

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0322-1382 Southern Touch / 17 Mitchell Manor

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: I51219981 thru I51219993

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

North Carolina COA: C-0844



April 7,2022

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.

Job	Truss	Truss Type	Qty	Ply	Southern Touch / 17 Mite	hell Manor]
J0322-1382	F1	Floor	3	1			151219981
Comtech. Inc. Fay	vetteville, NC - 28314			430 s Aug	Job Reference (optional) 16 2021 MiTek Industries	Inc. Wed Apr 61	4:24:25 2022 Page 1
	0.000110,100 20014,		ID:z9tQeuaeEwTQ6	FgPNEM8	1tzKtlE-mgpEG4gQoqbAc	lufvcUE43nCmRTa	S49mtnUY5bizTPkK
0-1-8							
 1-3-0 	2-1-0				1-11-4		0-1-8 Scale = 1:57.5
3x4 = $1 2$ 41 41 $3x6 = 3x4$	3x4 = 3x4 = 3 4 5 6 39 38 37 = 3x6 = 3x4 =	3x6 = 3x4 = 3x6 FP = 4x6 = 7 8 9 10 11 36 35 34 3x6 = 3x6 FF 4x6 =	3x6 FP = $3x4 \parallel 4x6 = 3x6 =$ 12 13 14 15 3x3 32 2x = 4x6 = 3x10 =	= 3x 16 31 30 3x6 FP 3x10 =	10 = 33 $17 18 19 2$ $29 28$ $29 28$ $2 = 3x6 = 3x4 = 3$	4 = 3x4 = 20 21 22 27 3x6 =	$3x4 =$ $23 24$ $43 \int_{\frac{1}{1}}^{\frac{1}{1}}$ $26 25$ $3x4 = 3x6 =$
Plate Offsets (X V)	16-8-8 16-8-8 15-0-1-8 Edgel (28-0-1-8 Edgel)	29.0.1.8 Edge] [37.0.1.8 Edge]			<u>34-6-4</u> 17-9-12		
	[3.0-1-0,Luge], [20.0-1-0,Luge], [29.0-1-6,Eugej, [37.0-1-6,Eugej					
LOADING (psf) TCLL 40.0	Plate Grip DOL 1.00	CSI. TC 0.89	DEFL. in Vert(LL) -0.20	(loc) 27-28 >	l/defl L/d >999 480	PLATES MT20	GRIP 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.28	27-28	>757 360		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	1012(01) 0.03	25	iva iva	Weight: 181 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI	 No.1(flat) No.1(flat) No.3(flat) 		BRACING- TOP CHORD BOT CHORD	Structura except er Rigid ceil	I wood sheathing directl nd verticals. ing directly applied or 6-	y applied or 2-2-0 ·0-0 oc bracing.	oc purlins,
REACTIONS. (siz Max C	e) 41=Mechanical, 33=0-3-8, 25 Grav 41=789(LC 3), 33=2249(LC 3	5=0-3-0 1), 25=852(LC 4)					
FORCES. (lb) Max. TOP CHORD 2-3= 8-10 15-1 20-2 BOT CHORD 40-4 35-3 28-2 WEBS 2-41 11-3 13-3 18-2 20-2	Comp./Max. Ten All forces 250 -1384/0, 3-4=-2195/0, 4-5=-2195// =-1590/423, 10-11=-292/959, 11- 6=-1759/327, 16-17=-1759/327, 1 1=-2465/0, 21-22=-2465/0, 22-23= 1=0/847, 39-40=0/1894, 38-39=0/ 6=-676/1040, 33-35=-1467/0, 32- =90/2687, 27-28=0/2689, 26-27=(=-1126/0, 2-40=0/747, 3-40=-708/ 5=0/1181, 10-35=-1137/0, 10-36= 3=-1638/0, 13-32=0/1251, 15-32= 29=-454/0, 23-25=-1218/0, 23-26= 7=-305/45, 20-28=-406/158	(lb) or less except when shown 0, 5-6=-2335/0, 6-7=-2335/0, 7-8 12=0/2550, 12-13=0/2550, 13-18 7-18=-2687/0, 18-19=-2687/0, 1 =-1518/0 2335, 37-38=0/2335, 36-37=-20 33=-1368/0, 31-32=-585/1146, 2 0/2097, 25-26=0/917 0, 3-39=0/410, 5-39=-216/325, 3 0/851, 7-36=-680/0, 7-37=0/826 -1204/0, 15-31=0/922, 17-31=-7 0/836, 22-26=-806/0, 22-27=0/4	5=-1590/423, 5=-341/872, 9-20=-2687/0, 9/2008, 99-31=-112/2243, 11-33=-1564/0, 5, 6-37=-390/0, 753/0, 17-29=0/942, 199,				
NOTES- 1) Unbalanced floor liv 2) All plates are 1.5x3 3) Plates checked for : 4) Refer to girder(s) fo 5) Recommend 2x6 st Strongbacks to be a 6) CAUTION, Do not e	re loads have been considered for MT20 unless otherwise indicated. a plus or minus 1 degree rotation a r truss to truss connections. rongbacks, on edge, spaced at 10 attached to walls at their outer end prect truss backwards.	this design. about its center. -0-0 oc and fastened to each tr s or restrained by other means.	uss with 3-10d (0.131" X	3") nails.		UN PARTIE	CAR SEAL 6322 INEER GILBER

