

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21040028-C 72 Carolina Lakes-2nd Floor-Sterling

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I46292805 thru I46292817

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



May 26,2021

Sevier, Scott

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.

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F200	Floor Supported Gable	1	1	Job Reference (optional)	146292805

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:16 ID:3SLpS8ePoNMNMsE2DfgdmazLZWk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:57.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	30	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 147 lb	FT = 20%F, 11%E
LUMBER			TOP CHORD	1-58=-91/0, 29-	30=-91/0, 1	-2=-14/0,		7) Red	commen	d 2x6	strongbacks, on	edge, spaced at
TOP CHORD	2x4 SP No.2(flat)			2-3=-14/0, 3-4=	-14/0, 4-5=	-14/0, 5-6=-14	4/0,	10-	00-00 00	and f	astened to each	truss with 3-10d
BOT CHORD	2x4 SP No.2(flat)			6-7=-14/0, 7-8=	-14/0, 8-9=	-14/0, 9-10=-	14/0,	(0.1	31" X 3) nails	Strongbacks to	be attached to walls
WEBS	2x4 SP No.3(flat)			10-11=-14/0, 11	1-13=-14/0, 5 16- 14/0	13-14=-14/0,		att	neir oute	er enas	s or restrained by	other means.
OTHERS	2x4 SP No.3(flat)			14-15=-14/0, 15	2 - 10 = -14/0,	10 - 17 = -14/0,		LOAD	CASE(S) Sta	ndard	
BRACING				17 - 18 = -14/0, 18	3-19=-14/0, 1.22-14/0	19-20=-14/0,		1) De	ead + Flo	oor Liv	e (balanced): Lu	mber Increase=1.00,
TOP CHORD	Structural wood s	heathing directly applie	ed or	20-21=-14/0, 21	1-22=-14/0, 5-2614/0	22-23=-14/0,		Pla	ate Incre	ease=1	.00	
	6-0-0 oc purlins,	except end verticals.		27-28-14/0, 20	3-20=-14/0,	20-27 =- 14/0,		Ur	niform Lo	bads (I	b/ft)	
BOT CHORD	Rigid ceiling dire	tly applied or 10-0-0 o		57 59_0/14 56	57_0/14 F	5 56-0/14			Vert: 30	-58=-1	10, 1-29=-180	
	bracing.		BOT CHORD	54-55-0/14, 50	-57=0/14, 5	3-50=0/14, 1-52=0/14						
REACTIONS	(size) 30=33-	11-0, 31=33-11-0,		50-51=0/14 49	-50=0/14 4	8-49=0/14,						
	32=33-	11-0, 33=33-11-0,		47-48=0/14 46	-47=0/14 4	5-46=0/14						
	34=33	11-0, 35=33-11-0,		44-45=0/14, 43	-44=0/14.4	2-43=0/14.						
	36=33-	11-0, 37=33-11-0,		40-42=0/14, 39	-40=0/14.3	8-39=0/14.						
	38=33	11-0, 39=33-11-0,		37-38=0/14, 36	-37=0/14, 3	5-36=0/14,						
	40=33-	11-0, 42=33-11-0,		34-35=0/14, 33	-34=0/14, 3	2-33=0/14,						
	43=33	11-0, 44=33-11-0,		31-32=0/14, 30	-31=0/14							
	45=33	11-0, 46=33-11-0,	WEBS	2-57=-235/0, 3-	56=-242/0,	4-55=-240/0,						
	47=33-	11-0, 48=33-11-0,		5-54=-240/0, 6-	52=-240/0,	7-51=-240/0,						
	49=33	11-0, 50=33-11-0,		8-50=-240/0, 9-	49=-240/0,	10-48=-240/0),					
	51=55	11-0, 52=55-11-0,		11-47=-238/0, 1	13-46=-246	/0, 14-45=-21	3/0,					
	56-33	11-0, 55=55-11-0,		28-31=-235/0, 2	27-32=-242	/0, 26-33=-24	0/0,					
	58-33	11-0, 37=33-11-0,		25-34=-240/0, 2	23-35=-240	/0, 22-36=-24	0/0,					11.
	May Cray 20_06			21-37=-240/0, 2	20-38=-240	/0, 19-39=-24	0/0,					in the second second
	101aX Grav 30=90	(LC 1), 31=240 (LC 1), 5 (LC 1) 33=253 (LC 1	,	18-40=-238/0, 1	17-42=-246	/0, 16-43=-21	3/0,				IN THUA	ROUL
	34=25	3 (LC 1), 35=253 (LC 1),	15-44=-149/0					_	1.	of week	10. 11/2
	36=25	3 (LC 1), 37=253 (LC 1	NOTES						5	An	U. PESO	Stor book
	38=25	3 (LC 1), 39=254 (LC 1), 1) All plates	are 1.5x3 MT20 u	nless other	wise indicated	d.		~	go	AND A	June
	40=25	2 (LC 1), 42=260 (LC 1). 2) Gable red	uires continuous t	pottom chor	d bearing.				6	14	- 11 - 1
	43=22	5 (LC 1), 44=157 (LC 1). 3) Truss to b	be fully sheathed fr	rom one fac	e or securely					SEA	1 : =
	45=22	5 (LC 1), 46=260 (LC 1), braced ag	gainst lateral move	ment (i.e. c	liagonal web)			=		JLA	·
	47=25	2 (LC 1), 48=254 (LC 1), 4) Gable stu	ds spaced at 1-4-0) oc.				=		0449	25 : -
	49=25	3 (LC 1), 50=253 (LC 1), 5) This truss	is designed in acc	cordance w	ith the 2018			-			1 3
	51=25	3 (LC 1), 52=253 (LC 1), Internatio	nal Residential Co	de sections	s R502.11.1 a	nd			-	A	1 A A A A A A A A A A A A A A A A A A A
	54=25	3 (LC 1), 55=253 (LC 1), R802.10.	2 and referenced s	standard AN	NSI/TPI 1.				- 0	- SNOW	EFR. A.S
	56=25	5 (LC 1), 57=248 (LC 1), 6) Load cas	e(s) 1 has/have be	en modifie	d. Building				11	COUGIN	E. MYN
	58=96	(LC 1)	designer	must review loads	to verity the	at they are				1	I. IT M	GEVIN
FORCES	(lb) - Maximum C	ompression/Maximum	correct to	r the intended use	of this trus	s.					WI.	
	Tension										2000 M	1111
											Ma	y 26,2021

A MI Tek Affiliate B18 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F201	Floor	5	1	Job Reference (optional)	146292806

