

RE: J1220-5667 Lot 12 Forest Ridge Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J1220-5667

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.1

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 12 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E14064123	ET1	1/7/2021
2	E14064124	ET2	1/7/2021
3	E14064125	F1	1/7/2021
4	E14064126	F2	1/7/2021
5	E14064127	F2A	1/7/2021
6	E14064128	F3	1/7/2021
7	E14064129	F4	1/7/2021
8	E14064130	F5	1/7/2021
9	E14064131	F6	1/7/2021
10	E14064132	F7	1/7/2021
11	E14064133	F7A	1/7/2021
12	E14064134	FG1	1/7/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



January 07, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge	٦
					E14064123	.
J1220-5667	ET1	Floor Supported Gable	1	1		
					Inh Reference (ontional)	- 1

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:03 2020 Page 1  $ID: Y\_aRO? Cxglt9gUrlHW7gHdzqoOe-qr6LQLS176FICuvQfgGsxC10jCP0V1Bjna7RTqzlw2c$ 

0<sub>1</sub>1<sub>7</sub>8

0<sub>1</sub>1<sub>3</sub>8 Scale = 1:18.0

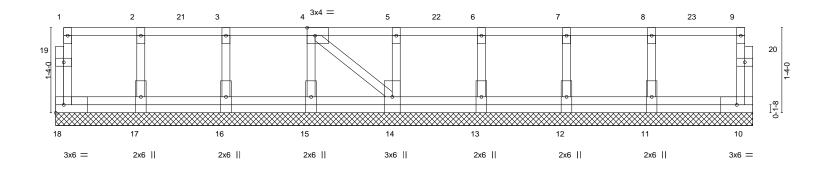


Plate Offsets (X,Y)	[4:0-1-8,Edge]		10-11-0					l l
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.18		a -	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.00	Vert(CT) n		n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.0	0 10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	, ,				Weight: 66 lb	FT = 20%F, 11%E

**BRACING-**

LUMBER-

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

except end verticals.

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

REACTIONS.

NS. All bearings 10-11-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

### NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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=-92 7=-92 21=-92 22=-92 23=-95



February 12,2020



Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge	٦
					E14064124	.
J1220-5667	ET2	Floor Supported Gable	1	1		
					Inh Reference (ontional)	- 1

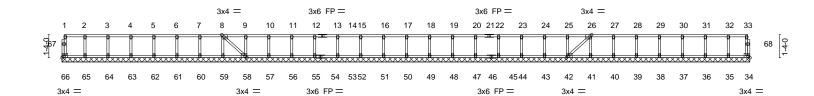
Comtech. Inc.,

0-11-8

Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:05 2020 Page 1 ID:Y\_aRO?Cxglt9gUrlHW7gHdzqoOe-mEE5r1THejVTRB3om5lK1d7O705Rzx\_0FucYXizlw2a

Scale = 1:66.9



						39-11-0						
'						39-11-0						1
Plate Offse	ts (X,Y)	[8:0-1-8,Edge], [26:0-1-8,	Edge], [42:0-	1-8,Edge], [58	:0-1-8,Edge	e]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.ó	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	` -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	42	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	-S						Weight: 176 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD BOT CHORD

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

2x4 SP No.3(flat) WEBS **OTHERS** 2x4 SP No.3(flat) **BRACING-**

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

except end verticals.

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

REACTIONS. All bearings 39-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 66, 34, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 53, 52, 51, 50, 49, 48, 47, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35

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.

