

RE: J0221-1194 Weaver / 10 West Park / Harnett Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0221-1194 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2015/TPI2014 Wind Code: N/A Roof Load: N/A psf Design Program: MiTek 20/20 8.3 Wind Speed: N/A mph Floor Load: 55.0 psf

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

No.	Seal#	Truss Name	Date
1	E15535894	F1	3/24/2021
2	E15535895	F2	3/24/2021
3	E15535896	F3	3/24/2021
4	E15535897	F4	3/24/2021
5	E15535898	F4A	3/24/2021
6	E15535899	F5	3/24/2021
7	E15535900	F7	3/24/2021
8	E15535901	F7A	3/24/2021
9	E15535902	KW4	3/24/2021
10	E15535903	KW5	3/24/2021
11	E15535904	KW6	3/24/2021
12	E15535905	KW7	3/24/2021

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.



Γ	lob	Truss	Truss Type	Qty	Ply	Weaver / 10 West Park / Harnett				
	10221-1194	F1	Floor	3	1	E15535894				
				-		Job Reference (optional)				
	Comtech, Inc, Fayettev	rille, NC - 28314,				7 2020 MiTek Industries, Inc. Wed Mar 24 13:59:01 2021 Page 1				
			ID:6QM6oUdKO1jfjINWahDSvtyxoet-JckQJDjiryLBx5K6haC5uEXQCOv?LfOLufaxxPzXiK8							

0-1-8

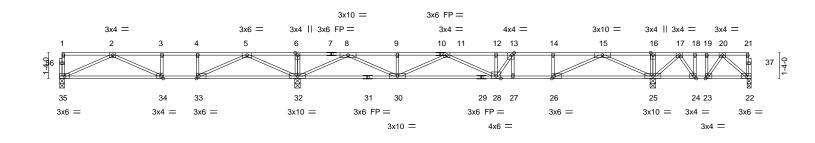
HI--

2-6-0

1-8-12

0-9-0 0-9-0

0-9-0 1-11-8 1-3-0 0-5-12 1-3-00-1-8 Scale = 1:59.8



L	12-4-4			9-12				35-11-0	
	12-4-4	1 1 0 Educit 100:0 4 0 Educi		-5-8	-1		1	5-1-4	
Plate Offsets (X,Y	) [13:0-1-8,Edge], [23:0-1-8,Edge], [24:0-	1-8,Edgej, [26:0-1-8,Edge	ej, [33:0-1-8,Edgej, [34	1:0-1-8,Edg	ej				
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	<b>CSI.</b> TC 0.88 BC 0.78 WB 0.74 Matrix-S	Vert(CT) -0.	in (loc) 30 27-28 39 27-28 03 25	l/defl >747 >568 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 183 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E	
BCDL 5.0		Wattix-5					Weight. 105 lb	FT = 2070F, TT70E	
BOT CHORD 2x 22	4 SP No.1(flat) 4 SP No.1(flat) *Except* -29: 2x4 SP 2400F 2.0E(flat) 4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	lirectly applied or 2-2-0 o	oc purlins,	
(lb) - M M FORCES. (lb) - I FOP CHORD 2	All bearings 0-3-8 except (jt=length) 35=0-3-0 ax Uplift All uplift 100 lb or less at joint(s) e ax Grav All reactions 250 lb or less at joint Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1280/416, 3-4=-1280/416, 4-5=-1280/4 3-11=-1609/0, 11-12=-2405/0, 12-13=-2405/0	ccept 22=-230(LC 6) (s) 22 except 32=1949(LC less except when shown. (6, 5-6=0/2174, 6-8=0/217	74, 8-9=-1609/0,	=1578(LC <sup>-</sup>	11)				
BOT CHORD	15-16=0/1257, 16-17=0/1250, 17-18=-106/53 34-35=-78/1002, 33-34=-416/1280, 32-33=-1 27-28=0/1943, 26-27=0/1943, 25-26=0/569, 2 22-23=-291/137	101/519, 30-32=-274/291, 24-25=-849/0, 23-24=-539	, 28-30=0/2276, //106,						
	5-32=-299/0, 16-25=-280/0, 2-35=-1098/87, 2 4-33=-415/0, 8-32=-2177/0, 8-30=0/1554, 9- 12-28=-413/0, 15-25=-1992/0, 15-26=0/1541 20-22=-178/388, 13-27=-410/0, 17-25=-722/0 20-23=-445/0, 19-23=0/254	30=-259/0, 11-30=-837/0, , 14-26=-445/0, 13-28=-3/7	11-28=0/306, 796,						
2) All plates are 1.	or live loads have been considered for this do 5x3 MT20 unless otherwise indicated. for a plus or minus 1 degree rotation about i						NUMERAL CA	ROUT	

- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 22. 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



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	Truss	Truss Type			Qty	Ply	Weaver / 10 West Park	/ Harnett		E45525005
J0221-1194	F2	Floor Girde	r		1	1				E15535895
							Job Reference (optiona	I)		
Comtech, Inc, Faye	etteville, NC - 28314,	i		ID:6			7 2020 MiTek Industries hDSvtyxoet-G?sAjvkyNZ	s, Inc. Wed Mar 24		
0-1-8								C	0-9-0 0-9-0	
	1-8-12					<u></u> 9-9-0⊢	1-11-8	1-3-0	0 5-12 1	-3-00-1-8 Scale = 1:59.8
		3x'	10 =							
			3x6 FP =	3x6	FP =					
3x4    4x6	3x6 =	3x10 =	6x12 =	3x6 =	3x4 =	4x4	= 4x8	= 3x4    4x	$4 \equiv 3x4$	=
1 38 2	39 3 4	5 6	6 7 8 40	9 1	0 11	12 13		16 1	7 18 19 20	21
										37 [ <del>9</del> -
35	34 33	3	-	30	:	29 28 27	26	25	24 23	22
3x6 =	3x4 = 3x6	= 4x1	2 = 3x6 FF	·=		4x6 =	4x6 =	3x10 =	4x4 =	3x6 =
				3x10 =	3x8 M18	SHS FP =	:		3x4 =	

30-9-12

	12 4 4		10.5.0				544
Plate Offsets (X,Y)	12-4-4 [1:Edge,0-1-8], [3:0-1-8,Edge], [13:0-1-	8 Edge] [23:0-1-8 Edge]	18-5-8 [24:0-1-8 Edge] [26:0-1-8		8 Edge] [34:		5-1-4
	[1.Luge,0-1-0], [3.0-1-0,Luge], [13.0-1-	J	, [24.0-1-0,∟uge], [20.0-1-0	,Lugej, [55.0-1-	0,∟ugej, [04.	U-1-0,∟ugej	
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	<b>CSI.</b> TC 0.94 BC 0.91 WB 0.95 Matrix-S	DEFL. in Vert(LL) -0.31 Vert(CT) -0.41 Horz(CT) 0.03		L/d 480 360 n/a	PLATES MT20 M18SHS Weight: 198 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
1-7,10 BOT CHORD 2x4 SF 22-29:	<ul> <li>No.1(flat) *Except*</li> <li>-21: 2x4 SP 2400F 2.0E(flat)</li> <li>No.1(flat) *Except*</li> <li>2x4 SP 2400F 2.0E(flat)</li> <li>No.3(flat)</li> </ul>		BRACING- TOP CHORD BOT CHORD	except end vert	cals.	rectly applied or 6-0-0 o	oc purlins,
(lb) - Max U	earings 0-3-8 except (jt=length) 35=0-3- Jplift All uplift 100 lb or less at joint(s) e Grav All reactions 250 lb or less at joint	xcept 22=-260(LC 6)	5), 32=2556(LC 3), 25=16	660(LC 11)			
TOP CHORD 2-3= 9-11: 15-1: BOT CHORD 34-3 27-2 22-2 WEBS 6-32 5-33 20-2	Comp./Max. Ten All forces 250 (lb) o -1101/389, 3-4=-1094/391, 4-5=-1094/3 =-2116/0, 11-12=-2684/0, 12-13=-2684/ 6=0/1367, 16-17=0/1359, 17-18=-28/60 5=0/1166, 33-34=-391/1094, 32-33=-14 8=0/2120, 26-27=0/2120, 25-26=0/571, 3=-324/92 =-267/0, 16-25=-295/0, 2-35=-1266/0, 2 =0/1554, 4-33=-551/0, 20-22=-119/431, 3=-496/0, 19-23=0/298, 8-32=-3450/0, 8 8=-494/0, 15-25=-2110/0, 15-26=0/1722	91, 5-6=0/2880, 6-8=0/28 0, 13-14=-2120/0, 14-15= 1, 18-19=-28/601, 19-20= 42/28, 30-32=0/685, 28-3 24-25=-941/0, 23-24=-60 -34=-783/0, 3-34=0/278, § 17-25=-755/0, 17-24=0/6 -30=0/1655, 9-30=-350/0	850, 8-9=-2128/0, =-2120/0, 28/601 40=0/2649, 11/28, 5-32=-2081/0, 686, 18-24=-404/0, 0, 11-30=-656/0,				
<ol> <li>All plates are MT20</li> <li>All plates are 1.5x3</li> <li>Plates checked for a</li> <li>Provide mechanical</li> <li>Provide mechanical</li> <li>Recommend 2x6 st Strongbacks to be a</li> <li>CAUTION, Do not e</li> <li>Hanger(s) or other of down at 3-9-12, an device(s) is the resp</li> </ol>	connection device(s) shall be provided s d 169 lb down at 14-2-12, and 550 lb do ponsibility of others. E(S) section, loads applied to the face of	its center. Ing plate at joint(s) 22. Ing plate capable of withst oc and fastened to each tr istrained by other means. ufficient to support concer own at 15-9-8 on top choor	russ with 3-10d (0.131" X 3 ntrated load(s) 169 lb dow rd. The design/selection c	3") nails. n at 1-9-12, 169	ilb on	SEA 0363	EER.K.

