

соттесн **ROOF & FLOOR** TRUSSES & BEAMS

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

David Landry

David Landry

LO	AD (СНА	RT FO	R J	ACK STUD	S					
	(8)	ASED :	ON TABLE:	8 R502.	5(t) & (b))						
NUMBER OF JACK STUDS REQUIRED & EA END OF HEADER/GERGER											
ENB REACHON (UP 10)	REQ'D STUDS FOR (Z) PLY HEADER		SND REACTION (UP TD)	REQ15 STUDS FOR (3) MY HEADER	END REACTION (JP 70)	REQUE STUDS FOR					
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										
	т —										

02/14/22

DATE REV.

Roof

MODEL

"B" / 3GLF

Brinkley

Lot 5 Avery Pointe

JOB NAME

Erwin

CITY /

430

David Land Bob Lewis

DRAWN BY SALES REP.

	. 0110010							
Drop Beam								
	ctor Info	rmat	ion	Nail Information				
	Manuf	Qty	Supported Member	Header	Truss			
	USP	15	NA	16d/3-1/2"	16d/3-1/2"			
		i e						

	Products								
PlotID	Length	Product	Plies	Net Qty					
BM1	22' 0"	1-3/4"x 16" LVL Kerto-S	3	3					
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	3	3					
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2					
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2					
GDH2	12' 0"	2x12 SPF No.2	2	2					

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design spects 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

BUILDER

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



RE: J0222-0764 Lot 5 Avery Pointe Trenco 818 Soundside Rd Edenton, NC 27932

> Date 12/2/2021 12/2/2021 12/2/2021

12/2/2021

Site Information:

Customer: Regency Homes Project Name: J0222-0764 Lot/Block: 5 Model: Brinkley

Address: 430 Josey Williams Road Subdivision: Avery Pointe

City: Erwin State: NC

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

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

Wind Code: ASCE 7-10 Wind Speed: 150 mph Roof Load: 40.0 psf Floor Load: N/A psf

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

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Seal# E16467258 E16467259 E16467260 E16467261 E16467262 E16467263 E16467264 E16467265 E16467266 E16467267 E16467270 E16467271 E16467273 E16467274 E16467275	Truss Name A1 A1GE A1SG B1 B1GE C1-GR C1SG D1 D1GE G1 G1GE H1GE J1 J1GE M1 M1GE M2 M2A	Date 12/2/2021	No. 21 22 23 24	Seal# E16467278 E16467279 E16467280 E16467281	Truss Name V3 V4 V5 V6
19	E16467276	V1	12/2/2021			
20	E16467277	V2	12/2/2021			

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

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

Truss Design Engineer's Name: Strzyzewski, Marvin

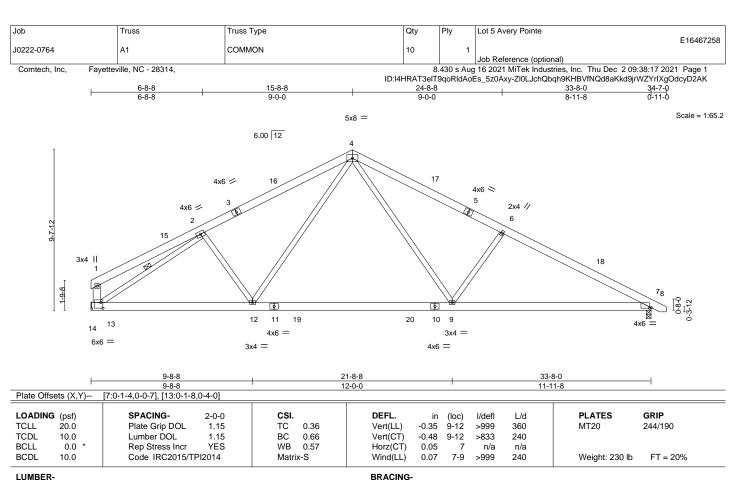
My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

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



December 02, 2021



TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 *Except* WFBS 1-13: 2x6 SP No.1

REACTIONS. (size) 13=Mechanical, 7=0-3-8

Max Horz 13=-193(LC 13) Max Uplift 13=-222(LC 12), 7=-263(LC 13) Max Grav 13=1333(LC 1), 7=1379(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-300/179, 2-4=-1841/805, 4-6=-2084/871, 6-7=-2336/875, 1-13=-254/214 TOP CHORD BOT CHORD 12-13=-482/1658, 9-12=-230/1276, 7-9=-635/1990

2-12=-242/311, 4-12=-140/593, 4-9=-273/970, 6-9=-522/454, 2-13=-1806/660 WEBS

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

- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 15-8-8, Exterior(2) 15-8-8 to 20-1-5, Interior(1) 20-1-5 to 34-4-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=222, 7=263.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-9-10 oc purlins,

2-13

Rigid ceiling directly applied or 9-9-4 oc bracing.

except end verticals.

1 Row at midpt

December 2,2021

neters 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.

Starty Information

Ansity Prevent



Job Truss Truss Type Qty Lot 5 Avery Pointe F16467259 J0222-0764 COMMON SUPPORTED GAB A1GE Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:20 2021 Page 1 $ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-zKhTydjIuI3kBkw4KW_KmDyKWNuRj01I_Vu2EwyD2AH$

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

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.

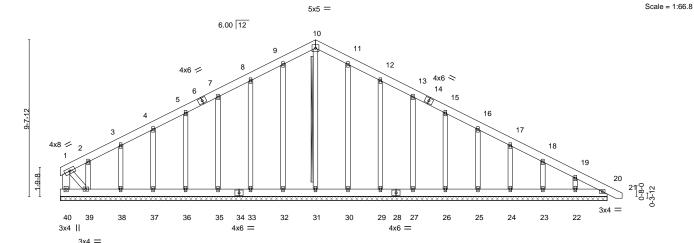
2x4 SPF No.2 - 10-31

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

Brace must cover 90% of web length.

except end verticals.

T-Brace:



33-8-0									
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IDC0045/TD10014	CSI. TC 0.06 BC 0.03 WB 0.14	DEFL. in (loc) I/defl L/d Vert(LL) 0.00 20 n/r 120 Vert(CT) 0.00 20 n/r 120 Horz(CT) 0.01 20 n/a n/a	PLATES GRIP MT20 244/190					
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 288 lb FT = 20%					

BRACING-

TOP CHORD

BOT CHORD

WFBS

33-8-0

LUMBER-

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

2x6 SP No.1 *Except* **WEBS** 1-39: 2x4 SP No.2

2x4 SP No.2 OTHERS

REACTIONS. All bearings 33-8-0.

Max Horz 40=-309(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 32, 30, 20 except 40=-119(LC 17),

33=-119(LC 12), 35=-108(LC 12), 36=-107(LC 12), 37=-108(LC 12), 38=-110(LC

12), 39=-341(LC 12), 29=-122(LC 13), 27=-108(LC 13), 26=-107(LC 13), 25=-108(LC 13), 24=-108(LC 13), 23=-107(LC 13), 22=-134(LC 13)

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

30, 29, 27, 26, 25, 24, 23, 22, 20 except 40=328(LC 12)

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

TOP CHORD 1-40=-306/120, 7-8=-109/273, 8-9=-138/357, 9-10=-158/412, 10-11=-158/412,

11-12=-138/357, 12-13=-109/273, 19-20=-254/80

BOT CHORD 39-40=-159/298, 38-39=-73/258, 37-38=-73/258, 36-37=-73/258, 35-36=-73/258,

33-35=-73/258, 32-33=-73/258, 31-32=-73/258, 30-31=-73/258, 29-30=-73/258,

27-29=-73/258, 26-27=-73/258, 25-26=-73/258, 24-25=-73/258, 23-24=-73/258,

22-23=-73/258, 20-22=-73/258

WEBS 1-39=-102/304

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) 32, 30, 20 except (jt=lb) 40=119, 33=119, 35=108, 36=107, 37=108, 38=110, 39=341, 29=122, 27=108, 26=107, 25=108, 24=108, 23=107, 22=134.

10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and

December 2,2021

ameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. AWARNING - Verry design parameters and KEAD NOTES ON THIS AND INCLUDED MITER REFERENCE AND THIS AND THE ADDRESS AND THIS AND THE ADDRESS AND THIS AND THE ADDRESS AND THIS AND THE AND THIS AND THE AND THIS AND THIS AND THIS AND THIS AND THIS AND THE AND THIS AND THE AND THIS AND THE AND THIS AND THE AND THE



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	
J0222-0764	A1GE	COMMON SUPPORTED GAB	1	1	E16467259	,
30222-0764	AIGE	COMMON SUPPORTED GAB	'	'	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:21 2021 Page 2 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-RWFr9zkwf3BapuVGuDVZIQVVGnEgSSHRD9ebmNyD2AG

NOTES-

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

Job		Truss	Truss Type		Qty	Ply	L	Lot 5 Avery Pointe		
J0222-0764		A1SG	GABLE		1		1		E16	6467260
								Job Reference (optional)		
Comtech, Inc, Fayetteville, NC - 28314,			8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:23 2021 Page 1							
				ID:I	4HRAT3e	IT9qoRI	ldAo	Es_5z0Axy-NuNcaflBBgRI2Cff?e	X1NrakbaoMwHXkgT7irFyD	2AE
	1	6-8-8	15-8-8		24-8-8			33-8-0	34-7-0	
	1	6-8-8	9-0-0	1	9-0-0			8-11-8	d-11-b	

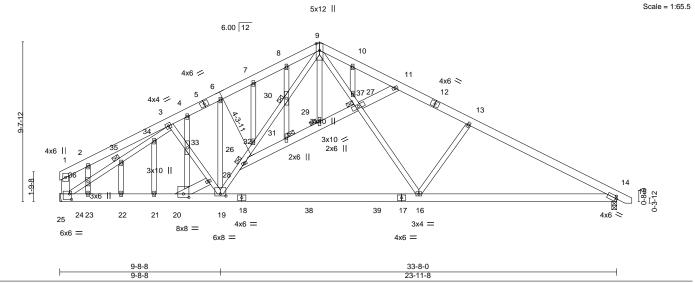


Plate Off	sets (X,Y)	[14:0-1-0,0-1-12], [19:0-4	-0,0-1-8], [20:	0-4-0,0-2-8 <u>],</u>	[24:0-1-8,0-4	4-0]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.20 16-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.32 16-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05 14	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S	Wind(LL)	0.11 14-16	>999	240	Weight: 306 lb	FT = 20%

TOP CHORD

BOT CHORD

JOINTS

LUMBER-2x6 SP No.1

TOP CHORD BOT CHORD 2x6 SP No.1

2x4 SP No.2 *Except* WEBS

1-24,26-27,11-27,20-28: 2x6 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. (size) 24=Mechanical, 14=0-3-8

Max Horz 24=-307(LC 13)

Max Uplift 24=-470(LC 12), 14=-543(LC 13) Max Grav 24=1333(LC 1), 14=1379(LC 1)

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

1-2=-618/333, 2-3=-573/426, 3-4=-1783/1116, 4-6=-1640/1055, 6-7=-1691/1168, 7-8=-1670/1236, 8-9=-1665/1293, 9-10=-1684/1188, 10-11=-1759/1143, 11-13=-1973/1243, 13-14=-2241/1285, 1-24=-462/238 TOP CHORD

BOT CHORD 23-24=-665/1468, 22-23=-665/1468, 21-22=-665/1468, 20-21=-665/1468,

19-20=-625/1432, 16-19=-471/1279, 14-16=-955/1908

WEBS 19-26=-306/562, 26-32=-420/615, 30-32=-526/632, 9-30=-549/671, 9-37=-389/794,

27-37=-325/792, 16-27=-347/805, 13-16=-420/519, 24-36=-1222/651, 35-36=-1218/638, 34-35=-1242/654, 3-34=-1417/759, 6-19=-315/262, 4-33=-162/262, 21-34=-273/162

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=470, 14=543.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Structural wood sheathing directly applied or 4-6-15 oc purlins,

Rigid ceiling directly applied or 7-10-14 oc bracing.

1 Brace at Jt(s): 26, 27, 29, 30, 31, 35

except end verticals.

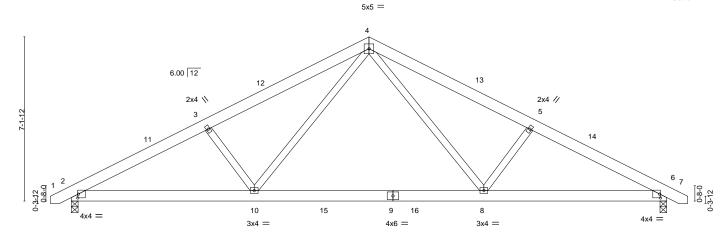
December 2,2021





Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	
					E1646726	
J0222-0764	B1	COMMON	6	1		
					Job Reference (optional)	
Comtech, Inc, Fayetteville, NC - 28314,		8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:25 2021 Page 1				
			ID:I4HRAT3eIT9d	oRldAoEs	s_5z0Axy-KHUM?LnRjlh0IVp173ZVTGf7AOVbOFg18ncpv8yD2AC	
₇ 0-11-Q	5-11-8	12-11-8		19-11-8	25-11-0 26-10-0	
0-11-0	5-11-8	7-0-0		7-0-0	5-11-8 b-11-0	

Scale = 1:47.2



	7-11-8		10-0-0	ı	7-11-8	<u> </u>
Plate Offsets (X,Y)	[2:0-0-6,0-2-0], [6:0-0-6,0-2-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.13	8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.21	8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.03	6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	8-10 >999 240	Weight: 167 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

17-11-8

LUMBER-

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

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

Max Horz 2=119(LC 11) Max Uplift 2=-203(LC 12), 6=-203(LC 13)

7-11-8

Max Grav 2=1077(LC 1), 6=1077(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1786/716, 3-4=-1619/715, 4-5=-1619/715, 5-6=-1786/716

BOT CHORD $2\text{-}10\text{=-}525/1569,\,8\text{-}10\text{=-}220/1003,\,6\text{-}8\text{=-}532/1522}$

WEBS $3-10=-347/336,\ 4-10=-202/674,\ 4-8=-202/674,\ 5-8=-347/336$

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-11-8, Exterior(2) 12-11-8 to 17-4-5, Interior(1) 17-4-5 to 26-7-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=203, 6=203.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



25-11-0

Structural wood sheathing directly applied or 5-9-8 oc purlins.