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:19 ID:CsxXE8Pk32sCnjSHqLIIN1zd4sn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:59.4

Plate Offsets (2	X, Y): [4:0-1-8,Edge],	[5:0-1-8,Edge], [21:0	0-1-8,Edg	e], [25:0-1-8,Ec	lge], [26:0-1-8,Edg	e]								
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.78 0.86 0.88	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.30 -0.39 -0.06	(loc) 24-25 24-25 29	l/defl >787 >592 n/a	L/d 480 360 n/a	PLATES MT20 MT20HS Weight: 179 lb	GRIP 244/190 187/143 FT = 20%F, 1	1%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP 2400F 2.0E(SP No.2(flat), 12-7:2 2x4 SP No.1(flat) *E: No.2(flat), 30-35:2x4 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 23=0-3-8, Max Grav 23=1221 (35=2178 (flat) *Except* 21-17: x4 SP No.1(flat) xcept* 27-30:2x4 SP SP 2400F 2.0E(flat) athing directly applie cept end verticals. applied or 6-0-0 oc 29=0-3-8, 35=0-3-8 (LC 4), 29=2202 (LC (LC 5)	N(2x4 1) 2x3 1) 3) 3) 4) 4) 6) 6) 5 3),	OTES Unbalanced this design. All plates are All plates are This truss is International R802.10.2 ar Load case(s) designer mus correct for th Recommend 10-00-00 oc (0.131" X 3") at their outer	floor live loads hav MT20 plates unle 1.5x3 MT20 unles designed in accorc Residential Code of referenced stan 1 has/have been st review loads to v e intended use of t 2x6 strongbacks, and fastened to ea nails. Strongback	e been ss other lance w sections dard AN modifier verify tha his truss on edge ch truss s to be l by other	considered fo wise indicated wise indicated th the 2018 R502.11.1 a ISI/TPI 1. d. Building at they are s. a, spaced at with 3-10d attached to w r means.	or d. 1. nd alls						
FORCES TOP CHORD	(lb) - Maximum Com Tension 21-22=-22/0, 1-35= 2-3=-1548/0, 3-4=-19 5-6=-1503/644, 6-8= 9-10=0/2356, 10-11= 13-14=-3217/0, 16-1 15-16=-3217/0, 16-1 8-19=-2705/0, 19-2	pression/Maximum 1500/0, 1-2=-77/0, 548/0, 4-5=-1793/31 -:1503/644, 8-9=0/23 =-1942/0, 11-13=-19 5=-3217/0, 8=-2795/0, 0-0/135_20-21=0/1	7) 8) 5, 356, ^{42/0,} 9) 35 L0	CAUTION, L Hanger(s) or provided suff Ib down at 3 chord. The c (s) is the resp In the LOAD of the truss a	o not erect truss b other connection of icient to support of 4-8-12, and 1340 l Jesign/selection of ponsibility of others CASE(S) section, ire noted as front (I Standard	ackward device(s oncentra b down such cc s. loads a F) or ba	is.) shall be ated load(s) 11 at 0-2-4 on to nnection devi oplied to the fa ck (B).	60 op ice ace				WITH CA	BO	
BOT CHORD	34-35=0/552, 33-34 32-33=-315/1793, 31 29-31=-1214/562, 28 26-28=0/2914, 25-26 20-23=-235/0, 15-25 14-26=-553/0, 9-29= 19-23=-1911/0, 19-2 16-24=-531/0, 16-25 10-29=-2484/0, 10-2 13-28=-1149/0, 13-2 5-32=0/357, 4-34=-2 2-34=0/1101, 2-35=- 8-31=0/1297, 6-31=-	-315/1793, 1-32=-315/1793, 3-29=-413/333, 3=0/3217, 24-25=0/3 3=0/0 i=-198/278, -280/0, 21-23=-220/ 4=0/1260, 18-24=-2 i=-427/291, 8=0/1858, 11-28=-2 6=0/836, 4-33=-183 70/411, 3-34=-349/ 830/0, 8-29=-1964/(90/221, 5-31=-1057)	1) 3272, '0, 55/0, '55/0, '77/0, '0, 0, 0, '0	Dead + Flor Plate Incree Uniform Loo Vert: 22- Concentrate Vert: 21=	or Live (balanced): ase=1.00 ads (lb/ft) 35=-10, 1-21=-100 ed Loads (lb) 160 (F), 1=-1500	Lumbe (F=-134	· Increase=1.0	00,		and the second second		SEA 0449	25 SEVIEN	Amminin

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Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F202	Floor	1	1	Job Reference (optional)	146292807

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:20 ID:CsxXE8Pk32sCnjSHqLIIN1zd4sn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:59.4

Plate Offsets (X, Y): [4:0-1-8,Edge],	[8:0-3-0,Edge], [20:0	-1-8,Edge	e], [24:0-1-8,Ec	lge], [25:0-1-8,Edg	e], [31:0)-1-8,Edge], [3	34:Edge	e,0-1-8]					
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-MSH	0.84 0.89 0.95	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.36 0.05	(loc) 23-24 23-24 22	l/defl >805 >610 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 179 lb	GRIP 244/190 FT = 20%F, 1	11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD	2x4 SP No.1(flat) *E: No.2(flat), 11-16:2x4 2x4 SP No.1(flat) *E: No.2(flat) 2x4 SP No.3(flat) *E: (flat) 2x4 SP No.3(flat) *E: (flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 22=0-3-8, Max Grav 22=1254 (34=2217 ((lb) - Maximum Com Tension 1-34=-1604/0, 20-21 2-3=-2002/0, 3-4=-20 5-7=-1996/910, 7-8= 9-10=-1424/306, 10- 12-13=-2856/0, 13-1 14-15=-2856/0, 13-1 14-15=-2856/0, 18-1 3-34=0/1374, 32-33 31-32=-54/1996, 29- 28-29=-2288/0, 27-2 24-25=0/2856, 23-24 21-22=0/0	xcept* 16-20:2x4 SP SP 2400F 2.0E(flat) xcept* 26-30:2x4 SP xcept* 29-8:2x4 SP N athing directly applied cept end verticals. applied or 6-0-0 oc 28=1-3-8, 34=0-3-8 (LC 4), 28=2189 (LC (LC 5) pression/Maximum =-20/0, 1-2=-83/0, 002/0, 4-5=-1996/54, -474/910, 8-9=0/28 12=-1424/306, 4=-2856/0, 7=-2590/0, 9=0/163, 19-20=0/16 3=-54/1996, 31=-404/1558, 8=-925/0, 25-27=0/2 4=0/2974, 22-23=0/11	W lo.2 d or 1) 2) 3), 3) 4) 8, 5) 33, 6) 7) 487, 542, 8)	EBS	Matrix-MSH 3-28=-1098/0, 13-2 14-24=-109/348, 15 18-22=-1812/0, 18- 15-23=-429/13, 15- 20-22=-266/0, 9-28 10-27=-288/0, 12-2 4-32=-282/0, 5-31= 2-33=-2/694, 3-33= 3-29=0/2129, 7-29= 5-31=0/874 floor live loads hav a 1.5x3 MT20 unless designed in accord Residential Code s nd referenced stand b 1 has/have been to st review loads to v e intended use of t 12x6 strongbacks, and fastened to ea nails. Strongbacks, on the connection of icient to support cod 4-8-12 on top chord CASE(S) section	5=-621, -22=-22 23=0/1 23=0/1 224=-53 =-1734, 7=-128- -338/0, -338/0, -352/0, -286/0, e been s othen ance w sections dard AN modified erify tha is truss on edge ch truss s to be by othe ackward levice(s) oncentra d. The the resp	0, 76/0, 76/0, 165, 17-23=-2 4/154, 10, 9-27=0/19; 4/0, 12-25=0/; 2-34=-1422/0 6-29=-1384/(considered fc wise indicated ith the 2018 R502,11.1 a ISI/TPI 1. 3. Building at they are s. s, spaced at s with 3-10d b. Building at they are s. b, spaced at s with 3-10d they are s. b) shall be attached to w er means. ts.) shall be ted load(s) 1: design/select ponsibility of	253/0, 89, 945,), 2, 0, or 1. nd alls 60 ion		Vert: 1=	-1500,	20=-160 (F) 20=-160 (F) H CA	ROL	172E
			LC 1)	of the truss a DAD CASE(S) Dead + Floo Plate Increa Uniform Loa	are noted as front (f Standard or Live (balanced): ase=1.00 ads (lb/ft)	-) or ba	ck (B). r Increase=1.	00,		1111			ERIER	nnn.