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



April 7,2022

			-			
Job	Truss	Truss Type	Qty	Ply	Southern Touch / 17 Mitchell Manor	
						151210082
		0.015				131213302
J0322-1382	F1A	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Wed Apr 6 14	:24:26 2022 Page 1
	• • •		D:z9tQeua	EwTQ6F	PNEM81tzKtIE-EtNcTQq2Z8j1F2E69BIJc?I xt	tz pdt108le78zTPkJ
					5	
						0-9-12
0-1-81-3-0	2-1-0				2-3-12	0-9-12 0-1-8
	210				2012	
						Ocale = 1.50.7



 	34-0-4 32-3-4 32-4-12 15-6-12 0-1-8 2-1-8						34-6-4 12-4-12		
Plate Offsets (X,Y)	[5:0-1-8,Edge], [18:0-1-8,Edge], [25:Edg	je,0-1-8], [39:0-1-8,Edge]				13-0-	12		0-1-0 2-1-0
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 0.59 BC 0.67 WB 0.54 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.19 0.03	(loc) 40 40 35	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 186 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	P No.1(fiat) P No.1(fiat) No.3(fiat)		BRACING- TOP CHOR BOT CHOR	:D :D	Structu except Rigid ce	ral wood end verti eiling dire	sheathing dire cals. ectly applied o	ectly applied or 6-0-0 o	oc purlins,
REACTIONS. All be (lb) - Max U Max G	earings 2-3-0 except (jt=length) 43=Mech plift All uplift 100 lb or less at joint(s) 20 rav All reactions 250 lb or less at joint(27=5484(LC 1)	nanical, 35=0-3-8. 5 except 25=-667(LC 1) s) 26 except 43=800(LC 3	3), 35=1978(LC 1)	, 27=55	511(LC -	4),			
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-10= 15-16	Comp./Max. Ten All forces 250 (lb) or 1409/0, 3-4=-2241/0, 4-5=-2241/0, 5-6= =-1696/150, 10-11=-421/628, 11-12=0/2 =-1129/463, 16-17=-1129/463, 17-18=-	less except when shown. -2407/0, 6-7=-2407/0, 7-8 121, 12-13=0/2121, 13-15 1375/205, 18-19=-1053/10	3=-1696/150, 5=-213/857, 01,						
BOT CHORD 42-43 37-38 30-31 25-26)=-1053/101, 21-22=0/1509, 22-23=0/14 3=0/860, 41-42=0/1929, 40-41=0/2407, 5 3=-372/1158, 35-37=-981/0, 34-35=-116; 1=-205/1375, 29-30=-205/1375, 28-29=- 3=-616/0	83 39-40=0/2407, 38-39=0/2 2/0, 33-34=-634/777, 31-3 143/675, 27-28=-659/0, 20	102, 33=-205/1375, 6-27=-616/0,						
WEBS 22-27 11-37 13-35 21-2 23-25	7=-3652/0, 2-43=-1143/0, 2-42=0/763, 3- 7=0/1135, 10-37=-1094/0, 10-38=0/805, 5=-1276/0, 13-34=0/909, 15-34=-871/0, 7 8=0/859, 20-28=-826/0, 20-29=0/514, 18 5=0/972	42=-724/0, 3-41=0/424, 1 7-38=-630/0, 7-39=0/550, 15-33=0/553, 17-33=-519, 3-29=-429/139, 23-27=-13	11-35=-1517/0, , 6-39=-289/0, /0, 21-27=-1229/0 353/0,	,					
 NOTES- 1) Unbalanced floor live 2) All plates are 3x6 Mi 3) Plates checked for at 4) Gable studs spaced 5) Refer to girder(s) for 6) Provide mechanical 25=667. 7) Recommend 2x6 str Strongbacks to be at 8) CAUTION, Do not et 	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about it at 1-4-0 oc. ' truss to truss connections. connection (by others) of truss to bearin 'ongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re- rect truss backwards.	esign. is center. g plate capable of withsta c and fastened to each tru strained by other means.	nding 100 lb uplift uss with 3-10d (0.1	at joint 131" X 3	:(s) 26 e 3") nails	except (jt=	-lb)	S O3	CAROUNIE SEAL 6322
LOAD CASE(S) Stand 1) Dead + Floor Live (b	dard valanced): Lumber Increase=1.00, Plate	Increase=1.00						A CALL	GILBER