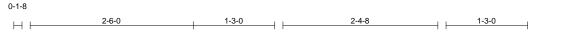




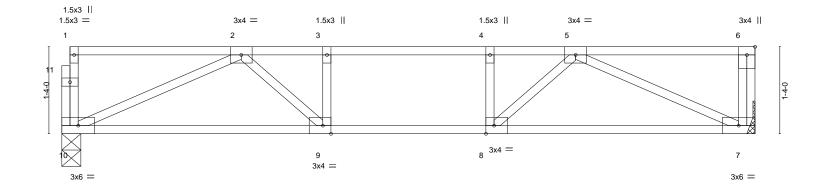
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Lot 12 Forest Ridge Qty Ply E14064125 J1220-5667 F1 Floor Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:06 2020 Page 1 ID:Y\_aRO?Cxglt9gUrlHW7gHdzqoOe-EQoU2NUwP1dK3Le\_KppZZrfUsQMgiJ99TYL648zlw2Z



Scale = 1:17.7



10-7-8 10-7-8 Plate Offsets (X,Y)--[8:0-1-8,Edge], [9:0-1-8,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d Plate Grip DOL 40.0 1.00 TC 0.38 Vert(LL) -0.07 9-10 >999 480 244/190 MT20

**TCLL** 10.0 BC 0.33 360 TCDL Lumber DOL 1.00 Vert(CT) -0.109-10 >999 BCLL 0.0 Rep Stress Incr YES WB 0.29 Horz(CT) 0.02 n/a n/a BCDL 5.0 Code IRC2015/TPI2014 Matrix-S Weight: 54 lb FT = 20%F, 11%E **BRACING-**

LUMBER-

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

2x4 SP No.3(flat) WEBS

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

except end verticals.

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

**REACTIONS.** (lb/size) 10=564/0-3-8, 7=571/Mechanical

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

2-3=-1188/0, 3-4=-1188/0, 4-5=-1188/0 TOP CHORD **BOT CHORD** 9-10=0/958, 8-9=0/1188, 7-8=0/961

**WEBS** 2-10=-1048/0, 5-7=-1057/0, 5-8=0/454, 2-9=0/455

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

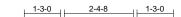




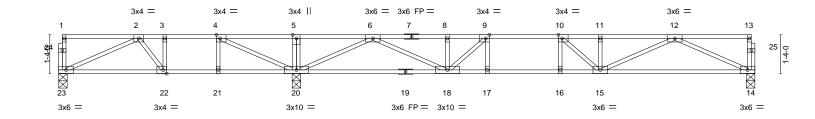
Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge
					E14064126
J1220-5667	F2	Floor	2	1	
					Job Reference (optional)

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:07 2020 Page 1  $ID: Y\_aRO? Cxglt9gUrlHW7gHdzqoOe-idMsGjVYALlBgVDBuWLo62CcbqcARiNJiC5fcbzlw2YallBgVDBuWLo62CcbqdbyAAllBgVDBuWLo62CcbqdbyAAllBgVDBuWLo62CcbqdbyAAllBgVDBuWLo62CcbqdbyAAllBgVDBuWLo62CcbqdbyAAllBgVDByAAllBgVDBuWLo64CcbqdbyAAllBgVDByAAllBgVDByAAllBgVDByAAllBgVDByAAllBgVDByAAllBgVDByAAllBgVDByAAllBgV$ 

0-1-8 0-10-0



0-1-8 Scale = 1:39.6



		8-2-0		1				23-11-0					
	8-2-0			1	15-9-0								
Plate Offsets	Plate Offsets (X,Y) [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,				0-1-8,Edge]								
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP		
TCLL 40	0.Ó	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.17 15-1	ó >999	480	MT20	244/190		
TCDL 10	0.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.22 15-1	6 >838	360				
BCLL (	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	4 n/a	n/a				
BCDL 5	5.0	Code IRC2015/TF	PI2014	Matrix	(-S					Weight: 121 lb	FT = 20%F, 11%E		

LUMBER-TOP CHORD

WEBS

2x4 SP No.1(flat)

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

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

except end verticals.