Vert: 21-34=-10, 1-19=-100, 19-20=-180 (F=-80) Concentrated Loads (Ib)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F203	Floor	2	1	Job Reference (optional)	146292808

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:20 ID:ldrtcvl4Tglfo3U_8GZaujzd4nm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.8

Plate Offsets (X, Y): [4:0-1-8,Edge],	[5:0-1-8,Edge], [13:0)-1-8,Edge	e], [18:0-1-8,Ec	lge], [19:Edge,0-1-	8], [21:0)-1-8,Edge], [3	31:Edge	e,0-1-8],	32:0-1-8	3,0-1-8]		
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.76 0.93 0.83	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.27 -0.37 0.05	(loc) 20-21 20-21 19	l/defl >818 >597 n/a	L/d 480 360 n/a	PLATES MT20 MT20HS Weight: 171 lb	GRIP 244/190 187/143 FT = 20%F, 1	1%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) *E3 2400F 2.0E(flat), 11- 2x4 SP No.1(flat) *E3 2400F 2.0E(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 19=0-3-8, Max Grav 19=3044 (31=2216 (xcept* 18-11:2x4 SP 6:2x4 SP No.1(flat) xcept* 19-23:2x4 SP athing directly applied cept end verticals. applied or 6-0-0 oc 25=0-3-8, 31=0-3-8 (LC 4), 25=2208 (LC (L C 3)	1) 2) 3) 4) 5) d or 6) 1), 7)	Unbalanced this design. All plates are All plates are This truss is International R802.10.2 at Load case(s designer mu correct for th Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, E	floor live loads hav MT20 plates unles as5 MT20 unless designed in accord Residential Code s and referenced stand of referenced stand of treview loads to v e intended use of t 2x6 strongbacks, and fastened to ea nails. Strongback ends or restrained to not erect truss bac	e been otherwi lance w sections dard AN modified erify tha his truss on edge ch truss s to be by othe ackward	considered for wise indicates se indicated. ith the 2018 r R502.11.1 a SIJ/TPI 1. J. Building at they are s. s, spaced at s with 3-10d attached to w er means. ds.	or d. nd alls						
FORCES TOP CHORD	(lb) - Maximum Com Tension 18-19=-2272/0, 1-31 2-3=-1998/0, 3-4=-19 5-7=-1518/376, 7-8= 9-10=0/2216, 10-12= 12-13=-2081/110, 13 14-15=-3092/0, 15-1 16-17=-2906/0, 17-1	 =-1604/0, 1-2=-83/0, 998/0, 4-5=-1991/19, 1518/376, 8-9=0/22 =-2081/110, 3-14=-3092/0, 6=-2906/0, 8=-234/0 	8) 16, <u>9)</u> LC 1)	Hanger(s) or provided suff lb down at 3 chord. The o (s) is the res In the LOAD of the truss a DAD CASE(S) Dead + Flor	other connection of icient to support or 3-8-0, and 1340 lb Jesign/selection of ponsibility of others CASE(S) section, are noted as front (I Standard or Live (balanced):	levice(s oncentra down a such co s. loads a -) or ba Lumbe) shall be ated load(s) 2 t 0-2-4 on top nnection devi oplied to the f ck (B). r Increase=1.0	160 p ice ace 00,				WH CA	BO	
BOT CHORD	30-31=0/1373, 29-30 28-29=-19/1991, 27- 25-27=-887/422, 24- 22-24=0/3092, 21-22 19-20=0/1892	0=-19/1991, .28=-19/1991, .25=-657/612, 2=0/3092, 20-21=0/32	234,	Plate Increa Uniform Los Vert: 19- Concentrate Vert: 18=	ase=1.00 ads (lb/ft) 31=-10, 1-18=-100 ed Loads (lb) 2160 (F), 1=-1500) (F=-13	340)				S	OR LEESS	Servae	A
WEBS	14-21=-79/332, 13-2 17-20=0/1122, 16-20 15-21=-589/107, 9-2 10-25=-2408/0, 10-2 12-24=-247/57, 13-2 5-28=0/196, 2-31=-1 3-30=-323/0, 4-30=-6 8-27=0/1379, 7-27=-	2=0/202, 17-19=-182 0=-247/0, 15-20=-362 5=-277/0, 4=0/1736, 420/0, 2-30=0/691, 66/510, 8-25=-2045/(211/42, 5-27=-923/0	25/0, 2/78, 3/0, 0,							THURSE.		0449	SEVIEN	Million .

