

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0321-1694 Lot 49 Sierra Villas

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: E15505350 thru E15505363

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

North Carolina COA: C-0844



March 17,2021

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	Lot 49 Sierra Villas		
									E15505350
J0321-1694	ET1		Floor Supported Gable		1	1			
							Job Reference (optional)		
Comtech, Inc,	Fayetteville, NC - 28314,				8	8.330 s Oc	t 7 2020 MiTek Industries	, Inc. Tue Mar 16 15	5:08:53 2021 Page 1
	-			ID:1GKHPptsUE	BRSV9Dy	CFb7Gmz	3LdV-eCvoR23YD6SqKW	jW8OZDm7lqGHFFI	DdInem9U8RzaK2e
0.1.0									0.1.0
υще									٥H٩
									Scale = 1:18.6
			3×4 —						
1	2 21	3	4 3×4 -	5 22	6		7	8 23	9
			P 1						T
•	•	•		•	•		•	•	•
19									20
4									
÷	<u></u>	⊢l				1	<u>⊢</u>		
				NI -					
	Lei	101							
18	17	16	15	14	13		12	11	10
					10			••	.5
276 -	276 11	276 11	2×6	2v6	276	ш	276	276 11	276 -
340 -	2.00 []	210 11	210	370 11	230		240 11	210 1	340

						11-3-0						
						11-3-0						
Plate Offsets (2	(X,Y) [[4:0-1-8,Edge]										
	- 0	004.000		001		DEEL		(1)	1/-10	1.74		
LOADING (ps	ST)	SPACING-	2-0-0	CSI.		DEFL.	in	(IOC)	i/defi	L/d	PLATES	GRIP
TCLL 40.	.0	Plate Grip DOL	1.00	IC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.	.0	Lumber DOL	1.00	BC	0.00	Vert(CT)	n/a	-	n/a	999		
BCLL 0.	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL 5	5.0	Code IRC2015/TP	912014	Matrix	<-S						Weight: 67 lb	FT = 20%F, 11%E
LUMBER-						BRACING-						
TOP CHORD	2x4 SP	No.1(flat)				TOP CHOR	TOP CHORD		al wood	sheathing dire	ectly applied or 6-0-0	oc purlins,
BOT CHORD	DT CHORD 2x4 SP No.1(flat)							except e	except end verticals.			
WEBS	EBS 2x4 SP No.3(flat)						IORD Rigid ceiling directly applied or 10-0-0 oc bracing.					
bCLL 0.0 Rep stress filt TES WB 0.04 BCDL 5.0 Code IRC2015/TPI2014 Matrix-S LUMBER- TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.1(flat)					BRACING- TOP CHOR BOT CHOR	D	Structur except e Rigid ce	al wood end vertio	sheathing dire cals. ctly applied o	Weight: 67 lb ectly applied or 6-0-0 r 10-0-0 oc bracing.	FT = 20%F, 11%E	

REACTIONS. All bearings 11-3-0.

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

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

NOTES-

OTHERS

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

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

3) Gable requires continuous bottom chord bearing.

2x4 SP No.3(flat)

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.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 10-18=-10, 1-9=-100

Concentrated Loads (lb)

Vert: 4=-26 7=-26 21=-26 22=-26 23=-26



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

Job		Truss			Truss Type				Qty	Ply	Lot 49 \$	Sierra Villa	as				
																E1550	5351
J0321-1694		ET2			Floor Suppo	rted Gable			1	1							
											Job Ref	erence (or	otional)				
Comtech, Inc.	Favette	ille. NC - 2	8314.						8	.330 s Oc	t 7 2020	MiTek Ind	dustries. Inc.	. Tue Mar 16	15:08:54 20	021 Page	1
	.,	-, -	,					ID-1GKH	PotsUBRS	V9DvCFb	7Gmz8l	dV-6OTA	O4A Qahy	alii54S.II H0p	hbRv4kwtC)u1htzaK2	d
								12.10141	p.000.0				uun)	9.110 10021 100		.u	-
0- <u>1</u> -8																0- <u>1</u> -8	
																Scale -	1.33 1
																Could -	1.00.1
							3x4	=		3x6 I	FP =						
1	2	2	4	E	e	7	0	0	10	11	10	10	14	15	16	17	
I	2	3	4	5	0	/	0	9	10		12	13	14	15	10	17	_
e	•	-0	•	0	0	0		0	0		8	0	0	•			Ī
as 🗍																L.	36
4 1																HH I	4
⊣ Ш																	~
	0	-0	•	0	00	- 0	•	<u> </u>	0		0	9	•	•	<u> </u>	<u> </u>	1
10000000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	********	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		*******	******	******						******				
34	33	32	31	30	29	28 27	26	25	24	2	23	22	21	20	19	18	
214 -					2.46	- D -		2.4 -								244 -	
384 —					380	F —		384 —								3X4 —	

Γ			19-11-0			1
Plate Offsets (X,Y)	[8:0-1-8,Edge], [25:0-1-8,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 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl L/d - n/a 999 - n/a 999 18 n/a n/a	PLATES MT20 Weight: 90 lb	GRIP 244/190 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 wood sheathing dir except end verticals. Rigid ceiling directly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

19-11-0

TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly appl
BOT CHORD	2x4 SP No.1(flat)		except end verticals.
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0
OTHERS	2x4 SP No.3(flat)		

REACTIONS.