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

REACTIONS. (lb/size) 23=321/0-3-8, 20=1476/0-3-8, 14=794/0-3-8

Max Grav 23=399(LC 3), 20=1476(LC 1), 14=807(LC 7)

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

TOP CHORD  $2\text{-}3\text{=-}576/210,\ 3\text{-}4\text{=-}576/210,\ 4\text{-}5\text{=}0/819,\ 5\text{-}6\text{=}0/819,\ 6\text{-}8\text{=-}2093/0,\ 8\text{-}9\text{=-}2093/0,\ 8\text{-}2093/0,\ 8\text{-}2093/0,\ 8\text{-}2093/0,\ 8\text{-}2093/0,\ 8\text{-}2093/$ 9-10=-2436/0, 10-11=-2309/0, 11-12=-2309/0

22-23=-67/604, 21-22=-210/576, 20-21=-210/576, 18-20=0/1100, 17-18=0/2436,

16-17=0/2436, 15-16=0/2436, 14-15=0/1491 WEBS 5-20=-251/0, 2-23=-659/75, 4-20=-1113/0, 2-22=-273/0, 6-20=-1846/0, 6-18=0/1156,

12-14=-1636/0, 12-15=0/904, 11-15=-251/25, 10-15=-400/107, 9-18=-679/0

### NOTES-

BOT CHORD

- 1) 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





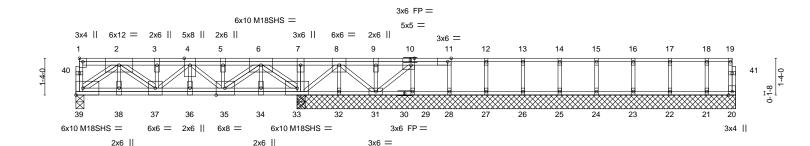
Γ	Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge
						E14064127
	J1220-5667	F2A	Floor	1	1	
- 1						I loh Reference (ontional)

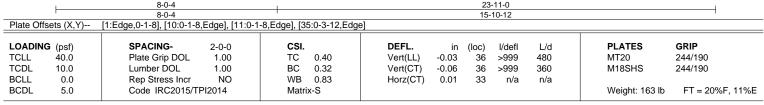
8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:10 2020 Page 1 

0-1-8

H-1-3-0 1-0-14

0-1-8 Scale = 1:41.8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-8 | 1-2-





LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP 2400F 2.0E(flat) except end verticals. 2x4 SP No.3(flat)

WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 32-33,31-32.

REACTIONS. All bearings 15-10-12 except (jt=length) 39=0-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) except 39=3198(LC 1), 20=266(LC 1), 33=6051(LC 1), 33=6051(LC 1), 32=470(LC 1), 31=1404(LC 1), 29=648(LC 1), 28=1270(LC 1), 27=1238(LC 1), 26=1241(LC 1), 25=1239(LC 1), 24=1242(LC 1), 23=1232(LC 1), 22=1270(LC 1), 21=1125(LC 1)

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

TOP CHORD 1-39=-520/0, 19-20=-264/0, 2-3=-5006/0, 3-4=-5068/0, 4-5=-4015/0, 5-6=-3949/0,

6-7=0/2814, 7-8=0/2639, 8-9=0/628, 9-10=0/628

**BOT CHORD** 38-39=0/3531, 37-38=0/3531, 36-37=0/5150, 35-36=0/5150, 34-35=0/1265, 33-34=0/1265,

32-33=-1102/0, 31-32=-1102/0

7-33=-1527/0, 2-39=-4385/0, 2-37=0/1912, 3-37=-1098/0, 6-33=-5289/0, 6-35=0/3479, 5-35=-1167/0, 8-33=-1887/0, 8-32=-462/0, 8-31=0/625, 9-31=-1151/0, 10-31=-934/0, WEBS 10-29=-640/0, 11-28=-1255/0, 12-27=-1225/0, 13-26=-1227/0, 14-25=-1226/0,

15-24=-1229/0, 16-23=-1219/0, 17-22=-1257/0, 18-21=-1112/0, 4-35=-1498/0

### 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) The Fabrication Tolerance at joint 28 = 3%, joint 27 = 3%, joint 12 = 3%, joint 26 = 3%, joint 13 = 3%, joint 25 = 3%, joint 14 = 3%, joint 24 = 3%, joint 15 = 3%, joint 23 = 7%, joint 16 = 7%, joint 22 = 3%, joint 17 = 3%
- 5) Plates checked for a plus or minus 1 degree rotation about its center.
- 6) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.