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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

SINEERING 818 Soundside Road Edenton, NC 27932

April 7,2022

Job	russ	Truss Type	Qty	Ply	Southern Touch / 17 Mitchell Manor
					151219982
J0322-1382 F1	1A	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayetteville	e, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Wed Apr 6 14:24:27 2022 Page 2

ID:z9tQeuaeEwTQ6FgPNEM81tzKtIE-i3x?hmhgKSrutColjvHY9CH9hGJDY37AEo1CfbzTPkl

LOAD CASE(S) Standard Uniform Loads (plf)

Uniform Loads (plf) Vert: 25-43=-10, 1-22=-100, 22-24=-225 Concentrated Loads (lb) Vert: 22=-3508



Job	Truss	Truss Type	Qty	Ply	Southern Touch / 17	Mitchell Manor	
J0322-1382	F2	Floor	4	1			151219983
Comtech Inc Fave	atteville NC - 28314		8	430 s Auc	Job Reference (option	nal) ries Inc. Wed Apr. 6.14.1	24·28 2022 Page 1
	20014,		ID:z9tQeuaeEwTQ6	FgPNEM8	1tzKtlE-AFVNu6iJ4lzk	ULNUHconhQqHVgbRHV	VMKTRnlB1zTPkH
0-1-8							
1-3-0 	2-1-0				2-3-12	ł	0-1-8 Scale = 1:55.2
1.5x3		1.5x3	3x6 FP =	=	3x6 =		1.5x3
1.5x3 =	1.5x3 1.5	x3 3x6 FP= 4x6	= 4x4 =	1.	5x3	1.5x3	1.5x3 =
1 2	3 4 5 6	7 8 9 10 11	12 13 14	15	16 17	18 19 20	21 22
40							41 9
				`		i Ni Mi	
39 38	3 37 36 3	5 34 33 3	32 31 30		29 28 27	26 25 24	23
3x6 =	3x6 =1.5x3	3x6 = 4x6 = 3x6	FP = 4x4 =	=	3x6 FP = 1.5	5x3 3x6 =	3x6 =
			3x10 =	3	3x6 =		
L	16-8-8				32-6-4		
Plate Offsets (X,Y)	16-8-8 [5:0-1-8,Edge], [18:0-1-8,Edge],	[35:0-1-8,Edge]			15-9-12		<u> </u>
	SPACING 2.0.0		DEEL in		l/dofl L/d		CPIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.78	Vert(LL) -0.17	25-26	>999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00 Rep Stress Incr VES	BC 0.93	Vert(CT) -0.23	25-26 23	>822 360		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	1012(01) 0.00	20	1/4 1/4	Weight: 172 lb	FT = 20%F, 11%E
LUMBER-			BRACING-				
TOP CHORD 2x4 SP	No.1(flat)		TOP CHORD	Structur	al wood sheathing di	ectly applied or 6-0-0 o	c purlins,
WEBS 2x4 SP	No.3(flat)		BOT CHORD	Rigid ce	eiling directly applied of	or 2-2-0 oc bracing.	
REACTIONS (size	a) 39-Mechanical 31-0-3-8 3	2-0-3-0					
Max Gi	rav 39=802(LC 3), 31=2088(LC	1), 23=762(LC 4)					
FORCES. (lb) - Max.	Comp./Max. Ten All forces 25	0 (lb) or less except when shown.					
TOP CHORD 2-3=-	1412/0, 3-4=-2247/0, 4-5=-2247	/0, 5-6=-2415/0, 6-7=-2415/0, 7-8=-	-1709/111,				
8-10= 15-16	=-1632/302, 16-17=-1632/302,	-12=0/2127, 12-13=0/2127, 13-15= 17-18=-2147/0, 18-19=-2087/0, 19-	-511/762, 20=-2087/0,				
20-21	=-1324/0	10445 DE 20 0/2445 DA 25 0/244	2				
33-34	=-329/1172, 31-33=-1021/0, 30	-31=-1159/0, 29-30=-504/1184, 27-	3, 29=0/2147,				
26-27 WEBS 2-39=	=0/2147, 25-26=0/2147, 24-25= -1145/0_2-38=0/765_3-38=-726	0/1807, 23-24=0/816 3/0_3-37=0/425_5-37=-324/223_11	-31=-1518/0				
11-33	=0/1135, 10-33=-1095/0, 10-34	=0/806, 7-34=-631/0, 7-35=0/737, 6	6-35=-352/0,				
13-31 21-23	=-1448/0, 13-30=0/1077, 15-30 =-1084/0, 21-24=0/706, 20-24=	=-1029/0, 15-29=0/687, 17-29=-101 -672/0, 20-25=0/381, 18-25=-126/3	18/0, 51				
NOTES	,, -	,					
1) Unbalanced floor live	e loads have been considered fo	r this design.					
2) All plates are 3x4 MT	20 unless otherwise indicated.	about its contor					1105
4) Refer to girder(s) for	truss to truss connections.	about its center.				UNIT H	APO
 Recommend 2x6 strong Strongbacks to be at 	ongbacks, on edge, spaced at 1 tached to walls at their outer en	0-0-0 oc and fastened to each trus ds or restrained by other means.	s with 3-10d (0.131" X	3") nails.		NOR	
6) CAUTION, Do not er	ect truss backwards.	,, ,				FE	Min
						100	· · · · ·
						E SE	EAL
						= : 036	5322
						高 入口	1 3