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

December 2,2021

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

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

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

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

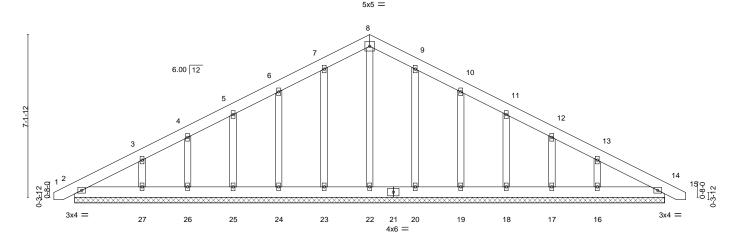


Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
					E16467262
J0222-0764	B1GE	COMMON SUPPORTED GAB	1	1	
					Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,		8	.430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:28 2021 Page 1

ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-ksAVdMpJ?D3b9zXcoB7C4vHhmbdKbedTqlqTWTyD2A9

Scale: 1/4"=1"

27-9-0



0-11-0			25-11-0	0-11-0
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) 0.00 14 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 14 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 14 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 191 lb FT = 20%

26-10-0

LUMBER-

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

-0-11-0

0-11-0

BRACING-

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

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

REACTIONS. All bearings 25-11-0.

(lb) - Max Horz 2=184(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 26, 20, 17, 14 except 24=-115(LC 12), 25=-110(LC 12),

27=-171(LC 12), 19=-118(LC 13), 18=-109(LC 13), 16=-167(LC 13)

13-10-8 12-11-8

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

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

TOP CHORD 7-8=-120/304, 8-9=-120/304

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 26, 20, 17, 14 except (jt=lb) 24=115, 25=110, 27=171, 19=118, 18=109, 16=167.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 2,2021

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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



10-11-8 16-11-8 21-11-0 6-0-0 6-0-0 4-11-8

5x8 || Scale = 1:53.4

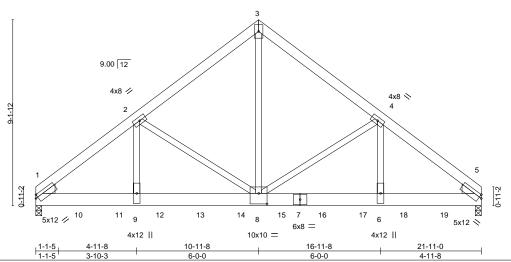


Plate Offsets (X,Y)-- [1:Edge,0-1-13], [5:Edge,0-1-13], [8:0-5-0,0-6-4]

1-1-5

4-11-8 3-10-3

LOADIN	(1 -)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL)	-0.10	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.96	Vert(CT)	-0.19	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.92	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.09	8-9	>999	240	Weight: 357 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2

WEDGE

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

REACTIONS. (size) 1=0-3-8 (req. 0-4-6), 5=0-3-8 (req. 0-4-7)

Max Horz 1=273(LC 7)

Max Uplift 1=-1299(LC 8), 5=-1321(LC 9) Max Grav 1=7367(LC 1), 5=7494(LC 1)

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1299, 5=1321.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1313 lb down and 242 lb up at 2-0-12, 1313 lb down and 242 lb up at 4-0-12, 1313 lb down and 242 lb up at 8-0-12, 1313 lb down and 242 lb up at 10-0-12, 1313 lb down and 242 lb up at 10-0-12, 1313 lb down and 242 lb up at 12-0-12, 1313 lb down and 242 lb up at 14-0-12, 1313 lb down and 242 lb up at 16-0-12, and 1313 lb down and 242 lb up at 18-0-12, and 1313 lb down and 242 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

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

December 2,2021

4.0AD.CASE(S)-Standard

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818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	٦
J0222-0764	C1-GR	Roof Special Girder	1		E16467263	3
30222-0704	01-010	Trooi Opecial Olidei	'	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:30 2021 Page 2 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-gFIF22raXqJJOHh?vc9gAKMzMP4C3LFmH2JaaLyD2A7

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

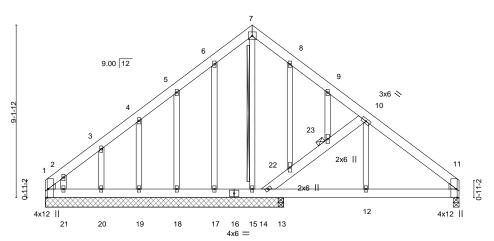
Vert: 10=-1313(B) 11=-1313(B) 12=-1313(B) 13=-1313(B) 14=-1313(B) 15=-1313(B) 16=-1313(B) 17=-1313(B) 18=-1313(B) 19=-1313(B)

Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
J0222-0764	C1SG	GABLE	1	1	E16467264
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:35 2021 Page 1 ID:I4HRAT3eIT9qoRIdAoEs_520Axy-1C585mviMMybU2ayi9IrtN4sXQ?WkpyVRK1LGZyD2A2

5x5 = Scale = 1:57.5



| 12-7-8 | 16-11-13 | 21-11-0 | | 12-7-8 | 4-4-5 | 4-11-3 | | Plate Offsets (X,Y)-- [1:0-5-8,Edge], [11:0-5-8,Edge]

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 0.14	Vert(LL) -0.00 11-12 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.01 11-12 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 11 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 11-12 >999 240	Weight: 191 lb FT = 20%

JOINTS

LUMBERTOP CHORD 2x6 SP No.1

BRACINGTOP CHORD
TOP CHORD

BOT CHORD 2x6 SP No.1 ## BOT CH
WEBS 2x6 SP No.1 *Except*

10-12: 2x4 SP No.2 OTHERS 2x4 SP No.2 WEDGE

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

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 13-14,12-13,11-12.

WEBS T-Brace: 2x4 SPF No.2 - 7-15

T-blade. 2X4 3FF No.2 - 7-15 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.

1 Brace at Jt(s): 23

REACTIONS. All bearings 12-7-8 except (jt=length) 11=0-3-8, 13=0-3-8.

(lb) - Max Horz 1=-344(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-222(LC 10), 11=-139(LC 13), 14=-335(LC 13), 17=-108(LC 12), 18=-159(LC 12), 19=-144(LC 12), 20=-157(LC

12), 21=-257(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 21, 13 except 1=369(LC 12), 11=390(LC 1), 14=281(LC 20), 15=257(LC 1)

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

TOP CHORD 1-2=-492/348, 2-3=-311/231, 10-11=-423/170

BOT CHORD 1-21=-247/331, 20-21=-247/331, 19-20=-247/331, 18-19=-247/331, 17-18=-247/331,

15-17=-247/331, 14-15=-247/331, 13-14=-12/279, 12-13=-12/279, 11-12=-12/279

WEBS 14-22=-618/439, 22-23=-539/373, 10-23=-542/374, 2-21=-236/254

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 222 lb uplift at joint 1, 139 lb uplift at joint 11, 335 lb uplift at joint 14, 108 lb uplift at joint 17, 159 lb uplift at joint 18, 144 lb uplift at joint 19, 157 lb uplift at joint 20 and 257 lb uplift at joint 21.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 2,2021

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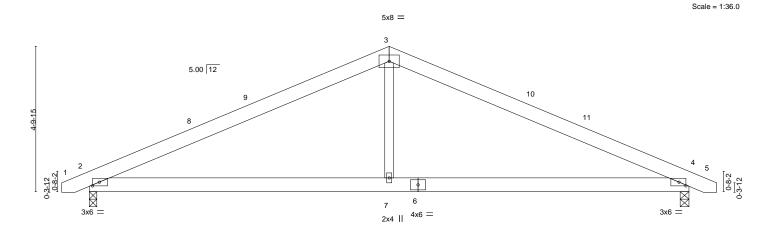
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818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	
						E16467265
J0222-0764	D1	COMMON	5	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,		. 8	.430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:37 202	21 Page 1
			ID:I4HRAT3eIT9	qoRldAoEs	s_5z0Axy-zbDvWRwzu_CJkLjLganJyo97LDd1CjjoueWS	KRyD2A0
-0-11-0	9-1	1-8			19-11-0	20-10-0
		1-8			9-11-8	0-11-0



	5-11-0				19-11-0		
	9-11-8		'		9-11-8		·
Plate Offsets (X,Y)-	[2:0-2-12,0-1-8], [4:0-2-12,0-1-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defI L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -	0.05 2-7	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -	0.13 2-7	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT)	0.02 4	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 2-7	>999 240	Weight: 108 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 2 WFBS

REACTIONS.

(size) 4=0-3-8, 2=0-3-0 Max Horz 2=-71(LC 17)

Max Uplift 4=-163(LC 13), 2=-162(LC 12)

Max Grav 4=836(LC 1), 2=835(LC 1)

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

TOP CHORD 2-3=-1239/498, 3-4=-1240/498 BOT CHORD 2-7=-293/1030, 4-7=-293/1030

WEBS 3-7=0/477

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 7) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 20-7-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0-11-8

- 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 163 lb uplift at joint 4 and 162 lb uplift at
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



10-11-0

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

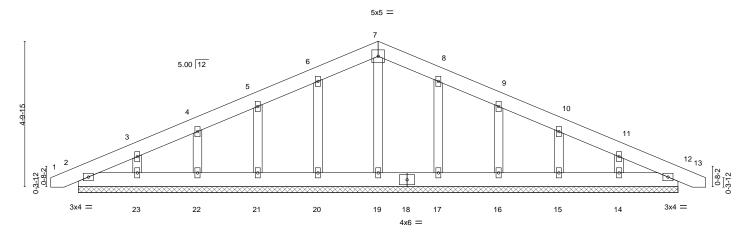
Rigid ceiling directly applied or 10-0-0 oc bracing.

December 2,2021



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	
						E16467266
J0222-0764	D1GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,		. 8	.430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:39 202	1 Page 1
		ID:	4HRAT3eIT	9qoRldAo	s_5z0Axy-vzLfx7yDQbS1zftkx?qn1DEZE1N8geP5My?Y	PKyD2A_
₁ -0-11-0 ₁ 9-		1-8			19-11-0	20-10-0 ₁
		1-8			9-11-8	0-11-0

Scale = 1:36.0



	19-11-0											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	`12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	, ,					Weight: 130 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD**

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

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

REACTIONS. All bearings 19-11-0.

Max Horz 2=-120(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20, 22, 17, 15 except 21=-102(LC 12), 23=-116(LC 12),

16=-103(LC 13), 14=-112(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 23, 17, 16, 15, 14

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 20, 22, 17, 15 except (jt=lb) 21=102, 23=116, 16=103, 14=112.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021

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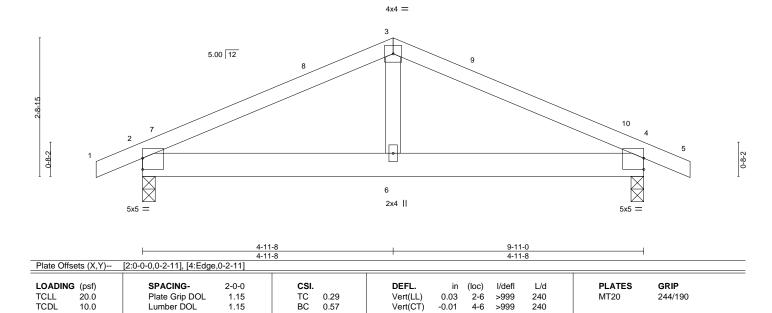
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
					E16467267
J0222-0764	G1	COMMON	4	1	
					Job Reference (optional)
Comtech, Inc., Fayetteville, NC 2	28309	•	•		3.430 s Mar 22 2021 MiTek Industries, Inc. Thu Dec 2 14:43:42 2021 Page 1
			ID:I4HRAT3el	T9qoRldA	DEs_5z0Axy-28atW2seq77kvprlx4_vU1h8guMH6LxFJy73ydyD_aF
-0-11-0	1	4-11-8		-	9-11-0 10-10-0
0-11-0 4-11-8		4-11-8			4-11-8 0-11-0

Scale = 1:21.5



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

4

n/a

n/a

Rigid ceiling directly applied or 9-2-9 oc bracing.

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

LUMBER-

BCLL

BCDL

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

0.0 *

10.0

(lb/size) 2=449/0-3-0 (min. 0-1-8), 4=449/0-3-0 (min. 0-1-8) REACTIONS.

Code IRC2015/TPI2014

Max Horz 2=-39(LC 17)

Max Uplift 2=-225(LC 8), 4=-225(LC 9)

Rep Stress Incr

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

TOP CHORD 2-7=-554/846, 7-8=-542/859, 3-8=-465/872, 3-9=-465/872, 9-10=-542/859, 4-10=-554/846

BOT CHORD 2-6=-667/437, 4-6=-667/437

3-6=-461/239 **WEBS**

NOTES-

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

2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-11-8, Exterior(2) 4-11-8 to 9-4-5, Interior(1) 9-4-5 to 10-10-0 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

WB 0.05

Matrix-S

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

YES

- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 225 lb uplift at ioint 4.

LOAD CASE(S) Standard



Weight: 45 lb

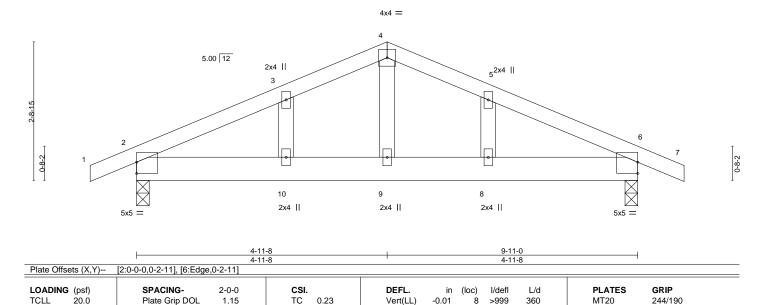
FT = 20%

December 2,2021



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
					E16467268
J0222-0764	G1GE	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc., Fayetteville, NC 2	28309			3	3.430 s Mar 22 2021 MiTek Industries, Inc. Thu Dec 2 14:44:10 2021 Page 1
•		II	D:I4HRAT3eIT9q	oRldAoEs_	_5z0Axy-EXGSPdBCEjfmG7_7ZyUUcxsyZBy3g?mMlJvYw?yD_Zp
-0-11-0	1	4-11-8			9-11-0
0-11-0	ı	4-11-8			4-11-8 0-11-0

Scale = 1:21.5



LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0 *

Wind(LL) BRACING-

Vert(CT)

Horz(CT)

-0.02

-0.01

0.02

>999

n/a

6

8 >999

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

Weight: 49 lb

FT = 20%

Rigid ceiling directly applied or 9-1-14 oc bracing.