### LOAD CASE(S) Standard Except:

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

Vert: 20-39=-10, 1-19=-920



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



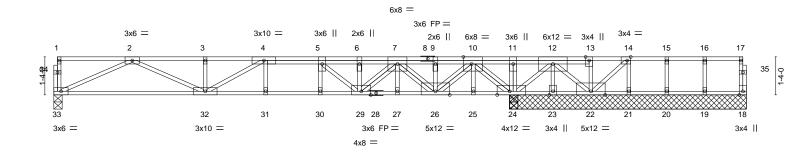
Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge
					E14064128
J1220-5667	F3	Floor Girder	1	1	
					Job Reference (optional)

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:12 2020 Page 1  $ID: Y\_aRO? Cxglt9gUrlHW7gHdzqoOe-3a9IJQZg?tOUnG58h3wzp6vRIrHp6sb2sUpQHozlw2Table Action (Color of the Color of the Color$ 

6-0-0 oc bracing: 25-26,24-25,23-24,22-23.



0-1-8 Scale = 1:40.4 1-2-8



Plata Officet	16-3-8 16-3-8 te Offsets (X,Y) [10:0-3-8,Edge], [14:0-1-8,Edge], [24:0-5-4,Edge]								24-3-12 8-0-4				
riale Olisei	15 (\(\times, 1)==	[10.0-3-6,Euge], [14.0-1-6	6,⊑uge], [24.0	-5-4,Eugej									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.15	30	>999	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.21	30	>903	360			
BCLL	0.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.03	24	n/a	n/a			
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S	` ′					Weight: 155 lb	FT = 20%F, 11%E	

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. 2x4 SP No.3(flat) WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

REACTIONS. All bearings 8-3-12 except (jt=length) 33=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 23=-897(LC 1), 22=-547(LC 1), 21=-476(LC 1)

Max Grav All reactions 250 lb or less at joint(s) 18, 20, 19 except 33=925(LC 1), 24=4523(LC 1), 24=4523(LC 1)

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

TOP CHORD  $2-3=-2807/0,\ 3-4=-2807/0,\ 4-5=-3273/0,\ 5-6=-3213/0,\ 6-7=-3151/0,\ 7-9=0/616,$ 9-10=0/616, 10-11=0/5015, 11-12=0/5015, 12-13=0/699, 13-14=0/694

**BOT CHORD** 32-33=0/1744, 31-32=0/3272, 30-31=0/3272, 29-30=0/3272, 27-29=0/1413, 26-27=0/1413,

25-26=-2700/0, 24-25=-2700/0, 23-24=-2286/0, 22-23=-2286/0

WEBS 11-24=-321/0, 10-24=-2995/0, 10-26=0/2825, 7-26=-2598/0, 7-29=0/2330, 6-29=-1612/0,

5-29=-145/431, 12-24=-3530/0, 2-33=-1914/0, 2-32=0/1175, 12-23=0/877,

12-22=0/2099, 14-22=-940/0, 14-21=0/487, 4-32=-786/0

### NOTES-

- 1) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 897 lb uplift at joint 23, 547 lb uplift at joint 22 and 476 lb uplift at joint 21.
- 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1330 lb down at 10-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 18-33=-10, 1-17=-100

Concentrated Loads (lb)

Vert: 6=-1250(F)



February 12,2020



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

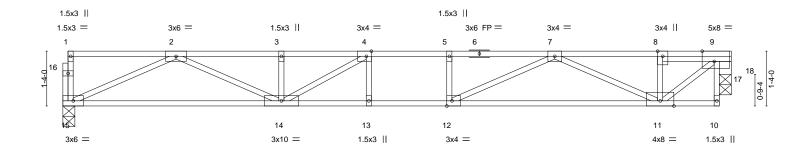
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Lot 12 Forest Ridge Qty Ply E14064129 J1220-5667 F4 Floor Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:13 2020 Page 1 ID:Y\_aRO?Cxglt9gUrlHW7gHdzqoOe-Xnj7WmaJmAWKPQgLEnRCLJSgeEeOrPtB48YzqEzlw2S





