

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0722-3736 Lot 33 Liberty Meadows

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

Pages or sheets covered by this seal: I56654210 thru I56654233

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 15,2023

Gilbert, Eric

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



10) Attic room checked for L/360 deflection.



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 system. See MSI/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 Edenton, NC 27932



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Job	Truss	Truss Type	Qtv	Plv	Lot 33 Liberty Meadows	
				,	15	6654211
J0722-3736	A1-GR	ATTIC	1	2	Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,		8	.430 s Jan	6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:09 2023 Pa	age 2
NOTES-		ID:0Hpugr	15_QST	WXSUZUZG	9251Ca-Gendz5VXF11bED51mARH5L?2Oq2XRaDicikSEizky	YAW
12) Graphical purlin repres	entation does not depict the	size or the orientation of the purlin along the top	and/or b	ottom cho	rd.	
13) Allic room checked for	L/360 denection.					
LOAD CASE(S) Standard	 	Dista Increase 1.15				
Uniform Loads (plf)	iced). Lumber increase=1.15	, Flate increase=1.15				
Vert: 1-2=-120,	2-5=-120, 5-6=-160, 6-7=-12	0, 7-9=-120, 9-10=-120, 10-11=-160, 11-14=-1	20, 14-15=	=-120, 22-	24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40	
2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor:	Lumber Increase=1.15, Plate Increase=1.15				
Uniform Loads (plf)	2 - 100 140 - 7 - 10	0 7 0 100 0 10 100 10 11 140 11 14	0 14 15	100.22	24 200/E 160) 18 22 200 16 18 40 6 10 40	
Drag: 5-22=-20	, 11-18=-20	0, 7-9=-100, 9-10=-100, 10-11=-140, 11-14=-1	50, 14-15-	100, 22-	24-200(1-100), 10-22-200, 10-10-40, 0-10-40	
3) Dead + Uninhabitable A	ttic Without Storage: Lumber	Increase=1.25, Plate Increase=1.25				
Vert: 1-2=-40, 2	2-5=-40, 5-6=-80, 6-7=-40, 7-9	9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=	-40, 22-2	4=-120(F=	-40), 16-22=-80, 6-10=-40	
Drag: 5-22=-20	, 11-18=-20 od (Pos. Internal) Left: Lumbo	princrease-1.60. Plate Increase-1.60				
Uniform Loads (plf)	ia (1 03. internal) Eent. Euribe					
Vert: 1-2=5, 2-5	=-26, 5-6=-50, 6-7=-26, 7-9= 2-7-2 9-14-46 14-15-32	41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8, 22	-24=-64(F	=-40), 18-	22=-48, 16-18=-24, 6-10=-24	
Drag: 7-8=-0, 8	-9=0, 5-22=-20, 11-18=-20					
5) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) Right: Luml	per Increase=1.60, Plate Increase=1.60				
Vert: 1-2=8, 2-5	=22, 5-6=-2, 6-7=22, 7-9=41	, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5, 22	-24=-64(F	=-40), 18-	22=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-32, 2	2-7=-46, 9-14=-2, 14-15=29					
6) Dead + 0.6 MWFRS Wir	nd (Neg. Internal) Left: Lumb	er Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	2-569 5-6109 6-769 7	-92 9-1021 10-1161 11-1421 14-15-	-8 22-24	80/F4	0) 18-2280 16-1840 6-1040	
Horz: 1-2=16, 2	-7=29, 9-14=19, 14-15=32	5-2, 5 10-21, 10 11-01, 11 14-21, 14 15-	. 0, 22 24	- 00(1 - 4	5), 10 22 - 00, 10 10 - 40, 0 10 - 40	
Drag: 7-8=-0, 8-	-9=0, 5-22=-20, 11-18=-20	her Increase-1.60. Plate Increase-1.60				
Uniform Loads (plf)	ia (Neg. Internal) Night. Lan					
Vert: 1-2=-8, 2- Horz: 1-2=-32	5=-21, 5-6=-61, 6-7=-21, 7-9: 2-7=-19 9-14=-29 14-15=-16	=-2, 9-10=-69, 10-11=-109, 11-14=-69, 14-15=-	56, 22-24	=-80(F=-4	0), 18-22=-80, 16-18=-40, 6-10=-40	
Drag: 7-8=-0, 8	-9=0, 5-22=-20, 11-18=-20					
8) Dead + 0.6 MWFRS Wir Uniform Loads (plf)	nd (Pos. Internal) 1st Parallel	: Lumber Increase=1.60, Plate Increase=1.60				
Vert: 1-2=28, 2-	5=41, 5-6=17, 6-7=41, 7-9=1	7, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-	24=-64(F=	=-40), 18-2	2=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-52, 2 Drag: 7-8=-0, 8	2-7=-65, 9-14=41, 14-15=28 -9=0, 5-22=-20, 11-18=-20					
9) Dead + 0.6 MWFRS Wir	nd (Pos. Internal) 2nd Paralle	I: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (pif) Vert: 1-2=4, 2-5	=17, 5-6=-7, 6-7=17, 7-9=17	, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-	24=-64(F=	=-40), 18-2	2=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-28, 2	2-7=-41, 9-14=65, 14-15=52		,	,,		
10) Dead + 0.6 MWFRS W	-9=0, 5-22=-20, 11-18=-20 /ind (Pos. Internal) 3rd Parall	el: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)			04 04/5	- 40) 40	00 40	
vert: 1-2=28, 2 16-18=-24, 6-2	2-5=41, 5-6=17, 6-7=41, 7-9= 10=-24	-17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22	-24=-64(F	-=-40), 18	-22=-48,	
Horz: 1-2=-52	, 2-7=-65, 9-14=41, 14-15=28	3				
11) Dead + 0.6 MWFRS W	/ind (Pos. Internal) 4th Paralle	el: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	5-17 5 6- 7 6 7-17 7 0-1	7 0 10-41 10 11-17 11 14-41 14 15-29 23	24- 64/5	=_ 10) 19	22- 49	
16-18=-24, 6-1	10=-24	7, 9-10=41, 10-11=17, 11-14=41, 14-13=20, 22	-24=-04(1	=-40), 10	22=-40,	
Horz: 1-2=-28	, 2-7=-41, 9-14=65, 14-15=52 8-9-0, 5-2220, 11-1820	2				
12) Dead + 0.6 MWFRS W	ind (Neg. Internal) 1st Parall	el: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	2-52 5-612 6-72 7-0-	-26 9-1026 10-1166 11-1426 14-153	2 22-24-	80/F40	18-2280	
16-18=-40, 6-1	10=-40	-20, 3-1020, 10-1100, 11-1420, 14-13	2, 22-24-), 10-2200,	
Horz: 1-2=-52	, 2-7=-38, 9-14=14, 14-15=28 8-9-0 5-2220 11-1820	3				
13) Dead + 0.6 MWFRS W	ind (Neg. Internal) 2nd Paral	lel: Lumber Increase=1.60, Plate Increase=1.60)			
Uniform Loads (plf)	2-526 5-666 6-726 7	-926 9-102 10-1142 11-142 14-15-1	2 22-24-	80(F4(1) 18-2280	
16-18=-40, 6-1	10=-40	5-20, 5 10-2, 10 11-42, 11 14-2, 14 15-	2, 22 27-	- 00(1 - 40	<i>y</i> , 10 <i>22</i> – 00,	
Horz: 1-2=-28 Drag: 7-8=-0	, 2-7=-14, 9-14=38, 14-15=52 8-9=0_5-22=-20_11-18=-20	2				
14) Dead + Attic Floor: Lur	nber Increase=1.00, Plate Inc	crease=1.00				
Uniform Loads (plf)	2-5=-40 5-6=-80 6-740 7	-9=-40 9-10=-40 10-11=-80 11-1440 14-14	i=-40 22-	24=-240/5	·=-200)	
18-22=-240, 1	6-18=-40, 6-10=-40	, o	10, 22-	2 1 0(I		
Drag: 5-22=-2	0, 11-18=-20 e=1 00 Plate Increase-1 00					
Boud. Lumber moreda						

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Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
10722 2726	A1 CP		1		156	654211
50722-5750	Al-GR	ATTIC	'	2	Job Reference (optional)	
Comtech, Inc, Fayettev	rille, NC - 28314,	ID:0HpugI	8 V1S_QSTV	.430 s Jan VxS0z0zG:	_6 2022 MiTek Industries, IncWed Feb 15 08:19:09 2023_Pag z9z5iCa-GeNDz5VxFT1bED51mARH5L?2Oq2XKaDlcikSEizky	ge 3 /AW
LOAD CASE(S) Standard						
Uniform Loads (plf)						
Vert: 1-2=-40, Drag: 5-22=-20	2-5=-40, 5-6=-80, 6-7=-40, 7). 11-18=-20	⁻ -9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-1	5=-40, 22-	24=-240(F	F=-200), 18-22=-240, 16-18=-40, 6-10=-40	
16) Dead + 0.75 Roof Live	(bal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) Left): Lumber Ir	crease=1	.60, Plate	Increase=1.60	
Uniform Loads (plf) Vert: 1-2=-112	, 2-5=-122, 5-6=-162, 6-7=-1	22, 7-9=-71, 9-10=-86, 10-11=-126, 11-14=-86	, 14-15=-7	76, 22-24=	-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Horz: 1-2=12,	2-7=22, 9-14=14, 14-15=24					
17) Dead + 0.75 Roof Live	(bal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) Right): Lumber	Increase=	1.60, Plate	e Increase=1.60	
Uniform Loads (plf) Vert: 1-2=-76.	2-5=-86, 5-6=-126, 6-7=-86,	7-9=-71, 9-10=-122, 10-11=-162, 11-14=-122,	14-15=-11	2. 22-24=	-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Horz: 1-2=-24,	2-7=-14, 9-14=-22, 14-15=-	12		_,		
Drag: 7-8=-0, 8 18) Dead + 0.75 Roof Live	8-9=0, 5-22=-20, 11-18=-20 (bal.) + 0.75 Attic Floor + 0.7	/5(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lu	mber Incr	ease=1.60), Plate Increase=1.60	
Uniform Loads (plf)) - 71 - C - 111 - C - 71	7 0 80 0 10 90 10 11 120 11 14 90 14	15 70 1	2 24 - 20		
Horz: 1-2=-39,	2-7=-29, 9-14=11, 14-15=21	7-9=-09, 9-10=-09, 10-11=-129, 11-14=-09, 14 I	-15=-79, 2	22-24=-200	J(F=-160), 16-22=-200, 16-18=-40, 6-10=-40	
Drag: 7-8=-0, 8	8-9=0, 5-22=-20, 11-18=-20 (bal.) + 0 75 Attic Floor + 0 7	5(0.6 MWERS Wind (Neg. Int) 2nd Parallel): L	imber Inc	rease=1.6	0. Plate Increase=1.60	
Uniform Loads (plf)						
Vert: 1-2=-79, Horz: 1-2=-21.	2-5=-89, 5-6=-129, 6-7=-89, 2-7=-11, 9-14=29, 14-15=39	7-9=-89, 9-10=-71, 10-11=-111, 11-14=-71, 14)	-15=-61, 2	22-24=-20	0(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Drag: 7-8=-0, 8	8-9=0, 5-22=-20, 11-18=-20	a 1.15 Diata Ingrada 1.15				
Uniform Loads (plf)	unbalanceu). Lumber increas	se=1.13, Flate Increase=1.15				
Vert: 1-2=-120 Drag: 5-2220	, 2-5=-120, 5-6=-160, 6-7=-1	20, 7-9=-120, 9-10=-40, 10-11=-80, 11-14=-40	, 14-15=-4	10, 22-24=	-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40	
21) 2nd Dead + Roof Live ((unbalanced): Lumber Increa	se=1.15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-2=-40.	2-5=-40. 5-6=-80. 6-7=-40. 7	-9=-120. 9-10=-120. 10-11=-160. 11-14=-120.	14-15=-12	20. 22-24=	-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40	
Drag: 5-22=-20), 11-18=-20		4 45	,		
Uniform Loads (plf)	live (unbalanced) + 0.75 Allin	C FIGUT. LUMIDEL INCLEASE=1.15, Flate Inclease	=1.15			
Vert: 1-2=-100	, 2-5=-100, 5-6=-140, 6-7=-1	00, 7-9=-100, 9-10=-40, 10-11=-80, 11-14=-40	, 14-15=-4	10, 22-24=	-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
23) 4th Dead + 0.75 Roof L	ive (unbalanced) + 0.75 Attic	c Floor: Lumber Increase=1.15, Plate Increase	=1.15			
Uniform Loads (plf) Vert: 1-2=-40,	2-5=-40, 5-6=-80, 6-7=-40, 7	-9=-100, 9-10=-100, 10-11=-140, 11-14=-100,	14-15=-10	0, 22-24=	-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Drag: 5-22=-20), 11-18=-20	Left: Lumber Increase 1.60. Dista Increase 1.	60			
Uniform Loads (plf)	inverso wind (Fos. Internal)	Leit. Lumber increase=1.00, Plate increase=1.	00			
Vert: 1-2=5, 2- Horz: 1-2=-29	5=-26, 5-6=-50, 6-7=-26, 7-9 2-7=2 9-14=46 14-15=32	=41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8, 2	2-24=-64	(F=-40), 18	3-22=-48, 16-18=-24, 6-10=-24	
Drag: 7-8=-0, 8	8-9=0, 5-22=-20, 11-18=-20					
25) Reversal: Dead + 0.6 N Uniform Loads (plf)	IWFRS Wind (Pos. Internal)	Right: Lumber Increase=1.60, Plate Increase=	1.60			
Vert: 1-2=8, 2-	5=22, 5-6=-2, 6-7=22, 7-9=4	1, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5, 2	2-24=-64	(F=-40), 18	3-22=-48,	
Horz: 1-2=-32,	2-7=-46, 9-14=-2, 14-15=29					
Drag: 7-8=-0, 8 26) Reversal: Dead + 0.6 M	8-9=0, 5-22=-20, 11-18=-20 /WFRS Wind (Neg. Internal)	Left: Lumber Increase=1.60, Plate Increase=1	.60			
Uniform Loads (plf)	2 5- 60 5 6- 100 6 7- 60	7 0 - 2 0 10 - 21 10 11 - 61 11 14 - 21 14 14	- 0 22 2	1- 90/E-	40)	
18-22=-80, 16	-18=-40, 6-10=-40	7-9=-2, 9-10=-21, 10-11=-01, 11-14=-21, 14-1	5=-0, 22-2	4=-00(1-=-	40),	
Horz: 1-2=16, Drag: 7-8=-0.4	2-7=29, 9-14=19, 14-15=32 8-9=0 5-22=-20 11-18=-20					
27) Reversal: Dead + 0.6 N	IWFRS Wind (Neg. Internal)	Right: Lumber Increase=1.60, Plate Increase=	1.60			
Uniform Loads (plf) Vert: 1-2=-8, 2	-5=-21, 5-6=-61, 6-7=-21, 7-	9=-2, 9-10=-69, 10-11=-109, 11-14=-69, 14-15	=-56, 22-2	4=-80(F=-	40),	
18-22=-80, 16	-18=-40, 6-10=-40	16				
Drag: 7-8=-0, 8	8-9=0, 5-22=-20, 11-18=-20					
28) Reversal: Dead + 0.6 M Uniform Loads (olf)	IWFRS Wind (Pos. Internal)	1st Parallel: Lumber Increase=1.60, Plate Incre	ease=1.60			
Vert: 1-2=28, 2	2-5=41, 5-6=17, 6-7=41, 7-9=	-17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22	2-24=-64(F	=-40), 18	-22=-48,	
16-18=-24, 6-1 Horz: 1-2=-52,	2-7=-65, 9-14=41, 14-15=28	3				
Drag: 7-8=-0, 8	8-9=0, 5-22=-20, 11-18=-20	2nd Parallel: Lumber Increase-1.60. Dioto Inc.		n		
20/ 100013al. Deau + 0.0 M		Line i aranoi. Lumber morease=1.00, Fiale mor	JUJC-1.0			