240

n/a

240

REACTIONS. (lb/size) 2=449/0-3-0 (min. 0-1-8), 6=449/0-3-0 (min. 0-1-8)

Max Horz 2=-66(LC 13)

Max Uplift 2=-297(LC 8), 6=-297(LC 9)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-541/873, 3-4=-494/920, 4-5=-494/920, 5-6=-541/873

BOT CHORD 2-10=-688/437, 9-10=-688/437, 8-9=-688/437, 6-8=-688/437

WEBS 4-9=-534/232

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB 0.06

Matrix-S

0.42

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 oc.

1.15

YES

- 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 297 lb uplift at joint 2 and 297 lb uplift at

LOAD CASE(S) Standard



December 2,2021



Job	Tr	uss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	F.10.107000
J0222-0764	H	1GE	COMMON SUPPORTED GAB	1	1		E16467269
					·	Job Reference (optional)	
Comtech, Inc,	Fayetteville	e, NC - 28314,		ID:IAUDAT3		ig 16 2021 MiTek Industries, Inc. Th s_5z0Axy-gWqgcs2EX2TuwuUGPh	
		-0-11-0 0-11-0	5-8-8	ID.IHI IKATS	10-6-0 4-9-8) + 11-5-0 0-11-0	ZINIVZX41 0111 CGCCXZgsyD295
		0-11-0	4-9-8	ı	4-9-8	0-11-0	
				4x4 =			Scale = 1:29.6
	T			4			
			9.00 12 2x4 II	/ \ `	5 20	<4	
			3 /		/ 5		
	_						
	4-6-4		/ /				
]						
		T	A/			67	
		1 2				7	7
	4-4-0		 	<u> </u>	4		0-4-4
	1 4			***************************************	**********		I [4
			10	9	8	4.40.11	
		•	4x12 10 2x4	2x4	2x4	4x12	
				10.00		44	
		-0-11-0 0-11-0	 	10-6-0 9-7-0		11-5-0	
Plate Offsets (X,	Y) [2:0-5-	8,Edge], [6:0-5-8,I	Edge]			-	

Plate Off	sets (X,Y)	[2:0-5-8,Eage], [6:0-5-8,E	-agej										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	_
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	` 6	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	6	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 69 lb	FT = 20%	

TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 9-7-0.

(lb) - Max Horz 2=166(LC 11)

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

WEBS 3-10=-279/241, 5-8=-280/237

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=229, 8=223.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

December 2,2021

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

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

ANSITPH 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 5 Avery Pointe
					E16467270
J0222-0764	J1	MONOPITCH	6	1	
					Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,		. 8	.430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:48 2021 Page 1
		ID:I	4HRAT3el	Γ9qoRldAc	Es_5z0Axy-9iN3qC3sIMblY23SzOUuu76?JfQgHi6QQsgXCJyD29r
-0-	11-0	6-0	-0	•	
0-	11-0	6-0	-0		

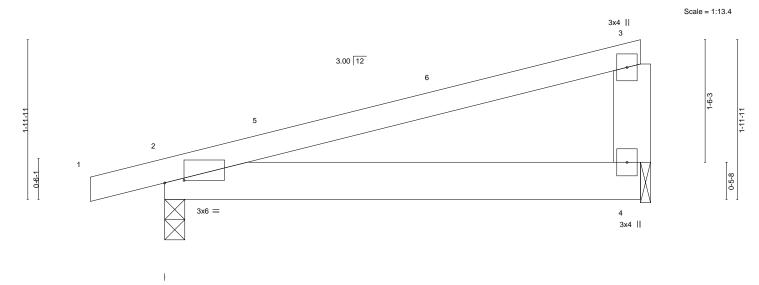


Plate Off	sets (X,Y)	[2:0-2-14,0-0-6]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.04	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 27 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

WFBS

2x6 SP No.1

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=75(LC 8)

Max Uplift 2=-188(LC 8), 4=-143(LC 8)

Max Grav 2=294(LC 1), 4=220(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 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) except (jt=lb) 2=188, 4=143.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 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.

December 2,2021





Job		Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
						E16467271
J0222-0764		J1GE	GABLE	1	1	
						Job Reference (optional)
Comtech, Ii	nc, Fayette	/ille, NC - 28314,			.430 s Aud	16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:54 2021 Page 1
						AoEs 5z0Axy-zslK4F7dtCLvGzXcJfbJ8OM6u4TyhQDlpn7rQyyD29l
	-0-	11-0		i-0-0	•	_ , , ,,,
	0-1	11-0		i-0-0		

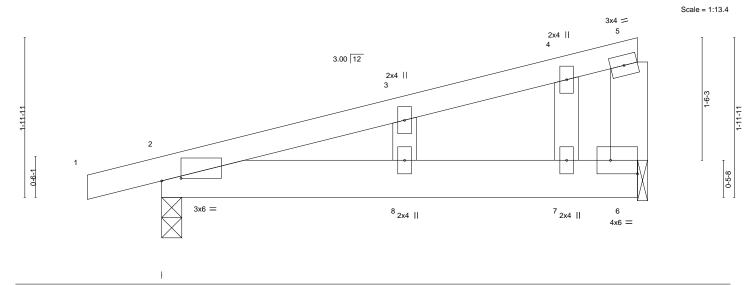


Plate Of	fsets (X,Y)	[2:0-2-14,0-0-6], [6:Edge	,0-2-0]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.04	` <i>8</i>	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	8	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	6	n/a	n/a			
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 29 lb	FT = 20%	

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x6 SP No.1 WFBS

2x4 SP No.2 OTHERS

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

Max Horz 2=106(LC 8)

Max Uplift 2=-259(LC 8), 6=-199(LC 8) Max Grav 2=294(LC 1), 6=220(LC 1)

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

BOT CHORD 2-8=-275/133, 7-8=-275/133, 6-7=-275/133

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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=259, 6=199,
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 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.

December 2,2021

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



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	
					E	16467272
J0222-0764	M1	MONOPITCH	6	1		
					Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,		8	3.430 s Aug	g 16 2021 MiTek Industries, Inc. Thu Dec 2 09:38:58 2021 F	Page 1
			ID IALIDATO	ITO DI -1 A	- F - F - O A	- Dool-

 $ID:I4HRAT3elT9qoRldAoEs_5z0Axy-sd_rwdA8xRrLlaqNYUfFIEXmfhpPdDaujP53ZkyD29h$ 4-0-0 4-0-0 0-11-0

Scale = 1:14.3 3x4 || 5.00 12 0-8-2 3x4 ||

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -	-0.00 2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -	-0.00 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/TPI2014	Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

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

except end verticals.

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

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

Max Horz 2=84(LC 12)

Max Uplift 2=-48(LC 8), 4=-52(LC 12) Max Grav 2=218(LC 1), 4=136(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021





Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
J0222-0764	M1GE	GABLE	1	1	E16467273
00222 0704	MIGE	ONDEE			Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

0-11-0

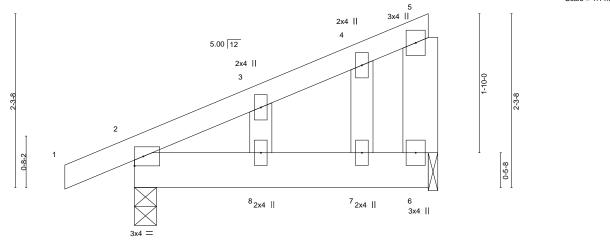
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:04 2021 Page 1 $ID:I4HRAT3elT9qoRIdAoEs_5z0Axy-hnL6BgFvXHcUTVHXvImfYVnrP6uX1xhm6LYNmNyD29b$ 4-0-0 4-0-0

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

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

except end verticals.

Scale = 1:14.3



LOADING	· /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC TC	0.06	Vert(LL)	0.00	8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.00	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 23 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SP No.1 *Except* **WEBS** 3-8: 2x4 SP No.2

OTHERS 2x4 SP No.2

REACTIONS.

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

Max Horz 2=121(LC 12)

Max Uplift 2=-90(LC 12), 6=-93(LC 12) Max Grav 2=218(LC 1), 6=136(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.

 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
J0222-0764	M2	HALF HIP	6	1	E16467274
30222-0704	IVIZ	TIALI IIII			Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:05 2021 Page 1 $ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-9_vUO0GXlakL5fskTSHu4iJwFWC8mNjwK?IwJqyD29a$

4-0-0

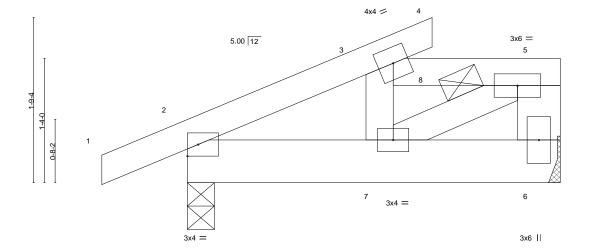
Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

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

0-11-0

Scale = 1:11.6



		2-7-8		1-4-8	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. DEFL	(/	I/defl L/d >999 360	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.21 Vert(0 WB 0.10 Horz(CT) -0.00 7	>999 240 n/a n/a	101120 244/130
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P Wind(>999 240	Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-7-8

LUMBER-

REACTIONS.

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

5-6: 2x6 SP No 1

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

Max Horz 2=59(LC 12) Max Uplift 6=-112(LC 9), 2=-93(LC 8)

Max Grav 6=546(LC 22), 2=387(LC 1)

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

TOP CHORD 2-3=-470/402, 3-5=-366/461, 5-6=-489/492

BOT CHORD 2-7=-492/386

WEBS 3-7=-245/382, 5-7=-528/420

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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) 2 except (jt=lb) 6=112.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified.
- Building designer must review loads to verify that they are correct for the intended use of this truss. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=-500



December 2,2021

neters 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.

Starty Information

Ansity Prevent



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	
10222 0704	MO	HALF HIP			E1	16467274
J0222-0764	M2	HALF HIP	В	'	Job Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:05 2021 Page 2 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-9_vUOOGXlakL5fskTSHu4iJwFWC8mNjwK?lwJqyD29a

Comtech, Inc. Fayetteville, NC - 28314, LOAD CASE(S) Standard 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 3-4=-50, 3-8=-100, 5-8=-130, 2-6=-20 Concentrated Loads (lb) Vert: 8=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 3-4=-20, 3-5=-40, 2-6=-40 Concentrated Loads (lb) Vert: 8=-375 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=98, 2-3=82, 3-4=207, 3-5=67, 2-6=-12 Horz: 1-2=-110, 2-3=-94, 3-4=-219 Concentrated Loads (lb) Vert: 8=467 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=73, 2-3=82, 3-4=73, 3-5=67, 2-6=-12 Horz: 1-2=-85, 2-3=-94, 3-4=-85 Concentrated Loads (lb) Vert: 8=467 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=5, 2-3=-54, 3-4=30, 3-5=-64, 2-6=-20 Horz: 1-2=-25, 2-3=34, 3-4=-50 Concentrated Loads (lb) Vert: 8=-462 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-45, 2-3=-54, 3-4=-45, 3-5=-64, 2-6=-20 Horz: 1-2=25, 2-3=34, 3-4=25 Concentrated Loads (lb) Vert: 8=-462 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=40, 2-3=20, 3-4=11, 3-5=11, 2-6=-12 Horz: 1-2=-52, 2-3=-32, 3-4=-23 Concentrated Loads (lb) Vert: 8=121 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=11, 2-3=20, 3-4=41, 3-5=11, 2-6=-12 Horz: 1-2=-23, 2-3=-32, 3-4=-53 Concentrated Loads (lb) Vert: 8=121 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-3=-6, 3-4=3, 3-5=-15, 2-6=-20 Horz: 1-2=-23, 2-3=-14, 3-4=-23 Concentrated Loads (lb) Vert: 8=-306 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-3=-6, 3-4=3, 3-5=-15, 2-6=-20 Horz: 1-2=-23, 2-3=-14, 3-4=-23 Concentrated Loads (lb) Vert: 8=-306 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=22, 2-3=31, 3-4=22, 3-5=-5, 2-6=-12 Horz: 1-2=-34, 2-3=-43, 3-4=-34 Concentrated Loads (lb) Vert: 8=121 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=-5, 2-6=-12 Horz: 1-2=-18, 2-3=-27, 3-4=-18 Concentrated Loads (lb) Vert: 8=21 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

Uniform Loads (plf)

Concentrated Loads (lb) Vert: 8=121

Vert: 1-2=22, 2-3=31, 3-4=22, 3-5=-5, 2-6=-12

Horz: 1-2=-34, 2-3=-43, 3-4=-34

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 propriy damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
J0222-0764	M2	HALF HIP	6	1	E16467274
30222-0704	IVIZ	ITALI TIIF	0	· '	Job Reference (optional)

Concentrated Loads (lb) Vert: 8=-438

Concentrated Loads (lb) Vert: 8=-438

Uniform Loads (plf)

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

Vert: 1-3=-20, 3-4=-20, 3-8=-100, 5-8=-130, 2-6=-20

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:05 2021 Page 3 $ID:I4HRAT3eIT9qoRIdAo\check{Es}_5z0Axy-9_vUO0GXIakL5fskTSHu4iJwFWC8mNjwK?IwJqyD29a$

Comtech, Inc. Fayetteville, NC - 28314, LOAD CASE(S) Standard 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=-5, 2-6=-12 Horz: 1-2=-18, 2-3=-27, 3-4=-18 Concentrated Loads (lb) Vert: 8=21 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert; 1-2=14, 2-3=5, 3-4=14, 3-5=-31, 2-6=-20 Horz: 1-2=-34, 2-3=-25, 3-4=-34 Concentrated Loads (lb) Vert: 8=-306 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-2, 2-3=-11, 3-4=-2, 3-5=-31, 2-6=-20 Horz: 1-2=-18, 2-3=-9, 3-4=-18 Concentrated Loads (lb) Vert: 8=-306 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 1-3=-20, 3-4=-20, 3-5=-120, 2-6=-20 Concentrated Loads (lb) Vert: 8=-250 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-33, 2-3=-40, 3-4=-33, 3-8=-81, 5-8=-111, 2-6=-20 Horz: 1-2=-17, 2-3=-10, 3-4=-17 Concentrated Loads (lb) Vert: 8=-480 20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-33, 2-3=-39, 3-4=-33, 3-8=-81, 5-8=-111, 2-6=-20 Horz: 1-2=-17, 2-3=-11, 3-4=-17 Concentrated Loads (lb) Vert: 8=-480 21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-24, 2-3=-31, 3-4=-24, 3-8=-93, 5-8=-123, 2-6=-20 Horz: 1-2=-26, 2-3=-19, 3-4=-26 Concentrated Loads (lb) Vert: 8=-480 22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-36, 2-3=-43, 3-4=-36, 3-8=-93, 5-8=-123, 2-6=-20 Horz: 1-2=-14, 2-3=-7, 3-4=-14 Concentrated Loads (lb) Vert: 8=-480 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 3-4=-60, 3-8=-40, 5-8=-80, 2-6=-20 Concentrated Loads (lb) Vert: 8=-500 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 3-4=-20, 3-8=-40, 5-8=-80, 2-6=-20 Concentrated Loads (lb) Vert: 8=-500 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 3-4=-50, 3-8=-100, 5-8=-130, 2-6=-20

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

Job Truss Truss Type Qty Ply Lot 5 Avery Pointe F16467275 J0222-0764 M2A HALF HIP Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:09 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-1I9?EOJ1LpEnZGAViIMqFYUe47c?iCLVFdG8SbyD29W -0-11-0 0-11-0 Scale = 1:11.6 4x4 = 3x6 = 5.00 12 5 4 0-8-2 6 3x4 = 3x4 ||

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

-0.00

-0.00

0.00

I/defl

>999

>999

>999

n/a

L/d

360

240

n/a

240

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

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

20.0

10.0

0.0

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

5-6: 2x6 SP No 1

REACTIONS. (size) 6=Mechanical, 2=0-3-8 Max Horz 2=59(LC 8)

Max Uplift 2=-40(LC 4)

Max Grav 6=708(LC 18), 2=439(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=-565/0, 3-5=-445/17, 5-6=-641/0

BOT CHORD 2-7=-20/471

WEBS 3-7=-308/37, 5-7=-19/511

NOTES-

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

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

2-0-0

1.15

1.15

NO

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.