Dista Offer	. t- (V V)	[4.0.4.0.5]	-l1 [40:0 4	0.5.11		16-3-0					
Plate Offse	ets (X,Y)	[4:0-1-8,Edge], [9:0-3-8,E	agej, [12:0-1	-8,Eagej							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.20 13-1	4 >970	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.25 11-1	2 >757	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03 1	8 n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	<-S	' '				Weight: 84 lb	FT = 20%F, 11%E

16-3-0

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. 2x4 SP No.3(flat) WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 15=868/0-3-8, 18=861/0-3-8

4x4 SP No.2(flat)

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

TOP CHORD  $2-3=-2577/0,\ 3-4=-2577/0,\ 4-5=-2848/0,\ 5-7=-2848/0,\ 7-8=-1040/0,\ 8-9=-1040/0$ 

**BOT CHORD** 14-15=0/1620, 13-14=0/2848, 12-13=0/2848, 11-12=0/2214

WEBS 9-11=0/1289, 2-15=-1777/0, 2-14=0/1058, 3-14=-282/10, 7-11=-1298/0, 7-12=0/848,

4-14=-606/55, 9-18=-875/0

### NOTES-

**OTHERS** 

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

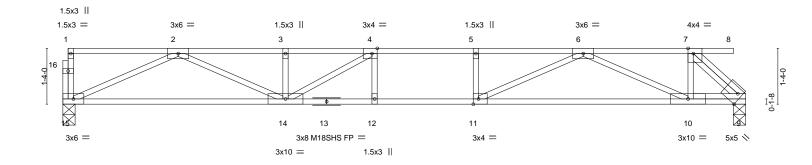




Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge
					E14064130
J1220-5667	F5	Floor	1	1	
					Job Reference (optional)
Comtoch Inc. Equation	villa NC 20200		0 1	120 c Mar 1	11 2019 MiTak Industries Inc. Wod Feb 12 00:55:14 2020 Page 1

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⊢		7-6-0		8-7-12 9-9-8			16-3-8	
Plate Offse	ets (X,Y)	7-6-0 [4:0-1-8,Edge], [7:0-1-8,Edge], [9:Edg	e,0-3-0], [11:0-1-8,Edge]	' 1-1-12 ' 1-1-12			6-6-0	
LOADING TCLL	(psf) 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.65	DEFL. Vert(LL) -(	in (loc) 0.25 12-14	l/defl L/d >761 480	PLATES MT20	<b>GRIP</b> 244/190
TCDL BCLL	10.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.89 WB 0.52		0.32 12-14 0.05 9	>609 360 n/a n/a	M18SHS	244/190
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	, ,			Weight: 83 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat)

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. 2x4 SP No.3(flat) **BOT CHORD** WEBS Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 15=880/0-3-8, 9=862/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2631/0, 3-4=-2631/0, 4-5=-2908/0, 5-6=-2908/0, 6-7=-908/0 **BOT CHORD** 14-15=0/1646, 12-14=0/2908, 11-12=0/2908, 10-11=0/2165, 9-10=0/909

**WEBS**  $7-10=0/589, \ 7-9=-1225/0, \ 2-15=-1807/0, \ 2-14=0/1088, \ 3-14=-289/18, \ 6-10=-1389/0, \ 6-11=0/960, \ 5-11=-285/0, \ 2-14=0/1088, \ 3-14=-289/18, \ 6-10=-1389/0, \ 6-11=0/960, \ 5-11=-285/0, \ 6-11=0/960, \ 5-11=-285/0, \ 6-11=0/960, \ 5-11=-285/0, \ 6-11=0/960,$ 

4-14=-642/44

### NOTES-

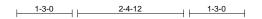
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