F		<u>9-10-4</u> 9-10-4							25-8-0			
Plate Offse	ets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,Edge]	dge], [12:0-1-8	3,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 IRC2015/TP	2-0-0 1.00 1.00 YES 2014	CSI. TC BC WB Matrix	0.58 0.78 0.47 <-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.21 0.04	(loc) 19-20 19-20 17	l/defl >999 >883 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 136 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHOF BOT CHOF WEBS	RD 2x4 SP RD 2x4 SP 2x4 SP	No.1(flat) No.1(flat) No.3(flat)				BRACING- TOP CHOR BOT CHOR	:D :D	Structu except Rigid c	ral wood end verti eiling dire	sheathing dir cals. ectly applied c	rectly applied or 6-0-0 c or 6-0-0 oc bracing.	oc purlins,
REACTION	NS. (size Max G	e) 30=Mechanical, 25=0 rav 30=472(LC 3), 25=16	-3-8, 17=0-3-0 23(LC 1), 17=) 789(LC 7)								
FORCES. TOP CHOF	(lb) - Max. RD 2-3=- 9-10= 14-15	Comp./Max. Ten All forc 694/33, 3-4=-841/189, 4-5 1875/0, 10-11=-1875/0, 1 5=-1384/0	es 250 (lb) or =-483/471, 5- I1-12=-2323/0	less except 6=0/1221, 6-), 12-13=-21	when shown -7=0/1221, 7- 98/0, 13-14=-	9=-802/0, ·2198/0,						
BOT CHOR	RD 29-30 24-25 18-19)=0/498, 28-29=-189/841, 5=-273/129, 22-24=0/1450)=0/1894, 17-18=0/847	27-28=-189/84 , 21-22=0/232	41, 26-27=-1 3, 20-21=0/2	89/841, 25-2 2323, 19-20=	6=-693/155, 0/2323,						
WEBS	2-30= 15-18 9-24=	661/0, 2-29=-82/273, 5-2 3=0/746, 14-18=-710/0, 14 939/0, 9-22=0/611, 11-22	5=-903/0, 5-2 -19=0/413, 12 2=-780/0	6=0/604, 4-2 -19=-365/11	26=-710/0, 15 3, 7-25=-135	-17=-1125/0, 0/0, 7-24=0/980,						
NOTES-		- I	and for the install	- !								