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Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
10700 0700						156654211
JU722-3736	A1-GR	ATTIC	1	2	Job Reference (optional)	
Comtech, Inc, Faye	tteville, NC - 28314,			8.430 s Jar	6 2022 MiTek Industries, Inc. Wed Fe	eb 15 08:19:09 2023 Page 4
			ID:0HpugN1S_QS	FWxS0z0zG	329z5iCa-GeNDz5VxFT1bED51mARH5	5L?2Oq2XKaDlcikSEizkyAW
IOAD CASE(S) Stand	lard					
Uniform Loads (plf)	aru					
Vert: 1-2=4	4. 2-5=17. 5-6=-7. 6-7=1	7. 7-9=17. 9-10=41. 10-11=17. 11-14=	=41. 14-15=28. 22-24=-64	(F=-40). 18	3-22=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=	-28, 2-7=-41, 9-14=65, 1	14-15=52	, ,	. ,,		
Drag: 7-8=	-0, 8-9=0, 5-22=-20, 11-	-18=-20				
30) Reversal: Dead + 0	.6 MWFRS Wind (Pos. I	Internal) 3rd Parallel: Lumber Increase	=1.60, Plate Increase=1.0	60		
Uniform Loads (plf)						
Vert: 1-2=2	28, 2-5=41, 5-6=17, 6-7=	=41, 7-9=17, 9-10=17, 10-11=-7, 11-14	4=17, 14-15=4, 22-24=-64	(F=-40), 18	3-22=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=	-52, 2-7=-65, 9-14=41, 1	14-15=28				
Drag: 7-8=	-0, 8-9=0, 5-22=-20, 11-	·18=-20		20		
31) Reversal: Dead + 0	.6 MWFRS WIND (POS. I	Internal) 4th Parallel: Lumber Increase	=1.60, Plate Increase=1.0	50		
Vert: 1-2-4	1 2-5-17 5-6-7 6-7-1	7 7-9-17 9-10-41 10-11-17 11-14-	-41 14-15-28 22-2464	(F40) 18	3-2248 16-1824 6-1024	
Horz: 1-2=	-28 2-7=-41 9-14=65 1	14-15=52	-+1, 14 13-20, 22 24- 04	(1 = 40), 10	5 22= 40, 10 10= 24, 0 10= 24	
Drag: 7-8=	-0. 8-9=0. 5-22=-20. 11-	-18=-20				
32) Reversal: Dead + 0	.6 MWFRS Wind (Neg.	Internal) 1st Parallel: Lumber Increase	=1.60, Plate Increase=1.0	60		
Uniform Loads (plf)						
Vert: 1-2=1	2, 2-5=-2, 5-6=-42, 6-7=	=-2, 7-9=-26, 9-10=-26, 10-11=-66, 11·	-14=-26, 14-15=-12, 22-2	4=-80(F=-4	0), 18-22=-80, 16-18=-40, 6-10=-40	
Horz: 1-2=	-52, 2-7=-38, 9-14=14, 1	14-15=28				
Drag: 7-8=	-0, 8-9=0, 5-22=-20, 11-	18=-20				
33) Reversal: Dead + 0	.6 MWFRS Wind (Neg.	Internal) 2nd Parallel: Lumber Increase	e=1.60, Plate Increase=1	.60		
Uniform Loads (plf)	40 0 5 00 5 0 00 0	7 00 7 0 00 0 40 0 40 44 40 4		A 00/F 4	0) 40 00 00 40 40 40 0 40 40	
Vert: 1-2=-	12, 2-5=-26, 5-6=-66, 6-	·7=-26, 7-9=-26, 9-10=-2, 10-11=-42, 1	11-14=-2, 14-15=12, 22-2	4=-80(F=-4	0), 18-22=-80, 16-18=-40, 6-10=-40	
HUIZ: 1-Z= Drag: 7-8=	·28, 2-7=-14, 9-14=38, 1 -0 8-0=0 5-22=-20 11.	14-15=52 -1820				
.34) Reversal: Dead + 0	75 Roof Live (bal.) + 0	75 Attic Floor + 0 75(0 6 MWERS Win	d (Nea Int) Left): Lumber	Increase=	1.60 Plate Increase=1.60	
Uniform Loads (plf)			a (Nog. III) Long. Lambor	11010000-	1.00, 1 1010 11010000 - 1.00	
Vert: 1-2=-	112. 2-5=-122. 5-6=-162	2. 6-7=-122. 7-9=-71. 9-10=-86. 10-11:	=-126. 11-14=-86. 14-15=	-76. 22-24	=-200(F=-160), 18-22=-200, 16-18=-	40. 6-10=-40
Horz: 1-2=	12, 2-7=22, 9-14=14, 14	-15=24	, ,	,		
Drag: 7-8=	-0, 8-9=0, 5-22=-20, 11-	-18=-20				
35) Reversal: Dead + 0	.75 Roof Live (bal.) + 0.	75 Attic Floor + 0.75(0.6 MWFRS Wind	d (Neg. Int) Right): Lumbe	er Increase	=1.60, Plate Increase=1.60	
Uniform Loads (plf)						
Vert: 1-2=-	76, 2-5=-86, 5-6=-126, 6	5-7=-86, 7-9=-71, 9-10=-122, 10-11=-1	162, 11-14=-122, 14-15=-	112, 22-24:	=-200(F=-160), 18-22=-200, 16-18=-	40, 6-10=-40
Horz: 1-2=	-24, 2-7=-14, 9-14=-22,	14-15=-12				
Drag: 7-8=	-0, 8-9=0, 5-22=-20, 11-	18=-20 ZE Attic Floor + 0 ZE/0 6 MW/ERS Win	d (Neg. Int) 1et Derellel); I	umbor Inc	races 1.60 Plate Increase 1.60	
Juliform Loads (nlf)	.75 ROULLIVE (Dal.) + 0.	75 ALLC FIOOT + 0.75(0.6 MWVFRS WITH	u (Neg. III.) ISt Parallel).		rease=1.00, Flate Increase=1.00	
Vert: 1-2=-	61 2-5=-71 5-6=-111 (6-7=-71 7-9=-89 9-10=-89 10-11=-12	29 11-1489 14-1579	22-2420	0(F=-160) 18-22=-200 16-18=-40	6-10=-40
Horz: 1-2=	-39, 2-7=-29, 9-14=11, 1	14-15=21	-0, 11 11-00, 11 10-70		(i = 100), 10 22= 200, 10 10= 10,	0 10- 10
Drag: 7-8=	-0. 8-9=0. 5-22=-20. 11-	-18=-20				
37) Reversal: Dead + 0	.75 Roof Live (bal.) + 0.	75 Attic Floor + 0.75(0.6 MWFRS Win	d (Neg. Int) 2nd Parallel):	Lumber In	crease=1.60, Plate Increase=1.60	
Uniform Loads (plf)	. ,	-				
Vert: 1-2=-	79, 2-5=-89, 5-6=-129, 6	8-7=-89, 7-9=-89, 9-10=-71, 10-11=-11	11, 11-14=-71, 14-15=-61	22-24=-20	00(F=-160), 18-22=-200, 16-18=-40,	6-10=-40
Horz: 1-2=	-21. 2-7=-11. 9-14=29. 1	14-15=39				