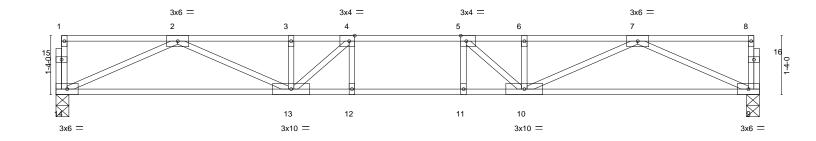
Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge
					E14064131
J1220-5667	F6	Floor	3	1	
					Joh Reference (ontional)

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:15 2020 Page 1 





0<sub>1</sub>1<sub>8</sub> Scale = 1:26.0



-				15-10-12 15-10-12	
Plate Offse	ets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]	T		
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.48	Vert(LL) -0.17 12-13 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.22 12-13 >849 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.04 9 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 80 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

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

**BRACING-**

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

except end verticals.

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

**REACTIONS.** (lb/size) 14=854/0-3-8, 9=854/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2503/0, 3-4=-2503/0, 4-5=-2738/0, 5-6=-2503/0, 6-7=-2503/0 **BOT CHORD**  $13\text{-}14\text{=}0/1593,\ 12\text{-}13\text{=}0/2738,\ 11\text{-}12\text{=}0/2738,\ 10\text{-}11\text{=}0/2738,\ 9\text{-}10\text{=}0/1593$ 

**WEBS** 2-14=-1748/0, 2-13=0/1006, 7-9=-1748/0, 7-10=0/1006, 5-10=-599/29, 4-13=-599/29

### NOTES-

- 1) 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) 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.





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 12 Forest Ridge E14064132 J1220-5667 F7 Floor 8 Job Reference (optional)

Comtech. Inc., Fayetteville, NC 28309

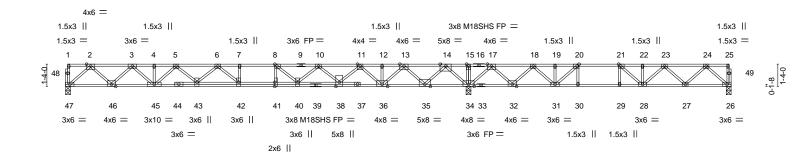
8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:17 2020 Page 1 ID:Y\_aRO?Cxglt9gUrlHW7gHdzqoOe-PYyeM7dpqP0mt1\_6TdW8W9dFds0pn9Fn?lWBz0zlw2O

0-1-8 1-3-0 2-0-8 2-4-8 0-1-8 Scale = 1:69.1

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

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

except end verticals.



H	24-2-0 24-2-0								39-11-0 15-9-0						
Plate Offse	ts (X,Y)	[8:0-1-8,Edge], [20:0-1-8,			1:0-3-0,0-0-0	0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP			
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.38	42	>752	480	MT20	244/190			
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.52	42	>559	360	M18SHS	244/190			
BCLL	0.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.06	34	n/a	n/a					
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 222 lb	FT = 20%F, 11%E			

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 

WEBS 2x4 SP No.3(flat)

REACTIONS.

**BOT CHORD** 

(lb/size) 47=1127/0-3-8, 34=2662/0-3-8, 26=562/0-3-8

Max Uplift 26=-9(LC 3)

Max Grav 47=1159(LC 3), 34=2662(LC 1), 26=725(LC 4)

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

TOP CHORD 2-3=-2191/0, 3-4=-3744/0, 4-5=-3744/0, 5-6=-4866/0, 6-7=-5296/0, 7-8=-5296/0,

8-10=-4832/0, 10-11=-3721/0, 11-12=-1983/85, 12-13=-1983/85, 13-14=0/997,

14-15=0/3786, 15-17=0/3786, 17-18=-149/2166, 18-19=-1325/1462, 19-20=-1325/1462,

20-21=-1908/812, 21-22=-1936/310, 22-23=-1936/310, 23-24=-1242/108

46-47=0/1269, 45-46=0/3068, 43-45=0/4424, 42-43=0/5202, 41-42=0/5296, 40-41=0/5296, 38-40=0/4414, 36-38=0/2967, 35-36=-417/959, 34-35=-2150/0, 32-34=-2683/0,