CSI.

TC

вс

WB

Matrix-P

0.26

0.09

0.06

- 4) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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) Provide adequate drainage to prevent water ponding.6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



PLATES

Weight: 45 lb

MT20

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

GRIP

244/190

FT = 20%

December 2,2021

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Starty Information

Ansity Prevent



8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:09 2021 Page 2 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-1I9?EOJ1LpEnZGAViIMqFYUe47c?iCLVFdG8SbyD29W

Comtech, Inc. Fayetteville, NC - 28314, LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-60, 3-4=-60, 3-8=-160, 5-8=-200, 2-6=-20 Concentrated Loads (lb) Vert: 8=-500 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-50, 3-4=-50, 3-8=-220, 5-8=-250, 2-6=-20 Concentrated Loads (lb) Vert: 8=-438 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-20, 3-4=-20, 3-5=-160, 2-6=-40 Concentrated Loads (lb) Vert: 8=-375 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=40, 2-3=20, 3-4=11, 3-5=-109, 2-6=-12 Horz: 1-2=-52, 2-3=-32, 3-4=-23 Concentrated Loads (lb) Vert: 8=121 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=11, 2-3=20, 3-4=41, 3-5=-109, 2-6=-12 Horz: 1-2=-23, 2-3=-32, 3-4=-53 Concentrated Loads (lb) Vert: 8=121 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert; 1-2=3, 2-3=-6, 3-4=3, 3-5=-135, 2-6=-20 Horz: 1-2=-23, 2-3=-14, 3-4=-23 Concentrated Loads (lb) Vert: 8=-306 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=3, 2-3=-6, 3-4=3, 3-5=-135, 2-6=-20 Horz: 1-2=-23, 2-3=-14, 3-4=-23 Concentrated Loads (lb) Vert: 8=-306 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert; 1-2=22, 2-3=31, 3-4=22, 3-5=-125, 2-6=-12 Horz: 1-2=-34, 2-3=-43, 3-4=-34 Concentrated Loads (lb) Vert: 8=121 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=-125, 2-6=-12 Horz: 1-2=-18, 2-3=-27, 3-4=-18 Concentrated Loads (lb) Vert: 8=21 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=22, 2-3=31, 3-4=22, 3-5=-125, 2-6=-12 Horz: 1-2=-34, 2-3=-43, 3-4=-34 Concentrated Loads (lb) Vert: 8=121 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=-125, 2-6=-12 Horz: 1-2=-18, 2-3=-27, 3-4=-18 Concentrated Loads (lb) Vert: 8=21 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=14, 2-3=5, 3-4=14, 3-5=-151, 2-6=-20 Horz: 1-2=-34, 2-3=-25, 3-4=-34 Concentrated Loads (lb) Vert: 8=-306 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-2, 2-3=-11, 3-4=-2, 3-5=-151, 2-6=-20

Concentrated Loads (lb) Vert: 8=-306

Horz: 1-2=-18, 2-3=-9, 3-4=-18

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Starty Information

Ansity Prevent



818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	
J0222-0764	M2A	 HALF HIP	1	_		E16467275
30222-0704	IVIZA	ITALI TIIF	'	2	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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LOAD CASE(S) Standard

14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-3=-20, 3-4=-20, 3-5=-240, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-250

 $15) \ \ Dead + 0.75 \ Roof \ Live (bal.) + 0.75 \ Attic \ Floor + 0.75 (0.6 \ MWFRS \ Wind (Neg. \ Int)) \ Left): \ Lumber \ Increase = 1.60, \ Plate \ Increase = 1.60 \ Root \ Lumber \ Root \ Roo$

Uniform Loads (plf)

Vert: 1-2=-33, 2-3=-40, 3-4=-33, 3-8=-201, 5-8=-231, 2-6=-20

Horz: 1-2=-17, 2-3=-10, 3-4=-17

Concentrated Loads (lb)

Vert: 8=-480

16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-33, 2-3=-39, 3-4=-33, 3-8=-201, 5-8=-231, 2-6=-20

Horz: 1-2=-17, 2-3=-11, 3-4=-17

Concentrated Loads (lb)

Vert: 8=-480

17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-24, 2-3=-31, 3-4=-24, 3-8=-213, 5-8=-243, 2-6=-20

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

Concentrated Loads (lb)

Vert: 8=-480

18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-36, 2-3=-43, 3-4=-36, 3-8=-213, 5-8=-243, 2-6=-20

Horz: 1-2=-14, 2-3=-7, 3-4=-14

Concentrated Loads (lb)

Vert: 8=-480

19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 3-8=-160, 5-8=-200, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-500

20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 3-4=-20, 3-8=-160, 5-8=-200, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-500

21) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-50, 3-4=-50, 3-8=-220, 5-8=-250, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-438

22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-20, 3-4=-20, 3-8=-220, 5-8=-250, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-438

818 Soundside Road

Job Truss Truss Type Qty Ply Lot 5 Avery Pointe F16467276 J0222-0764 V1 VALLEY Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:10 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314, $ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1yD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIXwwRe1fUH?h_1xyD29VAxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-VxiNRkKg67MeBQIhF0t3nm0qIxy-Vxi$ 8-7-0 8-7-0 Scale = 1:42.3 4x4 =3 9.00 12 2x4 || 2x4 || 4 11 10 3x4 // 3x4 💸 9 12 8 13 6 2x4 || 3x4 = 2x4 || 2x4 || 17-1-8 Plate Offsets (X.Y)-- [4:0-0-0.0-0-0]

I late Oil	3613 (A, I)	[4.0-0-0,0-0-0]											
LOADIN	G (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.20	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.17 0.10	Vert(CT) Horz(CT)	n/a 0.00	- 5	n/a n/a	999 n/a			

10.0 LUMBER-TOP CHORD 2x4 SP No.1

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

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.

Weight: 73 lb

FT = 20%

REACTIONS. All bearings 17-1-0.

(lb) - Max Horz 1=195(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-218(LC 12), 6=-218(LC 13)

All reactions 250 lb or less at joint(s) 1, 5 except 8=418(LC 19), 9=496(LC 19), 6=496(LC 20)

Matrix-S

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

Code IRC2015/TPI2014

WEBS 2-9=-455/344, 4-6=-455/345

NOTES-

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-7-0, Interior(1) 4-7-0 to 8-7-0, Exterior(2) 8-7-0 to 12-11-13, Interior(1) 12-11-13 to 16-8-11 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=218, 6=218,
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021





Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe		F40407077
J0222-0764	V2	VALLEY	1		1		E16467277
30222-0704	VZ	VALLET	'		Job Reference (op	tional)	
Comtech, Inc, F	ayetteville, NC - 28314,	·				ustries, Inc. Thu Dec 2 09:39	
		7-3-0	ID:I4HRA	T3elT9qol	RIdAoEs_5z0Axy-z7Glf 14-6-0	3LltQUUpaKtpjOIKzZ?IwHUA	5dojxIFWTyD29U
		7-3-0			7-3-0		
			4x4 =				Scale = 1:34.
	T		3				
		9.00 12					
		10 /			11		
				//			
	4	2x4		`	2x4		
	5-5	2 //			4		
		9 🚽			12		
		//					
	1/	/				5	
	'/\/						
	9			*****		*9	
	3x4 🖊	8	7		6	3x4 ≫	
		2x4	2x4		2x4		
			14-5-8			14.6.0	
			14-5-8			14-6-0 0-0-8	
Plate Offsets (X,Y)	[4:0-0-0,0-0-0]						

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (le	loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 60 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 14-5-0.

(lb) - Max Horz 1=163(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-184(LC 12), 6=-184(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=375(LC 19), 6=375(LC 20)

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

WEBS 2-8=-388/310, 4-6=-388/310

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 1) Usind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 7-3-0, Exterior(2) 7-3-0 to 11-7-13, Interior(1) 11-7-13 to 14-0-11 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 except (jt=lb) 8=184, 6=184.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021





Job Truss Truss Type Qty Ply Lot 5 Avery Pointe F16467278 J0222-0764 V3 VALLEY Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:12 2021 Page 1 ID:I4HRAT3eIT9qoRldAoEs_520Axy-SKq7sPLwekcLQkv4NRvXtB6A6KdevZByxbUo2wyD29T Comtech, Inc. Fayetteville, NC - 28314, 11-10-0 5-11-0 5-11-0 Scale = 1:28.1 4x4 =3 11 9.00 12 2x4 || 4^{2x4} Ⅱ 3x4 🖊 3x4 ❖ 2x4 | 2x4 || 2x4 || 11-10-0 11-9-8 Dieta Offesta (V.V.) [4.0 0 0 0 0]

Flate Offsets (A, I)	[4.0-0-0,0-0-0]						
LOADING (psf)	SPACING- 2-0-0		DEFL. in	(loc) I/def	i L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14 \	Vert(LL) n/a	- n/a	a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09 \	Vert(CT) n/a	- n/a	a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	5 n/a	a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S				Weight: 46 lb	FT = 20%

LUMBER-

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

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

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

REACTIONS. All bearings 11-9-0.

(lb) - Max Horz 1=-131(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-172(LC 12), 6=-171(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=343(LC 19), 6=342(LC 20)

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

WEBS 2-8=-372/316, 4-6=-372/316

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-4-11 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.
- 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=172, 6=171.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021





818 Soundside Road

Job	Truss	Truss Type		Qty	Ply	Lot 5 Avery Pointe		_
10000 0704	V4	VALLEY			1			E16467279
J0222-0764	V4	VALLEY		1	1	Job Reference (opti	ional)	
Comtech, Inc, Fay	etteville, NC - 28314,			8	430 s Auc		ustries, Inc. Thu Dec 2 09:39:13	2021 Page 1
Connecii, iiic, i ay	etteville, IVO - 20014,		ID:I4HRA				P2kC2tTGx8RmPOeL6kzIe0j5AFI	
	1	4-7-0				9-2-0	L COLORDANIA COLORDANIA	, 5200
		4-7-0				4-7-0		
			4x4 =					Scale = 1:22.9
			_					
	т		2					
		9.00 12						
		9.00 12	/ `	/ /				
	4				/ /			
	3-5-4							
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	3,4 %		2x4			3,	4 🗸	
	1		9-1-8				9-2-0 0-0-8	
			9-1-8				0-0-8	
LOADING (psf)		0-0 CSI .	DEFL.	in		I/defl L/d	PLATES GRIP	
TCLL 20.0		.15 TC 0.19	Vert(LL)	n/a		n/a 999	MT20 244/19	90
TCDL 10.0		.15 BC 0.13	Vert(CT)			n/a 999		
BCLL 0.0 *		ES WB 0.04	Horz(CT	0.00	3	n/a n/a	W	000/
BCDL 10.0	Code IRC2015/TPI20	14 Matrix-S					Weight: 33 lb FT	= 20%

LUMBER-

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

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

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

REACTIONS. (size) 1=9-1-0, 3=9-1-0, 4=9-1-0

Max Horz 1=99(LC 11)

Max Uplift 1=-42(LC 12), 3=-52(LC 13), 4=-24(LC 12) Max Grav 1=171(LC 1), 3=172(LC 20), 4=321(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021





818 Soundside Road

000	11400	Trado Type	a.y	1,	Lot o 7 tvoly 1 olinto	F4C4C7000
J0222-0764	V5	VALLEY	1	1		E16467280
					Job Reference (optional)	
Comtech, Inc, Fa	yetteville, NC - 28314,		B.M.DATO-ITO	3.430 s Aug	16 2021 MiTek Industries	s, Inc. Thu Dec 2 09:39:14 2021 Page 1 g12SUry?ycBWn8KbNTIEPvzv7oyD29R
		3-3-0	ID:I4HKAT3eITS		s_520Axy-Olyumanaalsa 6-6-0	g1250fy?ycBwn8kbNTEPv2v70yD29k
		3-3-0			3-3-0	
						Scale = 1:17.1
			4x4 =			Scale = 1.17.1
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			4			
	3x4 //	2x4	- II		3x4 ≫	
			6-5-8			6-6-0 0-0-8
	1		6-5-8			0-Ö-8
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc)	I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15		Vert(LL) n/a		n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15		Vert(CT) n/a		n/a 999	
BCLL 0.0 *	Rep Stress Incr YES		Horz(CT) 0.00) 3	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P				Weight: 23 lb FT = 20%
	ı	1				

Qty

Ply

Lot 5 Avery Pointe

LUMBER-

Job

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

BRACING-

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

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

REACTIONS. (size) 1=6-5-0, 3=6-5-0, 4=6-5-0 Max Horz 1=-67(LC 8)

Truss

Truss Type

Max Uplift 1=-37(LC 12), 3=-44(LC 13)

Max Grav 1=126(LC 1), 3=126(LC 1), 4=197(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 2,2021

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 russ 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 5 Avery Pointe F16467281 J0222-0764 V6 VALLEY Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 2 09:39:15 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314, $ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-svWGUROoxf_wHBdf2ZTEUpkj3YgU6wgOeZjSfEyD29Q$ 1-11-0 Scale = 1:9.9 4x4 = 2 9.00 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 💸 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** in (loc) I/defl 20.0 Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 1.15 0.03 n/a 999 MT20 n/a **TCDL** 10.0 Lumber DOL 1.15 вс 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 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 12 lb FT = 20% LUMBER-BRACING-

TOP CHORD

BOT CHORD

TOP CHORD BOT CHORD OTHERS REACTIONS.