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Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F204	Floor Girder	1	1	Job Reference (optional)	146292809

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:21 ID:nd_YXhwiEfrG12TzBBUm?hzd4my-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:57.8

Plate Offsets ((X, Y): [4:0-1-8,Edge],	[5:0-1-8,Edge], [11:	0-3-0,Edge	e], [19:0-1-8,Ed	lge], [20:Edge,0-1-	8], [25:0)-3-0,Edge], [[34:0-1-8	,0-1-8]					
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.95 0.99 0.95	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.39 0.06	(loc) 21-22 21-22 20	l/defl >843 >560 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 181 lb	GRIP 187/143 244/190 FT = 20%F	, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.1(flat) *E: SP 2400F 2.0E(flat) 2x4 SP No.1(flat) *E: No.2(flat), 28-32:2x4 2x4 SP No.3(flat) *E: No.2(flat) 2x4 SP No.3(flat) Structural wood shea	xcept* 15-19,15-7:2; xcept* 23-28:2x4 SF SP 2400F 2.0E(flat xcept* 25-10:2x4 SF athing directly applie	W x4 :) ed or N (EBS 1	11-25=-1659/0, 10- 10-25=-0/2942, 18- 18-21=-0/1997, 17- 16-21=-224/253, 11 14-22=-237/0, 13-2 12-24=-208/0, 11-2 5-29=0/283, 2-32= 3-31=-389/0, 4-31= 3-27=0/1572, 6-27: floor live loads have	-26=-214 20=-263 21=-736 6-22=-86 22=0/15 24=0/172 -1235/5 =0/814, 8 =-176/7 ve been	40/0, 66/0, %0, 64/0, 14, 13-24=-2 23, 4-30=-44 3, 2-31=-176, 8-26=-2257/0 5, 5-27=-120; considered fi	122/0, 9/0, /516,), 8/0 or	1) De Pla Ur Co	ead + Flo ate Incre hiform Lo Vert: 20 oncentra Vert: 1= 17=-220	oor Liv ease=1 bads (II -32=-1 ted Lo -1500 0 (F), 3	e (balanced): Lu .00 b/ft) 0, 1-19=-100 ads (lb) (F=-1340), 19=- 5=-570 (F), 36=-	mber Increase 2160 (F=-200(·193 (F)	≥=1.00,)),
BOT CHORD	5-7-10 0c purins, e) Rigid ceiling directly bracing, Except: 10-0-0 oc bracing: 2: (size) 20=0-3-8, Max Grav 20=3393 (32=2138 (xcept end verticals. applied or 6-0-0 oc 2-24,21-22,20-21. 26=0-3-8, 32=0-3-8 (LC 7), 26=3069 (LC (L C 3)	2) 3) 8 2 8), 4)	this design. All plates are This truss is International R802.10.2 ar Load case(s)	MT20 plates unle designed in accord Residential Code nd referenced stan 1 has/have been	ss other dance w sections dard AN modified	wise indicate ith the 2018 R502.11.1 a ISI/TPI 1. d. Building	ed. and						
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-32=-1604/0, 19-20 2-3=-1671/179, 3-4= 4-5=-1528/510, 5-6= 6-8=-869/1071, 8-10 11-12=-846/336, 12- 13-14=-3863/0, 14-1 16-17=-4436/0, 17-1	pression/Maximum pression/Maximum 1671/179, 869/1071, =0/3452, 10-11=0/1 13=-842/337, 6=-3863/0, 8=-4436/0, 18-19=-), 5) 045, 6) 7) 235/0	designer mus correct for th Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, D Use MiTek M nails into Tru	st review loads to v e intended use of t 2x6 strongbacks, and fastened to ea nails. Strongback ends or restrainec o not erect truss b ISH422 (With 10d ss) or equivalent s	verify that this trust on edge ach trust to be d by othe ackward nails int paced a	at they are s. e, spaced at s with 3-10d attached to w er means. ds. o Girder & 6- at 10-10-8 oc	valls 10d			d'	ORTH CA	ROLIN	ík.
BOT CHORD	31-32=-20/1205, 30- 29-30=-510/1528, 27 26-27=-1741/0, 25-2 24-25=-1045/0, 22-2 21-22=0/4565, 20-21	31=-510/1528, 7-29=-510/1528, 16=-3452/0, 14=0/2573, 1=0/2629	8) 9) 10 LC	max. starting connect truss Fill all nail ho Hanger(s) or provided suff Ib down at 0 chord. The c (s) is the resp 0 In the LOAD of the truss a DAD CASE(S)	at 16-7-12 from the s(es) to front face of les where hanger other connection of cicient to support cr-2-4, and 2000 be lesign/selection of ponsibility of others: CASE(S) section, re noted as front (Standard	e lett er of top ch is in cor device(s oncentra down at such cc s. loads a F) or ba	na to 28-10-4 hord. ttact with lum s) shall be ated load(s) 1 33-8-0 on to nnection dev pplied to the ck (B).	to Iber. 340 pp vice face		Annual Contraction		SEA 0449	EFR. 16 SEVIE SEVIE 25	Provinining and a second

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F205	Floor	1	1	Job Reference (optional)	146292810

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:21 ID: kKf07 ErFsDMh2n7qFg1ubXzd4yg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff