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20





	4-5-8 9-1-4	22-7-4	23-5 _⊺ 8	34-7-12	1	40-5-8	44-11-0	
	4-5-8 4-7-12	13-6-0	0-10-4	11-2-4	1	5-9-12	4-5-8	
Plate Offsets (X,Y)	[5:0-4-0,0-6-0], [9:0-4-4,0-4-12], [17:0-4	-4,0-4-12], [21:0-4-0,0-6-0	0], [30:0-4-8,0-4-12	2], [34:0-4-8,0-5	5-8]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2015/TPI2014	CSI. TC 0.31 BC 0.44 WB 0.58 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(L)	in (loc) -0.28 32-34 -0.38 32-34 0.03 26 0.27 30-32	l/defl L/d >956 360 >699 240 n/a n/a >983 240		PLATES MT20	GRIP 244/190
BCDL 10.0	Code 1RC2013/1F12014	Wattix-5	VVIIIU(LL)	0.27 30-32	>903 240		weight. 590 lb	FT = 2076
LUMBER- TOP CHORD 2x8 \$ BOT CHORD 2x10 34-30 WEBS 2x4 \$ 7-34, OTHERS 2x4 \$	P 2400F 2.0E SP 2400F 2.0E *Except* ,30-38: 2x6 SP No.1 IP No.2 *Except* 19-30,8-39,2-37,24-26,18-39: 2x6 SP No. IP No.2	1	BRACING- TOP CHOR BOT CHOR JOINTS	D Structu except D Rigid c 1 Brace	ural wood sheatl end verticals, a æiling directly ap e at Jt(s): 40, 41	ning directly Ind 2-0-0 oc oplied or 10 I, 42, 44, 45	v applied or 6-0-0 o c purlins (6-0-0 max I-0-0 oc bracing. 5, 48, 49, 50, 51, 53	c purlins, (.): 9-17. 3, 54, 55
REACTIONS. (s Max Max Max	ze) 37=0-3-8, 26=0-3-8, 32=0-3-8 Horz 37=374(LC 11) Uplift 37=-89(LC 12), 26=-93(LC 13) Grav 37=2252(LC 2), 26=2176(LC 2), 32	=1780(LC 18)						
FORCES. (Ib) - Ma TOP CHORD 2-3 7-8 12- 16- 20- 24	K. Comp./Max. Ten All forces 250 (lb) or =-2532/306, 3-4=-2381/316, 4-5=-2664/30 =-2332/478, 8-9=-1898/615, 9-10=-1650/5 13=-1645/569, 13-14=-1645/569, 14-15=- 17=-1650/569, 17-18=-1891/609, 18-19=- 21=-2663/348, 21-22=-2648/311, 22-23=- 26=-2065/361	less except when shown)9, 5-6=-2869/322, 6-7=-2 569, 10-11=-1645/569, 11 1645/569, 15-16=-1645/5 2282/478, 19-20=-2752/3 2281/345, 23-24=-2426/3	827/345, -12=-1645/569, 69, 86, 36, 2-37=-2145/33	8,				
BOT CHORD 36- 29- WEBS 7-3 44- 42- 17- 30- 24- 20-	37=-303/527, 35-36=-243/2160, 34-35=-2 30=-180/1906, 28-29=-180/1906, 27-28=- 4=0/974, 19-30=0/812, 8-41=-1224/52, 41 45=-1198/60, 40-44=-1198/60, 40-50=-11 52=-1198/60, 18-42=-1237/67, 2-49=-122 42=-227/667, 4-36=-534/188, 4-48=-346/ 53=-376/597, 53-54=-341/556, 22-54=-35 55=-149/1682, 10-46=-277/144, 5-48=-54 53=-306/47, 29-53=-338/31	43/2160, 32-34=-45/2177 180/1906, 26-27=-38/298 -46=-1198/60, 45-46=-11 98/60, 50-51=-1198/60, 5 /1773, 36-49=-125/1830, 196, 47-48=-344/471, 34-4 6/585, 22-27=-632/181, 2 9/9, 35-48=-538/7, 16-52=	, 30-32=-45/2177, 98/60, 1-52=-1198/60, 9-41=-206/679, 47=-419/490, 17-55=-153/1735, =-270/156,			(m	NORTH CA	AROUN
NOTES- 1) Unbalanced roof li 2) Wind: ASCE 7-10; gable end zone ar shown; Lumber Dú 3) Truss designed fo Gable End Details 4) Provide adequate 5) All plates are 2x6 6) Gable studs space 7) This truss has bee Continued on page 2	ve loads have been considered for this de Vult=130mph Vasd=103mph; TCDL=6.0p d C-C Exterior(2) zone; end vertical left an DL=1.60 plate grip DOL=1.60 wind loads in the plane of the truss only. as applicable, or consult qualified building drainage to prevent water ponding. //T20 unless otherwise indicated. d at 2-0-0 oc. n designed for a 10.0 psf bottom chord liv	sign. bsf; BCDL=6.0psf; h=15ft; nd right exposed;C-C for r For studs exposed to wir g designer as per ANSI/Tf e load nonconcurrent with	Cat. II; Exp C; En members and force nd (normal to the fa PI 1.	closed; MWFR ss & MWFRS f ace), see Stand ds.	S (envelope) or reactions dard Industry	THE REPORT OF THE PARTY OF THE	SEA 0363	AL B22 BILBER JULIU JULI

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

818 Soundside Road Edenton, NC 27932

ſ	Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
							156654212
	J0722-3736	A1GE	GABLE	1	1		
L						Job Reference (optional)	
	Comtech, Inc, Fayette	ville, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:07 2023	Page 2
			ID:0Hp	ugN1S Q	STWxS0z	0zGz9z5iCa-JFFSZPThjrnt vxfflPp0wwmd1OLsqZS8OFL9	qzkyAY

NOTES-

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) Ceiling dead load (10.0 psf) on member(s). 7-8, 18-19, 8-41, 41-46, 45-46, 44-45, 40-44, 40-50, 50-51, 51-52, 42-52, 18-42; Wall dead load (5.0psf) on member(s). 7-34, 19-30

10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 32-34, 30-32

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 26.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

13) Attic room checked for L/360 deflection.





2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-7 to 3-6-7, Interior(1) 3-6-7 to 14-5-8, Exterior(2) 14-5-8 to 20-9-12, Interior(1) 20-9-12 to 30-5-8, Exterior(2) 30-5-8 to 36-9-12, Interior(1) 36-9-12 to 45-10-7 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) All plates are 2x6 MT20 unless otherwise indicated.
- 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-28, 27-28, 27-29, 10-29; Wall dead load (5.0psf) on member(s).5-22, 11-18
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 10) Attic room checked for L/360 deflection.







besign valid to less only with with twe commendations. This besign is based only upon parameters and properly incorporate this design into the overall a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

			1			
Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	214
J0722-3736	A2-GR	ATTIC	1	2	1000072	
Comtech Inc Eavette	/ille_NC - 28314		8	430 s. lan	Job Reference (optional) 6 2022 MiTek Industries, Inc., Wed Feb 15 08:19:17 2023, Page 2	
	/inc, 140 - 20014,	ID:0Hpug	N1S_QST	WxS0z0zG	iz9z5iCa-1AsEfqbyMw1SBRiaEra9Q1KRt3oACAkwRxgtWFzkyAO	
NOTES-						
 Graphical purlin repres Attic room checked for 	entation does not depict the	size or the orientation of the purlin along the top	o and/or b	ottom cho	rd.	
	L'obb deneetion.					
LOAD CASE(S) Standard	 					
 Dead + Root Live (balar Uniform Loads (plf) 	iced): Lumber Increase=1.15	, Plate Increase=1.15				
Vert: 1-2=-120,	2-5=-120, 5-6=-160, 6-7=-12	0, 7-9=-120, 9-10=-120, 10-11=-160, 11-14=-1	20, 14-15=	=-120, 22-	24=-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40	
Drag: 5-22=-20	, 11-18=-20					
2) Dead + 0.75 Root Live (balanced) + 0.75 Attic Floor:	Lumber Increase=1.15, Plate Increase=1.15				
Vert: 1-2=-100,	2-5=-100, 5-6=-140, 6-7=-10	0, 7-9=-100, 9-10=-100, 10-11=-140, 11-14=-1	00, 14-15=	=-100, 22-	24=-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Drag: 5-22=-20	, 11-18=-20	la second de C. Dista la second de C.				
3) Dead + Uninhabitable A	ttic Without Storage: Lumber	Increase=1.25, Plate Increase=1.25				
Vert: 1-2=-40, 2	2-5=-40, 5-6=-80, 6-7=-40, 7-9	9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-15=	-40, 22-24	4=-120(F=	-40), 16-22=-80, 6-10=-40	
Drag: 5-22=-20	, 11-18=-20					
 Dead + 0.6 MWFRS Wir Uniform Loads (plf) 	id (Pos. Internal) Leπ: Lumbe	er increase=1.60, Plate increase=1.60				
Vert: 1-2=5, 2-5	=-26, 5-6=-50, 6-7=-26, 7-9=	41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8, 22	-24=-64(F	=-40), 18-	22=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-29, 2	2-7=2, 9-14=46, 14-15=32					
Drag: 7-8=-0, 8 5) Dead + 0.6 MWFRS Wir	-9=0, 5-22=-20, 11-18=-20 nd (Pos_Internal) Right: Luml	per Increase=1.60 Plate Increase=1.60				
Uniform Loads (plf)	ia (i oo. intoinai) riight Eann					
Vert: 1-2=8, 2-5	=22, 5-6=-2, 6-7=22, 7-9=41	, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5, 22	-24=-64(F	=-40), 18-	22=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-32, 2 Drag: 7-80, 8	2-7=-46, 9-14=-2, 14-15=29					
6) Dead + 0.6 MWFRS Wir	nd (Neg. Internal) Left: Lumb	er Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=-56, 2 Horz: 1-2=16, 2	2-5=-69, 5-6=-109, 6-7=-69, 7 27-29, 9-14-19, 14-15-32	-9=-2, 9-10=-21, 10-11=-61, 11-14=-21, 14-15=	=-8, 22-24:	=-80(F=-4	0), 18-22=-80, 16-18=-40, 6-10=-40	
Drag: 7-8=-0, 8	-9=0, 5-22=-20, 11-18=-20					
7) Dead + 0.6 MWFRS Wir	nd (Neg. Internal) Right: Lum	ber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-2=-8 2-	5=-21 5-6=-61 6-7=-21 7-9:	2 9-1069 10-11109 11-1469 14-15	56 22-24	=-80(F=-4	0) 18-22=-80 16-18=-40 6-10=-40	
Horz: 1-2=-32, 2	2-7=-19, 9-14=-29, 14-15=-16	b	00, 22 2 1	- 00(1 - 1	5), 10 22 - 00, 10 10 - 10, 0 10 - 10	
Drag: 7-8=-0, 8	-9=0, 5-22=-20, 11-18=-20					
B) Dead + 0.6 MWFRS WI Uniform Loads (plf)	nd (Pos. Internal) 1st Parallel	Lumber Increase=1.60, Plate Increase=1.60				
Vert: 1-2=28, 2-	5=41, 5-6=17, 6-7=41, 7-9=1	7, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22-	24=-64(F=	-40), 18-2	2=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-52, 2	2-7=-65, 9-14=41, 14-15=28					
9) Dead + 0 6 MWFRS Wir	-9=0, 5-22=-20, 11-18=-20 nd (Pos_Internal) 2nd Paralle	I: Lumber Increase=1.60 Plate Increase=1.60				
Uniform Loads (plf)						
Vert: 1-2=4, 2-5	i=17, 5-6=-7, 6-7=17, 7-9=17	, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22-	24=-64(F=	=-40), 18-2	2=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-28, 2 Drag: 7-8=-0, 8	2-7=-41, 9-14=65, 14-15=52 -9=0, 5-22=-20, 11-18=-20					
10) Dead + 0.6 MWFRS W	(ind (Pos. Internal) 3rd Paralle	el: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)		47 0 40 47 40 44 7 44 44 47 44 45 4 9	04 04/5	- 40) 40	22 49	
16-18=-24, 6-1	2-5=41, 5-6=17, 6-7=41, 7-9= 10=-24	=17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 22	-24=-04(F	-=-40), 18	-22=-48,	
Horz: 1-2=-52	, 2-7=-65, 9-14=41, 14-15=28	3				
Drag: 7-8=-0,	8-9=0, 5-22=-20, 11-18=-20 (ind (Pos. Internal) 4th Parall	al: Lumber Increase-1.60. Plate Increase-1.60				
Uniform Loads (plf)	inu (FOS. Internal) 4th Faran	el. Lumber increase=1.00, Plate increase=1.00				
Vert: 1-2=4, 2-	5=17, 5-6=-7, 6-7=17, 7-9=1	7, 9-10=41, 10-11=17, 11-14=41, 14-15=28, 22	2-24=-64(F	=-40), 18	-22=-48,	
16-18=-24, 6-' Horz: 1-228	10=-24 2-711 9-11-65 11-15-51					
Drag: 7-8=-0,	8-9=0, 5-22=-20, 11-18=-20	-				
12) Dead + 0.6 MWFRS W	ind (Neg. Internal) 1st Parall	el: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)	2 5 - 2 5 6 - 12 6 7 - 2 7 0 -	26 0 10- 26 10 11- 66 11 14- 26 14 15- 3	12 22 24-	- 90/E_ 4	18 22- 80	
16-18=-40, 6-1	10=-40	-20, 3-1020, 10-1100, 11-1420, 14-13	12, 22-24-), 10-2200,	
Horz: 1-2=-52	, 2-7=-38, 9-14=14, 14-15=28	3				
Drag: 7-8=-0,	8-9=0, 5-22=-20, 11-18=-20 (ind (Neg. Internal) 2nd Paral	lal: Lumber Increase-1.60. Plate Increase-1.60	`			
Uniform Loads (plf)	inu (Neg. Internal) zhu Farai		,			
Vert: 1-2=-12,	2-5=-26, 5-6=-66, 6-7=-26, 7	-9=-26, 9-10=-2, 10-11=-42, 11-14=-2, 14-15=	12, 22-24=	=-80(F=-40), 18-22=-80,	
16-18=-40, 6-1 Horz: 1, 2-, 28	10=-40 2 7- 14 0 14-29 14 15-51					
Drag: 7-8=-0,	8-9=0, 5-22=-20, 11-18=-20	-				
14) Dead + Attic Floor: Lur	nber Increase=1.00, Plate Inc	crease=1.00				
Uniform Loads (plf)	2-540 5-680 6 7- 40 7	-940 9-1040 10-1180 11 14- 40 14 14	5-40 22	24240/5		
18-22=-240,	2-340, 3-0=-60, 6-7=-40, 7 6-18=-40, 6-10=-40	-3 = -40, 3 = 10 = -40, 10 = 11 = -60, 11 = 14 = -40, 14 = 13	J≕-4U, ZZ-	∠ + =-∠40(f	200 <i>j</i> ,	
Drag: 5-22=-2	0, 11-18=-20					
15) Dead: Lumber Increase	e=1.00, Plate Increase=1.00					