31-32=-1777/852, 30-31=-812/1908, 29-30=-812/1908, 28-29=-812/1908,

27-28=-203/1689 26-27=-30/774

WEBS 2-47=-1687/0, 2-46=0/1283, 3-46=-1219/0, 3-45=0/920, 5-45=-924/0, 5-43=0/599,

6-43=-474/0, 6-42=-345/475, 14-34=-2178/0, 14-35=0/1776, 13-35=-1735/0,

13-36=0/1444, 11-36=-1379/0, 11-38=0/1061, 10-38=-981/0, 10-40=0/691, 8-40=-1067/0, 8-41=-157/483, 17-34=-1626/0, 17-32=0/1262, 18-32=-1205/0, 18-31=0/835,

19-31=0/278, 20-31=-1430/0, 20-30=0/387, 24-26=-1028/40, 24-27=-109/652, 23-27=-621/131, 23-28=-145/336, 22-28=-324/0, 21-28=0/770, 21-29=-349/0

### 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 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 26.
- 6) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



February 12,2020



Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge
					E14064133
J1220-5667	F7A	Floor	1	1	
			1	1	Joh Reference (ontional)

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:19 2020 Page 1 ID:Y\_aRO?Cxglt9gUrlHW7gHdzqoOe-Mw4Onpe4L0GU7L7Ub2Ydbaie0fgTF7N4T3?I1uzlw2M

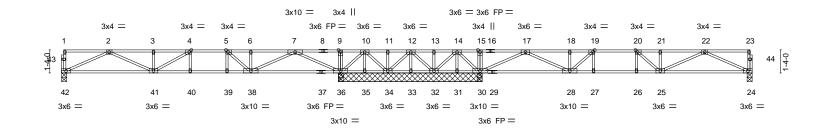
0-1-8

2-6-0 2-0-0 2-0-0 1-3-0

1-2-8 1-2-8 1-2-8 1-2-8 1-1-12

1-3-0 2-4-4 11-3-0

0-1-8 Scale = 1:66.6



		16-0-0			1	24-3-12	1			39-11-0	
	16-0-0					8-3-12		15-7-4	1		
Plate Offse	ts (X,Y)	[4:0-1-8,Edge], [5:0-1-8,E	dge], [19:0-1	-8,Edge], [20:	0-1-8,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.19 40-41	>996	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.26 40-41	>737	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05 24	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	(-S					Weight: 209 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

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

except end verticals.

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

REACTIONS. All bearings 8-3-12 except (jt=length) 42=0-3-8, 24=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 34, 33 except 35=-211(LC 9), 32=-188(LC 4), 31=-285(LC 4) Max Grav All reactions 250 lb or less at joint(s) 34, 33, 32, 31 except 42=762(LC 3), 36=1745(LC 3), 36=1734(LC

1), 30=1703(LC 7), 30=1694(LC 1), 24=743(LC 4)

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

TOP CHORD 2-3=-2141/0, 3-4=-2141/0, 4-5=-2108/0, 5-6=-1561/0, 6-7=-1561/0, 7-9=0/1388,

9-10=0/1382, 10-11=0/321, 11-12=0/321, 12-13=0/328, 13-14=0/328, 14-15=0/1405,

15-17=0/1411, 17-18=-1530/0, 18-19=-1530/0, 19-20=-2020/0, 20-21=-2042/0,

21-22=-2042/0

21-21-23-24 41-42=0/1391, 40-41=0/2108, 39-40=0/2108, 38-39=0/2108, 36-38=0/398, 35-36=-674/0, 34-35=-674/0, 31-32=-697/0, 30-31=-697/0, 28-30=0/416, 27-28=0/2020, 26-27=0/20200, 26-27=0/2020, 26-27=0/2020, 26-27=0/2020, 26-27=0/2020, 26-27 **BOT CHORD** 