 DNS.
 All bearings 19-11-0.

 (Ib) Max Grav
 All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19

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.



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





L			7-9-12			
I			7-9-12			1
Plate Offsets (X,Y)	[3:0-1-8,Edge], [11:0-1-8,Edge], [15:0-1-	8,0-1-8], [16:0-1-8,0-1-8]				
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 YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-P	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	i (loc) l/defl L/d - n/a 999 - n/a 999 8 n/a n/a	PLATES MT20 Weight: 39 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 3 BOT CHORD 2x4 3 WEBS 2x4 3	SP No.1(flat) SP No.1(flat) SP No.3(flat)	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing direct except end verticals. Rigid ceiling directly applied or 1	tly applied or 6-0-0 0-0-0 oc bracing.	oc purlins,	

REACTIONS. All bearings 7-9-12.

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

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

NOTES-

OTHERS

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

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

3) Gable requires continuous bottom chord bearing.

2x4 SP No.3(flat)

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.



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





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)

TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-1-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

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.



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 MSIVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty Ply	Lot 49 Sierra Villas	
					E15505354
J0321-1694	ET5	Floor Supported Gable	1 1		
				Job Reference (optional)	T N 40 45 00 00 0004 D 4
Comtech, Inc, Fayette	ville, NC - 28314,		8.330 S OC	t 7 2020 Millek Industries, Inc.	Tue Mar 16 15:09:00 2021 Page 1
		ID:TGKHPp	ISUBRSV9DyCFD/G	mz8Ldv-xYqRvR9xaGLrgbisziv	IBSYCX2H6erMINDpGLLMuXzaK2X
0- <u>1</u> 78					0- <u>1</u> -8
11					
					Scale = 1:27.6
		3X4 —	3X6	FP —	
1 2	3 4	5 6 7 8	9 1	0 11 12	13 14 15
				<u>♦ </u>	
31 [] []	н н	H H H H	H	н н	
7					
				H H	
	****		×××××××××××××××××		
***********	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	
30 29	28 27	26 25 24 23 22	21	20 19	18 17 16
3x4 =		3x6 FP = 3x4 =	:		3x4 =

Γ			16-8-4			1
Plate Offsets (X,Y)	[7:0-1-8,Edge], [22:0-1-8,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 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl L/d - n/a 999 - n/a 999 16 n/a n/a	PLATES MT20 Weight: 77 lb	GRIP 244/190 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 wood sheathing dir except end verticals. Rigid ceiling directly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

16-8-4

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

REACTIONS. All bearings 16-8-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18, 17

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.



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

Job		Truss	Truss Ty	pe		Qty	Ply	Lot 49 Sierra Villa	as		
											E15505355
J0321-1694		ET6	Floor Su	pported Gable		1	1				
								Job Reference (or	otional)		
Comtech, Inc,	Fayettev	rille, NC - 28314,					8.330 s Oc	7 2020 MiTek Ind	dustries, Inc. Tue Mar	16 15:09:01 202	1 Page 1
					ID:1G	KHPptsUBR	SV9DyCFb7	Gmz8LdV-PkOq6n	AZLaTillK2c4i55p4D?	N 45ETyU?5vG	zzaK2W
0.4.0						·		•		- ,	0.4.0
٥Ha											٥Ho
											Scale = 1:23.4
						2×4 -					
						384 —					
1	2	3	4	5	6	7	8	9	10	11	12
			0	0				0			
	Ĕ	-		Ĕ		XH	Ĕ		Ĕ		
25											20
4 1											H 14
4											
		Ц				Ц	Ц	Ц	Ц	Ц	I
	•	•	•	•		•	•	•	•	•	
24	23	22	21	20	19	18	17	16	15	14	13
3×4 -					3×4 —						3×4 —
5,4 -					5,4 —						5A4 —

			14-2-0 14-2-0			
Plate Offsets (X,Y)	[7:0-1-8,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 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defi L/d - n/a 999 - n/a 999 13 n/a n/a	PLATES MT20 Weight: 66 lb	GRIP 244/190 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 wood sheathing direc except end verticals. Rigid ceiling directly applied or	tly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 14-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES-

OTHERS

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

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

3) Gable requires continuous bottom chord bearing.

2x4 SP No.3(flat)

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.