Continued on page 3



Job	russ	Truss Type	Qtv	Ply	Lot 33 Liberty Meadows	
10700 0706	2.08		1		15665	64214
30722-3730 A	2-GR		'	2	Job Reference (optional)	
Comtech, Inc, Fayetteville	e, NC - 28314,	ID:0Hpu	8 gN1S_QST	.430 s Jan WxS0z0zG	6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:17 2023 Page 329z5iCa-1AsEfqbyMw1SBRiaEra9Q1KRt3oACAkwRxgtWFzkyA0	3 0
LOAD CASE(S) Standard			-			
Uniform Loads (plf)						
Vert: 1-2=-40, 2- Drag: 5-22=-20.	·5=-40, 5-6=-80, 6-7=-40, 7 11-18=-20	-9=-40, 9-10=-40, 10-11=-80, 11-14=-40, 14-	5=-40, 22-	24=-240(F	F=-200), 18-22=-240, 16-18=-40, 6-10=-40	
16) Dead + 0.75 Roof Live (b	oal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) Left): Lumber	ncrease=1	.60, Plate	Increase=1.60	
Uniform Loads (plf) Vert: 1-2=-112, 2	2-5=-122, 5-6=-162, 6-7=-1	22, 7-9=-71, 9-10=-86, 10-11=-126, 11-14=-8	6, 14-15=-7	76, 22-24=	-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Horz: 1-2=12, 2-	7=22, 9-14=14, 14-15=24					
17) Dead + 0.75 Roof Live (b	al.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) Right): Lumbe	Increase=	1.60, Plat	e Increase=1.60	
Uniform Loads (plf) Vert: 1-2=-76 2-	5=-86 5-6=-126 6-7=-86	7-9=-71 9-10=-122 10-11=-162 11-14=-122	14-15=-1	12 22-24=	-200(F=-160) 18-22=-200 16-18=-40 6-10=-40	
Horz: 1-2=-24, 2	-7=-14, 9-14=-22, 14-15=-1	2		,		
Drag: 7-8=-0, 8-9 18) Dead + 0.75 Roof Live (b	9=0, 5-22=-20, 11-18=-20 oal.) + 0.75 Attic Floor + 0.7	5(0.6 MWFRS Wind (Neg. Int) 1st Parallel): L	umber Incr	ease=1.60), Plate Increase=1.60	
Uniform Loads (plf)		7.0.00.0.10.00.10.11.10.01.1	4 4 5 70 4	00.04 00		
Horz: 1-2=-39, 2	-5=-71, 5-6=-111, 6-7=-71, 2-7=-29, 9-14=11, 14-15=21	7-9=-89, 9-10=-89, 10-11=-129, 11-14=-89, 1	4-15=-79, 2	22-24=-200	J(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Drag: 7-8=-0, 8-9	9=0, 5-22=-20, 11-18=-20	5(0.6 MW/ERS Wind (Neg. Int) 2nd Parallel):	umber Inc	rease-1 6	0 Plate Increase-1 60	
Uniform Loads (plf)				10000-1.0		
Vert: 1-2=-79, 2- Horz: 1-2=-21, 2	-5=-89, 5-6=-129, 6-7=-89, 2-7=-11, 9-14=29, 14-15=39	7-9=-89, 9-10=-71, 10-11=-111, 11-14=-71, 1 י	4-15=-61, 2	22-24=-200	D(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Drag: 7-8=-0, 8-9	9=0, 5-22=-20, 11-18=-20					
Uniform Loads (plf)	ibalanced). Lumber increas	e=1.15, Flate Increase=1.15				
Vert: 1-2=-120, 2	2-5=-120, 5-6=-160, 6-7=-1 11-1820	20, 7-9=-120, 9-10=-40, 10-11=-80, 11-14=-4	0, 14-15=-4	40, 22-24=	-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40	
21) 2nd Dead + Roof Live (u	nbalanced): Lumber Increa	se=1.15, Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-2=-40. 2-	5=-40, 5-6=-80, 6-7=-40, 7	-9=-120. 9-10=-120. 10-11=-160. 11-14=-120	14-15=-12	20. 22-24=	-80(F=-40), 18-22=-80, 16-18=-40, 6-10=-40	
Drag: 5-22=-20,	11-18=-20	Electric Lumber Increase _1.15_ Plate Increase	1 1 5			
Uniform Loads (plf)	e (unbalanced) + 0.75 Allic	FIGOR: Lumber increase=1.15, Plate increase	=1.15			
Vert: 1-2=-100, 2	2-5=-100, 5-6=-140, 6-7=-1	00, 7-9=-100, 9-10=-40, 10-11=-80, 11-14=-4	0, 14-15=-4	10, 22-24=	-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
23) 4th Dead + 0.75 Roof Liv	ve (unbalanced) + 0.75 Attic	Floor: Lumber Increase=1.15, Plate Increase	=1.15			
Uniform Loads (plf) Vert: 1-2=-40, 2-	5=-40, 5-6=-80, 6-7=-40, 7	-9=-100, 9-10=-100, 10-11=-140, 11-14=-100	14-15=-10	0, 22-24=	-200(F=-160), 18-22=-200, 16-18=-40, 6-10=-40	
Drag: 5-22=-20,	11-18=-20		<u> </u>	,		
Uniform Loads (plf)	VFR3 Wind (F05. Internal)	Len. Lumber increase=1.00, Flate increase=	.00			
Vert: 1-2=5, 2-5= Horz: 1-2=-29, 2	=-26, 5-6=-50, 6-7=-26, 7-9 -7=2 9-14=46 14-15=32	=41, 9-10=22, 10-11=-2, 11-14=22, 14-15=8,	22-24=-64	(F=-40), 18	3-22=-48, 16-18=-24, 6-10=-24	
Drag: 7-8=-0, 8-9	9=0, 5-22=-20, 11-18=-20					
25) Reversal: Dead + 0.6 MV Uniform Loads (plf)	VERS Wind (Pos. Internal)	Right: Lumber Increase=1.60, Plate Increase	=1.60			
Vert: 1-2=8, 2-5=	=22, 5-6=-2, 6-7=22, 7-9=4	1, 9-10=-26, 10-11=-50, 11-14=-26, 14-15=5,	22-24=-64	(F=-40), 18	3-22=-48,	
Horz: 1-2=-32, 2	=-24 2-7=-46, 9-14=-2, 14-15=29					
Drag: 7-8=-0, 8-9 26) Reversal: Dead + 0.6 MV	9=0, 5-22=-20, 11-18=-20 VFRS Wind (Neg. Internal)	Left: Lumber Increase=1.60. Plate Increase=	1.60			
Uniform Loads (plf)			F 0 00 0	4 00/5	40)	
18-22=-80, 16-1	-5=-69, 5-6=-109, 6-7=-69, 8=-40, 6-10=-40	7-9=-2, 9-10=-21, 10-11=-61, 11-14=-21, 14-	5=-8, 22-2	4=-80(F=-	40),	
Horz: 1-2=16, 2-	7=29, 9-14=19, 14-15=32					
27) Reversal: Dead + 0.6 MV	VFRS Wind (Neg. Internal)	Right: Lumber Increase=1.60, Plate Increase	=1.60			
Uniform Loads (plf) Vert: 1-2=-8. 2-5	j=-21. 5-6=-61. 6-7=-21. 7-9	9=-2, 9-10=-69, 10-11=-109, 11-14=-69, 14-1	i=-56. 22-2	4=-80(F=-	40).	
18-22=-80, 16-1	8=-40, 6-10=-40		,	(
Drag: 7-8=-0, 8-5	9=0, 5-22=-20, 11-18=-20	0				
28) Reversal: Dead + 0.6 MV	VFRS Wind (Pos. Internal)	1st Parallel: Lumber Increase=1.60, Plate Inc	ease=1.60)		
Vert: 1-2=28, 2-5	5=41, 5-6=17, 6-7=41, 7-9=	17, 9-10=17, 10-11=-7, 11-14=17, 14-15=4, 2	2-24=-64(1	=-40), 18	-22=-48,	
16-18=-24, 6-10 Horz: 1-2=-52. 2	=-24 2-7=-65, 9-14=41, 14-15=28					
Drag: 7-8=-0, 8-9	9=0, 5-22=-20, 11-18=-20	and Dorolloli Lumber Increases 4.00 Plate in	roooc 4.0	0		
29) Reversal: Dead + 0.6 MV	vrrs winu (Pos. Internal)	znu Farallel: Lumber Increase=1.60, Plate In	rease=1.6	U		