(size) 1=3-9-0, 3=3-9-0, 4=3-9-0

Max Horz 1=-35(LC 8)

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

2x4 SP No.2

Max Uplift 1=-20(LC 12), 3=-23(LC 13)

Max Grav 1=66(LC 1), 3=66(LC 1), 4=104(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

December 2,2021

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, 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



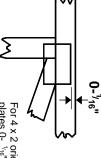
818 Soundside Road

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 This symbol indicates the

connector plates

* 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

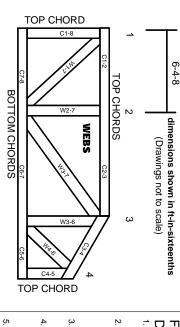
Industry Standards:

ANSI/TPI1: National Design Specification for Metal

DSB-89:

Installing & Bracing of Metal Plate Connected Wood Trusses. Plate Connected Wood Truss Construction. 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

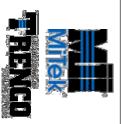
ICC-ES Reports:

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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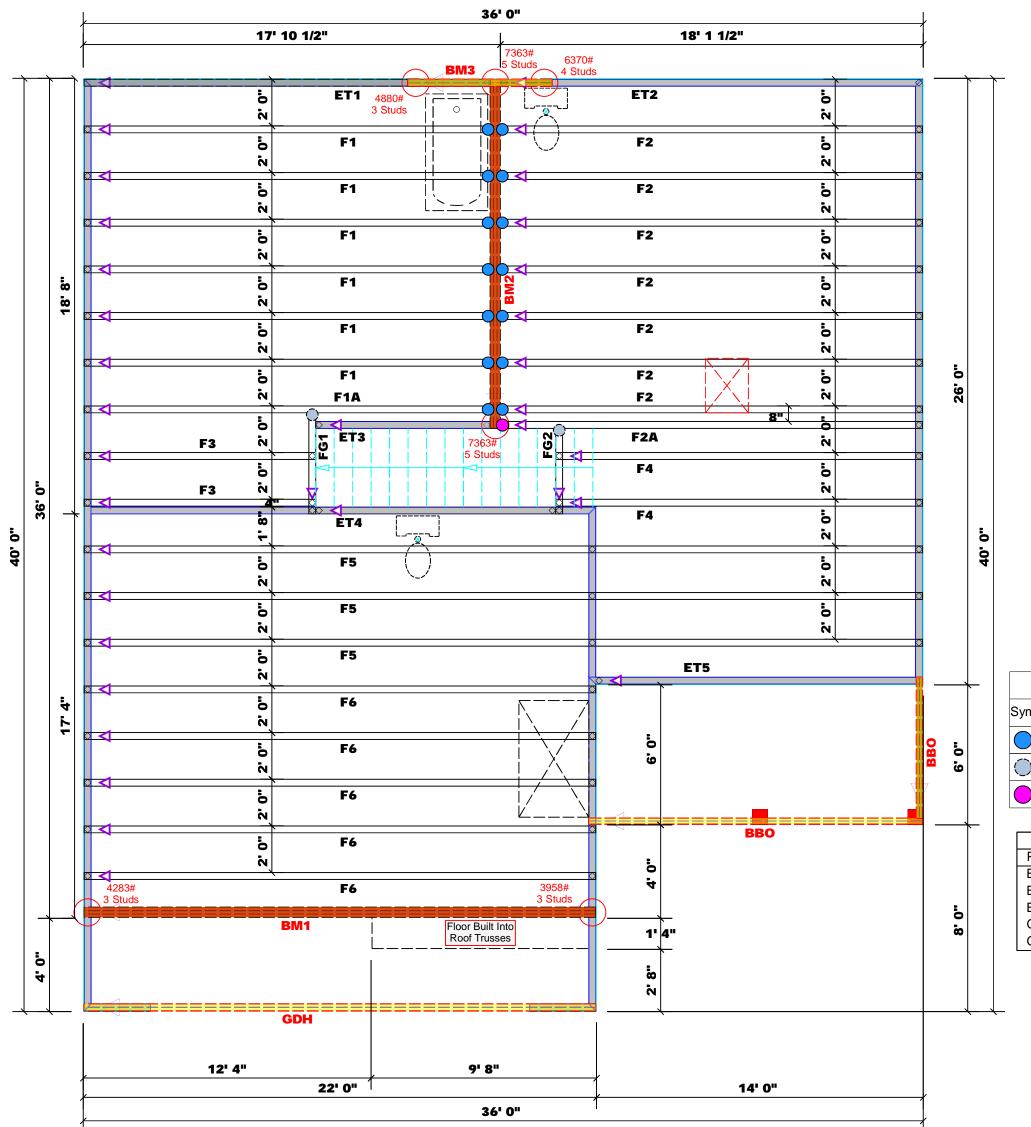


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.



Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes	
phing drop locations shown are N	$\overline{}$

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

	Conne	ctor Info	rmati	ion	Nail Info	ormation
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS410	USP	14	NA	16d/3-1/2"	16d/3-1/2"
	MSH422	USP	2	Varies	10d/3"	10d/3"
	HD410IF	USP	1	NA	16d/3-1/2"	10d/3"

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	22' 0"	1-3/4"x 16" LVL Kerto-S	3	3
BM2	15' 0"	1-3/4"x 16" LVL Kerto-S	3	3
BM3	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
GDH	22' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2
GDH2	12' 0"	2x12 SPF No.2	2	2

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

ROOF & FLOOR TRUSSES & BEAMS

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

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Cod requirements) to determine the minimum foundatio size and number of wood studs required to support reactions greater than 3000# but not greater than 1500#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attache Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 1500#.

David Landry

David Landry

LO	AD (CHAR	₹T FO	R J	ACK STUD	s
	(à.	ASED O	N TABLES	ROOE	5(t) & (b))	
NU			STUBS R HEADER/G		ED & EA END OF	
END REACHON (UP 10)	REQ10 STUDG FOR (2) PLY HEADER		BND REACTION (UF TO)	REQ'D STUDS FOR (3) MY HEADER	END REACTION (JP TG)	REQ15 STUDS FOR (4) PLY MEADER
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					

ILDERRegency HomesCITY / CO.Erwin / HarnettIB NAMELot 5 Avery PointeADDRESS430 Josey Williams RoadANBrinkley "B" / 3GLFMODELFloorAL DATEN/ADATE REV.02/14/22JOTE #DRAWN BYDavid Landry
--

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

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



Client: Regency Homes

Project: Brinkley Address:

430 Josey Williams Road Erwin, NC 28339

2/14/2022 Date:

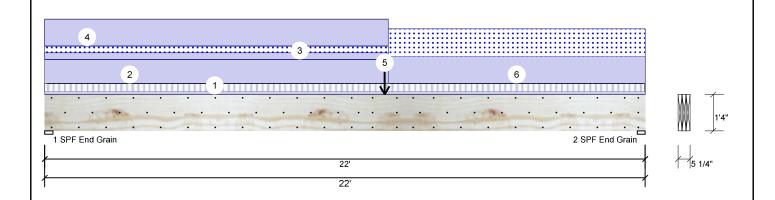
Input by: David Landry Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

Page 1 of 11

1.750" X 16.000" **Kerto-S LVL** 3-Ply - PASSED BM₁

Level: Level

Reactions UNPATTERNED In (Unlift)



	Member Inform	nation			
I	Type:	Girder	Application:	Floor	
	Plies:	3	Design Method:	ASD	
	Moisture Condition:	Dry	Building Code:	IBC/IRC 2015	
	Deflection LL:	480	Load Sharing:	Yes	
	Deflection TL:	360	Deck:	Not Checked	
	Importance:	Normal	Ceiling:	Gypsum 1/2"	
ı	Temperature:	Temp <= 100°F			
ı					

Redections of the Attributed to Copinity									
Brg	Live	Dead	Snow	Wind	Const				
1	440	3406	729	0	0				
2	440	2616	1342	0	0				

Analysis Results Analysis Actual Location Allowed Capacity Comb. Case Moment 23283 ft-lb 11'3 7/8" 62010 ft-lb 0.375 (38%) D+0.75(L+S) L 23283 ft-lb 11'3 7/8" 23318 ft-lb Unbraced 0.999 D+0.75(L+S) L

(100%) Shear 4012 lb 1'6 3/4" 20608 lb 0.195 (19%) D+0.75(L+S) L LL Defl inch 0.150 (L/1723) 11'6 1/16" 0.539 (L/480) 0.280 (28%) 0.75(L+S) TL Defl inch 0.566 (L/457) 11' 0.718 (L/360) 0.790 (79%) D+0.75(L+S) L

Bearings Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.625" 26% 3406 / 877 4283 L D+0.75(L+S) Fnd Grain 2 - SPF 3.500" 25% 2616 / 1342 3958 L D+S End Grain

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 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 7'7 1/2" o.c.
- 7 Lateral slenderness ratio based on single ply width.

·											
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Tie-In	0-0-0 to 22-0-0	1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor	
2	Part. Uniform	0-0-0 to 12-7-0		Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall	
3	Part. Uniform	0-0-0 to 12-7-0		Near Face	34 PLF	0 PLF	34 PLF	0 PLF	0 PLF	M1	
4	Part. Uniform	0-0-0 to 12-7-0		Тор	135 PLF	0 PLF	0 PLF	0 PLF	0 PLF	C1GE	
5	Point	12-5-8		Near Face	354 lb	0 lb	354 lb	0 lb	0 lb	M2A	
I											

Continued on page 2...

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 4/24/2023

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

Manufacturer Info

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







Client: Regency Homes Project:

Brinkley

Address: 430 Josey Williams Road

Erwin, NC 28339

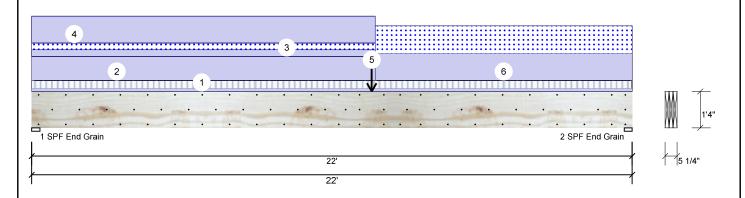
Date: 2/14/2022

Input by: David Landry Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

Page 2 of 11

Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED BM1

Level: Level



..Continued from page 1

ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 137 PLF 0 PLF 137 PLF 0 PLF 0 PLF M2 6 Part. Uniform 12-7-0 to 22-0-0 Near Face Self Weight 19 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

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For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

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Manufacturer Info

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







Client: Regency Homes

Project:

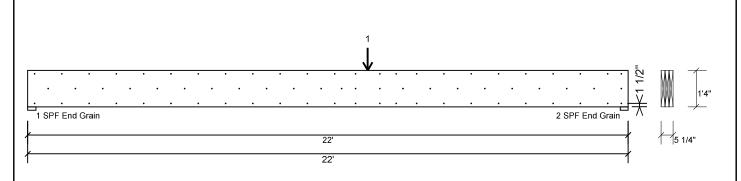
Address: 430 Josey Williams Road Erwin, NC 28339

2/14/2022 Date: Input by: David Landry

Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED BM₁

Level: Level



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. Nail from both sides. Maximum end distance not to exceed 6"

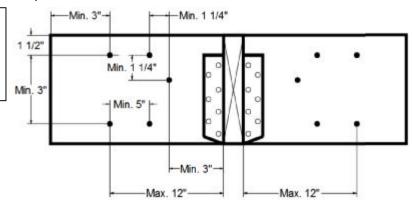
Capacity	64.7 %	
Load	182.7 PLF	
Yield Limit per Foot	282.4 PLF	
Yield Limit per Fastener	94.1 lb.	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+S	
Duration Factor	1.15	

Concentrated Load

Fasten at concentrated side load at 12-5-8 with a minimum of (6) – 10d Box nails (.128x3") in the pattern shown. Repeat fasteners on both sides.

pattern snown. Repeat	attern shown. Repeat fasteriers on both sides.							
Capacity	83.6 %							
Load	472.0lb.							
Total Yield Limit	564.7 lb.							
Cg	0.9998							
Yield Limit per Fastener	94.1 lb.							
Yield Mode	IV							
Load Combination	D+S							
Duration Factor	1 15							

Min/Max fastener distances for Concentrated Side Loads



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 4/24/2023

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

Manufacturer Info

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



Page 3 of 11





Client: Regency Homes

Project: Brinkley Address:

430 Josey Williams Road Erwin, NC 28339

2/14/2022 Date:

Input by: David Landry Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

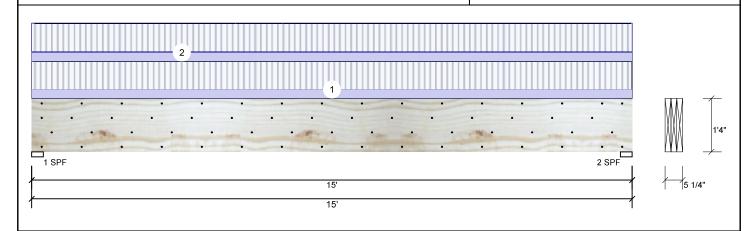
Level: Level

Page 4 of 11

Kerto-S LVL BM₂

1.750" X 16.000"