## LOAD CASE(S) Standard

# on p

12-4-4

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March 24,2021

35-11-0

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Job	Truss	Truss Type	Qty	Ply	Weaver / 10 West Park / Harnett				
J0221-1194	F2	Floor Girder	1	1	E15	5535895			
50221-1194	12		1	· ·	Job Reference (optional)				
Comtech, Inc,	Fayetteville, NC - 2831	4,	8	330 s Oct	7 2020 MiTek Industries, Inc. Wed Mar 24 13:59:03 2021 Pag	ige 2			
			ID:6QM6oUdKO1jfjINWahDSvtyxoet-G?sAjvkyNZbuAPUVo?FZzfdlpBZOpWfeMz320IzXiK6						

LOAD CASE(S) Standard

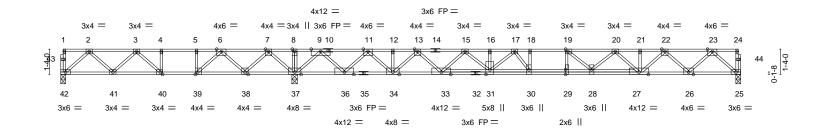
 Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 22-35=-10, 1-21=-100

Concentrated Loads (lb) Vert: 7=-89(F) 38=-89(F) 39=-89(F) 40=-470(F)

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Job	Truss	Truss Type	Qty	Ply	Weaver / 10 West Park / Harnett
			-		E15535896
J0221-1194	F3	Floor	3	1	
					Job Reference (optional)
Comtech, Inc, Fa	yetteville, NC - 28314,			8.330 s O	ct 7 2020 MiTek Industries, Inc. Wed Mar 24 13:59:05 2021 Page 1
			ID:6QM6oUd	IKO1jfjINWa	hDSvtyxoet-CNzw8bmCvBscPietwQH123i8r?LJHSFxpGY95BzXiK4
0-1-8					
HL-3-0	1-8-12			0	)-9-0 <mark>_1-9-12_</mark>
HI					Scale = 1:60.9



