grav All reactions 250 lb or less at joint(s) 34, 30, 31, 32, 33 except 28=2681(LC 1), 28=2681(LC 1), 20=773(LC 4)

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

TOP CHORD 4-5=0/372, 5-6=0/372, 6-7=0/2805, 7-9=0/2806, 9-10=-255/233, 10-12=-1747/0,

12-13=-1747/0, 13-15=-2589/0, 15-16=-2589/0, 16-17=-2406/0, 17-18=-1570/0

BOT CHORD 29-30=-1225/0, 28-29=-1225/0, 27-28=-1194/0, 25-27=0/1076, 24-25=0/2211,

23-24=0/2589, 22-23=0/2589, 21-22=0/2158, 20-21=0/952 **WEBS** 6-28=-1983/0, 6-29=0/505, 6-30=0/1101, 4-30=-472/0, 4-31=0/251, 9-28=-2137/0,

9-27=0/1383, 10-27=-1347/0, 10-25=0/837, 18-20=-1191/0, 18-21=0/804, 17-21=-766/0,

17-22=0/375, 16-22=-401/0, 13-25=-579/0, 13-24=0/628, 15-24=-253/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 516 lb uplift at joint 29, 346 lb uplift at joint 30 and 239 lb uplift at joint 31.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION. Do not erect truss backwards.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 407 lb down at 10-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 20-34=-10, 1-19=-100 Concentrated Loads (lb)

Vert: 36=-327(B)



November 9,2021

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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4065	T.F.	Floor	C	_	E16391103
JU822-4065	r5	Floor	О	'	Job Reference (optional)

2-5-4

1-3-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:36 2021 Page 1 ID:J6aSr?qB6etazEy6hKRSkZzPTZ_-NwwK4kBmDh1fXVHKOl8ABsEm8m05J1pJnbdTCAyLEMT

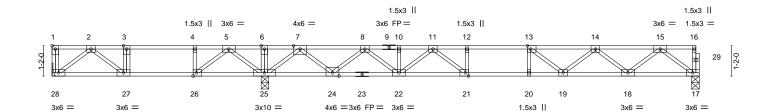
2-3-4 0-1/-8

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

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

except end verticals.

Scale = 1:41.8



	8-2-4	8-2-8	24-11-8	
	8-2-4	0-0-4	16-9-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [13:0-1-8,Edg	e], [21:0-1-8,Edge], [26:0-1-8,Edge]	[ge]	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Plate Grip DOL 1 Lumber DOL 1	0-0 CSI. .00 TC 0.74 .00 BC 0.78 TES WB 0.54 14 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.21 21-22 >964 480 Vert(CT) -0.28 21-22 >719 360 Horz(CT) 0.05 17 n/a n/a	PLATES GRIP MT20 244/190 Weight: 125 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 28=Mechanical, 25=0-3-8, 17=0-3-8

Max Uplift 28=-14(LC 4)

Max Grav 28=396(LC 3), 25=1571(LC 1), 17=851(LC 7)

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

TOP CHORD 2-3=-629/297, 3-4=-629/297, 4-5=-629/297, 5-6=0/1219, 6-7=0/1219, 7-8=-1123/0,

 $8-10 = -2493/0,\ 10-11 = -2493/0,\ 11-12 = -3157/0,\ 12-13 = -3157/0,\ 13-14 = -2793/0,$

14-15=-1763/0

BOT CHORD 27-28=-56/423, 26-27=-297/629, 25-26=-730/184, 24-25=-34/277, 22-24=0/1927,

21-22=0/2904, 20-21=0/3157, 19-20=0/3157, 18-19=0/2432, 17-18=0/1059 2-28=-531/70, 2-27=-302/259, 5-25=-823/0, 5-26=0/878, 4-26=-429/0, 15-17=-1326/0,

15-18=0/917, 14-18=-871/0, 14-19=0/501, 7-25=-1524/0, 7-24=0/1128, 8-24=-1076/0,

8-22=0/753, 11-22=-559/0, 11-21=0/624, 12-21=-277/0, 13-19=-603/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 28.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



November 9,2021





818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows
J0822-4065	F6	Floor	2	1	E16391104
				·	Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,		8	430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:36 2021 Page 1

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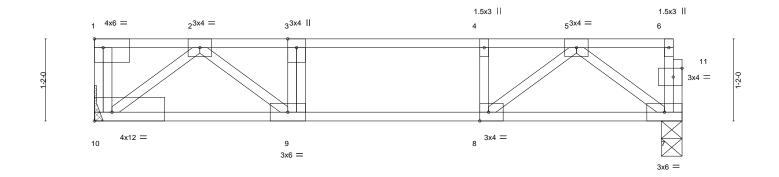
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-3-0

Scale = 1:15.4



[1:Edge,0-1-8], [8:0-1-8,Edge], [10:Edge,0-1-8], [11:0-1-8,0-1-8] Plate Offsets (X,Y)--LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 (loc) I/defl L/d TCLL 9-10 40.Ó Plate Grip DOL 1.00 TC 0.39 Vert(LL) -0.04 >999 480 MT20 244/190 TCDL Vert(CT) 10.0 Lumber DOL 1.00 ВС 0.27 -0.05 9-10 >999 360 BCLL 0.0 Rep Stress Incr NO WB 0.22 Horz(CT) 0.01 n/a BCDL Code IRC2015/TPI2014 Matrix-S Weight: 43 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 10=Mechanical, 7=0-3-8