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

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

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

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.







			17-11-8				
			17-11-8				
Plate Offsets (X,	') [18:0-1-8,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 YES Code IRC2015/TPI2014	CSI. TC 0.53 BC 0.75 WB 0.48 Matrix-S	DEFL. ir Vert(LL) -0.22 Vert(CT) -0.30 Horz(CT) 0.06	loc) l/defl 18-19 >976 18-19 >710 18-19 >710 14 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 95 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
LUMBER- TOP CHORD 2 BOT CHORD 2 WEBS 2 REACTIONS.	x4 SP No.1(flat) x4 SP No.1(flat) x4 SP No.3(flat) (size) 22=0-3-8, 14=0-3-0 /lax Grav 22=968(LC 1), 14=968(LC 1)		BRACING- TOP CHORD BOT CHORD	Structural wood except end verti Rigid ceiling dire	sheathing directicals. ectly applied or	otly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,
FORCES. (Ib) - TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1772/0, 3-4=-2955/0, 4-6=-2955/0, 6-7= 9-10=-2955/0, 10-11=-2955/0, 11-12=-1772/ 21-22=0/1050, 20-21=0/2464, 19-20=0/3311 14-15=0/1050 2-22=-1395/0, 2-21=0/1004, 3-21=-963/0, 3- 7-19=-303/0, 12-14=-1395/0, 12-15=0/1004, 9-18=-63/605, 8-18=-303/0	r less except when shown. 3534/0, 7-8=-3534/0, 8-9 0 , 18-19=0/3534, 16-18=0/3 20=0/668, 6-20=-483/0, 6- 11-15=-963/0, 11-16=0/66	=-3534/0, 3311, 15-16=0/2464, 19=-63/605, 38, 9-16=-483/0,				
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) 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.







		15-8-8				15- <mark>1</mark> 0-0	17-11-8
		15-8-8				0-ˈ1 ⁻ 8	2-1-8
Plate Offsets (X,Y)	[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 IncrNOCode IRC2015/TPI2014	CSI. TC 0.62 BC 0.60 WB 0.43 Matrix-S	DEFL. ir Vert(LL) -0.22 Vert(CT) -0.30 Horz(CT) 0.03	n (loc) l/defi 20-21 >869 20-21 >631 5 16 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 99 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. All b (lb) - Max L Max C	 2400F 2.0E(flat) 2400F 2.0E(flat) 2400F 2.0E(flat) No.3(flat) earings 2-3-0 except (jt=length) 23=0-3-8 Jplift All uplift 100 lb or less at joint(s) exprave All reactions 250 lb or less at joint(.cept 14=-179(LC 1) s) 15 except 23=809(LC 1	BRACING- TOP CHORD BOT CHORD I), 16=4995(LC 1), 16=4	Structural wood except end vertic Rigid ceiling dire 6-0-0 oc bracing	sheathing dire cals. ctly applied o : 15-16,14-15	ectly applied or 6-0-0 r 10-0-0 oc bracing,	oc purlins, Except:
FORCES. (lb) - Max. TOP CHORD 2-3= 9-10 BOT CHORD 22-2 WEBS 11-11 10-11	Comp./Max. Ten All forces 250 (lb) or -1423/0, 3-4=-2292/0, 4-6=-2292/0, 6-7= -974/0, 10-11=0/603, 11-12=0/577 3=0/867, 21-22=0/1967, 20-21=0/2457, 1 6=-3643/0, 2-23=-1151/0, 2-22=0/774, 3- 7=0/858, 9-17=-921/0, 9-19=0/908, 8-19=	less except when shown. -2318/0, 7-8=-2318/0, 8-9 9-20=0/2318, 17-19=0/16 22=-756/0, 3-21=0/442, 1 443/0, 12-14=0/338, 12-	=-2318/0, 636, 16-17=0/357 0-16=-1282/0, 16=-571/0				
NOTES- 1) All plates are 3x6 M 2) Plates checked for a 3) Gable studs spaced 4) Provide mechanical 5) Recommend 2x6 st Strongbacks to be a 6) CAUTION, Do not e	T20 unless otherwise indicated. a plus or minus 1 degree rotation about it I at 1-4-0 oc. connection (by others) of truss to bearin rongbacks, on edge, spaced at 10-0-0 o titached to walls at their outer ends or res rect truss backwards.	s center. g plate capable of withsta c and fastened to each tru strained by other means.	nding 179 lb uplift at joir Iss with 3-10d (0.131" X	nt 14. 3") nails.			