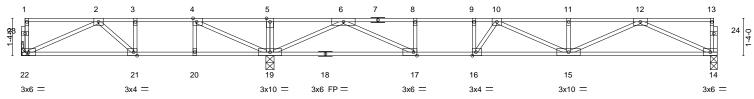
	12-4-4	-				<u>11-0</u> 6-12			
Plate Offsets (X,Y)	[19:0-1-8,Edge], [29:0-3-0,0-0-0], [39:0-	1-8,Edge], [40:0-1-8,Edg	e]		20	0 12			
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.71 BC 0.50 WB 0.81 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.46 0.04	(loc) 30 30 25	l/defl >835 >618 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 202 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF		BRACING- TOP CHOR BOT CHOR	D	except	end vertion	cals.	rectly applied or 6-0-0 or 6-0-0 or 6-0-0 or 6-0-0 oc bracing.	oc purlins,	
Max U	e) 42=0-3-0, 37=0-3-8, 25=0-3-0 lplift 42=-130(LC 4) Grav 42=539(LC 3), 37=2487(LC 1), 25=	1120(LC 4)							
TOP CHORD 2-3=- 7-8=( 15-1( 20-2* BOT CHORD 41-44 36-33 29-30 WEBS 2-42= 6-38= 9-36= 15-33 22-26	Comp./Max. Ten All forces 250 (lb) or 857/332, 3-4=-1033/1117, 4-5=-1033/1 0/3505, 8-9=0/3505, 9-11=0/712, 11-12= 5=-4584/0, 16-17=-4584/0, 17-18=-4972 1=-3892/0, 21-22=-3902/0, 22-23=-2104 2=-162/566, 40-41=-602/1088, 39-40=-1 7=-1919/0, 34-36=-129/842, 33-34=0/28 0=0/4972, 28-29=0/4972, 27-28=0/4363 =-751/217, 7-37=-1420/0, 2-41=-236/404 =-1093/0, 3-40=-753/0, 6-39=0/1198, 4-4 =0/1706, 11-36=-1686/0, 11-34=0/1395, 3=-811/0, 15-31=0/555, 17-31=-625/0, 2 6=-1276/0, 22-27=0/1097, 20-27=-686/0 9=-288/288, 17-30=-154/576	117, 5-6=-1033/1117, 6-7 1847/0, 12-13=-1847/0, /0, 18-19=-4972/0, 19-20 /0 117/1033, 38-39=-1739/ 18, 31-33=0/4189, 30-31 , 26-27=0/3022, 25-26=0, 1, 7-38=0/1007, 3-41=-32 40=-4/311, 5-39=-552/0, 13-34=-1339/0, 13-33=0 3-25=-1625/0, 23-26=0/1	'=-95/2199, 13-15=-3649/0, =-4652/0, 625, 37-38=-2608/0 =0/4878, /1222 22/376, 9-37=-2111/0, /1092, 226,	),					um.
<ol> <li>All plates are 1.5x3</li> <li>Plates checked for a</li> <li>Provide mechanical</li> <li>Recommend 2x6 str</li> </ol>	e loads have been considered for this de MT20 unless otherwise indicated. a plus or minus 1 degree rotation about i connection (by others) of truss to bearir rongbacks, on edge, spaced at 10-0-0 c ittached to walls at their outer ends or re rect truss backwards.	ts center. Ig plate capable of withst c and fastened to each ti	russ with 3-10d (0.			5.	William	SEA 0363	22



GI 11111111 March 24,2021

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Job	Truss	Truss Type	Qty	Ply	Weaver / 10 West Park / Harnett	
10004 4404			-	1		E15535897
J0221-1194	F4	Floor	5	1	Job Reference (optional)	
Comtech, Inc, Fayette	eville, NC - 28314,		3	3.330 s Oct	7 2020 MiTek Industries, Inc. Wed Mar	24 13:59:06 2021 Page 1
			ID:6QM6oUdK0	D1jfjlNWahl	DSvtyxoet-gaXIMwnqgU_T1sD4U7oGbH	IFLuPbN0yG42wliddzXiK3
0-1-8						
81	1-3-0 2-0-0		L 1-1	1-12 0-	9-0	0- <u>1</u> -8
	11 1			11		Scale = 1:41.2
	4 = 3x4 =	3x4	3x10 = 3x6 FP =		3x4 =	3x6 =



L	8-10-8	1			24-10-4			
	8-10-8	I		1	15-11-12			
Plate Offsets (X,Y)	<ul> <li>[4:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1</li> </ul>	-8,Edge], [21:0-1-8,Edge]						
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.63	<b>DEFL.</b> Vert(LL) -	in (loc) 0.27 15-16	l/defl >704	L/d 480	PLATES MT20	<b>GRIP</b> 244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.89 WB 0.63	Vert(CT) -	0.36 15-16 0.05 14	>531 n/a	360 n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 124 lb	FT = 20%F, 11%E
7-13 BOT CHORD 2x4	SP No.1(flat) *Except* 3: 2x4 SP 2400F 2.0E(flat) SP No.1(flat) SP No.3(flat)	BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	rectly applied or 6-0-0 o	oc purlins,	
(	size) 22=Mechanical, 19=0-3-8, 14=0-3- x Grav 22=465(LC 3), 19=1431(LC 1), 14=							
TOP CHORD 2-	ax. Comp./Max. Ten All forces 250 (lb) or 3=-792/0, 3-4=-792/0, 4-5=0/494, 5-6=0/49 10=-2584/0, 10-11=-2527/0, 11-12=-2527//	4, 6-8=-2584/0, 8-9=-2584						
	-22=0/741, 20-21=0/792, 19-20=0/792, 17 I-15=0/1591	-19=0/1472, 16-17=0/2584	4, 15-16=0/2776,					
	5-19=-278/0, 2-22=-810/0, 4-19=-1028/0, 6-19=-1803/0, 6-17=0/1333, 8-17=-449/0, 12-14=-1745/0, 12-15=0/1035, 10-15=-311/0, 10-16=-530/136, 9-16=-106/344							
/	live loads have been considered for this do x3 MT20 unless otherwise indicated.	esign.						