Max Grav 10=3846(LC 1), 7=440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-10=-3459/0, 2-3=-821/0, 3-4=-821/0, 4-5=-821/0

BOT CHORD 9-10=0/493, 8-9=0/821, 7-8=0/489

WEBS 2-10=-619/0, 2-9=0/460, 5-7=-609/0, 5-8=0/469

NOTES-

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

LOAD CASE(S) Standard

1) 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: 1=-3400







Job	Truss	Truss Type	Qty	Ply	Lot 3 Liberty Meadows	E16391105
J0822-4065	F7	Floor	1	1		E16391103
					Job Reference (optional)	
Comtech, Inc, Fayettev	ville, NC - 28314,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 8 13:13:37	2021 Page 1
		3x4 =	ID:J6aSr?qB6eta	zEy6hKRS	SkZzPTZr6UiH4CPAW9frXyTfPk3m6SAYY2cdT0F	N0kdyLEMS
	1-		1-2-8			
•	1 3x4	2		3 _{3x4}	4 = 4 3x4	
						Scale = 1:8.5
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	3x6 =	1.5x3		1.5x3	5	

3x6 =

Structural wood sheathing directly applied or 3-11-8 oc purlins,

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

except end verticals.

3-11-8 [4.Fdcc 0 4 0] [0:0 4 0 Fdcc] [0:0 4 0 Fdcc]

Plate Olis	sels (A, f)	[1.Euge,0-1-6], [2.0-1-6,E	ugej, [3.0-1-6	,⊏ugej								
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)	-0.00	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.00	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 24 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 8=Mechanical, 5=Mechanical

Max Grav 8=204(LC 1), 5=204(LC 1)

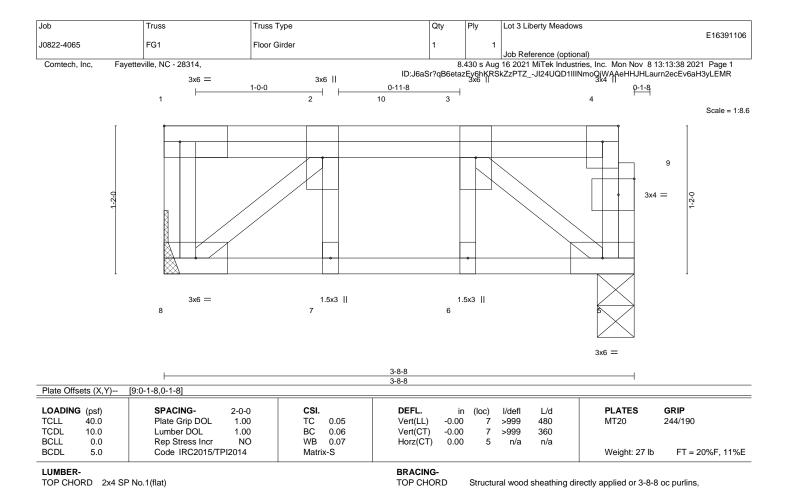
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- A) 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.









BOT CHORD

except end verticals.

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

REACTIONS. (size) 8=Mechanical, 5=0-3-8 Max Grav 8=242(LC 1), 5=236(LC 1)

2x4 SP No.1(flat)

2x4 SP No.3(flat)

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

WEBS 2-8=-294/0, 3-5=-291/0

NOTES-

BOT CHORD

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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

Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 10=-104(F)







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Job		Truss		Truss Type			Qty	Ply	Lot 3 Liberty N	vieadows			E16391107
J0822-4065		FG2		Floor Girder			1	1					E10391107
30022-4003		102		i loor Gilder				'	Job Reference	e (optiona	al)		
Comtech, Inc,	Favettev	ille, NC - 28314	4				8	430 s Aug				Ion Nov. 8 13:	13:38 2021 Page 1
,,	,	,				ID:J6aSr	?aB6eta	Ev6hKRS	kZzPTZ -JI24L	JQD1IIINr	moQiWA/	AeHHJFkarVn	1EcEv6aH3yLEMR
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3x6 =

5

				3-5-0						<u> </u>		
LOADIN	\(\(\dots\)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.01	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 26 lb	FT = 20%F, 11%E

3-5-0

1.5x3 ||

LUMBER-

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

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

BRACING-

1.5x3 ||

TOP CHORD Structural wood sheathing directly applied or 3-5-0 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=596(LC 1), 5=427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-528/0

3x6 =

BOT CHORD 7-8=0/528, 6-7=0/528, 5-6=0/528 **WEBS** 2-8=-684/0, 3-5=-684/0

NOTES-

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

 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 705 lb down at 1-6-12 on top
- chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 2=-675(B)



November 9,2021

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

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

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

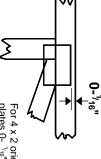


Symbols

PLATE LOCATION AND ORIENTATION



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



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

ω

O

S

required direction of slots in connector plates This symbol indicates the

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



number where bearings occur.

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

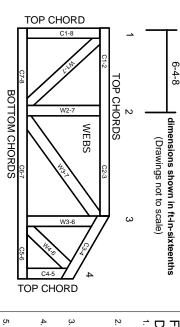
Industry Standards:

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

DSB-89:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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