6-2-8	7-2-8 8-2-8	15-6-0	
6-2-8	1-0-0 1-0-0	7-3-8	

Scale = 1:35.2

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [14:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00		TC	0.73	Vert(LL)	-0.18	10-11	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00		BC	0.87	Vert(CT)	-0.24	10-11	>777	360			
BCLL	0.0	Rep Stress Incr	NO		WB	0.48	Horz(CT)	0.04	9	n/a	n/a			
BCDL	5.0	Code	IRC2018/T	PI2014	Matrix-MSH							Weight: 80 lb	FT = 20%F, 1	1%E
LUMBER			6) H	langer(s) or	other connection d	levice(s) shall be							
TOP CHORE	2x4 SP No.2(flat)		p	provided suffi	cient to support co	ncentra	ited load(s) 1	60						
BOT CHORI	2x4 SP No.1(flat)		lk	b down at 0-	2-4 on top chord.	The de	sign/selectio	n of						
WEBS	2x4 SP No.3(flat)		S	such connect	ion device(s) is the	e respor	nsibility of oth	iers.						
OTHERS	2x4 SP No.3(flat)		7) li	n the LOAD	CASE(S) section, I	oads ap	plied to the	face						
BRACING			0	of the truss a	re noted as front (F	-) or ba	ck (B).							
TOP CHORE	O Structural wood shear	athing directly applie	d or LOAI	D CASE(S)	Standard									
	6-0-0 oc purlins, exc	cept end verticals.	1)	Dead + Floo	or Live (balanced):	Lumber	Increase=1.	00,						
BOT CHORI	D Rigid ceiling directly bracing	applied or 10-0-0 oc	>	Plate Increa	se=1.00 ids (lb/ft)									
		4.0.2.9		Vert: 9-14	l=-10. 1-8=-100									
REACTION	Max Grav 9=845 (LC	C 1), 14=2326 (LC 1))	Concentrate	ed Loads (lb)									
FORCES	(lb) - Maximum Com Tension	pression/Maximum		vert: 1=-1	1500 (F=-160)									
TOP CHORI	D 1-14=-1603/0, 8-9=- 2-3=-2459/0, 3-4=-24 5-6=-2449/0, 6-7=-24	106/0, 1-2=-83/0, 459/0, 4-5=-2644/0, 449/0 7-8=0/0												
BOT CHORI	0 0 0 2 110/0, 0 1 2 13-14=0/1611, 12-13 10-11=0/2644, 9-10=	3=0/2644, 11-12=0/2 =0/1560	2644,											
WEBS	4-12=-122/186, 5-11 2-13=0/937, 3-13=-2 7-9=-1718/0, 7-10=0 5-10=-506/62	=-121/72, 2-14=-168 216/124, 4-13=-629/8 9/983, 6-10=-261/1,	32/0, 38,										11111	
NOTES	5-10500/02											"TH CA	Roille	
1) Unbalan	ced floor live loads have	been considered fo	r								N.	ORIEESS	On N's	5-
 2) This trus 	yn. s is designed in accorda	ance with the 2018								~	UZ	ept -	Some	à
Internation R802 10	onal Residential Code se	ections R502.11.1 ar ard ANSI/TPL1	nd							E		SEA		Ē
 Load case 	se(s) 1 has/have been m	odified. Building								=		JLA	- :	=
designer	must review loads to ve	erify that they are										0449	25 :	- 5
correct f	or the intended use of th	is truss.								-	8			-
4) Recomm	end 2x6 strongbacks, or	n edge, spaced at									-		ain	2
10-00-00) oc and fastened to eac	h truss with 3-10d									-0	NGINI	ENIX	5
(0.131")	(3") nails. Strongbacks	to be attached to wa	alls								11	O		÷
at their c	uter ends or restrained b	by other means.										TM	SEIN	
5) CAUTIO	N, Do not erect truss ba	ckwards.										· · · · · · · · · ·	innin.	

May 26,2021

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Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F206	Floor Girder	1	1	Job Reference (optional)	146292811

Run: 8.5 E 0 Feb 23 2021 Print: 8.500 E Feb 23 2021 MiTek Industries, Inc. Wed May 26 09:30:41 ID:Fd7CRTYJ_dPuG1RzE6Qz6fzd4m8-y4MEXr4_JmBjGLxUwpcIAlx1awpGE9Q0p87MGizCgFk

Page: 1



Scale = 1:57.8

], [8:0-3-0,Edge], [8:0-	-5-0,0-2-0]	, [22:0-1-8,Edg	ge], [23:Edge,0-1-8]	, [36:0-	1-8,Edge], [37	':0-1-12	,Edge], [42:0-1-8	3,0-1-8], [50:0-1-8,0-0-8]	1	
Loading (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-MSH	0.85 1.00 0.98	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.24 0.04	(loc) 37-39 37-39 35	l/defl >999 >755 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 197 lb	GRIP 187/143 244/190 FT = 20%F,	11%E
LUMBER TOP CHORD 2x4 SP No.2(flat) * 2400F 2.0E(flat) 3OT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) * No.2(flat) OTHERS 2x4 SP No.3(flat) BRACING TOP CHORD Structural wood sh 6-0-0 oc purlins, e	Except* 5-12:2x4 SP Except* 37-7,34-9:2x4 eathing directly applie xcept end verticals.	WI I SP Id or NC 1)	EBS	9-35=-1969/0, 13-3; 11-32=0/1076, 12-3 13-32=-231/553, 2-4 3-39=-444/0, 4-37= 7-37=0/2391, 7-36 8-35=-2132/0, 17-21 19-26=-303/0, 21-24 9-34=0/2288 floor live loads have	1=-622 2=-460 40=-23 -1233/0 -1437/0 3=-348 4=-283 4=-283	0, 11-34=-133 /0, 25/0, 2-39=0/1 5-37=-412/0 0, 8-36=0/2056 /0, 18-27=-450 /0, 10-34=-598 considered for	39/0, 059, , 6,)/0, 3/0, r	LOAD (1) De Pla Ur Cc	CASE(S) ead + Flo ate Incre iform Lo Vert: 23- oncentra Vert: 22- 64=-164	Star oor Live ase=1 oads (It -40=-1 ted Loa =-2000 - (B)	ndard e (balanced): Lun .00 b/ft) 0, 1-22=-180 ads (lb) 0 (F), 10=-570 (B)	1ber Increase=	=1.00,
30T CHORD Rigid ceiling direct bracing, Except: 6-0-0 cc bracing: 3 REACTIONS All bearings 10-11-8 35=0-3-8 (lb) - Max Grav All react (s) 25, 3 24=300 27=464 29=256 35=3468 FORCES (lb) - Max. Comp./l (lb) or less except TOP CHORD 70P CHORD 23-42=-2107/0, 22 3-4=-3079/0, 4-5=- 6-7=-1883/0, 7-8=6 9-10=0/1768, 10-1 12-13=-716/146 30T CHORD 39-40=0/2122, 38- 36-37=-433/0, 35-: 34-35=-3400/0, 33 32-33=-1020/157	y applied or 10-0-0 oc 6-37,35-36,34-35,32- . except 40=0-3-8, ions 250 (lb) or less a 0 except 23=2103 (LC (LC 4), 26=317 (LC 4) (LC 4), 28=362 (LC 1) (LC 4), 31=650 (LC 4) (LC 4), 40=1180 (LC Max. Ten All forces : when shown. 42=-2097/0, 2-3=-307 1883/0, 5-6=-1885/0, 1433, 8-9=0/3400, 1=0/1768, 11-12=-722 39=0/2974, 37-38=0/2 6=-1853/0, -34=-1020/157,	; 2) 34. 3) 4) t joint 5) (1), 6) (1, 7) (3, 7) (3, 7) (3, 7) (3, 7) (3, 7) (4, 7) (5, 7) (6, 7) (7, 7)	this design. All plates are All plates are Truss to be f braced again Gable studs This truss is International R802.10.2 a Load case(s designer mu correct for th Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, E) Use MITek M nails into Tru max. starting connect trus:) Fill all nail ho) Hanger(s) or provided suf Ib down at 3 such connect	e MT20 plates unles a 1.5x3 MT20 unless ully sheathed from st lateral movemen spaced at 2-0-0 oc. designed in accord. Residential Code s nd referenced stance) 1 has/have been r st review loads to vie intended use of th 1 2x6 strongbacks, c and fastened to eac o not erect truss ba ASH422 (With 10d r uss) or equivalent sp o the connection d ficient to support co 3-8-0 on top chord. tion device(s) is the	is other s other one face ance w ections lard AN nodifier erify that is trus: a trus: trus	wise indicated wise indicated e or securely iagonal web). ith the 2018 r R502.11.1 ar SIJ/TPI 1. J. Building at they are s. s. they are s. with 3-10d attached to wa er means. Js. o Girder & 6-1 with 0-10-8 oc d to 28-10-4 t hord. tact with lumb) shall be ated load(s) 20 esign/selection subility of othe	d. alls Od to per. D000 n of ers.		, dittitute,	Number of States	SEA 0449	ROLN ON L 25	and an and and a second s