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



Job	Truss	Truss Type	Qty	Ply	Lot 49 Sierra Villas	
						E15505356
J0321-1694	F1	Floor	4	1		
					Job Reference (optional)	
Comtech, Inc, Faye	etteville, NC - 28314,			8.330 s Oc	t 7 2020 MiTek Industries, Inc. Tue Mar 16 15:09:04 202	1 Page 1
			ID:1GKHPptsUB	RSV9DyCF	b7Gmz8LdV-qJ4ylpCReVrG9C3dHCGojSiXdjpHlRIPAzJ2	11zaK2T
0-1-8						
₁₁₁ 1-3-0	2-5-12				2-3-4 1-6-0	0-1-8
						Scale: 3/16"=1'
	3x4	4x4 = 4x6 =	= 4x6 =	4x6	=	
3x6 = 3	$3x4 \equiv 3x4 \equiv$	4x4 = 3x6 FP =	3x4 4x4 =	3x6 FP =	3x4 = 3x4 = 3x4 = 4x4	=
1 2	3 4 5 6	8 9 10 11 12	13 14 15	16 17	18 19 20 21 22 23 24 25	26

										Å.						46 0-4-
44	43	42	41	40	39 38	37	36	35	34 33	32	31	30	29	28	27	
3x6 =	3x6 =	3x6 =	3x6 =	3x8 M1	18SHS FP $=$	4x6 =	3x10 =	4x6 =	3x8 M18SHS	FP =		3x6 =	3x6 =	$4x4 \equiv$	3x6 =	
				4x4 =	4x6 =				4x6 = 4	x4 =						

L	18-5-12			38-3-0					
1	18-5-12		19-9-4						
Plate Offsets (X	(,Y) [20:0-1-8,Edge], [32:0-1-8,Edge],	40:0-1-8,Edge]					1		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0) SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.80 BC 0.81 WB 0.67	DEFL. Vert(LL) -0.2 Vert(CT) -0.4 Horz(CT) 0.0	in (loc) 29 30-31 10 30-31 06 27	l/defl >803 >589 n/a	L/d 480 360 n/a	PLATES MT20 M18SHS	GRIP 244/190 244/190	
BCDL 5.0	Code IRC2015/1PI2014	Matrix-S					Weight: 200 lb	FT = 20%F, 11%E	
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	ral wood end verti eiling dire	sheathing dir cals. ectly applied c	rectly applied or 6-0-0 o	oc purlins,	
REACTIONS.	(size) 44=0-3-8 36=0-3-8 27=0-3-8								
	Max Grav 44=892(LC 3), 36=2438(LC 1	, 27=964(LC 4)							
FORCES. (Ib) TOP CHORD BOT CHORD	Hax. Comp./Max. Ten All forces 250 2-3=-1605/0, 3-4=-2641/0, 4-5=-2641/0 8-9=-1892/441, 9-11=-1892/441, 11-12 14-15=-456/906, 15-16=-2081/315, 16- 20-21=-3542/0, 21-22=-3542/0, 22-23= 43-44=0/962, 42-43=0/2228, 41-42=0/2 37-38=-717/1243, 36-37=-1610/0, 35-3 31-32=0/3345, 30-31=0/3345, 29-30=0	b) or less except when shown. 5-6=-2939/0, 6-7=-2939/0, 7-8 -406/1021, 12-13=0/2729, 13-' 8=-2081/315, 18-19=-3345/0, ' 2935/0, 23-24=-2935/0, 24-25= 303, 40-41=0/2939, 38-40=-203 =-1432/0, 34-35=-596/1360, 33 3294, 28-29=0/2450, 27-28=01	=-2939/0, 14=0/2729, 19-20=-3345/0, 1764/0 3/2411, 2-34=-69/2687, 046						
WEBS	2-44=.1278/0, 2-43=0/894, 3-43=-867/(11-37=-1257/0, 11-38=0/980, 8-38=-81 7-40=-542/0, 25-27=-1390/0, 25-28=0/(22-30=0/337, 14-36=-1788/0, 14-35=0/ 18-34=-917/0, 18-32=0/1220, 19-32=-5 20-31=-280/0	, 3-42=0/561, 12-36=-1694/0, 1 5/0, 8-40=0/1105, 5-42=-357/46 99, 24-28=-954/0, 24-29=0/659 398, 15-35=-1338/0, 15-34=0/ 5/0, 21-30=-351/0, 20-30=-87/0	2-37=0/1310, 5, 5-41=-405/171, 9, 22-29=-488/0, 1066, 695,						
NOTES- 1) Unbalanced i 2) All plates are 3) All plates are 4) Plates check 5) Pecommend	floor live loads have been considered for 9 MT20 plates unless otherwise indicated. 9 1.5x3 MT20 unless otherwise indicated. red for a plus or minus 1 degree rotation a 12x6 stronghacke, on edge. spaced at 10.	nis design. pout its center.	155 with 3-10d (0 131"	Y 3") naik			THORTH C	AROLIN	

- c 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.