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

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

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

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

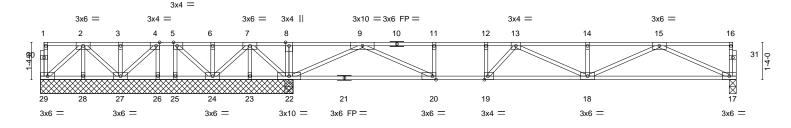
6) CAUTION, Do not erect truss backwards.



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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver / 10 West Park / Harnett	
J0221-1194	F4A	Floor	1	1		E15535898
50221-1194			'	· ·	Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,				7 2020 MiTek Industries, Inc. Wed Mar 24 13:59:07 20	
		ID:6QM	l6oUdKO1	jfjlNWahD	Svtyxoet-8m5hZGnTRo6Kf0oG1rJV7UnRgpwwlOhEHa1	G93zXiK2
0-1-8						
H <b>⊢</b> 1-2-8	<u>0-6-0</u>	2-6-0 2-6-0		12   1-0	-0 2-6-0 2-6-0 2-6-0	0-1-8 Scale - 1:41 2
						00010 - 1.41.2



	5-2-0 6-1-0 5-2-0 0-11-0	0 2-9-8	9-0-4 0-1-12			24-10-4 15-10-0			
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,	Edge], [19:0-1-8	3,Edge], [20:0-1-8,Edge]						
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.00 1.00 YES PI2014	<b>CSI.</b> TC 0.95 BC 0.94 WB 0.69 Matrix-S	- ( )	in (loc) -0.29 18-19 -0.39 18-19 0.03 17	l/defl >660 >490 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 134 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SI	P No.1(flat) P No.1(flat) P No.3(flat)			BRACING- TOP CHORI BOT CHORI	except	end verti	cals.	rectly applied or 2-2-0 o	oc purlins,

REACTIONS. All bearings 9-0-4 except (jt=length) 17=0-3-0. (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25 except 23=-186(LC 4), 24=-135(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 29, 28, 27, 26, 23, 24, 25 except 22=1537(LC 1), 22=1537(LC 1), 17=782(LC 4)

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

- TOP CHORD 7-8=0/1020, 8-9=0/1026, 9-11=-1995/0, 11-12=-1995/0, 12-13=-1995/0, 13-14=-2224/0, 14-15=-2224/0
- $23-24=-492/0,\ 22-23=-492/0,\ 20-22=0/691,\ 19-20=0/1995,\ 18-19=0/2318,\ 17-18=0/1441\\ 8-22=-266/0,\ 7-22=-713/0,\ 7-24=0/423,\ 15-17=-1580/0,\ 15-18=0/866,\ 9-22=-1894/0,$ BOT CHORD WEBS 9-20=0/1444, 11-20=-466/0, 13-19=-555/0, 12-19=-9/291

#### NOTES-

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

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

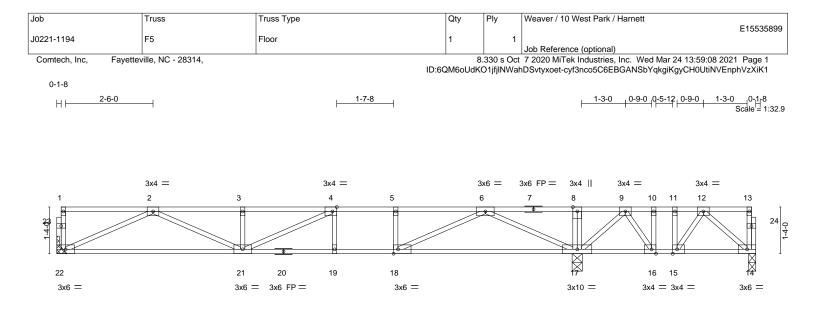
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25 except (jt=lb) 23=186, 24=135.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened 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 MSI/TP1/Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