Continued on page 4



Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
10722-3736	A2-GR	ATTIC	1			156654214
	N2 OK			2	Job Reference (optional)	
Comtech, Inc, Fayet	teville, NC - 28314,			8.430 s Jar	6 2022 MiTek Industries, Inc. Wed	Feb 15 08:19:17 2023 Page 4
			ID:0HpugN1S_QS	STWxS0z0z0	Gz9z5iCa-1AsEfqbyMw1SBRiaEra90	Q1KRt3oACAkwRxgtWFzkyAO
LOAD CASE(S) Standa	ırd					
Uniform Loads (plf)						
Vert: 1-2=4,	2-5=17, 5-6=-7, 6-7=17	, 7-9=17, 9-10=41, 10-11=17, 11-14=	=41, 14-15=28, 22-24=-64	I(F=-40), 18	3-22=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-2	28, 2-7=-41, 9-14=65, 14	I-15=52				
Drag: 7-8=-0), 8-9=0, 5-22=-20, 11-1	8=-20				
30) Reversal: Dead + 0.6	6 MWFRS Wind (Pos. In	ternal) 3rd Parallel: Lumber Increase	e=1.60, Plate Increase=1.	60		
Uniform Loads (plf)		14 7 0 47 0 40 47 40 44 7 44 4	4 47 44 45 4 00 04 0		2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4	
Ven: 1-2=20	5, 2-3=41, 3-6=17, 6-7=4	,1,7-9=17,9-10=17,10-11=-7,11-14 1 15_29	+=17, 14-15=4, 22-24=-64	$(\Gamma = -40), 10$	3-22=-48, 16-18=-24, 6-10=-24	
Drag: 7-8(2, 2-7=-00, 9-14=41, 1- 8-9-0 5-2220 11-1	820				
31) Reversal: Dead + 0 (5, 0-9=0, 5-22=-20, 11-1 5 MWFRS Wind (Pos. In	ternal) 4th Parallel: Lumber Increase	=1.60 Plate Increase=1	60		
Uniform Loads (plf)				00		
Vert: 1-2=4,	2-5=17, 5-6=-7, 6-7=17	, 7-9=17, 9-10=41, 10-11=17, 11-14=	=41, 14-15=28, 22-24=-64	I(F=-40), 18	8-22=-48, 16-18=-24, 6-10=-24	
Horz: 1-2=-2	28, 2-7=-41, 9-14=65, 14	-15=52				
Drag: 7-8=-(), 8-9=0, 5-22=-20, 11-1	8=-20				
32) Reversal: Dead + 0.6	6 MWFRS Wind (Neg. Ir	iternal) 1st Parallel: Lumber Increase	e=1.60, Plate Increase=1.	60		
Uniform Loads (plf)						
Vert: 1-2=12	2, 2-5=-2, 5-6=-42, 6-7=-	2, 7-9=-26, 9-10=-26, 10-11=-66, 11	-14=-26, 14-15=-12, 22-2	4=-80(F=-4	0), 18-22=-80, 16-18=-40, 6-10=-4	40
Horz: 1-2=-	2, 2-7=-38, 9-14=14, 14	i-15=28				
22) Povorcal: Doad + 0.6), 8-9=0, 5-22=-20, 11-1 S MM/EBS M/ind (Nog. Ir	8=-20	a-1.60 Plata Increase-1	60		
Liniform Loads (nif)	S WWERS WITH (Neg. II	ternal) zhu Farallei. Lumber moreas		.00		
Vert: 1-2=-1	2 2-5=-26 5-6=-66 6-7	=-26 7-9=-26 9-10=-2 10-11=-42 1	11-14=-2 14-15=12 22-2	4=-80(F=-4	0) 18-22=-80 16-18=-40 6-10=-4	40
Horz: 1-2=-2	28, 2-7=-14, 9-14=38, 14	- 20, 1 0- 20, 0 10- 2, 10 11- 12, 1 1-15=52		1= 00(1 = 1	10, 10 22 00, 10 10 10 10, 0 10	
Drag: 7-8=-(), 8-9=0, 5-22=-20, 11-1	8=-20				
34) Reversal: Dead + 0.7	75 Roof Live (bal.) + 0.7	5 Attic Floor + 0.75(0.6 MWFRS Win	d (Neg. Int) Left): Lumber	Increase=	1.60, Plate Increase=1.60	
Uniform Loads (plf)						
Vert: 1-2=-1	12, 2-5=-122, 5-6=-162,	6-7=-122, 7-9=-71, 9-10=-86, 10-11	=-126, 11-14=-86, 14-15=	-76, 22-24	=-200(F=-160), 18-22=-200, 16-18	3=-40, 6-10=-40
Horz: 1-2=1	2, 2-7=22, 9-14=14, 14-	15=24				
Drag: 7-8=-(), 8-9=0, 5-22=-20, 11-1					
35) Reversal: Dead + 0.	(5 Roof Live (bal.) + 0.7	5 Attic Floor + 0.75(0.6 MWFRS Win	d (Neg. Int) Right): Lumb	er Increase	=1.60, Plate Increase=1.60	
Uniform Loads (pil)	6 2 5 - 96 5 6 - 126 6	7- 96 7 0- 71 0 10- 122 10 11- 4	162 11 14- 122 14 15-	112 22 24.	- 200(E- 160) 18 22- 200 16 19	2- 40 6 10- 40
Horz: 1-2	0, 2-3=-00, 3-0=-120, 0-	<i>I</i> =-00, <i>I</i> -9=- <i>I</i> 1, 9-10=-122, 10-11=-1	102, 11-14=122, 14-15=-	112, 22-24	=-200(F=-100), 18-22=-200, 10-18	5=-40, 6-10=-40
Drag: 7-8=-) 8-9=0 5-22=-20 11-1	8=-20				
36) Reversal: Dead + 0.1	75 Roof Live (bal.) + 0.7	5 Attic Floor + 0.75(0.6 MWFRS Win	d (Neg. Int) 1st Parallel):	Lumber Inc	rease=1.60. Plate Increase=1.60	
Uniform Loads (plf)			= (····g····)			
Vert: 1-2=-6	1, 2-5=-71, 5-6=-111, 6-	7=-71, 7-9=-89, 9-10=-89, 10-11=-12	29, 11-14=-89, 14-15=-79	, 22-24=-20	00(F=-160), 18-22=-200, 16-18=-4	0, 6-10=-40
Horz: 1-2=-3	39, 2-7=-29, 9-14=11, 14	I-15=21				
Drag: 7-8=-0), 8-9=0, 5-22=-20, 11-1	8=-20				
37) Reversal: Dead + 0.	75 Roof Live (bal.) + 0.7	5 Attic Floor + 0.75(0.6 MWFRS Win	d (Neg. Int) 2nd Parallel):	Lumber In	crease=1.60, Plate Increase=1.60	
Uniform Loads (plf)	0 0 5 00 5 0 400 0	7 00 7 0 00 0 40 74 40 44 4		00.04 07		0 0 40 40
Vert: 1-2=-7	9, 2-5=-89, 5-6=-129, 6-	ィー-89, 1-9=-89, 9-10=-11, 10-11=-11	11, 11-14=-71, 14-15=-61	, 22-24=-20	טט(ד=-160), 18-22=-200, 16-18=-4	0, 6-10=-40
	<u></u> ,,4=29, 14	r-10=09				

Drag: 7-8=-0, 8-9=0, 5-22=-20, 11-18=-20





Plate Offsets (X,Y)	[17:0-3-8,0-2-8], [18:0-4-8,0-4-12], [22:0	-4-8,0-5-12]					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2015/TPI2014	CSI. TC 0.33 BC 0.43 WB 0.53 Matrix-S	DEFL. in Vert(LL) -0.21 Vert(CT) -0.30 Horz(CT) 0.03 Wind(LL) 0.07	(loc) l/defl 18-20 >999 18-20 >876 16 n/a 20-22 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 1643 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x8 SP BOT CHORD 2x10 S 22-25, WEBS 2x4 SP 5-22,11	2 2400F 2.0E P 2400F 2.0E *Except* 18-25: 2x6 SP No.1 No.2 *Except* 1-18,6-26,2-24,14-16,10-26: 2x6 SP No.	1	BRACING- TOP CHORD BOT CHORD JOINTS	Structural woo except end ve Rigid ceiling d 1 Brace at Jt(s	d sheathing dir rticals, and 2-0- irectly applied c s): 27, 28, 29	ectly applied or 6-0-0 oc 0 oc purlins (6-0-0 max. or 10-0-0 oc bracing.	: purlins,): 7-9.
REACTIONS. (size Max H Max G	e) 24=0-3-8, 16=0-3-8, 20=0-3-8 orz 24=-247(LC 6) rav 24=4333(LC 2), 16=6344(LC 14), 24	0=4983(LC 14)					
FORCES. (lb) - Max. TOP CHORD 2-3=- 9-10 14-16	Comp./Max. Ten All forces 250 (lb) or 4887/0, 3-5=-6016/0, 5-6=-4428/0, 6-7= =-1680/244, 10-11=-4391/0, 11-13=-616 5=-5915/0	less except when shown. -1709/246, 7-8=-1386/218 52/0, 13-14=-7218/0, 2-24	8, 8-9=-1386/218, =-4091/0,				
BOT CHORD 23-24	4=-183/485, 22-23=-31/4002, 20-22=0/48	845, 18-20=0/4845, 17-18	3=0/5997,				
WEBS 5-22= 10-29 13-1	=0/2007 =0/2848, 11-18=0/3199, 6-28=-5018/0, 2 9=-5005/0, 2-23=0/3734, 7-28=-1/563, 9- 8=-1429/457, 13-17=-766/946, 14-17=0/	7-28=-4980/0, 27-29=-49 29=0/470, 3-23=-1566/71 /5642	80/0, I, 3-22=-223/1121,			TH CA	ROUT
NOTES- 1) 3-ply truss to be con Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-10; V Lumber DOL=1.60 p 5) Provide adequate dr 6) All plates are 2x6 M	Inected together with 10d (0.131"x3") na ed as follows: 2x8 - 2 rows staggered at ected as follows: 2x10 - 4 rows staggered follows: 2x6 - 2 rows staggered at 0-9-0 ered equally applied to all plies, except if e been provided to distribute only loads i e loads have been considered for this de (ult=130mph Vasd=103mph; TCDL=6.0p) late grip DOL=1.60 ainage to prevent water ponding. T20 unless otherwise indicated.	ils as follows: 0-9-0 oc, 2x6 - 2 rows sta ed at 0-4-0 oc. oc, 2x4 - 1 row at 0-9-0 o noted as front (F) or bac- noted as (F) or (B), unless sign. osf; BCDL=6.0psf; h=15ft;	nggered at 0-9-0 oc. bc. k (B) face in the LOAD C s otherwise indicated. Cat. II; Exp C; Enclosed	ASE(S) section ; MWFRS (enve	. Ply to elope);	SEA 0363 NGIN February	L 22 ILBER 15,2023

Continued on page 2

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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 property 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

TREENCO AMITek Affiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
						156654215
J0722-3736	A2A-GR	ATTIC	1	2		
				3	Job Reference (optional)	
Comtech. Inc. Favettev	rille, NC - 28314.		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:15 2023	Page 2

NOTES-

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-4okUE8aiqJnly8YB7QYhLcF7GF7JkJNe_dBnSMzkyAQ

- 7) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage; #4 Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #5 Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #8 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #9 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #11 Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 3rd Parallel; #10 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); #36 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #37 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #38 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #39 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #38 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #39 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #38 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #44 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #40 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #42 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #43 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #43 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 3rd Parallel; #43 Reversal: Dead + 0.6 MWFRS Wind (Nes. Internal) Ath Parallel; #44 Reversal: Dead + 0.6 MWFRS Wind (Neg. Int)
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-28, 27-28, 27-29, 10-29; Wall dead load (5.0 psf) on member(s). 5-22, 11-18
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 18-20
- 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) 2488 lb down at 10-4-12, 142 lb down and 119 lb up at 11-9-4, 142 lb down and 119 lb up at 13-9-4, 142 lb down and 119 lb up at 13-9-4, 142 lb down and 119 lb up at 13-9-4, 142 lb down and 119 lb up at 12-9-4, 899 lb down at 23-9-4, 899 lb down at 25-9-4, 899 lb down at 27-9-4, 243 lb down at 29-9-4, 243 lb down at 30-9-4, 243 lb down at 32-9-4, 243 lb down at 34-9-4, 243 lb down at 36-9-4, and 243 lb down at 38-9-4, and 3158 lb down at 40-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-6=-80, 6-7=-60, 7-9=-60, 9-10=-60, 10-11=-80, 11-14=-60, 14-15=-60, 22-24=-20, 18-22=-40, 16-18=-20, 6-10=-20 Drag: 5-22=-10, 11-18=-10

Concentrated Loads (lb)

Vert: 22=-767(B) 18=-40(B) 19=-40(B) 17=-1083(B) 37=-231(B) 38=-231(B) 39=-231(B) 40=-40(B) 41=-40(B) 42=-40(B) 43=-40(B) 43=-





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 0.09	Vert(LL) -0.00 4-5 >999 360 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.01 4-5 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 4 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 5 **** 240 Weight: 42 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x6 SP No.1

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x6 SP No.1 *Except*

 2-4: 2x4 SP No.2

REACTIONS. (size) 5=0-3-8, 4=0-1-8 Max Horz 5=106(LC 9) Max Uplift 4=-81(LC 12) Max Grav 5=241(LC 1), 4=167(LC 19)

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

NOTES-

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



Structural wood sheathing directly applied or 4-2-0 oc purlins,

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

except end verticals.





	• (0	0740040						(1)			DI 4750	6.D.I.D.
LOADING	i (pst)	SPACING-	2-0-0	CSI.		DEFL.	ın	(IOC)	I/defi	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	тс	0.04	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-S	Wind(LL)	0.00	6	>999	240	Weight: 46 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

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LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except*
	2-5: 2x4 SP No.2
OTHERS	2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 5=0-1-8 Max Horz 7=150(LC 12) Max Uplift 5=-139(LC 12)

Max Grav 7=241(LC 1), 5=165(LC 19)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 5 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) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=139.



Structural wood sheathing directly applied or 4-2-0 oc purlins,

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

except end verticals.





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

WEBS 2x4 SP No.2 Left 2x4 SP No.2 4-3-8, Right 2x4 SP No.2 3-2-0 SLIDER

BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 10-0-0 oc bracing: 2-15. WEBS 1 Row at midpt

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 7-14, 6-14

REACTIONS. (size) 2=0-5-8, 14=0-5-8, 11=0-3-0 Max Horz 2=-262(LC 10) Max Uplift 2=-95(LC 13), 14=-71(LC 12), 11=-375(LC 8) Max Grav 2=727(LC 1), 14=1553(LC 19), 11=631(LC 26)

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

2-4=-1447/716, 4-6=-1074/633, 6-7=-419/769, 7-9=-258/492, 9-11=-438/453 TOP CHORD

BOT CHORD 2-15=-498/1305, 13-14=-303/231, 11-13=-303/231

WEBS 4-15=-495/289, 6-15=-232/1121, 7-14=-699/516, 6-14=-849/141

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-1 to 3-3-12, Interior(1) 3-3-12 to 15-3-0, Exterior(2) 15-3-0 to 19-7-13, Interior(1) 19-7-13 to 31-7-1 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (it=lb) 11=375

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







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Edenton, NC 27932



BOT CHORD 2-11=-353/1874, 9-11=-346/2112, 7-9=-346/2112

WEBS 3-11=-791/296, 4-11=-169/1036, 6-11=-960/266, 6-9=0/375

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-2-0, Exterior(2) 12-2-0 to 16-6-13, Interior(1) 16-6-13 to 31-5-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 7=104.