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



lob	Truss	Truss Type	Otv	Plv	Lot 49 Sierra Villas		
	544		4.9	,			E15505357
J0321-1694	F1A	Floor	1	1	Job Reference (optional)		
Comtech, Inc, Fayer	tteville, NC - 28314,			8.330 s O	Oct 7 2020 MiTek Industries, Inc	. Tue Mar 16 15:09:09 20	21 Page 1
0-1-8			ID. TOKI IP PISODING	BDyCi Di	7 GINZOLUV-AI NIOW GASTI ZI ZX		GWZarizO
	, 1-10-0 , <mark>1</mark> -0-0	1-2-8,1-2-8,1-2-8,1-2-8,1-2-8,0-9-0			2-1-8 1-6-0		0-1-8
							$S_{cale}^{\Pi} = 1:64.9$
	3x4 =	3x6 = 3x4 = 4x8 =	4x6 = 33	<pre>k6 FP =</pre>			
3x4 = 3x	4 = 3x4 = 3	x4 3x6 FP = 3x4	4x4 ≡	4x4 3	= 3x4 $=$ 3x4 $=$	= 3x4 = 3x6 =	=
1 2 3	3 4 5 6	7 8 9 10 11 12 13 1542	15 16	17 18	1920 21 22 23	24 25 26	27
\$0							5 1 9
				<u>w</u>			
49 48	47 46 45	44 43 42 41 40 39 38 37	36	35 34	33 32 31	30 29	28
3x6 = 3x4 =	3x4 = 3x4 =	3x6 FP = 6x8 = 5x8 =	= 4x6 = 4	x6 =	4x4 = 3x6 =	3x6 = 3x6 =	3x6 =
	5	x8 = 3x6 2x6 2x6	3	3x8 M18SF	HS FP =		
		2x6					
L	10-11-8	14-9-8 18-7-8			38-3-0		
Plate Offsets (X,Y) [5	10-11-8 5:0-1-8,Edge], [11:0-1-8,Edge],	3-10-03-10-0 [21:0-1-8,Edge], [33:0-1-8,Edge], [40):0-3-0,Edge], [47:0-	1-8,Edge	19-7-8 e]		
				(1)			
TCLL 40.0	Plate Grip DOL 1.00) CSI.) TC 0.67	Vert(LL) -0.27	1 (IOC) 1 31-32	1/defi L/d I	MT20 244/19	0
TCDL 10.0	Lumber DOL 1.00	BC 0.73	Vert(CT) -0.37	31-32	>635 360 1	M18SHS 244/19	0
BCLL 0.0 BCDL 5.0	Code IRC2015/TPI2014	S WB 0.66 Matrix-S	Horz(C1) 0.04	28	n/a n/a	Weight: 215 lb FT =	20%F. 11%E
			5546146				
TOP CHORD 2x4 SP 2	2400F 2.0E(flat)		BRACING- TOP CHORD	Structu	ural wood sheathing directly as	pplied or 6-0-0 oc purling	s.
BOT CHORD 2x4 SP 2	2400F 2.0E(flat)			except	end verticals.		,
WEBS 2x4 SP I	No.3(flat)		BOT CHORD	Rigid ce	eiling directly applied or 6-0-0	oc bracing.	
REACTIONS. All bea (lb) - Max Up Max Gra	arings 7-8-0 except (jt=length) 4 lift All uplift 100 lb or less at jo av All reactions 250 lb or less 37=2603(LC 7), 37=2584(Li	I9=0-3-8, 28=0-3-8. int(s) except 38=-330(LC 4), 39=-433 at joint(s) 39, 40, 42 except 49=563(C 1), 41=411(LC 7), 28=916(LC 4)	3(LC 4), 40=-270(LC LC 3), 44=833(LC 3)	4)), 44=741	1(LC 1),		
FORCES. (lb) - Max. C TOP CHORD 2-3=-9 8-9=0/ 16-17=	Comp./Max. Ten All forces 25 06/0, 3-4=-1156/0, 4-5=-1156// 465, 9-11=0/465, 11-12=0/834 1585/0_17-19=-1585/0_19-2/	0 (lb) or less except when shown. 0, 5-6=-785/0, 6-7=-59/520, 7-8=-47/5 12-13=0/834, 13-14=0/2658, 14-15= 1=-2941/0, 20-21=-2941/0, 21-22=-32	535, =0/2640, +39/0				
22-23=	-3239/0, 23-24=-2729/0, 24-25	5=-2729/0, 25-26=-1660/0					
BOT CHORD 48-49= 41-42=	=0/593, 47-48=0/1166, 46-47=0 =-423/0, 40-41=-465/0, 39-40=-)/1156, 45-46=0/1156, 44-45=0/419, 4 465/0, 38-39=-1801/0, 37-38=-1801/0	42-44=-423/0,).				
36-37=	-1118/0, 35-36=0/829, 33-35=	0/2228, 32-33=0/2941, 31-32=0/2941	, 30-31=0/3035,				
29-30 WEBS 2-49=-	=0/2296, 28-29=0/992 788/0_2-48=0/435_3-48=-360/	0 6-44=-861/0 6-45=0/536 5-45=-57	70/0				
13-37=	=-1519/0, 13-38=-7/293, 11-40=	-71/281, 26-28=-1318/0, 26-29=0/93	0,				
25-29= 16-36=	=-884/0, 25-30=0/588, 23-30=-4 =-1308/0, 16-35=0/1028, 19-35	417/0, 23-31=0/277, 15-37=-1917/0, 1 =-874/0, 19-33=0/1057, 20-33=-491/0	15-36=0/1391,).				
22-31=	=-314/0, 21-31=-164/547, 13-39	9=0/1342, 8-41=-322/22, 11-39=-565/	0			mining	
NOTES-						"TH CARO	1111
1) Unbalanced floor live	loads have been considered for	or this design.			L. L	OFFEE	In's
 All plates are MT20 plates All plates are 1 5x3 M 	lates unless otherwise indicate	d.				10/1	· ····································
4) Plates checked for a p	plus or minus 1 degree rotation	about its center.			3	2	
5) Provide mechanical c	onnection (by others) of truss t	o bearing plate capable of withstandir	ng 330 lb uplift at joir	nt 38, 433	3 lb uplift at	SEAL	
6) Recommend 2x6 stro	ngbacks, on edge, spaced at 1	0-0-0 oc and fastened to each truss	with 3-10d (0.131" X	3") nails	s. –	036322	- <u>1</u> - E -
Strongbacks to be att	ached to walls at their outer en	ds or restrained by other means.					1 - 1
7) CAUTION, Do not ere	ect truss backwards.					N. END SER	123
LOAD CASE(S) Standa	ard					GINEE	R
 Dead + Floor Live (ba Uniform Loads (plf) 	nanced): Lumber Increase=1.0	U, Plate Increase=1.00				MA. GILB	in
Vert: 28-49=-	-10, 1-27=-100					minim	
Continued on page 2						March 17,2	2021
Continued on page 2							
WARNING - Verify de Design valid for use only a truss system. Before u	sign parameters and READ NOTES ON y with MiTek® connectors. This design use, the building designer must verify th a indicated is to prevent buckling of indi	THIS AND INCLUDED MITEK REFERENCE PA is based only upon parameters shown, and is for e applicability of design parameters and proper vidual trus web and/or abord members actively	GE MII-7473 rev. 5/19/202 or an individual building co ly incorporate this design Additional temperatures	0 BEFORE	USE. not erall		CO