3-Ply - PASSED



Member Into	rmation			Reactio	ns UNPAT	TERNED Ib	(Uplift)		
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const
Plies:	3	Design Method:	ASD	1	5415	1948	0	0	0
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015	2	5415	1948	0	0	0
Deflection LL:	480	Load Sharing:	Yes						
Deflection TL:	360	Deck:	Not Checked						
Importance:	Normal	Ceiling:	Gypsum 1/2"						
Temperature:	Temp <= 100°F								
				Bearing	js				
				Bearing	Length	Cap. React	D/L lb	Total Ld. Case	Ld. Comb.
				1 - SPF	3.500"	94% 1948	/ 5415	7363 L	D+L
				2 - SPF	3.500"	94% 1948	/ 5415	7363 L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	26022 ft-lb	7'6"	53922 ft-lb	0.483 (48%)	D+L	L
Unbraced	26022 ft-lb	7'6"	26044 ft-lb	0.999 (100%)	D+L	L
Shear	7123 lb	1'6 5/8"	17920 lb	0.397 (40%)	D+L	L
LL Defl inch	0.230 (L/759)	7'6 1/16"	0.364 (L/480)	0.630 (63%)	L	L
TL Defl inch	0.313 (L/559)	7'6 1/16"	0.485 (L/360)	0.640 (64%)	D+L	L

Design Notes

- 1 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at a maximum of 6'8 5/8" o.c.
- 5 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	118 PLF	354 PLF	0 PLF	0 PLF	0 PLF	F1	
2	Uniform			Near Face	123 PLF	368 PLF	0 PLF	0 PLF	0 PLF	F2	
	Self Weight				19 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

This design is valid until 4/24/2023

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 ICC-ES: ESR-3633

Manufacturer Info





isDesign

Client:

Regency Homes

Project:

Address: 430 Josey Williams Road

Erwin, NC 28339

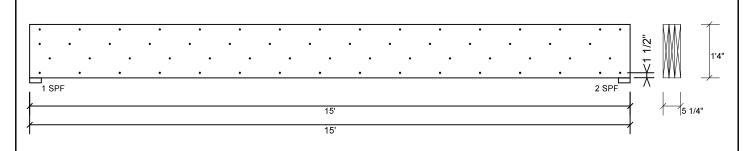
2/14/2022 Date:

Input by: David Landry Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

Page 5 of 11

Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED BM₂

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed

Capacity 100.0 % Load 327.3 PLF Yield Limit per Foot 327.4 PLF Yield Limit per Fastener 81.9 lb. Yield Mode IV Edge Distance 1 1/2" 3" Min. End Distance Load Combination D+L 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

This design is valid until 4/24/2023

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 ICC-ES: ESR-3633

Manufacturer Info







Client: Regency Homes Project:

Brinkley Address: 430 Josey Williams Road

Erwin, NC 28339

2/14/2022 Date: Input by: David Landry

Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

Kerto-S LVL BM3

Member Information

1.750" X 9.250"

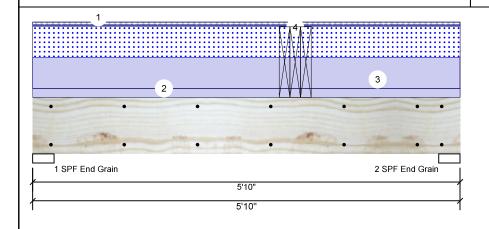
2-Ply - PASSED

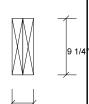
_evel: Level

Reactions UNPATTERNED lb (Uplift)

Dead

Live





Const

Page 6 of 11

Į	Melliber illion	ilation		
I	Type:	Girder	Application:	Floor
I	Plies:	2	Design Method:	ASD
I	Moisture Condition	: Dry	Building Code:	IBC/IRC 2015
I	Deflection LL:	480	Load Sharing:	No
I	Deflection TL:	360	Deck:	Not Checked
I	Importance:	Normal	Ceiling:	Gypsum 1/2"

2153 2357 1210 O 0 2840 1210 0 0 2 3496

Analysis Results Analysis Actual Location Allowed Capacity Comb. Case Moment 11308 ft-lb 3'7" 12542 ft-lb 0.902 (90%) D+L L 11308 ft-lb 3'7" 11327 ft-lb 0.998 Unbraced (100%)Shear 5739 lb 4'10" 6907 lb 0.831 (83%) D+L L LL Defl inch 0.084 (L/764) 3'4 7/8" 0.134 (L/480) 0.630 (63%) L L TL Defl inch 0.143 (L/451) 3'3 5/8" 0.179 (L/360) 0.800 (80%) D+L

Bearings

Brg

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 46% 2357 / 2522 4880 L D+0.75(L+S) Fnd Grain

Snow

Wind

2 - SPF 3.500" 60% 2840 / 3530 6370 L D+0.75(L+S)End Grain

Design Notes

Temperature:

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

Temp <= 100°F

6 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 5-10-0	1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
3	Uniform			Тор	415 PLF	0 PLF	415 PLF	0 PLF	0 PLF	A3
4	Point	3-7-0		Тор	1948 lb	5415 lb	0 lb	0 lb	0 lb	BM2 Brg 2

7 PLF Self Weight

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

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

For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

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

Manufacturer Info





isDesign

Client: Regency Homes

Project:

Address: 430 Josey Williams Road Erwin, NC 28339

Date: 2/14/2022 Input by: David Landry

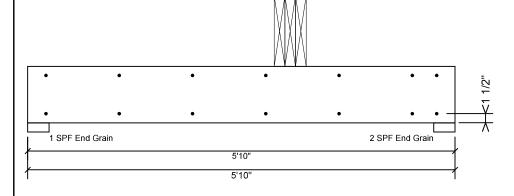
Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

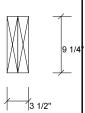
Kerto-S LVL BM3

1.750" X 9.250"

2-Ply - PASSED

Level: Level





Page 7 of 11

Multi-Ply Analysis

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

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
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 4/24/2023

Metsä Wood

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

Manufacturer Info







GDH

Client: Regency Homes

Project: Brinkley

Address: 430 Josey Williams Road Erwin, NC 28339

2/14/2022 Date: Input by: David Landry Job Name: Lot 5 Avery Pointe J0222-0765 Project #:

Level: Level

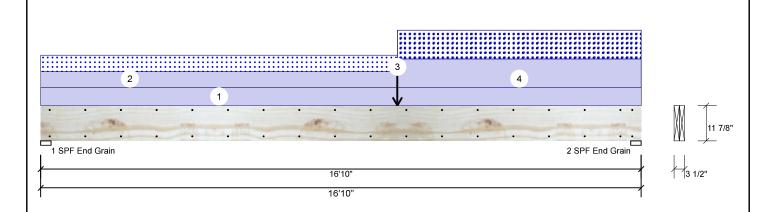
Peactions LINDATTERNED In (Linlift)

21%

1408 / 825

2233 L

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



Fnd Grain 2 - SPF 3.500"

End Grain

Intelliper Illion	nation			Reaction	IS UIVEAL	IEKINED	ib (Opilit)		
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	1	Wind
Plies:	2	Design Method:	ASD	1	0	1190	608		0
Moisture Condition	ı: Dry	Building Code:	IBC/IRC 2015	2	0	1408	825		0
Deflection LL:	480	Load Sharing:	No						
Deflection TL:	360	Deck:	Not Checked						
Importance:	Normal	Ceiling:	Gypsum 1/2"						
Temperature:	Temp <= 100°F								
	•			Bearing	s				
				Bearing	Length	Cap. R	teact D/L lb	Total	Ld. Case
				1 - SPF	3.500"	17%	1190 / 608	1798	L

l		_	
Δnal	vsis	Resi	ılts

Member Information

Γ	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
ı	Moment	8610 ft-lb	10'	22897 ft-lb	0.376 (38%)	D+S	L
	Unbraced	8610 ft-lb	10'	8629 ft-lb	0.998 (100%)	D+S	L
ı	Shear	1912 lb	15'7 3/8"	10197 lb	0.188 (19%)	D+S	L
ı	LL Defl inch	0.158 (L/1246)	8'8 13/16"	0.409 (L/480)	0.390 (39%)	S	L
l	TL Defl inch	0.436 (L/450)	8'7 3/4"	0.546 (L/360)	0.800 (80%)	D+S	L

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 11' 3/4" o.c.

6 Lateral slende	6 Lateral slenderness ratio based on single ply width.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Part. Uniform	0-0-0 to 10-0-0		Тор	55 PLF	0 PLF	55 PLF	0 PLF	0 PLF	M1
3	Point	10-0-0		Тор	220 lb	0 lb	220 lb	0 lb	0 lb	M2A
4	Part. Uniform	10-0-0 to 16-10-0		Тор	97 PLF	0 PLF	97 PLF	0 PLF	0 PLF	M2
	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 4/24/2023

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

Manufacturer Info

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



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Const 0 0

Ld. Comb. D+S

D+S



isDesign

Client: Regency Homes

Project: Brinkley

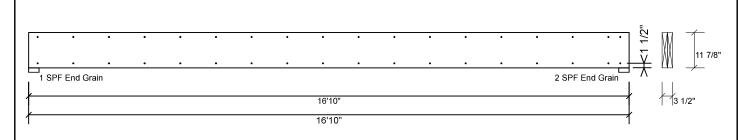
Address: 430 Josey Williams Road Erwin, NC 28339

2/14/2022 Date: Input by: David Landry

Job Name: Lot 5 Avery Pointe J0222-0765 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 4/24/2023



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

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



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Member Information

Client: Regency Homes Project:

Brinkley

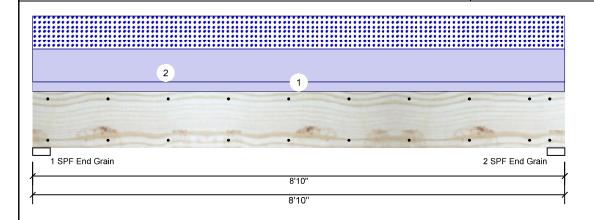
430 Josey Williams Road Erwin, NC 28339 Address:

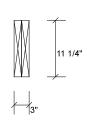
Date: 2/14/2022 Input by:

David Landry Job Name: Lot 5 Avery Pointe Project #: J0222-0765

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

Level: Level





Page 10 of 11

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

	Reacti	ons UNPATT	ERNED II	b (Uplift)		
I	Brg	Live	Dead	Snow	Wind	Const
l	1	0	1188	923	0	0
l	2	0	1188	923	0	0
l						

£	Analysis Res	sults					
	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	4191 ft-lb	4'5"	5306 ft-lb	0.790 (79%)	D+S	L
	Unbraced	4191 ft-lb	4'5"	4197 ft-lb	0.999 (100%)	D+S	L
	Shear	1554 lb	7'8"	3493 lb	0.445 (44%)	D+S	L
	LL Defl inch	0.046 (L/2165)	4'5 1/16"	0.209 (L/480)	0.220 (22%)	S	L
	TL Defl inch	0.106 (L/947)	4'5 1/16"	0.279 (L/360)	0.380 (38%)	D+S	L

E	Bearing:	s					
	Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
	1 - SPF End Grain	3.500"	47%	1188 / 923	2111	L	D+S
	2 - SPF End Grain	3.500"	47%	1188 / 923	2111	L	D+S

Design Notes

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

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Uniform			Ton	200 DI E	0 DI E	200 DI E	O DI E	0 DI E	D1

This design is valid until 4/24/2023

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



S-P-F #2

GDH2

Client: Regency Homes

Project: Brinkley

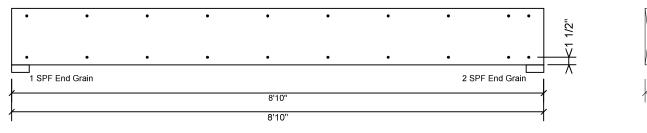
430 Josey Williams Road Erwin, NC 28339 Address:

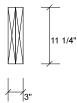
Date: 2/14/2022

Input by: David Landry Job Name: Lot 5 Avery Pointe

Project #: 2.000" X 12.000" 2-Ply - PASSED

J0222-0765 Level: Level





Page 11 of 11

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 Duration Factor 1.00

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

This design is valid until 4/24/2023



RE: J0222-0765 Lot 5 Avery Pointe Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Regency Homes Project Name: J0222-0765 Lot/Block: 5 Model: Brinkley

Address: 430 Josey Williams Road Subdivision: Avery Pointe

City: Erwin 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 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16477192	ET1	12/9/2021
2	E16477193	ET2	12/9/2021
3	E16477194	ET3	12/9/2021
4	E16477195	ET4	12/9/2021
5	E16477196	ET5	12/9/2021
6	E16477197	F1	12/9/2021
7	E16477198	F1A	12/9/2021
8	E16477199	F2	12/9/2021
9	E16477200	F2A	12/9/2021
10	E16477201	F3	12/9/2021
11	E16477202	F4	12/9/2021
12	E16477203	F5	12/9/2021
13	E16477204	F6	12/9/2021
14	E16477205	FG1	12/9/2021
15	E16477206	FG2	12/9/2021

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.



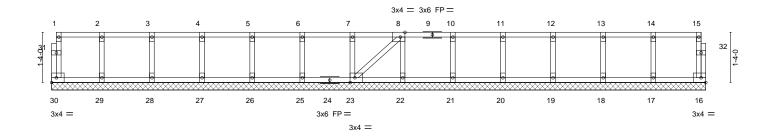
December 09, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
J0222-0765	ET1	GABLE	1	1	E16477192
30222-0703	L 1 1	GABLE	1		Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:42 2021 Page 1 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-ZRjZ6pQzCiaelCDjECeqYz9QWFyQVdMB9M5PdKyAmHN

0-11-8

Scale = 1:28.8



1-4-0	2-8-0 4-0-0 1-4-0 1-4-0	5-4-0 1-4-0	6-8-0 1-4-0	8-0-0 1-4-0		-8-0 4-0	12-0-0 1-4-0	_	13-4-0 1-4-0	-8-0 4-0 1-4-0	17-4-12 1-4-12
Plate Offsets (X,Y)	[8:0-1-8,Edge], [23:0-1-8	3,Edge]									
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.00 1.00 YES PI2014	CSI. TC BC WB Matri	0.06 0.01 0.03 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 79 lb	GRIP 244/190 FT = 20%F, 11%E

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

2x4 SP No.1(flat)

BRACING-TOP CHORD

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

except end verticals.