25-26=0/2020, 24-25=0/1351

WFBS 2-42=-1525/0, 2-41=0/830, 3-41=-294/0, 7-36=-1967/0, 7-38=0/1287, 5-38=-808/0,

 $10 - 36 = -946/0, \ 10 - 34 = 0/504, \ 14 - 32 = 0/524, \ 14 - 31 = -18/261, \ 14 - 30 = -945/0, \ 17 - 30 = -1915/0, \ 10 - 36 = -946/0, \ 10 - 34 = 0/504, \ 14 - 32 = 0/524, \ 14 - 31 = -18/261, \ 14 - 30 = -945/0, \ 17 - 30 = -1915/0, \ 10 - 34 = 0/504, \$ 

 $17\text{-}28\text{=}0/1234,\ 22\text{-}24\text{=-}1482/0,\ 22\text{-}25\text{=-}0/763,\ 21\text{-}25\text{=-}261/0,\ 19\text{-}28\text{=-}735/0}$ 

### NOTES-

- 1) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 33 except (jt=lb) 35=211, 32=188, 31=285.
- 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.



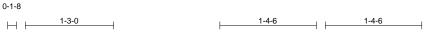


Job	Truss	Truss Type	Qty	Ply	Lot 12 Forest Ridge
					E14064134
J1220-5667	FG1	Floor Girder	1	1	
			1	1	Joh Reference (ontional)

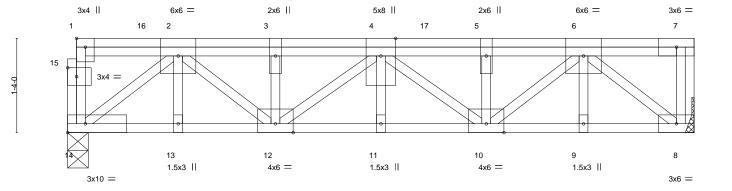
Comtech. Inc.,

Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Feb 12 09:55:20 2020 Page 1 ID:Y\_aRO?Cxglt9gUrlHW7gHdzqoOe-q7em\_9fi6KOLkVih9l4s7oEuz35D\_btDhjlrZLzlw2L



Scale = 1:16.3



_	8-10-4	
	8-10-4	
ΊX Y	[1:Edge 0-1-8] [15:0-1-8 0-1-8]	

Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [15:0-1-8,0-1-8]													
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Lumber DOL 1.	00 TC 00 BC VO WB		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.06 0.02	(loc) 11 11 8	I/defI >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 66 lb	<b>GRIP</b> 244/190  FT = 20%F, 11%E				

LUMBER-

WEBS

**BRACING-**

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

except end verticals.

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

**REACTIONS.** (lb/size) 14=1475/0-3-8, 8=1350/Mechanical

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

2-3=-2485/0, 3-4=-2485/0, 4-5=-2414/0, 5-6=-2414/0 TOP CHORD

BOT CHORD 13-14=0/1625, 12-13=0/1625, 11-12=0/2734, 10-11=0/2734, 9-10=0/1566, 8-9=0/1566

**WEBS**  $2-14=-2067/0,\ 2-12=0/1119,\ 3-12=-500/0,\ 6-8=-2003/0,\ 6-10=0/1104,\ 5-10=-436/0,\ 4-10=-404/0,\ 4-12=-315/0,\ 4-10=-404/0,\$ 

### NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 473 lb down at 1-1-12, 471 lb down at 3-1-12, and 471 lb down at 5-1-12, and 471 lb down at 7-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 8-14=-10. 1-7=-100

Concentrated Loads (lb)

Vert: 3=-471(B) 6=-471(B) 16=-473(B) 17=-471(B)



February 12,2020



## Symbols

# PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE



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

# LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

### **BEARING**



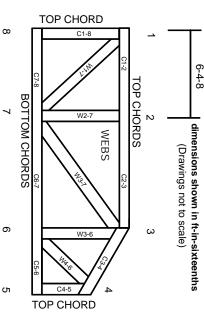
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

## Industry Standards:

National Design Specification for Metal Building Component Safety Information. Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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

# **General Safety Notes**

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.