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 property 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 **ANSUTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 49 Sierra Villas
					E15505357
J0321-1694	F1A	Floor	1	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	ille, NC - 28314,		8	3.330 s Oct	t 7 2020 MiTek Industries, Inc. Tue Mar 16 15:09:10 2021 Page 2

ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-eTRD?sGCDLbQt7WneTNCyjybA8tyi9qHZvmuFyzaK2N

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 10=-69 12=-69 8=-69 52=-69

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



						-	
Job	T	russ	Truss Type	Qty	Ply	Lot 49 Sierra Villas	
							E15505358
J0321-1694	E	2	Floor	2	1		
						Job Reference (optional)	
Comtech, Inc,	Fayetteville	le, NC - 28314,			3.330 s Oc	t 7 2020 MiTek Industries, Inc. Tue Mar 16 15:09:12 202	21 Page 1
			ID:1GKH	IPptsUBR	SV9DyCFt	b7Gmz8LdV-bsZ_QYISlyr86RgAltPg181xWyZBA4_a0DF	_JrzaK2L
1-3-0		2-3-0		⊢	2-3-4	1-6-0	0- <u>1</u> -8
							Scale = 1:50.6



	10-4-8	30-1-12						
Plate Offsets (X,Y)	[1:Edge.0-1-8], [3:0-1-8.Edge], [4:0-1-8.	Edael. [13:0-1-8.Edael. [2	5:0-1-8.Edge]	19-9-4				
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 0.68 BC 0.74 WB 0.62 Matrix-S	DEFL. in Vert(LL) -0.30 Vert(CT) -0.40 Horz(CT) 0.05	(loc) l/defl 23-24 >799 23-24 >583 20 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 157 lb	GRIP 244/190 FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood except end verti Rigid ceiling dire	sheathing dire cals. ectly applied o	ectly applied or 6-0-0 o r 6-0-0 oc bracing.	oc purlins,	
REACTIONS. (size) 34=Mechanical, 29=0-3-8, 20=0-3-8 Max Uplift 34=-9(LC 4) Max Grav 34=496(LC 3), 29=1919(LC 1), 20=998(LC 7) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-735/113, 3-4=-887/369, 4-5=-459/776, 5-6=0/1682, 6-7=0/1682, 7-8=-924/0, 8-10=-2485/0, 10-11=-2485/0, 11-12=-3641/0, 12-13=-3641/0, 13-14=-3751/0, 14-15=-3751/0, 15-16=-3079/0, 16-17=-3079/0, 17-18=-1837/0 BOT CHORD 33-34=-2/520, 32-33=-369/887, 31-32=-369/887, 30-31=-369/887, 29-30=-1066/80, 28-29=-417/19, 26-28=0/1798, 25-26=0/3051, 24-25=0/3641, 23-24=0/3641, 22-23=0/3474, 21-22=0/2558, 20-21=0/1084 WEBS 2-34=-693/3, 2-33=-154/298, 3-33=-207/348, 5-29=-965/0, 5-30=0/721, 4-30=-897/0, 4-31=0/281, 7-29=-1683/0, 7-28=0/1302, 8-28=-1254/0, 8-26=0/974, 11-26=-815/0, 11-25=0/1024, 12-25=-481/0, 18-20=-1/441/0, 18-21=-1/0471, 17-21=-100/2/0, 11-25=0/1024, 12-25=-0/270, 14 232= 20/276								
NOTES- 1) Unbalanced floor liv. 2) All plates are 3x4 M 3) Plates checked for a 4) Refer to girder(s) for 5) Provide mechanical 6) Recommend 2x6 str Strongbacks to be a	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about in 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	esign. is center. g plate capable of withsta c and fastened to each tru strained by other means.	nding 9 lb uplift at joint 3 ss with 3-10d (0.131" X	4. 3") nails.	4	UNITH CAREER	AROUN	

7) CAUTION, Do not erect truss backwards.