8x8 🗢



2-	-0-2	12-2 10-1-	-0 14			20-2-0 8-0-0				<u>30-5</u> 10-3	5-8 3-8	
Plate Offsets (2	(X,Y)	[2:0-6-6,Edge], [4:0-4-13	,0-4-0], [7:0-2-4	,0-0-9]								
LOADING(psTCLL20.TCDL10.BCLL0.BCDL10.	sf) .0 .0 .0 * .0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TI	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri	0.71 0.47 0.51 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.11 -0.28 0.12 0.11	(loc) 2-11 2-11 7 2-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 263 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD	LUMBER- TOP CHORD 2x6 SP No.1 *Except* 1-4: 2x10 SP No.1				BRACING- TOP CHOR BOT CHOR	RD RD	Structu Rigid c	iral wood eiling dire	sheathing d ectly applied	irectly applied or 4-4-5 c or 10-0-0 oc bracing. E	oc purlins. xcept:	
WEBS OTHERS	2x4 SP 2x4 SP 2x4 SP	No.2 No.2				WEBS		1 Row	at midpt	ig. 2-11	6-11	
REACTIONS.	(size Max He	e) 1=0-3-8, 7=0-3-8 orz 1=-273(LC 10)										

Max Uplift 1=-208(LC 12), 7=-307(LC 13) Max Grav 1=1210(LC 1), 7=1278(LC 1)

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

- TOP CHORD 1-2=-569/212, 2-3=-2092/687, 3-4=-1644/583, 4-6=-1467/531, 6-7=-2383/765
- BOT CHORD 2-11=-471/1874, 9-11=-577/2112, 7-9=-577/2112
- WEBS 3-11=-791/393, 4-11=-299/1036, 6-11=-960/461, 6-9=0/375

NOTES-

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

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

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

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=208.7=307.







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



February 15,2023



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TRENGINEERING BY A MI Tek Affiliate 818 Soundside Road

Edenton, NC 27932



NOTES-

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

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

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

4) Gable studs spaced at 2-0-0 oc.

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

6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=145.



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

ENGINEERING BY REENCO A MiTek Affiliate 818 Soundside Road Edenton, NC 27932



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

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.







		4-2-8 4-2-8		8-5-0 4-2-8		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.29 BC 0.06 WB 0.04 Matrix-P	DEFL. in Vert(LL) -0.00 Vert(CT) -0.01 Horz(CT) 0.00 Wind(LL) -0.00	(loc) 6 2 2-6 2 4 6 2	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 244/190 Weight: 46 lb FT = 20%

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=109(LC 11) Max Uplift 2=-34(LC 12), 4=-34(LC 13) Max Grav 2=409(LC 1), 4=409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-321/71, 3-4=-321/71

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 4-2-8, Exterior(2) 4-2-8 to 8-7-5, Interior(1) 8-7-5 to 9-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

A MITEK Affiliate

818 Soundside Road Edenton, NC 27932

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.



TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2

REACTIONS. All bearings 8-1-0. Max Horz 2=132(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-126(LC 12), 8=-124(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

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

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

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

- 4) 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=126, 8=124.



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

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





	L		5-8-	-0					_
	1		5-8-	-0					1
Plate Offsets (X,Y)	[2:0-2-14,0-0-6]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.36 BC 0.11 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.00 0.02	(loc) 2-4 2-4 2-4	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 26 lb	GRIP 244/190 FT = 20%
TOP CHORD 2x4 SF	TOP CHOR	D	Structu	ral wood	sheathing d	irectly applied or 5-8-0	oc purlins,		

BOT CHORD

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=57(LC 8)

Max Uplift 2=-132(LC 8), 4=-82(LC 8) Max Grav 2=306(LC 1), 4=202(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 5-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2 = 132



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

except end verticals.





	H		5-8-0		
Plate Offsets (X,Y)	[2:0-2-14,0-0-6]		5-8-0		
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 IRC2015/TPI2014	CSI. TC 0.11 BC 0.12 WB 0.02 Matrix-S	DEFL. in Vert(LL) 0.02 Vert(CT) -0.02 Horz(CT) -0.00	(loc) I/defl L/d 8 >999 240 8 >999 240 6 n/a n/a	PLATES GRIP MT20 244/190 Weight: 28 lb FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x6 SF	No.1 No.1 No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing direc except end verticals. Rigid ceiling directly applied or	tly applied or 5-8-0 oc purlins, 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 6=0-1-8 Max Horz 2=81(LC 8) Max Uplift 2=-189(LC 8), 6=-120(LC 8) Max Grav 2=306(LC 1), 6=202(LC 1)

2x4 SP No.2

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

NOTES-

OTHERS

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189, 6=120.











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818 Soundside Road Edenton, NC 27932



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

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

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

- 4) All plates are 2x4 MT20 unless otherwise indicated.5) Gable requires continuous bottom chord bearing.
- 5) Gable requires continuous bottom (
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14, 13, 12.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.









Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0722-3737 Lot 33 Liberty Meadows

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

Pages or sheets covered by this seal: I56654234 thru I56654238

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 15,2023

Gilbert, Eric

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



		<u>11-11-12</u> 11-11-12				<u>17-7-0</u> 5-7-4					
Plate Offsets (X,Y)	[10:0-1-8,Edge], [11:0-1-8,Edge], [19:0-	1-8,Edge], [20:0-1-8,Edge]									
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.37 BC 0.37 WB 0.30 Matrix-S	DEFL. ii Vert(LL) -0.06 Vert(CT) -0.02 Horz(CT) 0.02	n (loc) l/defl 5 20-21 >999 9 20-21 >999 2 13 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 89 lb	GRIP 244/190 FT = 20%F, 11%E				
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	P No.1 (flat) P No.1 (flat) P No.3 (flat) P No.3 (flat)	BRACING- TOP CHORD BOT CHORD	Structural wood except end vertic Rigid ceiling dire	sheathing dire cals. ctly applied or	ctly applied or 6-0-0 6-0-0 oc bracing.	oc purlins,					
Max G	REACTIONS. (size) 22=0-3-8, 16=0-3-8, 13=Mechanical Max Grav 22=628(LC 10), 16=1033(LC 9), 13=284(LC 4)										
FORCES. (lb) - Max. TOP CHORD 2-3= 9-10	ORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. OP CHORD 2-3=-1204/0, 3-4=-1732/0, 4-5=-1732/0, 6-8=-1092/0, 8-9=0/336,										

BOT CHORD 21-22=0/771, 20-21=0/1597, 19-20=0/1732, 17-19=0/1529, 16-17=0/624, 15-16=-29/309, 14-15=-29/309, 13-14=-29/309

WEBS 2-22=-965/0, 2-21=0/562, 3-21=-512/0, 3-20=-39/343, 8-16=-1043/0, 8-17=0/628,

6-17=-593/0, 6-19=0/430, 10-16=-600/0, 11-13=-382/36

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

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

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.







	12		12	2-1-8 -1-8		<u>17-7-0</u> 5-5-8		
Plate Offsets (X,Y)	[9:0-3-0,0-0-0], [14:0-3-0,Edge], [15:0-1-	8,Edge], [18:0-3-0,0-0-0]	, [19:0-3-0,Edge], [2:	- 3:0-3-0,Edg	e], [32:Edg	e,0-1-8]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.67 BC 0.47 WB 0.82 Matrix-S	DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) (in (loc)).02 19).04 19).01 17	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 110 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. All bu	P No.1(flat) P No.1(flat) P No.3(flat) earings 12-1-8 except (it=lenoth) 17=Med	chanical.	BRACING- TOP CHORD BOT CHORD	Struct excep Rigid 6-0-0	ural wood s t end vertic ceiling direc oc bracing:	sheathing dir als. ctly applied o 22-23,21-22	rectly applied or 6-0-0 or 10-0-0 oc bracing, 2.	oc purlins, Except:
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 22=-286(LC 4), 23=-289(LC 4) Max Grav All reactions 250 lb or less at joint(s) 32, 23, 25, 27, 28, 29, 30, 31 except 21=2863(LC 1), 21=2863(LC 1), 17=2966(LC 4)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 16-17=-1087/0, 11-12=0/1454, 12-13=0/1455, 13-14=-2946/0, 14-15=-2946/0 BOT CHORD 22-23=-606/0, 21-22=-606/0, 20-21=0/1599, 19-20=0/1599, 18-19=0/2946, 17-18=0/2946 WEBS 11-21=-1014/0, 13-21=-3440/0, 13-19=0/1624, 14-19=-864/0, 15-17=-3494/0, 15-17=-3494/0, 15-18=-276/245, 11-23=0/739, 12-21=-274/0								
 NOTES- 1) Unbalanced floor liv 2) All plates are MT20 3) All plates are 1.5x3 4) Plates checked for a 5) Refer to girder(s) fo 6) Provide mechanical at joint 23. 7) Load case(s) 1, 2, 3 35, 36, 37, 38 has/h truss. 8) Recommend 2x6 strust Strongbacks to be a 9) CAUTION, Do not e 	 NOTES- 1) Unbalanced floor live loads have been considered for this design. 2) All plates are MT20 plates unless otherwise indicated. 3) All plates are 1.5x3 MT20 unless otherwise indicated. 4) Plates checked for a plus or minus 1 degree rotation about its center. 5) Refer to girder(s) for truss to truss connections. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 22 and 289 lb uplift at joint 23. 7) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss. 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. 							
LOAD CASE(S) Stan 1) Dead + Floor Live (t Uniform Loads (plf) Vert: 17-32 Concentrated Loads Vert: 15=-1 2) Dead: Lumber Incre Uniform Loads (plf) Vert: 17-32	dard balanced): Lumber Increase=1.00, Plate =-10, 1-12=-100, 12-35=-220, 16-35=-10 s (lb) 306 34=-1306 35=-1250 base=1.00, Plate Increase=1.00 =-10, 1-12=-100, 12-35=-220, 16-35=-10	Increase=1.00 0 0						

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

February 15,2023



Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
					•	156654235
J0722-3737	F1A	FLOOR	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:05 2023	Page 2

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-I0bLb93uBf8HXWSBkSImt?rKWDhIOjS9h4mF5xzkyAa

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (pit)
Veil. 17-32=-10, 1-12=-100, 12-33=-140, 10-33=-20 Concentrated Loads (lb)
Vert: 15=-397 34=-397 35=-341
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-20, 12-35=-220, 16-35=-100
Concentrated Loads (Ib)
Vert: 15=-1306 34=-1306 35=-1250
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Vert 17-32=-10 1-12=-100 12-35=-140 16-35=-20
Concentrated Loads (lb)
Vert: 15=-397 34=-397 35=-341
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-20, 12-35=-220, 16-35=-100
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
Iniform Loads (off)
Vert; 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Concentrated Loads (ID)
9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00. Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Unitorm Loads (pit) Vert: 17-3210 1-12100 12-35220 16-35100
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
11) 5th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Concentrated Loads (Ib)
Vell. 15=-1500 54=-1500 55=-1250 12) 6th chase Dead \pm Eloor Live (unbalanced): Lumber Increase=1.00. Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
13) 7th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Vert: 15=-1306 34=-1306 35=-1250
14) 8th chase Dead + Floor Live (unbalanced); Lumber Increase=1.00. Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
15) 9th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Vert: 17-32=-10 1-12=-100 12-35=-220 16-35=-100
Concentrated Loads (lb)
Vert: 15=-1306 34=-1306 35=-1250
16) 10th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
Concentrated Loads (Ib)
ven. 10=-1000 04=-1000 00=-1200 17) 11th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00. Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Continued on page 3



Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows		
			-	-	-		156654235
J0722-3737	F1A	FLOOR	1	1			
					Job Reference (optional)		
Comtech. Inc. Favettev	ille, NC - 28314,		8	.430 s Jan	6 2022 MiTek Industries, Inc.	Wed Feb 15 08:19:05 2023	Page 3

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:05 2023 Page 3 ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-I0bLb93uBf8HXWSBkSImt?rKWDhIOjS9h4mF5xzkyAa