May 26,2021

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F207	Floor	6	1	Job Reference (optional)	146292812

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:22 ID:rYogB?dDRt_i_biC7tiEB3zLZad-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:57.8

Plate Offsets (X, Y): [4:0-1-8,Edge],	[13:0-1-8,Edge], [18	:0-1-8,Ed	ge], [19:Edge,0)-1-8], [23:0-1-8,Ed	ge], [28	:0-1-8,Edge],	[31:Edg	ge,0-1-8]					
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.92 0.93 0.85	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.32 -0.42 0.05	(loc) 21-22 21-22 19	l/defl >603 >452 n/a	L/d 480 360 n/a	PLATES MT20HS MT20 Weight: 170 lb	GRIP 187/143 244/190 FT = 20%F, 11 ^o	%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP 2400F 2.0E(No.2(flat) 2x4 SP No.1(flat) *E: 2400F 2.0E(flat), 27- 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 19=0-3-8, Max Grav 19=2299 (31=2336 (flat) *Except* 1-8:2x4 xcept* 24-19:2x4 SP -24:2x4 SP No.2(flat) athing directly applie cept end verticals. applied or 6-0-0 oc 25=0-3-8, 31=0-3-8 (LC 4), 25=2178 (LC (LC 10)	1) 4 SP 2) 3) 4) 5) d or 6) 1), 7)	Unbalanced this design. All plates are All plates are This truss is International R802.10.2 a Load case(s designer mu correct for th Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, E	floor live loads hav MT20 plates unles 1.5x3 MT20 unles designed in accord Residential Code s nd referenced stam-) 1 has/have been st review loads to v e intended use of t 1 2x6 strongbacks, s and fastened to ea nails. Strongback ends or restrained to not erect truss be- state of the comparison of the state of the	e been ss other s other ance w sections dard AN modifier erify that his trus on edge ch trus s to be by other ackward	considered for wise indicated wise indicated ith the 2018 R502.11.1 a ISI/TPI 1. d. Building at they are s. e, spaced at s with 3-10d attached to w or means. Is.	or d. i. nd alls						
FORCES	(lb) - Maximum Com Tension 1-31=-1603/0, 18-19 2-3=-2498/0, 3-4=-24 5-6=-2708/0, 6-7=-1 9-10=0/2252, 10-11= 11-12=-2219/402, 12 13-15=-2543/0, 15-1 16-17=-684/0, 17-18	pression/Maximum)=-2305/0, 1-2=-83/0 498/0, 4-5=-2708/0, 744/0, 7-9=-1744/0, =0/2252, 2-13=-2219/402, 6=-2543/0, =-684/0	8) , 9) L(1)	In anger (s) of provided suf lb down at 3 chord. The (s) is the res In the LOAD of the truss a DAD CASE(S) Dead + Flo	icient to support co isient to support co i3-8-12, and 1340 II design/selection of ponsibility of others CASE(S) section, are noted as front (I Standard or Live (balanced):	Lumbe	ated load(s) 1 at 0-2-4 on to onnection devi oplied to the f ck (B).	60 op ice ace 00,				WITH CA	BO	
BOT CHORD	30-31=0/1632, 29-30 26-28=0/2524, 25-26 23-25=-1159/890, 22 21-22=-402/2219, 20 19-20=0/119	0=0/2708, 28-29=0/2 6=-286/275, 2-23=-402/2219, 0-21=0/1860,	708,	Plate Increa Uniform Lo Vert: 19- Concentrat Vert: 1=-	ase=1.00 ads (lb/ft) 31=-10, 1-18=-100 ed Loads (lb) 1500 (F=-1340), 18	3=-1500	(F=-160)				B	OR JESS	Senter	\geq
WEBS	4-29=-142/136, 5-28 12-23=-535/0, 13-22 2-30=0/958, 3-30=-2 11-25=-2112/0, 11-2 15-21=-409/0, 16-21 16-20=-1301/0, 17-2 9-25=-2314/0, 9-26= 6-26=-951/0, 6-28=0	3=-222/0, 10-25=-318 2=-266/0, 2-31=-1706 237/117, 4-30=-570/1 33=0/1792, 13-21=0/8 =-39/755, 20=-235/0, 18-20=0/9 0/1695, 7-26=-264/0 0/546	8/0, 5/0, 50, 870, 995, 0,							HILING.	11111	0449 0449	SEVIER IN	MUTUR.

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Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F208	Floor	1	1	Job Reference (optional)	146292813

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:23 ID:mEf9wZbr?FpYqmsvHahrNezLZdF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Scale = 1:59.4