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 Affilia 818 Soundside Road Edenton, NC 27932

SINEERING

Job	Truss	Truss Type	Qty	Ply	Lot 49 Sierra Villas	E15505250	_
J0321-1694	F3	Floor	1	1		E 10000008	,
					Job Reference (optional)		
Comtech, Inc, Fayette	ville, NC - 28314,			.330 s Oc	t 7 2020 MiTek Industries, Inc.	. Tue Mar 16 15:09:14 2021 Page 1	
0.1.9			ID. IGRHEPISOBI	N3 V9DyC	FD/GIII26LUV-XEYKIENJII25IL		
0-1-8							
H⊢ <u>1-3-0</u> ⊢	1-10-12		2-3-	4 ⊢	1-6-0	0-1-8 Scale - 1:45	3
							.0
		3x6 =					
3x4 =	3x6 = 3x4	4x6 = 3x6 FP = 4	4x4 =	3x4	= 3x4 =	3x4 = 4x4 =	
1 2 3	4 5 6	7 8 9 10	11 12	13	14 15 16	17 18 19	
33				Ŕ		34	9
							1-4
		<u> </u>					T
32 31	30 29	28 27	26 25	24	23 22	21 20	
3x6 = 3x4 =	= $3x4 =$ $3x10$	0 = 4x6 = 3x8 M1	8SHS FP $=$		3x6 = 3x6 =	4x4 = 3x6 =	
		3x10 =	4x4 =				

	7-6-4			27-3-8			
	7-6-4		,	19-9-4			1
Plate Offsets (X,Y)	[13:0-1-8,Edge], [25:0-1-8,Edge], [30:0-	1-8,Edge], [31:0-1-8,Edge	9				
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 0.66 BC 0.73 WB 0.61 Matrix-S	DEFL0.3 Vert(LL) -0.3 Vert(CT) -0.4 Horz(CT) 0.0	n (loc) l/defl 0 23-24 >798 0 23-24 >583 5 20 n/a	L/d 480 360 n/a	PLATES MT20 M18SHS Weight: 143 lb	GRIP 244/190 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI	P 2400F 2.0E(flat) P 2400F 2.0E(flat) P No.3(flat)	· ·	BRACING- TOP CHORD BOT CHORD	Structural wood except end vert Rigid ceiling dir	sheathing dir icals. ectly applied c	ectly applied or 6-0-0 o	oc purlins,
REACTIONS. (siz Max L Max C FORCES. (lb) - Max. TOP CHORD 2-3= 8-10 BOT CHORD 31-3	 32=0-3-8, 29=0-3-8, 20=0-3-8 Jplift 32=-92(LC 4) Grav 32=335(LC 3), 29=1777(LC 1), 20= Comp./Max. Ten All forces 250 (lb) oi -399/449, 3-4=-399/449, 4-5=-399/449, 4 =-2551/0, 10-11=-2551/0, 11-12=-3691/ 5=-3786/0, 15-16=-3104/0, 16-17=-3104 2=-136/305, 30-31=-449/399, 29-30=-90 	1003(LC 7) less except when shown. 5-6=0/1366, 6-7=0/1366, 7 0, 12-13=-3691/0, 13-14=- /0, 17-18=-1849/0 3/55, 27-28=0/1875, 25-2 4 20 0/5750 20 21 20	7-8=-1010/0, 3786/0, 7=0/3112,				
WEBS 2-32 7-28 17-2 12-2	5=0/3691, 23-24=0/3691, 22-23=0/3504 =-403/180, 2-31=-425/128, 5-29=-803/0, =0/1291, 8-28=-1223/0, 8-27=0/940, 18- 2=0/717, 15-22=-545/0, 15-23=0/382, 1- 5=-467/0, 13-23=-369/430	, 21-22=0/2576, 20-21=0/ 5-30=0/848, 4-30=-436/0 20=-1449/0, 18-21=0/105 I-23=-296/18, 11-27=-785	1090), 7-29=-1658/0, 5, 17-21=-1011/0, /0, 11-25=0/992,				
NOTES- 1) Unbalanced floor liv 2) All plates are MT20 3) All plates are 1.5x3 4) Plates checked for : 5) Provide mechanical 6) Recommend 2x6 st Strongbacks to be a 2) CALITON Do part	ve loads have been considered for this de plates unless otherwise indicated. MT20 unless otherwise indicated. a plus or minus 1 degree rotation about i l connection (by others) of truss to bearin rongbacks, on edge, spaced at 10-0-0 c attached to walls at their outer ends or re voet trust backwards.	esign. ts center. ng plate capable of withsta ic and fastened to each tru strained by other means.	nding 92 lb uplift at joir uss with 3-10d (0.131" :	tt 32. X 3") nails.	2	UNITH C	AROJU SIGNI