LO	AD CASE(S) Standard Concentrated Loads (lb)
18)	Vert: 15=-1306 34=-1306 35=-1250 12th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
	Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
19)	13th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
	Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
20)	14th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
21)	Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250 15th cheep Dead + Elect Live (unbelanced): Lumber Increase-1.00, Plate Increase-1.00
21)	Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-15=-220, 15-35=-140, 16-35=-20
22)	Vert: 15=-397 34=-1306 35=-341 16th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
	Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-14=-140, 14-35=-220, 16-35=-100 Concentrated Loads (lb)
23)	Vert: 15=-1306 34=-397 35=-1250 17th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
	Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (Ib)
24)	18th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
	Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
25)	19th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
00)	Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
26)	Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
27)	Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250 21st chase Dead: Lumber Increase=1.00, Plate Increase=1.00
,	Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
28)	Vert: 15=-1306 34=-1306 35=-1250 22nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
	Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb)
29)	Vert: 15=-1306 34=-1306 35=-1250 23rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
	Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
30)	24th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
04)	Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
31)	Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
32)	Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250 26th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
	Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

Continued on page 4



Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
						156654235
J0722-3737	F1A	FLOOR	1	1		
					Job Reference (optional)	
Comtech. Inc. Favettev	rille, NC - 28314.		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:05 2023	Page 4

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-I0bLb93uBf8HXWSBkSImt?rKWDhIOjS9h4mF5xzkyAa

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250 33) 27th chase Dead: Lumber Increase-1 00 Pl

- 33) 27th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
 - Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb)
- Vert: 15=-1306 34=-1306 35=-1250 34) 28th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100

- Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
- 35) 29th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100
- Concentrated Loads (lb) Vert: 15=-1306 34=-1306 35=-1250
- 36) 30th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 17-32=-10, 1-12=-100, 12-35=-220, 16-35=-100 Concentrated Loads (lb)
- Vert: 15=-1306 34=-1306 35=-1250
- 37) 31st chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
 Vert: 17-32=-10, 1-12=-100, 12-15=-220, 15-35=-140, 16-35=-20
- Vert. 17-32=-10, 1-12=-100, 12-13=-220, 15-35=-140, 16-35=-20 Concentrated Loads (lb) Vert: 15=-397 34=-1306 35=-341
- 38) 32nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf) Vert: 17-32=-10, 1-12=-100, 12-14=-140, 14-35=-220, 16-35=-100 Concentrated Loads (lb)
 - Vert: 15=-1306 34=-397 35=-1250





			17-3-8						
Plate Offsets (X Y)	[1:Edge 0-1-8] [17:0-1-8 Edge] [18:0-1	-8 Edgel	17-3-8						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.47 BC 0.75 WB 0.49 Matrix-S	DEFL. in Vert(LL) -0.25 Vert(CT) -0.34 Horz(CT) 0.06	(loc) l/defl 17-18 >821 17-18 >597 14 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 89 lb	GRIP 244/190 186/179 FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural woo except end ve Rigid ceiling d	od sheathing di rticals. irectly applied	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,		
REACTIONS. (siz Max (te) 22=Mechanical, 14=Mechanical Grav 22=937(LC 1), 14=937(LC 1)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1961/0, 3-4=-3242/0, 4-5=-3242/0, 5-6=-3793/0, 6-7=-3793/0, 7-8=-3793/0, 8-10=-3242/0, 10-11=-3242/0, 11-12=-1961/0 BOT CHORD 21-22=0/1169, 19-21=0/2719, 18-19=0/3607, 17-18=0/3793, 16-17=0/3607, 15-16=0/2719, 14-15=0/1169 WEBS 2-22=-1467/0, 2-21=0/1031, 3-21=-986/0, 3-19=0/668, 12-14=-1467/0, 12-15=0/1031,									
11-1 5-18	5=-986/0, 11-16=0/668, 5-19=-466/0, 8-7 =-99/572, 6-18=-301/10	16=-466/0, 8-17=-99/572, 7	/-17=-301/10,						

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 3x6 MT20 unless otherwise indicated.

4) Plates checked for a plus or minus 1 degree rotation about its center.

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

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.







L			13-2-12					17-3-8	
			13-2-12					4-0-12	
Plate Offsets (X	,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [10:0-	1-8,Edgej, [11:0-1-8,Edgej,	[18:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0		SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code, IBC2015/TPI2014	CSI. TC 0.37 BC 0.65 WB 0.35 Matrix-S	DEFL. ir Vert(LL) -0.11 Vert(CT) -0.15 Horz(CT) 0.03	(loc) 19-20 19-20 16	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
								Wolght. 00 lb	11 - 20,01, 11,02
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS.	2x4 SP 2x4 SP 2x4 SP (size Max U Max U Max G	No.1(flat) No.1(flat) No.3(flat) a) 23=Mechanical, 13=Mechanical, plift 13=-63(LC 3) rav 23=686(LC 10), 13=180(LC 4), 1	16=0-3-8 6=1100(LC 1)	BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	iral wood end vert eiling dir	sheathing dir icals. ectly applied c	ectly applied or 6-0-0 or 6-0-0 oc bracing.	oc purlins,
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	- Max. 2-3=- 9-10= 22-23 2-23= 6-18=	Comp./Max. Ten All forces 250 (lb) 1338/0, 3-4=-1948/0, 4-5=-1992/0, 5 =0/829, 20-22=0/1819, 19-20=0/199 =-1041/0, 2-22=0/662, 3-22=-626/0, 8 =0/605, 10-16=-560/0	or less except when shown. 6=-1992/0, 6-8=-1059/0, 8-9 2, 18-19=0/1992, 17-18=0/1 -16=-1167/0, 8-17=0/740, 6-	9=0/507, 617, 16-17=0/498 17=-739/0,					

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 13.
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.







L			17-3-8			
		13-2-12		1	4-0-12	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [11:0-3-0),Edge], [12:0-3-0,Edge],	[19:0-1-8,Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.41 BC 0.66 WB 0.46 Matrix-S	DEFL. in Vert(LL) -0.10 Vert(CT) -0.13 Horz(CT) 0.03	n (loc) l/defl L/d) 20-21 >999 480 3 20-21 >999 360 3 14 n/a n/a	PLATES GRIP MT20 244/190 Weight: 99 lb FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max G	2 2400F 2.0E(flat) 2 No.1(flat) 2 No.3(flat) e) 24=Mechanical, 14=Mechanical, 17 irav 24=700(LC 10), 14=2508(LC 4), 17	'=0-3-8 =1748(LC 1)	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals. Rigid ceiling directly applie	directly applied or 6-0-0 oc purlins, d or 10-0-0 oc bracing.	
FORCES. (lb) - Max. TOP CHORD 13-1. 9-10: BOT CHORD 23-22 16-11 WEBS 2-24: 6-18:	Comp./Max. Ten All forces 250 (lb) or 4=-1282/0, 2-3=-1374/0, 3-4=-2016/0, 4- =-296/671, 10-11=-295/671, 11-12=-152 4=0/848, 21-23=0/1871, 20-21=0/2093, 7 7=0/1522, 15-16=0/1522, 14-15=0/1522 =-1064/0, 2-23=0/684, 3-23=-647/0, 3-21 =-707/0, 6-19=0/558, 4-21=-284/37, 12-1	less except when shown 5=-2093/0, 5-6=-2093/0, 2/0 19-20=0/2093, 18-19=0/1 1=0/282, 9-17=-1207/0, 9 14=-1972/0, 11-17=-1955	6-9=-1230/0, 719, 17-18=0/695, -18=0/736, /0			
NOTES- 1) Unbalanced floor liv 2) All plates are 3x4 M 3) Plates checked for a 4) Refer to girder(s) for 5) Load case(s) 1, 2, 3 they are correct for t 6) Recommend 2x6 str Strongbacks to be a 7) CAUTION, Do not e	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about in r truss to truss connections. , 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 has/h the intended use of this truss. ongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re rect truss backwards.	esign. ts center. ave been modified. Build c and fastened to each tr strained by other means.	ing designer must reviev uss with 3-10d (0.131" X	v loads to verify that 〈 3") nails.	TH CARO	
 LOAD CASE(S) Stan Dead + Floor Live (t Uniform Loads (plf) Vert: 1-10= Concentrated Loads Vert: 12=-1 Dead: Lumber Incre Uniform Loads (plf) Vert: 1-10= Concentrated Loads Vert: 12=-1 1st Dead + Floor Live 	dard balanced): Lumber Increase=1.00, Plate -100, 10-25=-220, 13-25=-100, 14-24=-1 (lb) 250 25=-1250 ase=1.00, Plate Increase=1.00 -100, 10-25=-220, 13-25=-100, 14-24=-1 (lb) 250 25=-1250 re (unbalanced): Lumber Increase=1.00,	Increase=1.00 0 0 Plate Increase=1.00		5	SEAL 036322 <i>NGINEER</i> <i>A. GILBER</i> February 15,2023	

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Lot 33 Liberty Meadows	
					1566	54238
J0722-3737	F4	FLOOR	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayett	eville, NC - 28314,		8.	430 s Jan	6 2022 MiTek Industries, Inc. Wed Feb 15 08:19:08 2023 Pag	e 2

ID:0HpugN1S_QSTWxS0z0zGz9z5iCa-jbHUDB5nUaXsO_BmPaITVeTvrRg7b9ocN2_viGzkyAX LOAD CASE(S) Standard Uniform Loads (plf) Vert: 1-10=-100, 10-25=-140, 13-25=-20, 14-24=-10 Concentrated Loads (lb) Vert: 12=-341 25=-341 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-10=-20, 10-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-10=-100, 10-25=-140, 13-25=-20, 14-24=-10 Concentrated Loads (lb) Vert: 12=-341 25=-341 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-10=-20, 10-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-5=-100, 5-10=-20, 10-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-4=-20, 4-10=-100, 10-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250 9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-10=-100, 10-12=-220, 12-25=-140, 13-25=-20, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-341 10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-10=-100, 10-11=-140, 11-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250 11) 5th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-5=-100, 5-10=-20, 10-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250 12) 6th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-4=-20, 4-10=-100, 10-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250 13) 7th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-10=-100, 10-12=-220, 12-25=-140, 13-25=-20, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-341 14) 8th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-10=-100, 10-11=-140, 11-25=-220, 13-25=-100, 14-24=-10 Concentrated Loads (lb) Vert: 12=-1250 25=-1250







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is	Design	Client: Project: Address:	Precision Custom Hom Anconia Mod.	es	Date: Input by: Job Name: Project #:	2/14/2023 David Landry Lot 33 Liberty Meadows J0722-3737	Page 2 of 1
BM1 I	Kerto-S LVI	_ 1.750"2	X 18.000" 2	2-Ply - PAS	SED	evel: Level	
	•••	•••	· · · ·	• • •	•••	· · · ·	· · · · · · · · · · · · · · · · · · ·
1 SPF		• •		· · ·	•		
			17'6	5"			3 1/2"
1			17'6	5"			1
Multi-Ply A	nalysis						
Fasten all pl	ies using 3 rows	of 10d Box nails	(.128x3") at 12" o.c	Maximum end	distance not	t to exceed 6".	
Capacity Load	(0.0 % 0.0 PLF					
Yield Limit per F	oot	245.6 PLF					
Yield Limit per F	astener 8	81.9 lb.					
Yield Mode	I	V 1 1/0"					
Edge Distance Min. End Distan	ce d	3"					
Duration Factor	, ,	1.00					

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
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 interded application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	ponding This design is valid until 11/3/2024	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Fayetteville, NC USA 228314 910-864-TRUS