Plate Offsets	(X, Y): [4:0	-1-8,Edge],	[5:0-1-8,Edge], [12	:0-1-8,E	dge], [23:0-1-	8,Ed	lge], [27:0-1-8,Ec	dge], [29:0)-1-8,Edge], [[31:0-1-8	,Edge]					
Loading TCLL TCDL BCLL BCDL		(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2	018/TPI2014		CSI TC BC WB Matrix-MSH	0.39 0.20 0.57	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.04 0.01	(loc) 25-26 25-26 25	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 185 lb	GRIP 244/190 FT = 20%F,	11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc Rigid ceil bracing.	lo.2(flat) lo.2(flat) lo.3(flat) lo.3(flat) l wood she purlins, ex ing directly	athing directly applie cept end verticals. applied or 6-0-0 oc	ed or	WEBS	1 2 2 1 1 5 2 8 1	11-32=-88/18, 15 22-25=-5102/0, 1 23-25=-75/14, 21 20-26=-264/0, 18 0-33=-126/0, 10 44-31=-84/0, 14- 5-36=-17/0, 4-38 2-38=-186/0, 2-3 3-35=-334/0, 6-3 12-32=-79/0	-29=-30/(6-28=-13 -25=-280 -27=-194 -32=-248 29=-241/(=0/15, 3-3 9=-163/0, 5=-192/0,), 17-27=-49/ 2/0, 9-33=-27 /0, 21-26=-36 /0, 18-26=-12 /15, 12-31=-2), 4-37=-256/ 88=-270/0, 8-33=-326/0 5-35=-120/0	0, 73/0, 52/0, 26/0, 218/0, 0,		Vert: 1=	-1500	22=-4846		
REACTIONS	(size) Max Uplift Max Grav	25=16-3-(28=16-3-(32=16-3-(39=14-6-(39=14-6-(36=-8 (LC 25=5294 27=230 (L 29=256 (L 32=307 (L 35=478 (L 37=279 (L 39=1633	0, 26=16-3-0, 27=16), 29=16-3-0, 31=16), 33=14-6-0, 35=14), 37=14-6-0, 38=14) (LC 5), 26=518 (LC C 13), 28=125 (LC C 5), 31=276 (LC 5 .C 4), 33=500 (LC 3 .C 6), 38=380 (LC 3 (LC 3)	:-3-0, :-3-0, 6-0, 6-0, (6), (6), (), (),	 Unbalan this desi All plate Truss to braced a Gable st One RT truss to connecti forces. This trus Internati 	ced f gn. s are be fu again uds s 7A M beari on is s is c onal	floor live loads has 3x5 MT20 unless ully sheathed fro st lateral movern spaced at 1-4-0 of TiFek connectors ing walls due to to for uplift only ar designed in accor Residential Codo	ave been as otherwin m one factorient (i.e. co oc. recomme JPLIFT a d does n ordance we e sections	considered for se indicated. se or securely liagonal web) ended to conr t jt(s) 36. This ot consider la ith the 2018 s R502.11.1 a	or /). nect s ateral					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
FORCES	(lb) - Max Tension 1-39=-14 2-3=-3/0, 6-8=0/83, 11-12=0/ 15-16=0/ 18-20=0/ 22-23=-9	ximum Com 88/0, 23-24 3-4=-3/0, 4 , 8-9=0/77, 79, 12-14=- 78, 16-17=1 76, 20-21=1 /45	pression/Maximum l=-16/0, 1-2=-77/0, l-5=0/12, 5-6=0/83, 9-10=0/77, 10-11=C 6/22, 14-15=0/78, 0/78, 17-18=0/78, 0/76, 21-22=-9/45,)/79,	 7) Load car designer correct f 8) Recomm 10-00-00 (0.131" 2 at their c 9) CAUTIC 	e.2 ar se(s) r mus or the nend 0 oc a X 3") outer N, D	a rererenced sta 1 has/have bee st review loads to e intended use o 2x6 strongbacks and fastened to o nails. Strongba ends or restrain o not erect truss	andard Ar n modifier o verify th f this trus s, on edge each trus cks to be ed by oth backwar	d. Building at they are s. e, spaced at s with 3-10d attached to w er means. ds.	valls			Z	ORTH CA ORTEESS SEA 0449	HO 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	The second
BOT CHORD	38-39=0/ 35-36=-1 31-32=-2 27-28=-7 24-25=0/	170, 37-38: 2/0, 33-35= 2/6, 29-31= 8/0, 26-27= 1	=-12/0, 36-37=-12/0 =0/219, 32-33=-40/7 =0/70, 28-29=-78/0, =0/39, 25-26=0/253,	, 6,	LOAD CASI 1) Dead + Plate Ir Uniform Vert: Concer	E(S) Floo ncrea n Loa 24-0 ntrate	Standard or Live (balanced ase=1.00 ads (lb/ft) 39=-10, 1-22=-10 ed Loads (lb)	l): Lumbe	r Increase=1. =-180	.00,				MGIN MAN	SEVIE 26,2021	

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F209	Floor	1	1	Job Reference (optional)	146292814

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:24 ID:UTTcMrDJuqYV481qn?SAeSzd4ns-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

Scale = 1:27.7

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

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2018	/TPI2014	CSI TC BC WB Matrix-MP	0.39 0.33 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a -0.08 0.00	(loc) - 4-5 4	l/defl n/a >723 n/a	L/d 999 360 n/a	PLATES MT20 Weight: 29 lb	GRIP 244/190 FT = 20%F, 11%E
BODE	0.0	oode	11(02010	"TT 12014								Weight. 20 ib	11 = 20701, 1170E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she	athing directly applied	1) ed or	Dead + Flo Plate Increa Uniform Lo Vert: 4-5 Concentrat Vert: 1=-	or Live (balanced ase=1.00 ads (lb/ft) =-10, 1-3=-100 ed Loads (lb) -2160 (F=-160)): Lumbei	Increase=1	.00,					
	4-11-0 oc purlins, e	xcept end verticals.											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	С										
REACTIONS	(size) 4= Mecha Max Grav 4=314 (L0	nical, 5=0-3-8 C 1), 5=2346 (LC 1)											
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD BOT CHORD	1-5=-2271/0, 3-4=-7 4-5=0/372	1/0, 1-2=-234/0, 2-3	8=0/0										
WEBS	2-5=-153/0, 2-4=-43	3/0											
NOTES													
 Refer to gi This truss Internation R802.10.2 	rder(s) for truss to trus is designed in accorda al Residential Code so and referenced stand	ss connections. ance with the 2018 ections R502.11.1 a ard ANSI/TPI 1.	ind									mmm	uun.
 Load case designer m correct for 	(s) 1 has/have been m nust review loads to ve the intended use of th	nodified. Building prify that they are is truss.								-7	A.	N'YTH CA	ROLINA
4) Recommendation 10-00-00 cm (0.131" X 3 at their out	nd 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks ter ends or restrained	n edge, spaced at th truss with 3-10d to be attached to w by other means.	valls								8e	SEA	L
 CAUTION, Hanger(s) provided s lb down at 	, Do not erect truss ba or other connection de ufficient to support con 0-3-0 on top chord.	ckwards. evice(s) shall be ncentrated load(s) 1 The design/selectior	60 n of							1111		0449	25

Ib down at 0-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

May 26,2021

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F210	Floor	1	1	Job Reference (optional)	146292815

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:24 ID:yTdGGdrxep57J7?qqwOMIQzd4n2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Done