BOT CHORD

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

REACTIONS. All bearings 17-4-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17

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

NOTES-

LUMBER-

TOP CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



December 9,2021



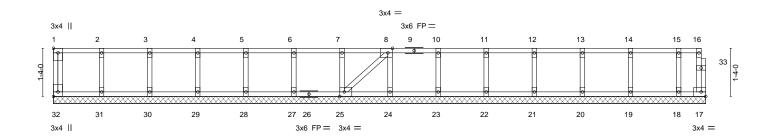


Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
10000 0705	ETO.	CARLE			E16477193
J0222-0765	E12	GABLE	1	1	Job Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:43 2021 Page 1 ID:I4HRAT3elT9qoRldAoEs_5z0Axy-1dHxK9Rbz0iVwMovow935AibGeHgE4cLO0ry9myAmHM

0-1-8

Scale = 1:30.1



1-4-0	2-8-0 4-0-0 1-4-0 1-4-0	5-4-0 1-4-0		-0-0 9-4- -4-0 1-4-			2-0-0 I-4-0	13-4-	_	14-8-0 1-4-0	16-0-0	17-4-0 18-1-0 1-4-0 0-9-0
Plate Offsets (X,Y)	[1:Edge,0-1-8], [8:0-1-8,	Edge], [25:0-	1-8,Edge], [32:I	Edge,0-1-8]								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.00 1.00 YES PI2014	CSI. TC BC WB Matrix	0.06 0.01 0.03 -S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a		PLATES MT20 Weight: 83 lb	GRIP 244/190 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, 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 18-1-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-

- 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 8) CAUTION, Do not erect truss backwards.



December 9,2021



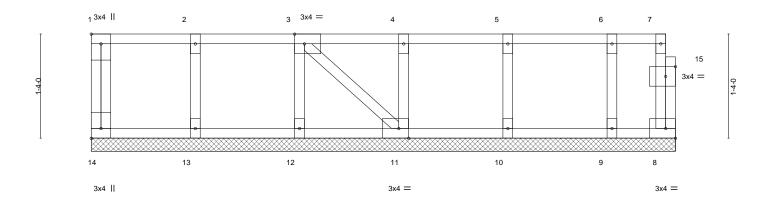


Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
J0222-0765	ETO	GABLE	1	,	E16477194
JU222-U765	E13	GABLE	'	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:44 2021 Page 1 $ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-VqqJXVRDjJqMYWN5LdgIeOFm?2dvzXsUdgaVhDyAmHL\\$

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

Scale = 1:13.9



<u> </u>	1-4-0 1-4-0	2-8-0 1-4-0			0-0 4-0		-4-0 -4-0	+			'-5-12 -9-12
Plate Offsets (X,Y)	[1:Edge,0-1-8], [3:0-1	-8,Edge], [11:0-1-8	3,Edge], [1	4:Edge,0-1-8], [15:0-1-8,0-1	·8]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2015	1.00 r YES	CS TC BC WB Ma	0.06 0.01	DEFL Vert(L Vert(C Horz(Ť) n/a	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 II	GRIP 244/190 FT = 20%F, 11%E

LUMBER-

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

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

except end verticals.

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

REACTIONS. All bearings 7-5-12.

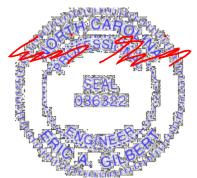
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

NOTES-

OTHERS

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 8) CAUTION, Do not erect truss backwards.



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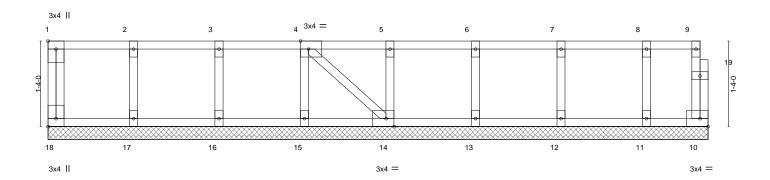


Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	٦
					E16477195	i
J0222-0765	ET4	GABLE	1	1		
					Job Reference (optional)	Į.

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:44 2021 Page 1 $ID:I4HRAT3elT9qoRldAoEs_{\tt 5}z0Axy-VqqJXVRDjJqMYWN5LdgleOFm?2dvzXsUdgaVhDyAmHL$

0₁1₇8

Scale = 1:16.9



1-4-0 1-4-0	2-8-0 1-4-0	4-0-0 1-4-0	5-4-0 1-4-0	6-8-0 1-4-0			3-0-0 -4-0	9-4-0 1-4-0	10-3-8
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edg	je], [14:0-1-8,Edge], [18	3:Edge,0-1-8]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Plate Grip DOL Lumber DOL	2-0-0 CSI 1.00 TC 1.00 BC YES WB 014 Mat	0.06 0.01 0.03 rix-S	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.00	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 50 lb	GRIP 244/190 FT = 20%F, 11%E

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

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

except end verticals.

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

REACTIONS. All bearings 10-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 8) CAUTION, Do not erect truss backwards.



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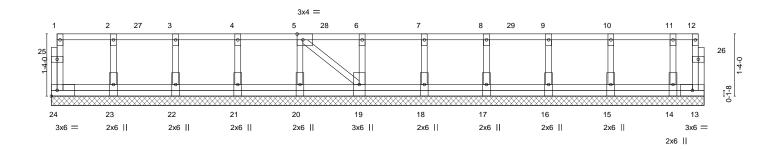


Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe
10222 0705	CTC	GABLE		,	E16477196
J0222-0765	E10	GABLE	'	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:45 2021 Page 1 $ID:I4HRAT3eIT9qoRId\~AoEs_5z0Axy-z0OhkrSrUdyD9gylvLBXAbnwsSzCi_rdrJK3EfyAmHK$

0118

0₁1₇8 Scale = 1:23.3



<u> </u>	1-4-0	2-8-0 4-0-0		5-4-0 1-4-0	6-8-0 1-4-0	8-0-0 1-4-0	9-4-0 1-4-0	10-8-0	12-0-0 13-4 1-4-0 1-4-	
Plate Offs	sets (X,Y)	[5:0-1-8,Edge]		1 4 0	140	1 + 0	140	140	140 14	
LOADING	G (psf)	SPACING-	2-0-0	CSI	_	DEFL.	in (loc	l/defl L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	n/a -	n/a 999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.00	Vert(CT)	n/a -	n/a 999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 13	3 n/a n/a		
BCDL	5.0	Code IRC2015/Ti	PI2014	Mat	rix-S				Weight: 84 lb	FT = 20%F, 11%E
LUMBER	!-	1		'		BRACING-			1	

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

BRACING-TOP CHORD

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

except end verticals.

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

REACTIONS. All bearings 14-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 13-24=-10, 1-12=-100

Concentrated Loads (lb) Vert: 4=-91 7=-91 10=-91 27=-91 28=-91 29=-91



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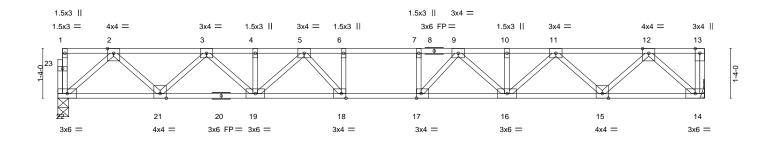
Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	٦
					E16477197	
J0222-0765	F1	Floor	6	1		
			l		Job Reference (optional)	J

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:46 2021 Page 1 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-RCy4yATTFx44nqXUT2imjoK?ts9hRKkn4z3cm5yAmHJ

0-1-8 H 1-3-0

1-0-0 1-10-12 1-0-0

Scale = 1:29.2



	. (2/20)					17-4-12					
Plate Off	sets (X,Y)	[17:0-1-8,Edge], [18:0-1-8	,Edge]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.19 17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.26 17-18	>777	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06 14	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	2014	Matri	k-S					Weight: 93 lb	FT = 20%F, 11%E

17-4-12

TOP CHORD 2x4 SP No.1(flat)

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

TOP CHORD

BOT CHORD

BRACING-

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

except end verticals.

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

REACTIONS. (size) 22=0-3-8, 14=Mechanical

Max Grav 22=937(LC 1), 14=943(LC 1)

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

TOP CHORD 2-3=-1705/0, 3-4=-2823/0, 4-5=-2823/0, 5-6=-3312/0, 6-7=-3312/0, 7-9=-3312/0,

 $9\hbox{-}10\hbox{=-}2823/0,\,10\hbox{-}11\hbox{=-}2823/0,\,11\hbox{-}12\hbox{=-}1705/0$

BOT CHORD 21-22=0/1015, 19-21=0/2365, 18-19=0/3144, 17-18=0/3312, 16-17=0/3144, 15-16=0/2365,

14-15=0/1016

2-22=-1349/0, 2-21=0/960, 3-21=-918/0, 3-19=0/622, 5-19=-436/0, 12-14=-1352/0,

12-15=0/959, 11-15=-918/0, 11-16=0/623, 9-16=-436/0, 9-17=-86/552, 7-17=-313/5,

5-18=-86/552, 6-18=-313/5

NOTES-

WEBS

LUMBER-

- 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	1
					E16477198	
J0222-0765	F1A	Floor	1	1		1
					Job Reference (optional)	1

8.430 s Aug 16 2021 MITek Industries, Inc. Thu Dec 9 07:37:47 2021 Page 1 ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-vOWS9WU60ECxPz6g1IE?F0t7fGU4AkFwJdpAlYyAmHI



Scale = 1:29.7

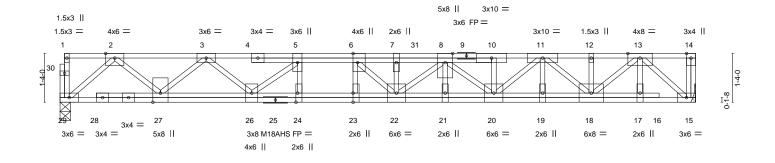


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [23:0-3-0,Edge], [24:0-3-0,Edge] **PLATES** SPACING-2-0-0 DEFL. **GRIP** LOADING (psf) CSI. in (loc) I/defl L/d Plate Grip DOL -0.20 22-23 >999 244/190 **TCLL** 40.0 1.00 TC 0.67 Vert(LL) 480 MT20 ВС TCDL Lumber DOL 1.00 0.74 Vert(CT) -0.28 22-23 >739 M18AHS 186/179 10.0 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.69 Horz(CT) 0.05 15 n/a n/a Code IRC2015/TPI2014 Weight: 128 lb FT = 20%F, 11%E BCDL

LUMBER- BRACING-

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

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

REACTIONS. (size) 29=0-3-8, 15=Mechanical

Max Grav 29=1112(LC 1), 15=1169(LC 1)

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

TOP CHORD 2-3=-2171/0, 3-5=-3758/0, 5-6=-4691/0, 6-7=-5203/0, 7-8=-5203/0, 8-10=-4093/0,

10-11=-4088/0, 11-12=-2410/0, 12-13=-2410/0

BOT CHORD 27-29=0/1244, 26-27=0/3037, 24-26=0/4691, 23-24=0/4691, 22-23=0/4691, 21-22=0/4965,

20-21=0/4965, 19-20=0/3348, 18-19=0/3348, 17-18=0/1304, 15-17=0/1304 2-29=-1654/0, 2-27=0/1258, 3-27=-1174/0, 3-26=0/970, 5-26=-1275/0, 5-24=0/452,

13-15=-1725/0, 13-18=0/1458, 11-18=-1237/0, 11-20=0/976, 8-20=-1130/0, 8-22=0/394,

7-22=-541/0, 6-22=0/978, 6-23=-458/0

NOTES-

WEBS

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 481 lb down at 9-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 15-29=-10, 1-14=-100 Concentrated Loads (lb) Vert: 31=-401(F)



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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 propriy damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

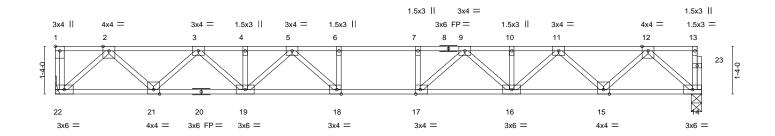


Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	٦
		-	_	١.	E16477199	
J0222-0765	F2	Floor	'	1	Job Reference (optional)	

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1-3-0 2-1-0

Scale = 1:30.3



<u> </u>			18-1-0 18-1-0				
Plate Offsets (X,Y)	[1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1	I-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.56	Vert(LL)	-0.22 17-18 >956	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT)	-0.31 17-18 >695	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.48	Horz(CT)	0.06 14 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 96 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

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

except end verticals.

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

REACTIONS. (size) 22=Mechanical, 14=0-3-8

Max Grav 22=981(LC 1), 14=975(LC 1)

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

2-3=-1787/0, 3-4=-2985/0, 4-5=-2985/0, 5-6=-3581/0, 6-7=-3581/0, 7-9=-3581/0, TOP CHORD

9-10=-2985/0, 10-11=-2985/0, 11-12=-1787/0

BOT CHORD 21-22=0/1058, 19-21=0/2486, 18-19=0/3347, 17-18=0/3581, 16-17=0/3347, 15-16=0/2486,

14-15=0/1058

2-22=-1409/0, 2-21=0/1013, 3-21=-972/0, 3-19=0/678, 5-19=-492/0, 5-18=-55/627,

 $6-18 = -316/0,\ 12-14 = -1406/0,\ 12-15 = 0/1014,\ 11-15 = -973/0,\ 11-16 = 0/678,\ 9-16 = -492/0,$

9-17=-55/627, 7-17=-316/0

NOTES-

WEBS

- 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	٦
			l.		E16477200)
J0222-0765	F2A	Floor	1	1		
					Job Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:48 2021 Page 1 $ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-Ob4qNsVknYKo07htaTIEoDPJefnIv704XHYjq_yAmHH$

1-3-0 1-11-8

Scale = 1:30.1

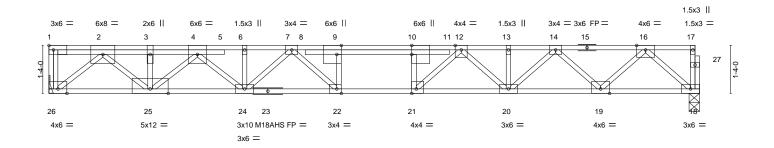


Plate Offsets (X,Y)-- [9:0-3-0,Edge], [10:0-3-0,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge] **PLATES** SPACING-2-0-0 CSI. DEFL. **GRIP** LOADING (psf) (loc) I/defl L/d in Plate Grip DOL 244/190 **TCLL** 40.0 1.00 TC 0.53 Vert(LL) -0.2522 >845 480 MT20 ВС TCDL Lumber DOL 1.00 0.94 Vert(CT) -0.35 22 >610 M18AHS 186/179 10.0 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.92 Horz(CT) 0.08 18 n/a n/a BCDL Code IRC2015/TPI2014 Weight: 109 lb FT = 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, 2x4 SP No.1(flat) **BOT CHORD** except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. (size) 26=Mechanical, 18=0-3-8

Max Grav 26=1498(LC 1), 18=1066(LC 1)

2x4 SP No.3(flat)

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

2-3=-3150/0, 3-4=-3150/0, 4-6=-3973/0, 6-7=-3970/0, 7-9=-4445/0, 9-10=-4442/0, TOP CHORD

10-12=-4454/0, 12-13=-3379/0, 13-14=-3379/0, 14-16=-1986/0

BOT CHORD 25-26=0/1698, 24-25=0/3684, 22-24=0/4215, 21-22=0/4442, 20-21=0/3824, 19-20=0/2777,

18-19=0/1162

WEBS 2-26=-2210/0, 2-25=0/1927, 3-25=-776/0, 4-25=-709/0, 4-24=0/380, 16-18=-1545/0,

 $16 - 19 = 0/1145,\ 14 - 19 = -1101/0,\ 14 - 20 = 0/818,\ 12 - 20 = -605/0,\ 12 - 21 = 0/1075,\ 10 - 21 = -658/0,$

7-24=-333/0, 7-22=-126/529, 9-22=-328/61

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION. Do not erect truss backwards.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 689 lb down at 2-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 18-26=-10, 1-17=-100 Concentrated Loads (lb) Vert: 3=-609(F)



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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.