		<u>14-10-8</u> 14-10-8				15 <sub>1</sub> 0-0 0-1-8	<u>19-11-12</u> 4-11-12	
Plate Offsets (X,Y)	[4:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1					0-1-0	4-11-12	
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 0.66 BC 0.88 WB 0.57 Matrix-S	Vert(LL) -0.2	in (loc) 22 19-21 29 19-21 03 17	l/defl >799 >612 n/a	L/d 480 360 n/a	<b>PLATES</b> MT20 Weight: 105 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz	BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	ectly applied or 6-0-0 o r 6-0-0 oc bracing.	oc purlins,		
	lplift 14=-106(LC 3) Grav 22=742(LC 3), 17=1336(LC 1), 14=	205(LC 4)						
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-2078/0, 3-4=-2078/0, 4-5=-1931/0, 5-6=-1931/0, 6-8=0/819, 8-9=0/813, 9-10=-150/287, 10-11=-150/287, 11-12=-150/287								
BOT CHORD 21-22=0/1346, 19-21=0/1931, 18-19=0/1931, 17-18=0/850, 16-17=-482/47,								
WEBS 8-17	15-16=-287/150         WEBS       8-17=-265/0, 9-17=-550/0, 12-15=-264/0, 9-16=0/443, 10-16=-293/0, 6-17=-1712/0, 6-18=0/1207, 5-18=-364/0, 2-22=-1475/0, 2-21=0/810, 3-21=-330/0, 4-21=-151/288							

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

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 14.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=106.

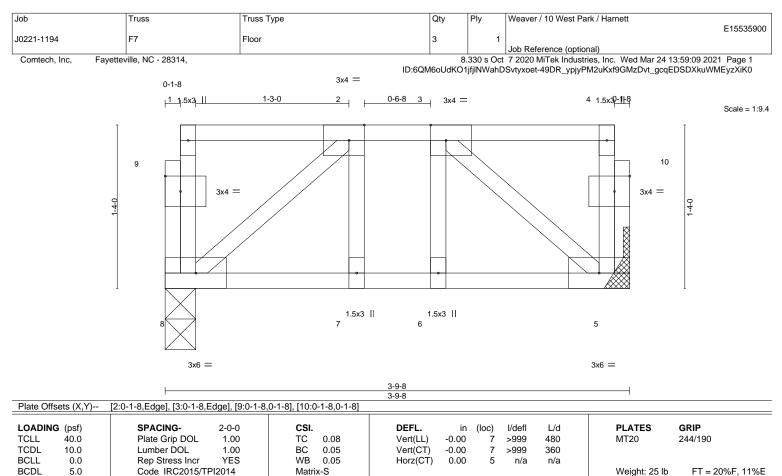
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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

8) CAUTION, Do not erect truss backwards.



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BCDL	5.0	Code IRC2015/1P12014	iviatrix-5			weight: 25 lb	FI = 20%F, 11%E
	RD 2x4 SF RD 2x4 SF			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	, ,,,	oc purlins,

REACTIONS. (size) 8=0-3-0, 5=Mechanical Max Grav 8=189(LC 1), 5=189(LC 1)

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

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.