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 14-23=-10, 1-11=-100, 11-13=-225 Concentrated Loads (lb)

Vert: 11=-3527







			15-11-8				
Plate Offsets (X,Y	') [5:0-1-8,Edge], [6:0-1-8,Edge]		13-11-6				
LOADING(psf)TCLL40.0TCDL10.0BCLL0.0BCDL5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.50 BC 0.72 WB 0.40 Matrix-S	DEFL. ir Vert(LL) -0.16 Vert(CT) -0.21 Horz(CT) 0.04	n (loc) l/defl 5 15-16 >999 15-16 >892 4 11 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 84 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 22 BOT CHORD 22 WEBS 22	x4 SP No.1(flat) x4 SP No.1(flat) x4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood except end vert Rigid ceiling dir	sheathing dire icals. ectly applied o	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS.	(size) 18=0-3-8, 11=0-3-0 /ax Grav 18=858(LC 1), 11=858(LC 1)						
FORCES. (lb) - TOP CHORD	Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1534/0, 3-4=-2477/0, 4-5=-2477/0, 5-6= 8-9=-1534/0	less except when shown. -2763/0, 6-7=-2477/0, 7-8=	=-2477/0,				
BOT CHORD	17-18=0/925, 16-17=0/2113, 15-16=0/2763, 11-12=0/925	14-15=0/2763, 13-14=0/27	63, 12-13=0/2113,				
WEBS	2-18=-1229/0, 2-17=0/847, 3-17=-805/0, 3-16 9-12=0/847, 8-12=-805/0, 8-13=0/494, 6-13=	6=0/494, 5-16=-660/0, 9-11 -660/0	=-1229/0,				
NOTES- 1) Unbalanced flc 2) All plates are 1	or live loads have been considered for this de .5x3 MT20 unless otherwise indicated.	esign.					

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

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







L			15-8-0					
			15-8-0					
Plate Offsets (X,Y)	[5:0-1-8,Edge], [6:0-1-8,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 0.43 BC 0.67 WB 0.39 Matrix-S	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.0	in (loc) 14 13-14 18 15-16 04 11	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 83 lb	GRIP 244/190 FT = 20%F 11%F
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI REACTIONS. (siz Max (P No.1(flat) P No.1(flat) P No.3(flat) re) 18=Mechanical, 11=0-3-0 Grav 18=842(LC 1), 11=842(LC 1)		BRACING- TOP CHORD BOT CHORD	Structu except Rigid co	ral wood end vertio eiling dire	sheathing dire cals. cctly applied o	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
FORCES. (lb) - Max TOP CHORD 2-3= 8-9= BOT CHORD BOT CHORD 17-1 11-1 WEBS 8-12	Comp./Max. Ten All forces 250 (lb) o -1500/0, 3-4=-2410/0, 4-5=-2410/0, 5-6= -1500/0 8=0/907, 16-17=0/2061, 15-16=0/2668, 2=0/907 =-1205/0, 2-17=0/824, 3-17=-781/0, 3-1 =-781/0, 8-13=0/474, 6-13=-606/0, 5-16	less except when shown. 2668/0, 6-7=-2410/0, 7-8= 14-15=0/2668, 13-14=0/26 6=0/474, 9-11=-1205/0, 9-1 606/0	=-2410/0, 68, 12-13=0/2061, 2=0/824,					
NOTES-	e loads have been considered for this d	esian						

Unbalanced floor live loads have been considered for this design.

2) All plates are 1.5x3 MT20 unless otherwise indicated.