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





	7-6-4		<u> </u>					
Plate Offsets (X,Y)	[1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,	Edge], [13:0-1-8,Edge], [2	25:0-1-8,Edge], [30:0-1-8	8,Edge], [31:0-1-8,E	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 0.84 BC 0.84 WB 0.65 Matrix-S	DEFL. in Vert(LL) -0.25 Vert(CT) -0.40 Horz(CT) 0.05	n (loc) l/defl 9 23-24 >813 9 23-24 >593 9 23-24 >593 5 20 n/a	L/d 480 360 n/a	PLATES GRIP MT20 244/190 M18SHS 244/190 Weight: 162 lb FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size Max G	2 2400F 2.0E(flat) 2 2400F 2.0E(flat) 2 No.3(flat) 3) 32=0-3-8, 29=0-3-8, 20=0-3-8 rav 32=1672(LC 3), 29=3759(LC 1), 20	=941(LC 7)	BRACING- TOP CHORD BOT CHORD	Structural wood s except end vertic Rigid ceiling direc 6-0-0 oc bracing:	theathing directly a als. tly applied or 10-0- 29-30,28-29.	pplied or 6-0-0 oc purlins, -0 oc bracing, Except:		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. FOP CHORD 2-3=-2390/0, 3-4=-2390/0, 4-5=-2390/0, 5-6=0/2214, 6-7=0/2316, 8-10=-1807/0, 10-11=-1807/0, 11-12=-3145/0, 12-13=-3145/0, 13-14=-3401/0, 14-15=-3401/0, 15-16=-2837/0, 16-17=-2837/0, 17-18=-1715/0 3OT CHORD 31-32=0/1758, 30-31=0/2390, 29-30=-372/911, 28-29=-911/0, 27-28=0/1064, 25-27=0/2440, 24-25=0/3145, 23-24=0/3145, 22-23=0/3172, 21-22=0/2377, 20-21=0/1020 NEBS 6-29=-901/0, 2-32=-2276/0, 2-31=0/838, 5-29=-2539/0, 5-30=0/2601, 4-30=-1625/0, 3-31=-5530, 7-29=-1882/0, 7-28=0/1058, 8-27=0/1016, 18-20=-1356/0, 18-21=0/967, 17-21=-920/0, 17-22=0/625, 15-22=-455/0, 15-23=0/311, 14-23=-322/0, 11-27=-866/0, 11-25=0/1099, 12-25=-513/0, 13-23=-199/555								
 NOTES- 1) Unbalanced floor live 2) All plates are MT20 3) All plates are 1.5x3 I 4) Plates checked for a 5) Recommend 2x6 str Strongbacks to be a 6) CAUTION, Do not e 7) Hanger(s) or other c down at 3-2-4, and device(s) is the resp 8) In the LOAD CASE(LOAD CASE(S) Stand 1) Dead + Floor Live (b Uniform Loads (plf) Vert: 20-32: Concentrated Loads Vert: 6=-796 	e loads have been considered for this de plates unless otherwise indicated. MT20 unless otherwise indicated. I plus or minus 1 degree rotation about it ongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re rect truss backwards. onnection device(s) shall be provided su 878 lb down at 5-2-4, and 857 lb down onsibility of others. S) section, loads applied to the face of th dard valanced): Lumber Increase=1.00, Plate =-10, 1-19=-100 (lb) 8(B) 35=-798(B) 36=-798(B) 37=-798(B)	esign. c and fastened to each tr strained by other means. ufficient to support concer at 7-2-4 on top chord. The truss are noted as fror Increase=1.00	russ with 3-10d (0.131" X ntrated load(s) 878 lb do he design/selection of su nt (F) or back (B).	(3") nails. wn at 1-2-4, 878 lb uch connection	and a state of the	SEAL 036322 MGINEER A. GILBH		