Scale = 1:29.4

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	0.14	DEFL	in	(loc)	l/defl	L/d		GRIP	
	40.0	Plate Grip DOL	1.00		0.14	Vert(LL)	0.00	7	>999	480	MT20	244/190	
	10.0		1.00	BC	0.07	Vert(CT)	0.00		>999	360			
BOLL	0.0	Rep Stress Incr		VVB	0.07	Horz(CT)	0.00	5	n/a	n/a		FT 000/F 440	
BCDL	5.0	Code	IRC2018/1PI2014	Matrix-MSH							weight: 23 lb	FT = 20%F, 11%	%E
LUMBER													
TOP CHORD	2x4 SP No.2(flat)												
BOT CHORD	2x4 SP No.2(flat)												
WEBS	2x4 SP No.3(flat)												
BRACING	.												
TOP CHORD	Structural wood sheat 3-4-0 oc purlins, exc	athing directly applie cept end verticals.	d or										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	;										
	bracing.												
REACTIONS	(size) 5= Mecha	nical, 8= Mechanica	I										
	(lb) Maximum Cam	5 1), 0=293 (LC 1)											
FURCES	(ID) - Maximum Com Tension	ipression/iviaximum											
TOP CHORD	1-8=-57/0, 4-5=-57/0 3-4=0/0), 1-2=0/0, 2-3=-171/	′0,										
BOT CHORD	7-8=0/171, 6-7=0/17	1, 5-6=0/171											
WEBS	2-8=-291/0, 3-5=-29	1/0, 2-7=0/23, 3-6=0	/23										
NOTES													
 Unbalance this design 	ed floor live loads have	been considered for	r										
 Refer to gi 	 rder(s) for truss to trus	s connections											
 This truss i 	is designed in accorda	ance with the 2018									minin	1111	
Internation	al Residential Code se	ections R502.11.1 ar	nd								I'L CA	Pall	
R802.10.2	and referenced standa	ard ANSI/TPI 1.								3	all	10/11	
4) Load case	(s) 1 has/have been m	nodified. Building								Sh	O' EESS	10: 1/2	
designer m	nust review loads to ve	erify that they are								:0		eta T	<u> </u>
correct for	the intended use of the	is truss.							6	<i>K</i>		Sun	2
5) Recomme	nd 2x6 strongbacks, or	n edge, spaced at									OF A		3
10-00-00 c	oc and fastened to eac	truss with 3-10d	- 11 -						=	:	SEA	- :	=
(U.I3I A c	or ends or restrained h	by other means	alis							:	0449	25 :	2
	Clericities of restrained in Clericities of restrained in	by other means.							-				2
	Joor Live (balanced): L	umber Increase-1 (00						-				-
Plate Incr	rease=1 00		,							- 5	NO.	ER. Q.	
Uniform I	oads (lb/ft)									11	GUIN		
Vert 5	-8=-10, 1-4=-180									1	IT MA	SEVIN	
	,										WI.	un u	
											May	26 2024	
											iviay	20,2021	

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling	
21040028-C	F211	Floor Girder	1	1	Job Reference (optional)	146292816

2-6-0

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:24 ID:ELfX_f9d?ELQUeVX4HWs9czMa_S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-4-0

4x6 =

LUMBER Vert: 6=-214 (F) TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.3(flat) WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5= Mechanical Max Grav 4=290 (LC 1), 5=264 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-5=-144/0, 3-4=0/322, 1-2=0/0, 2-3=0/0 BOT CHORD 4-5=0/226 WEBS 2-5=-249/0, 2-4=-638/0 NOTES Refer to girder(s) for truss to truss connections. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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. Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to front face of top chord. Fill all nail holes where hanger is in contact with lumber. In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). LOAD CASE(S) Standard Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-5=-10, 1-3=-100 Concentrated Loads (lb) 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

818 Soundside Road Edenton, NC 27932

3x6 =

Scale = 1:29.2 Plate Offsets (X, Y): [4:Edge,0-1-8]

1) 2)

3)

4)

5)

6)

1)

	()											
Loading	(pst)	Spacing	2-0-0	CSI		DEFL	ın	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%F, 11%E

Job	Truss	Truss Type	Qty	Ply	72 Carolina Lakes-2nd Floor-Sterling		
21040028-C	F212	Floor	1	1	Job Reference (optional)	146292817	

Run: 8.5 S 0 May 17 2021 Print: 8.500 S May 17 2021 MiTek Industries, Inc. Tue May 25 15:05:24 ID:yTdGGdrxep57J7?qqwOMIQzd4n2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:29.4

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge]

Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2018	/TPI2014	CSI TC BC WB Matrix-MSH	0.09 0.06 0.04	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 6 7 5	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) Structural wood she 3-4-0 oc purlins, exi Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 or	LO. 1) ed or c	AD CASE(S) Dead + Floo Plate Increa Uniform Loo Vert: 5-8: Concentrate Vert: 1=-1	Standard or Live (balanced): ise=1.00 ads (lb/ft) =-10, 1-4=-100 ed Loads (lb) 500 (F), 4=-500 (F)	Lumber	⁻ Increase=1.	00,					
REACTIONS FORCES	(size) 5= Mecha Max Grav 5=670 (LC (lb) - Maximum Com	nical, 8= Mechanica C 1), 8=670 (LC 1) pression/Maximum	al										
TOP CHORD	Tension 1-8=-533/0, 4-5=-53 3-4=0/0 7-8=0/99, 6-7=0/99, 2-8=160/0, 2-5=160	3/0, 1-2=0/0, 2-3=-9 5-6=0/99	9/0,										
NOTES	2-8=-169/0, 3-5=-16	9/0, 2-7=0/23, 3-6=0)/23										
 Unbalanc this desig Refer to g This truss Internation R802.10.2 Load case designer r correct foi Recomme 10-00-00 (0.131" X at their ou Hanger(s) provided s lb down a chord. The (s) is thei to In the LO, of the trus 	ed floor live loads have n. irder(s) for truss to trus is designed in accorda nal Residential Code se 2 and referenced stand e(s) 1 has/have been m must review loads to ve r the intended use of th end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks ther ends or restrained 1 or other connection de sufficient to support cor t 0-1-8, and 500 lb dov he design/selection of s responsibility of others. AD CASE(S) section, Ic is are noted as front (F	e been considered for ance with the 2018 ections R502.11.1 a ard ANSI/TPI 1. hodified. Building prify that they are is truss. In edge, spaced at th truss with 3-10d to be attached to w by other means. evice(s) shall be ocentrated load(s) 5f what 3-2-8 on top such connection devi bads applied to the f) or back (B).	nd alls 00 ace							. Annum.		SEA 0449 WGIN May	ROL 25 5EN:HTT 26,2021