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

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







		1 [.] 1 [.]	1-8-0				
Plate Offsets (X,Y)	[3:0-1-8,Edge], [10:0-1-8,Edge]	1	1-0-0				
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 0.45 BC 0.57 WB 0.25 Matrix-S	DEFL. ir Vert(LL) -0.11 Vert(CT) -0.13 Horz(CT) 0.02	n (loc) l/defl 9-10 >999 8 9-10 >999 2 8 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 61 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood except end ver Rigid ceiling di	d sheathing dire ticals. rectly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.) oc purlins,
REACTIONS. (siz Max C	re) 13=0-3-0, 8=0-3-8 Grav 13=622(LC 1), 8=622(LC 1)						
FORCES. (lb) - Max. TOP CHORD 2-3= BOT CHORD 12-1 WEBS 2-13 5-10	. Comp./Max. Ten All forces 250 (lb) or -1027/0, 3-4=-1436/0, 4-5=-1436/0, 5-6= 3=0/646, 11-12=0/1436, 10-11=0/1436, =-857/0, 2-12=0/531, 3-12=-577/0, 6-8= =-38/328	r less except when shown. 1029/0 9-10=0/1353, 8-9=0/660 -876/0, 6-9=0/514, 5-9=-449/0),				
NOTES- 1) Unbalanced floor liv 2) Plates checked for 3) Recommend 2x6 st Strongbacks to be a	re loads have been considered for this d a plus or minus 1 degree rotation about i rongbacks, on edge, spaced at 10-0-0 c attached to walls at their outer ends or re	esign. ts center. oc and fastened to each truss strained by other means.	with 3-10d (0.131" X	3") nails.			







0-10-0 0-11-6			11-8-0				
0-10-0 0-1-6			10-8-10				· · · ·
Plate Offsets (X,Y)	[1:Edge,0-1-8], [7:0-1-8,Edge], [15:0-1-8	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 IncrNOCode IRC2015/TPI2014	CSI. TC 0.32 BC 0.64 WB 0.56 Matrix-S	DEFL. ir Vert(LL) -0.07 Vert(CT) -0.10 Horz(CT) 0.03	n (loc) l/defl 15-16 >999 15-16 >999 15-16 >999 11 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 77 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size Max U Max G	No.1(flat) No.1(flat) No.3(flat) e) 20=0-3-0, 11=0-3-8, 19=0-3-10 plift 20=REL rav 11=1192(LC 4), 19=7176(LC 1)		BRACING- TOP CHORD BOT CHORD	Structural wood except end vertii Rigid ceiling dire 6-0-0 oc bracing	sheathing dire cals. ectly applied or p: 19-20.	ectly applied or 6-0-0 r 10-0-0 oc bracing,	oc purlins, Except:
FORCES. (lb) - Max. TOP CHORD 2-3=C 8-9=- 8-9=- BOT CHORD 18-19 12-11 12-11 WEBS 2-19= 9-11= 9-11= NOTES- 1) Unbalanced floor live 1) Unbalanced floor live 2) All plates are 1.5x3 fl 3) Plates checked for a 1, "/n" indicates Release 5) Recommend 2x6 str Strongbacks to be at 6) CAUTION, Do not et 10	Comp./Max. Ten All forces 250 (lb) or //398, 3-4=-1900/0, 4-5=-1900/0, 5-6=-2 2048/0)=0/1024, 17-18=0/1024, 16-17=0/2439, 3=0/1267, 11-12=0/1267 -6023/0, 3-19=-1787/0, 3-17=0/1169, 4 -1646/0, 9-13=0/1041, 8-13=-309/0, 7-1 e loads have been considered for this de MT20 unless otherwise indicated. plus or minus 1 degree rotation about i ed bearing: allow for upward movement ongbacks, on edge, spaced at 10-0-0 o trached to walls at their outer ends or re rect truss backwards.	less except when shown 527/0, 6-7=-2527/0, 7-8= , 15-16=0/2439, 14-15=0/ -17=-284/0, 5-17=-720/0, 13=-698/0 esign. ts center. at joint(s) 20. to and fastened to each tri strained by other means.	-2048/0, 2527, 13-14=0/2527, 5-15=-21/298, uss with 3-10d (0.131" X	3") nails.			
LOAD CASE(S) Stand 1) Dead + Floor Live (b Uniform Loads (plf) Vert: 11-20= Concentrated Loads Vert: 2=-57'	dard alanced): Lumber Increase=1.00, Plate =-10, 1-10=-225 (lb) 11	Increase=1.00			¢	THE REAL OF THE RE	SEAL SINEER. HILLING