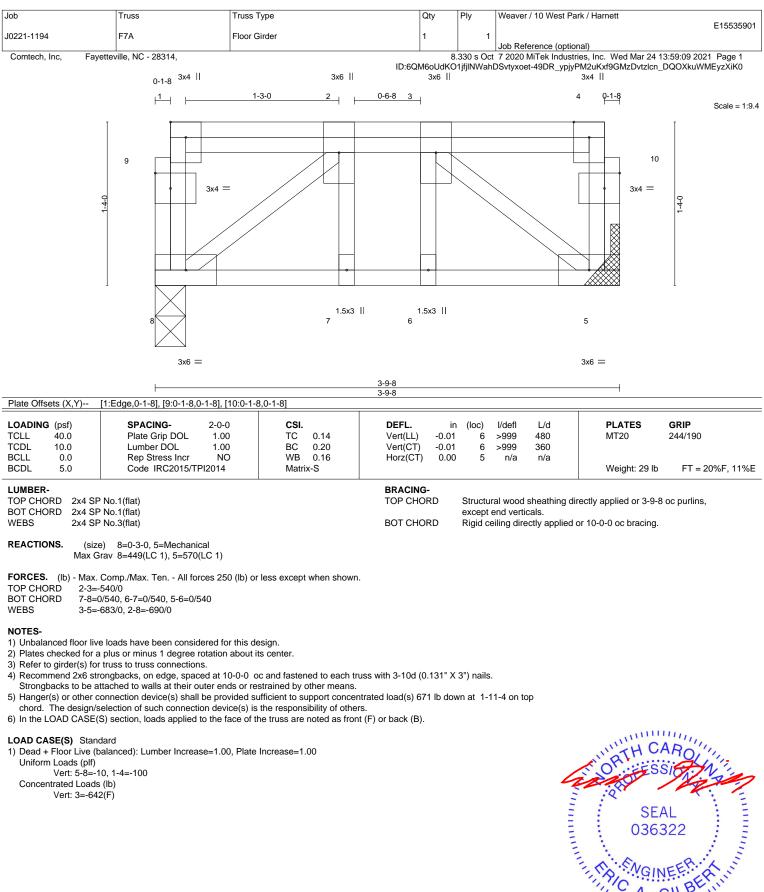
3) Refer to girder(s) for truss to truss connections.

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.



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Vert: 3=-642(F)



SEAL 036322

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty Ply	Weaver / 10 West Park / Har	rnett E15535902
J0221-1194	KW4	GABLE	1 1	Job Reference (optional)	L 1000902
Comtech, Inc, Fayettev	ille, NC - 28314,			7 2020 MiTek Industries, Inc	. Wed Mar 24 13:59:10 2021 Page 1 WrjztCl7PAn0A5yvggzYGwmOzXiK?
0-1-8 H					0-1-8
					Scale = 1:41.2
		3x6 FP =			
12 3 4	4567 N N N N	8 9 10 11 12 1	3 14 15	5 16 17 1	8 19 20 21 22
	40 39 38 3		1 30 29	28 27 2	6 25 24 23
3x6 =		3x6 FP =			3x6 =
0 <u>-5-2 1-9-2 3-1-2</u> 0-5-2 1-4-0 1-4-0	<u>4-5-2</u> <u>5-9-2</u> <u>7-1-2</u> <u>1-4-0</u> <u>1-4-0</u> <u>1-4-0</u>	8-5-2 9-9-2 11-1-2 12-5-2 13-9-2 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0	15-1-2 16-5-2 1-4-0 1-4-0	<u>17-9-2</u> <u>19-1-2</u> <u>20-5-2</u> <u>1-4-0</u> <u>1-4-0</u> <u>1-4-0</u>	<u>21-9-2</u> <u>23-1-2</u> <u>24-5-2 24-10</u> 4 <u>1-4-0</u> <u>1-4-0</u> <u>1-4-0</u> <u>0-5-2</u>
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI. DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00			n/a 999 n/a 999	MT20 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014			n/a n/a	Weight: 110 lb FT = 20%F, 11%E

### LUMBER-

TOP CHORD2x4 SP No.1(flat)BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)OTHERS2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 24-10-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 23, 32, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 29, 28, 27, 26, 25, 24

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

#### NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

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

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

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



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Job	Truss	Truss Type	Qty	Ply	Weaver / 10 West Park / H	arnett	E15535903
J0221-1194	KW5	GABLE	1	1			E1000000
Comtech, Inc, Fayet	teville, NC - 28314,				Job Reference (optional) 7 2020 MiTek Industries, Ir Svtyxoet-1XLBPeqzU1cm7c		
0-1-8				Jijii ti tan D			0- <u>11</u> 8
							Scale = 1:33.2
					3x6 FP =		
1 2 3	4 5	6 7 8	9 10	11	12 13 14	15 16	17 18
36 35 34	33 32	31 30 29 28	27 26	25	24 23	22 21	20 19
3x4 =		3x6 FP =					3x4 =
0-7-14 1-11-14 0-7-14 1-4-0	<u>3-3-14 4-7-14 5-11-7</u> 1-4-0 1-4-0 1-4-0	4 7-3-14 8-7-14 9-11-			<u>11-14   15-3-14   16-7-1</u> 4-0   1-4-0   1-4-0	4 17-11-14 1	19-3-14 19-11-12
0-7-14 1-4-0	1-4-0 1-4-0 1-4-0	) 1-4-0 1-4-0 1-4-	0 1-4-0 1-4-	U 1-	4-0 1-4-0 1-4-0	1-4-0	1-4-0 0-7-14 <sup>1</sup>
LOADING(psf)TCLL40.0TCDL10.0	SPACING-2-0-Plate Grip DOL1.0Lumber DOL1.0	0 TC 0.06	DEFL. ii Vert(LL) n/a Vert(CT) n/a	a -	l/defl L/d n/a 999 n/a 999		<b>GRIP</b> 244/190