Starty Information

Ansity Prevent



Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	П
			_		E16477201	1
J0222-0765	F3	Floor	2	1		
					Job Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:49 2021 Page 1 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-sneCaCVMYsSeeHG38AGTLRyXF3DqekmDmxIGNQyAmHG

0-4-0

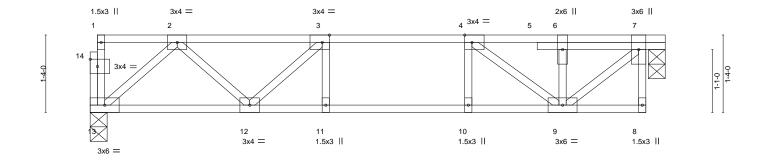
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:18.7



	-			9-7-0 9-7-0				9-11-0 0-4-0		
Plate Offsets (X,Y) [3:0-1-8,Edge], [4:0-1-8,0-1-8]										
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL 1.00	TC 0.35	Vert(LL) -0.		>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL 1.00	BC 0.47	Vert(CT) -0.		>999	360			
BCLL BCDL	0.0 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.31 Matrix-S	Horz(CT) 0.	02 7	n/a	n/a	Weight: 54 lb	FT = 20%F, 11%E	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3(flat)

(size) 13=0-3-8, 7=0-3-8

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

TOP CHORD 2-3=-781/0, 3-4=-965/0, 4-6=-499/0, 6-7=-499/0 BOT CHORD 12-13=0/541, 11-12=0/965, 10-11=0/965, 9-10=0/965 WEBS 7-9=0/649, 2-13=-718/0, 2-12=0/334, 3-12=-307/0, 4-9=-640/0

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.

Max Grav 13=511(LC 1), 7=517(LC 1)

- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 6) CAUTION, Do not erect truss backwards



December 9,2021



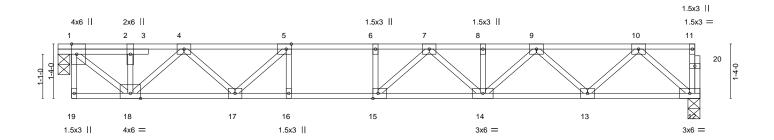


818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	٦
					E16477202	
J0222-0765	F4	Floor	2	1		
					Job Reference (optional)	

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Q-4-Q			15-8-8	
<u>0-4-0</u>			15-4-8	<u> </u>
Plate Offsets (X,Y)	[1:0-3-0,Edge], [5:0-1-8,Edge], [15:0-1-	8,Edge]		
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.66 BC 0.94	DEFL. in (loc) I/defl L/d Vert(LL) -0.21 14-15 >856 480 Vert(CT) -0.28 14-15 >640 360	PLATES GRIP MT20 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.56 Matrix-S	Horz(CT) 0.02 12 n/a n/a	Weight: 84 lb FT = 20%F, 11%E

LUMBER-**BRACING-**

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

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

2-2-0 oc bracing: 15-16.

REACTIONS. (size) 12=0-3-8, 1=0-3-8

Max Grav 12=829(LC 1), 1=835(LC 1)

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

1-2=-900/0, 2-4=-903/0, 4-5=-1988/0, 5-6=-2524/0, 6-7=-2524/0, 7-8=-2371/0, TOP CHORD

8-9=-2371/0, 9-10=-1469/0

BOT CHORD $17 - 18 = 0/1531,\ 16 - 17 = 0/2524,\ 15 - 16 = 0/2524,\ 14 - 15 = 0/2568,\ 13 - 14 = 0/2027,\ 12 - 13 = 0/891$ WEBS 1-18=0/1172, 4-18=-857/0, 4-17=0/636, 5-17=-794/0, 10-12=-1184/0, 10-13=0/804,

9-13=-776/0, 9-14=0/468, 7-14=-279/0, 7-15=-258/302

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.



December 9,2021





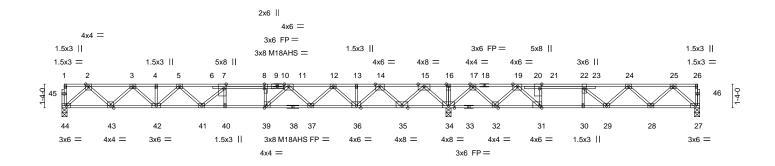
Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	1
			_		E16477203	
J0222-0765	F5	Floor	3	1		1
					Job Reference (optional)	ı

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:51 2021 Page 1 ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-oAmz?uXc4TiMtbPRGblxQs1lutqE6XTWEFnNRJyAmHE

0-1-8

2-1-12

2-3-4 0-1-8 Scale = 1:61.1



'	21-9-4						'	14-1-12					
Plate Off	Plate Offsets (X,Y) [7:0-3-0,Edge], [8:0-3-0,0-0-0], [21:0-3-0,Edge], [31:0-1-8,Edge], [39:0-1-8,Edge]												
-													
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.32 39-40	>803	480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.44 39-40	>596	360	M18AHS	186/179		
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.07 34	n/a	n/a				
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S	, ,				Weight: 195 lb	FT = 20%F, 11%E		
										_			

BRACING-

TOP CHORD 2x4 SP No.1(flat)

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

LUMBER-

TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.

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

REACTIONS. (size) 44=0-3-8, 34=0-3-8, 27=0-3-8

Max Uplift 27=-31(LC 3)

Max Grav 44=1028(LC 3), 34=2416(LC 1), 27=654(LC 4)

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

TOP CHORD 2-3=-1903/0, 3-4=-3213/0, 4-5=-3213/0, 5-7=-3892/0, 7-8=-4134/0, 8-11=-4134/0,

11-12=-3071/0, 12-13=-1761/0, 13-14=-1761/0, 14-15=0/653, 15-16=0/3181,

16-17=0/3181, 17-19=-271/1913, 19-21=-1588/905, 21-22=-1572/905, 22-24=-1570/502,

24-25=-1099/141

BOT CHORD 43-44=0/1119, 42-43=0/2658, 41-42=0/3642, 40-41=0/4134, 39-40=0/4134, 37-39=0/3568,

36-37=0/2554, 35-36=-198/873, 34-35=-1705/0, 32-34=-2289/0, 31-32=-1519/881,

30-31=-905/1572, 29-30=-905/1572, 28-29=-233/1489, 27-28=-69/685

2-44=-1487/0, 2-43=0/1091, 3-43=-1050/0, 3-42=0/755, 15-34=-1965/0, 15-35=0/1563,

14-35=-1537/0, 14-36=0/1242, 12-36=-1112/0, 12-37=0/751, 11-37=-728/0, 5-42=-583/0, 5-41=0/446, 7-41=-489/83, 11-39=0/1122, 8-39=-665/0, 17-34=-1477/0, 17-32=0/1061, 19-32=-1107/0, 19-31=0/1493, 25-27=-909/93, 25-28=-99/575, 24-28=-543/128,

24-29=-368/110, 22-29=-6/544, 21-31=-845/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 27.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 8) CAUTION, Do not erect truss backwards.



December 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 propriy damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



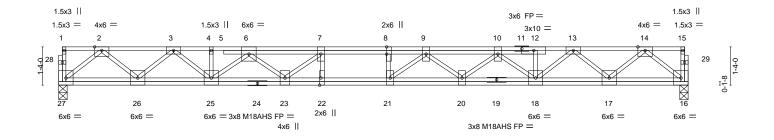
Job	Truss	Truss Type	Qty	Ply	Lot 5 Avery Pointe	٦
					E16477204	.
J0222-0765	F6	Floor	5	1		
					Job Reference (optional)	

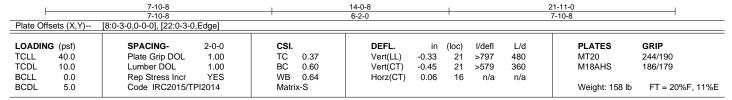
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:52 2021 Page 1

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

2-2-0

0-1-8 Scale = 1:37.8





BRACING-

LUMBER-

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

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

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

except end verticals.

WEBS 2x4 SP No.3(flat)

(size) 27=0-3-8, 16=0-3-8

Max Grav 27=1185(LC 1), 16=1185(LC 1)

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

2-3=-2352/0, 3-4=-4056/0, 4-6=-4064/0, 6-7=-5383/0, 7-8=-5847/0, 8-9=-5847/0, TOP CHORD

9-10=-5402/0, 10-12=-4085/0, 12-13=-4085/0, 13-14=-2350/0

BOT CHORD 26-27=0/1358, 25-26=0/3320, 23-25=0/4944, 22-23=0/5847, 21-22=0/5847, 20-21=0/5744, 18-20=0/5011, 17-18=0/3314, 16-17=0/1360

762-07-301, 771-0-301-7, 1071-07-302 2-27=-1765/0, 2-26=0/1348, 3-26=-1313/0, 3-25=0/978, 14-16=-1768/0, 14-17=0/1344, 13-17=-1307/0, 13-18=0/1024, 10-18=-1200/0, 10-20=0/518, 9-20=-508/0, 6-25=-1151/0,

6-23=0/707, 7-23=-889/0, 9-21=-301/635, 8-21=-272/53

NOTES-

WEBS

REACTIONS.

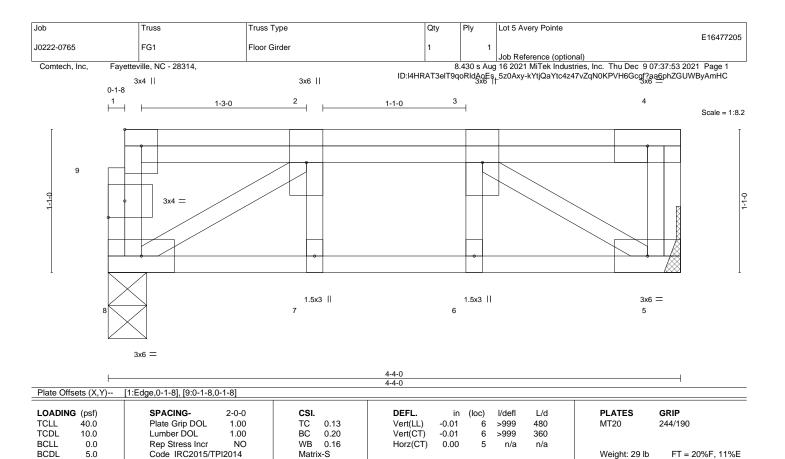
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



December 9,2021







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

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

REACTIONS. (size) 8=0-3-8, 5=Mechanical Max Grav 8=810(LC 1), 5=501(LC 1)

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

TOP CHORD 1-8=-473/0, 2-3=-581/0 **BOT CHORD** 7-8=0/581, 6-7=0/581, 5-6=0/581 **WEBS** 3-5=-684/0, 2-8=-648/0

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 1=-452 3=-417



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

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

except end verticals.

December 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 Lot 5 Avery Pointe E16477206 J0222-0765 FG2 Floor Girder Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 9 07:37:53 2021 Page 1 $ID:I4HRAT3eITPqoRIdAoEs_5z0Axy-kYtjQaYtc4z47vZqNQKP\underline{V}H6D0ge_aaiphZGUWByAmHC$ 3x6 II 3x4 II 0-1-8 10 1-2-0 0-6-0 1-3-0 Scale = 1:8.1 1-1-0 3x4 = 1.5x3 || 3x6 = 5 Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-1-8,0-1-8] **PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL. 2-0-0 (loc) I/defl L/d in

40.0 >999 244/190 **TCLL** Plate Grip DOL 1.00 TC 0.36 Vert(LL) -0.01 6 480 MT20 ВС TCDL 10.0 Lumber DOL 1.00 0.26 Vert(CT) -0.01 >999 5-6 360 WB **BCLL** 0.0 Rep Stress Incr NO 0.19 Horz(CT) 0.00 5 n/a n/a BCDL Code IRC2015/TPI2014 Matrix-S Weight: 26 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

2x4 SP No.1(flat) 2x4 SP No.3(flat)

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

Max Grav 8=1167(LC 1), 5=709(LC 1)

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

TOP CHORD 1-8=-764/0, 4-5=-268/0, 2-3=-672/0 BOT CHORD 7-8=0/672, 6-7=0/672, 5-6=0/672 WEBS 3-5=-792/0, 2-8=-747/0

NOTES-

- 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

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: 1=-771 10=-735



Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

except end verticals.

December 9,2021

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

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

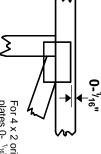


Symbols

PLATE LOCATION AND ORIENTATION



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



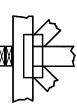
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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

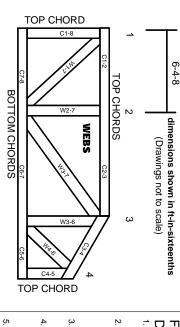
Industry Standards:

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.