		Clier	nt: F	Precision Cus	tom Homes			Da	ite:	2/14/202	3				Page 3 of 10
	Design	Proje	ect: A	Anconia Mod.				Inp	out by:	David La	ndry				
19	sDesign	Addı	ress:					Jo	b Name	e: Lot 33 Li	berty Me	adows			
								Pro	oject #:	J0722-37	737				
BM2	Kerto-S LVL	_ 1.75	50" X	14.000	0" 2-	Ply - P	AS	SEC)	Level: Level					
						-									
	2														
	MM														
	Å\Å														
	WV ·	1													
•	• •														\uparrow
														MV	
•	and the second second													IĂIĂI	1'2"
														/ W N	
		2 SPF													
		2011													,
	4'		7												3 1/2"
<i> </i>	4'		\rightarrow												
Member In	nformation						Rea	oction	s UN	PATTERN	IED lb	(Uplift)			
Туре:	Girder		Applicatio	n: F	loor		Brg	Dire	ction	Live		Dead	Snow	Wind	Const
Plies:	2		Design M	ethod: A	SD		1	Verti	cal	80		1806	1701	0	0
Moisture Cor	ndition: Dry		Building (Code: IE	3C/IRC 2015		2	Verti	cal	80		937	858	0	0
Deflection LL	.: 480		Load Sha	ring: N	0 at Chaskad										
Importance:	.: 300 Normal II		Deck:	IN	ol Checked										
Temperature	 Temp <= 100°F 														
remperature	. 1611p <= 100 1						Bea	rinas							
							Be	aring	l enati	n Dir	Can I	React D/L I	h Total	I.d. Case	I.d. Comb
								SPF	3 500"	Vert	67%	1806 / 170	1 3507		D+S
							<u> </u>	SPF	3 500"	Vert	34%	937 / 85	58 1795	-	D+S
Analysis Re	esults										-				
Analysis	Actual L	ocation Allo	wed	Capacity	Comb.	Case	1								
Moment	4138 ft-lb	1'5" 3104	49 ft-Ib	0.133 (13%) D+S	L									
Unbraced	4138 ft-lb	1'5" 3104	49 ft-Ib	0.133 (13%) D+S	L									
Shear	3296 lb	1'5 1/2" 1202	21 lb	0.274 (27%) D+S	L									
LL Defl inch	0.007 (L/6271)	1'5" 0.08	9 (L/480)	0.077 (8%)	S	L									
TL Defl inch	0.014 (L/3057)	1'5" 0.11	8 (L/360)	0.118 (12%) D+S	L									
Design No	tos						1								
1 Provide su	Inport to prevent lateral	movement an	d rotation	at the end be	earings Late	ral support	4								
may also b	be required at the interio	or bearings by	the building	ng code.	cannys. Late										
2 Fasten all	plies using 3 rows of 10	0d Box nails (.1	128x3") at	12" o.c. Max	imum end di	stance not									
3 Refer to la	6".	for fasteners re	equired fo	r specified lo	ads										
4 Girders an	e designed to be suppo	orted on the bol	ttom edge	only.											
5 Top loads	must be supported equ	ally by all plies	5.												
6 Top must I	be continuously laterally	y braced.													
7 Bottom mi 8 Lateral sle	ust be laterally braced a anderness ratio based o	at bearings. In single ply wi	dth												
	I oad Type		ation T	rih Width	Side	Dead 0.9		Live 1	Sno	w 1 15	Wind 1	6 Const	1.25 Co	mments	
	Tie In	0.0.0 to	4 0 0 1		Tan	46 000			. 0110	0.000					
	ne-m	0-0-0 10 4	4-0-0 I·	-0-0	юр	10 PSF		40 PSF		0 955	0 P3			or Load	
2	Point		1-5-0		Тор	2640 lb		0 lb)	2559 lb	0	lb	0 lb B3	Brg 2	
	Bearing Length	(0-3-8												
	Self Weight					11 PLF									
									r	Max 1			0	100	
Notes		chemicals	nstallation	,	For fla pondin	at roofs provide p g	proper dr	ainage to p	prevent	Moton Moton	er into		1001 S.	r, mc. Reilly Road, Suite ille: NC	#639
structural adequacy	of this component based on the	ne 1. LVL beams mi	ust not be cut	or drilled						301 Merritt 7	Building	2nd Floor	USA 28314		
responsibility of the ensure the compo	customer and/or the contractor to onent suitability of the intende	to regarding in	manufacturer's nstallation r	equirements, mu	nation ulti-ply					Norwalk, CT (800) 622-58	06851 350		910-864	TRUS	
application, and to ve	erify the dimensions and loads.	approvals 3. Damaged Res	ams must not h	e used	5546					www.metsav	vood.com	/us			
1. Dry service cond	litions, unless noted otherwise	 Design assum Provide latera 	nes top edge is al support at	laterally restrained bearing points to	l avoid									COMT	есн
 LVL not to be tre 	saled with fire retardant or corrosiv	lateral displac	ement and rot	ation	This	design is valid	l until 1	1/3/2024							



Multi-Ply Analysis

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

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

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	Handling & Installation 1. UK beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	ponding This design is valid until 11/3/2024	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Fajetteville, NC USA 28314 910-864-TRUS

		Client:	Precision	Custom Homes	5		Date:	2/14/20)23				Page 5 of 1
	_ •	Project	Anconia I	/lod.			Input b	oy: David I	andry				
is	Design	Addres	s:				Job Na	ame: Lot 33	Liberty M	eadows			
							Projec	t#: J0722-	3737				
BM3	Kerto-S LV	L 1.75	50" X 9.	250" 2	2-Ply -	PAS	SSED	Level: Lev	el				
1		2	3			4							
V		V	V			V						M	1 1
												IXIX	0.1
	a state			alt in frage	1 the	-						/V	91
						2 51]				<u> </u>	
/	•		5'10"			2 01	·	r					3 1/2"
<u> </u>			5'10"				,	ł				I	10 112
I			010					1					
Member In	formation					Rea	ctions U	JNPATTER	NED Ib	(Uplift)			
Туре:	Girder	Ap	plication:	Floor		Brg	Directio	n Liv	e	Dead	Snow	Wind	Const
Plies:	2	De	sign Method:	ASD		1	Vertical		0	3107	3086	0	C
Moisture Con	dition: Dry	Bu	Iding Code:	IBC/IRC 2015	5	2	Vertical		0	2835	2814	0	C
Deflection LL:	480	Lo	ad Sharing:	No Not Checked									
Deflection TL:	240 Normal II	De	CK:	Not Checked									
Temperature	Temp <= 100°F												
remperature.						Bea	rings						
						Bea	aring Ler	ngth Dir.	Cap.	React D/L I	b Total	Ld. Case	Ld. Comb.
						1 -	SPF 5.00	00" Vert	83%	3107 / 308	6 6193	L	D+S
						2-	SPF 5.00	00" Vert	76%	2835 / 281	4 5649	L	D+S
Analysis Re	sults												
Analysis	Actual Lo	ocation Allowe	d Capac	ty Comb.	Case								
Moment	9142 ft-lb 1	'10 3/4" 14423	t-lb 0.634 (63%) D+S	L								
Unbraced	9142 ft-lb 1	'10 3/4" 11505 1	t-lb 0.795 (79%) D+S	L								
Shear	5936 lb	1'2 1/4" 7943 lb	0.747 (75%) D+S	L								
LL Defl inch	0.058 (L/1065) 2	2'8 7/16" 0.128 (L/480) 0.451 (4	45%) S	L								
IL Defl inch	0.116 (L/531) 2	28 7/16" 0.256 (L/240) 0.452 (·	45%) D+S	L	┥							
1 Provide su	es	movement and re	otation at the er	id bearings. Lat	eral support	4							
may also b	e required at the interio	or bearings by the	building code.	5									
2 Girders are 3 Multiple plie	designed to be suppo	rted on the bottor	n edge only. nufacturer's dei	ails									
4 Top loads r	nust be supported equa	ally by all plies.											
5 Top must b	e laterally braced at en	id bearings.											
6 Bottom mu 7 Lateral sler	st be laterally braced a iderness ratio based o	t end bearings. n single plv width											
ID	Load Type	Locatio	n Trib Widt	n Side	Dead 0.9		Live 1 S	Snow 1.15	Wind 1	.6 Const.	1.25 Co	mments	
1	Point	0-2-1	12	Тор	127 lb		0 lb	127 lb	0	lb	0 lb A2		
	Bearing Length	0-3	-8										
2	Point	1-10-1	12	Тор	3363 lb		0 lb	3363 lb	0	lb	0 lb A1	-GR	
	Bearing Length	0-3	-8										
3	Point	3-2	-4	Тор	1205 lb		0 lb	1205 lb	0	lb	0 lb A1		
	Bearing Length	0-3	-8										
Continued on pa	ige 2												
								Manufact	irer Info		Comtech	, Inc.	
Notes Calculated Structured	Designs is responsible only of the	chemicals e Handling & Inst	allation	6. For 1 pond	llat roofs provide p ing	proper drai	nage to prever	Metsä Woo	od		1001 S. Fayettev	Reilly Road, Suite #	639
structural adequacy design criteria and	of this component based on the loadings shown. It is the	e 1. LVL beams must r e 2. Refer to man	ot be cut or drilled Ifacturer's product	information				301 Merrit	7 Building	, 2nd Floor	USA 28314	TRUE	
responsibility of the o ensure the comport application and to your	customer and/or the contractor to ent suitability of the intender ify the dimensions and loads	o regarding insta d fastening details,	lation requirements, beam strength values	multi-ply , and code				(800) 622-	5850		910-864-	IKUS	
Lumber	., are universions and loads.	approvals 3. Damaged Beams 4. Design assumes to	must not be used	rained				www.mets	awood.com	i/US			
 Dry service condition LVL not to be treat 	ons, unless noted otherwise ted with fire retardant or corrosive	e 5. Provide lateral su lateral displaceme	pport at bearing poir nt and rotation	ts to avoid This	s design is valid	d until 11	/3/2024					:omt	есн
				1113		a second of the		1					

Project #: JU/22-3/3/	
BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	M. 1
	9 1/4
5'10"	3 1/2"
1 5'10" 1	
ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 4 Point 5-2-4 Top 1205 lb 0 lb 1205 lb 0 lb 0 lb 0 lb Bearing Length 0-3-8 Self Weight 7 PLF	Comments A1
Notes chemicals 6. For flat roofs provide proper drainage to provent ponding Manufacturer Info Co. 100 Calculated Structured Designs is responsible only of the structural adequacy of this component based on the responsibility of the customer and/or the contractor to ensure the component, suitability of the intended 1. VL beams must not be cut or drilled 6. For flat roofs provide proper drainage to provent ponding Metsä Wood 100 1. VL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code 0. Sorte and code 0. Metsä Wood 128 0. (800) 622-5850 0. 0. 0. 0. 0. 0.	omtech, Inc. 101 S. Reilly Road, Suite #639 syetterville, NC SA 1314 0-864-TRUS
application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrorsive 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation This design is valid until 11/3/2024	соттесн

CSD DESIGN BUILD



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isDesign	Client: Project: Address:	Precision Custom Homes Anconia Mod.	Date: 2/14/2023 Input by: David Landry Job Name: Lot 33 Liberty Meadow Project #: J0722-3737	Page 8 of 10 s
BM4 Kerto-S	LVL 1.750"	X 14.000" 2-Ply -	PASSED	
1 SPF	· · · ·	· · · · · ·		
<u>/</u>		14'10 1/2"		3 1/2"
<u> </u>		14'10 1/2"		
Japatry Joad (field Limit per Foot (field Limit per Fastener (field Mode Edge Distance Jun. End Distance Load Combination Duration Factor	334.0 PLF 376.5 PLF 94.1 lb. IV 1 1/2" 3" D+S 1.15			

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
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. Lumbor 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	ponding This design is valid until 11/3/2024	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Fayetteville, NC USA 28314 910-864-TRUS



-	Client: Precision Custom Project: Anconia Mod.	I Homes	Date: 2/14/2023 nput by: David Landry	Page 10 of 10
isDesign	Address:		lob Name: Lot 33 Liberty Meadows	
			Project #: J0722-3737	
GDH Kerto-S LVL	1.750° X 20.000°	2-PIy - PASSE		
				τ τ 1'8"
		• • •		<u> </u> ★ Ш ↓ _
			2 SPF End Grain	
]	16	'10"		ິ່ງ
1	16	'10"		
Multi Dhy Analysis				
Fasten all plies using 3 rows of	10d Box nails (128x3") at 12	" o.c. Maximum end dist	ance not to exceed 6"	
Capacity 0.0	1%			
Load 0.0 Yield Limit per Foot 245	PLF 56 PLF			
Yield Limit per Fastener 81.9	9 lb.			
Yield Mode IV				
Edge Distance 1 1/	/2"			
Min. End Distance 3"				
Duration Factor 1.00	0			
			Manufacturer Info	Comtech. Inc.
Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	chemicals Handling & Installation	 For flat roofs provide proper drainage t ponding 	Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC USA
design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended	 Evc beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply featomic details have stearth when an interply 		Norwalk, CT 06851 (800) 622-5850	28314 910-864-TRUS
application, and to verify the dimensions and loads.	approvals Damaged Beams must not be used Design assumes ton edge is laterally restrained		www.metsawood.com/us	
Dry service conditions, unless noted otherwise LVL not to be treated with fire retardant or corrosive	 Evaluation to be one of the control of	This design is valid until 11/3/20	24	соттесн