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

19

n/a

except end verticals.

n/a

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

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

NOTEO				
			OTES-	NO.

2x4 SP No.1(flat)

2x4 SP No.1(flat)

2x4 SP No.3(flat)

2x4 SP No.3(flat)

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

All bearings 19-11-12.

21, 20

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

Rep Stress Incr

Code IRC2015/TPI2014

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).

YES

WB 0.03

Matrix-R

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

BCLL

BCDL

WFBS

OTHERS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

0.0

5.0

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.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 27, 28, 29, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22,

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

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

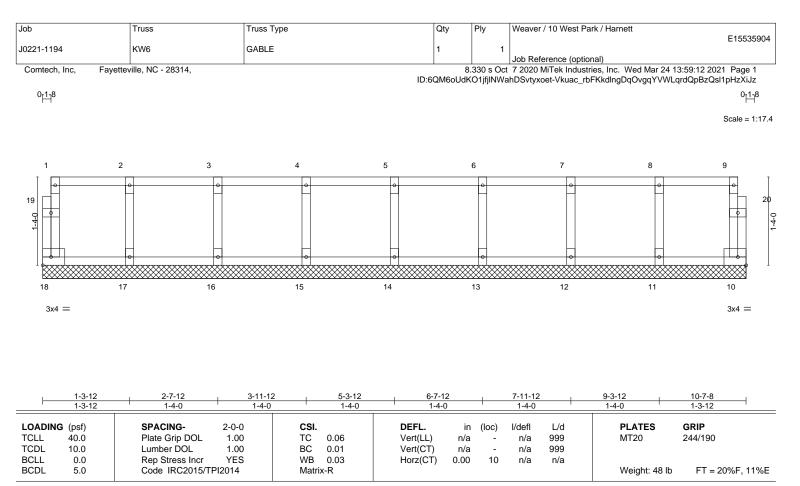


FT = 20%F, 11%E

Weight: 89 lb

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	JMBI	ED.
L.		

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-7-8.

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

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

#### NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

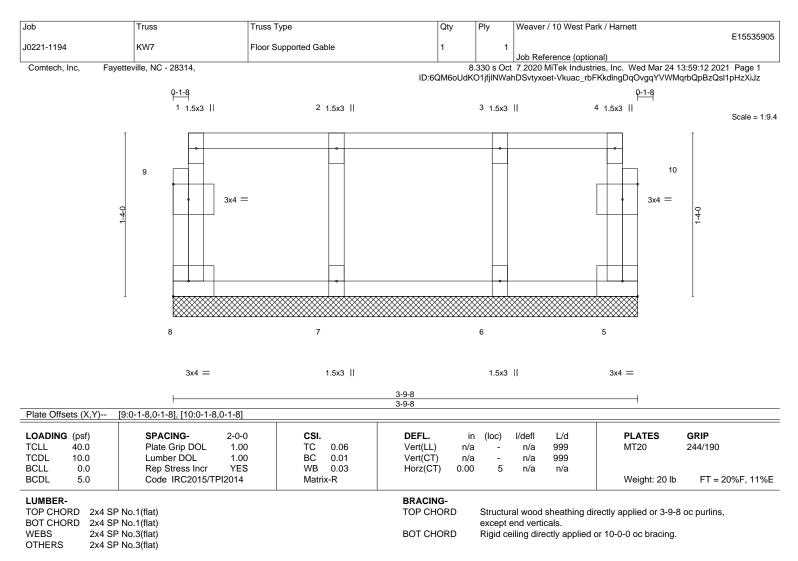
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

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



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**REACTIONS.** All bearings 3-9-8.

(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.



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A MITEK Atfiliate 818 Soundside Road Edenton, NC 27932