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



April 7,2022

Job	Truss	Truss Type	Qty	Ply	Southern Touch / 17	Mitchell Manor	154040004	
J0322-1382	КШЗ	GABLE	1	1	Job Reference (option	al)	131219991	
Comtech, Inc, Fayette	ville, NC - 28314,		8.4	430 s Aug	16 2021 MiTek Industr	ies, Inc. Wed Apr 614	4:24:33 2022 Page 1	
0-1-8		I	D:z9tQeuaeEwTQ6	FgPNEM	31tzKtIE-XDIGxpmRvIc	1b7GS49NyOTXKThW	/yyvZ3djUWtEzTPkC 0- _{1/-} 8	
Н							Н	
		3x6 FP =					Scale = 1:42.8	
123	4 5 6	7 8 9 10 11 12	13 14	15	16 17	18 19 2	20 21 22	
44 43 42	41 40 39	38 37 36 35 34	33 32 31	30	29 28	27 26 2	25 24 23	
3x4 =			3x6 FP =				3x4 =	
0-10-0 2-2-0 3-6	-0 + 4-10-0 + 6-2-0 + 7-6-0 -0 + 1.4.0 + 1.4.0 + 1.4.0	$\frac{1}{1}$ + 8-10-0 + 10-2-0 + 11-6-0 + 12-10-0 + 14-0 + 1	14-2-0 15-6-0 /	16-10-0	18-2-0 19-6-0 20-1	$\frac{0.0}{0}$ + $\frac{22-2-0}{1.40}$ + $\frac{23-6-0}{1.40}$	24-10-0 25-8-0 1.4.0 b.10.0	
0-10-0 1-4-0 1-4			140 140	1-4-0	1-4-0 1-4-0 1-4	-0 1-4-0 1-4-0	1-4-0 0-10-0	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-1 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) - - 23	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 113 lb	GRIP 244/190 FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.				
REACTIONS. All bearin (lb) - Max Grav	ngs 25-8-0. All reactions 250 lb or less 29, 28, 27, 26, 25, 24 mp (May, Ten, - All forces 25	at joint(s) 44, 23, 34, 35, 36, 37, 38, 39	, 40, 41, 42, 43, 32	2, 31, 30,				
	mp./max. ren Air 1010es 20							

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

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

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Q	ty	Ply	Southe	rn Touch / 17 N	litchell Manor		
J0322-1382	KW7	GABLE	1		1	lob Pot	erence (options	J)		151219992
Comtech, Inc, Fayetter	ville, NC - 28314,		ID:z9tQeu	8.4 aeEwTC	430 s Aug Q6FaPNEN	16 2021 M81tzKtl	MiTek Industrie E-?Pse99n3qbl	es, Inc. Wed Apr 61 CuCHredtvBxg4VD5s	4:24:34 2022 8hMpCrNE3Ph	Page 1 zTPkB
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					******					× ¹
26 25	24 23	22 21	20	19		18	17	16	15	14
3x4 —									Ň	
1-4-0 2 1-4-0 1	2-8-0 4-0-0 -4-0 1-4-0	5-4-0 6-8-0 8 1-4-0 1-4-0 1	3-0-0 9-4-0 -4-0 1-4-0		10-8-0 1-4-0		2-0-0 1-4-0	13-4-0 14-8- 1-4-0 1-4-0	0 <u>15-8-0</u> 0 1-0-0	<u>)</u>
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.06	DEFL. Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
ICDL 10.0 BCLL 0.0 BCDL 5.0	Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.01 WB 0.03 Matrix-R	Vert(CT) Horz(CT)	n/a 0.00	- 14	n/a n/a	999 n/a	Weight: 70 lb	FT = 209	%F, 11%E
LUMBER- TOP CHORD 2x4 SP No	.1(flat)		BRACING TOP CHOP	RD	Structura	al wood	sheathing dire	ctly applied or 6-0-0) oc purlins,	
BOT CHORD2x4 SP NoWEBS2x4 SP NoOTHERS2x4 SP No	.1(flat) .3(flat) .3(flat)		BOT CHOP	RD	except e Rigid cei	<pre>ccept end verticals. igid ceiling directly applied or 10-0-0 oc bracing.</pre>				
REACTIONS. All bearin	ngs 15-8-0.									

DNS. All bearings 15-8-0. (Ib) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

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

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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April 7,2022

818 Soundside Road Edenton, NC 27932