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



 			<u>19-11-0</u> 19-11-0		
Plate Offsets (X,Y)	[7:0-1-8,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 0.55 BC 0.69 WB 0.55 Matrix-S	DEFL. ir Vert(LL) -0.30 Vert(CT) -0.42 Horz(CT) 0.07	l (loc) l/defl L/d 18-19 >778 480 18-19 >567 360 15 n/a n/a	PLATES GRIP MT20 244/190 M18SHS 244/190 Weight: 105 lb FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	 2400F 2.0E(flat) 2400F 2.0E(flat) No.3(flat) 		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing.
REACTIONS. (siz	e) 24=0-3-8, 15=0-3-8				

Max Grav 24=1075(LC 1), 15=1075(LC 1)

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

 TOP CHORD
 2-3=-2007/0, 3-4=-3409/0, 4-5=-3409/0, 5-6=-4324/0, 6-7=-4324/0, 7-9=-4234/0, 9-10=-4234/0, 10-11=-3413/0, 11-12=-3413/0, 12-13=-2005/0

- BOT CHORD 23-24=0/1173, 22-23=0/2804, 20-22=0/3888, 19-20=0/4324, 18-19=0/4324, 17-18=0/3892, 16-17=0/2807, 15-16=0/1172
- WEBS 2-24=-1559/0, 2-23=0/1159, 3-23=-1109/0, 3-22=0/823, 5-22=-650/0, 5-20=0/876, 6-20=-418/0, 13-15=-1558/0, 13-16=0/1159, 12-16=-1116/0, 12-17=0/824, 10-17=-650/0,

10-18=0/466, 9-18=-268/67, 7-18=-603/291

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.



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





l	16-8-4 16-8-4							
Plate Offsets (X,Y) [7:0-1-8,Edge], [16:0-1-8,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 0.54 BC 0.91 WB 0.43 Matrix-S	DEFL. in Vert(LL) -0.22 Vert(CT) -0.30 Horz(CT) 0.05	n (loc) l/defl L/d 16-18 >892 480 16-18 >666 360 12 n/a n/a	PLATES MT20 M18SHS Weight: 87 lb	GRIP 244/190 244/190 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)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,		
REACTIONS. (size Max G	e) 20=Mechanical, 12=0-3-8 rav 20=898(LC 1), 12=898(LC 1)							

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

 TOP CHORD
 2-3=-1619/0, 3-4=-2661/0, 4-5=-2661/0, 5-6=-3022/0, 6-7=-3022/0, 7-9=-2612/0, 9-10=-1624/0

 BOT CHORD
 19-20=0/970, 18-19=0/2244, 16-18=0/2936, 15-16=0/3022, 14-15=0/3022, 13-14=0/2243, 12-13=0/970

 WEBS
 2-20=-1289/0, 2-19=0/903, 3-19=-869/0, 3-18=0/567, 10-12=-1289/0, 10-13=0/909,

9-13=-861/0, 9-14=0/557, 5-18=-374/0, 5-16=-160/451, 7-14=-702/0

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 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.



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





			14-2-0			
			14-2-0			
Plate Offsets (X,Y)	[5:0-1-8,Edge], [13:0-1-8,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 0.54 BC 0.78 WB 0.34 Matrix-S	DEFL. in Vert(LL) -0.15 Vert(CT) -0.20 Horz(CT) 0.03	(loc) l/defl L/d 11-12 >999 480 11-12 >854 360 9 n/a n/a	PLATES MT20 Weight: 73 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- BRACING- TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied except end verticals. BOT CHORD 2x4 SP No.1(flat) BOT CHORD Structural wood sheathing directly applied or 10-0-0 or WEBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 or					ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,
REACTIONS. (siz	ze) 15=0-3-8, 9=0-3-8 Grav 15=759(LC 1), 9=759(LC 1)					

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

TOP CHORD 2-3=-1309/0, 3-4=-2153/0, 4-5=-2153/0, 5-6=-2019/0, 6-7=-1326/0

BOT CHORD 14-15=0/813, 13-14=0/1799, 12-13=0/2153, 11-12=0/2153, 10-11=0/1821, 9-10=0/806

WEBS 2-15=-1080/0, 2-14=0/690, 3-14=-683/0, 3-13=0/649, 7-9=-1070/0, 7-10=0/723,

6-10=-689/0, 6-11=0/352, 5-11=-383/24, 4-13=-299/0

NOTES-

Unbalanced floor live loads have been considered for this design.

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

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

4) Recommend 2k6 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.



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

