

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0420-1863

Weaver / Sonnenburg Res. / Harnett

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: E14364916 thru E14364928

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



May 4,2020

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	Weaver / Sonnenburg Res. / Harnett	
				_		E1436491	6
	J0420-1863	F1	Floor	3	1		
- 1						Joh Reference (ontional)	

Comtech. Inc.

Fayetteville, NC - 28314,

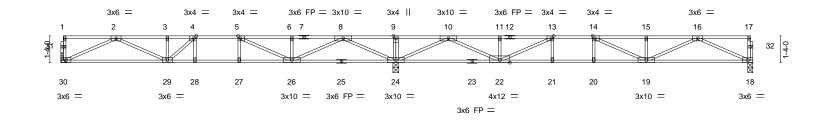
8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:46 2020 Page 1  $ID:z9tQeuae EwTQ6FgPNEM81tzKtIE-mA\_FZr8Xla37zE0uikfF1xhaX4h6CW4xVZP0bGzJvBR$ 

0-1-8



1-11-4

0-1-8 Scale = 1:57.5



		16-8-8		34-6-4	
		16-8-8		17-9-12	
Plate Offse	ets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-	3,Edge], [14:0-1-8,Edge]		
LOADING TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.75 BC 1.00 WB 0.79	DEFL.         in (loc)         l/defl         L/d         PLAT           Vert(LL)         -0.26 19-20         >809         480         MT20           Vert(CT)         -0.35 19-20         >607         360           Horz(CT)         0.06         18         n/a         n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	Weig	ht: 171 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 2-2-0 oc bracing.

REACTIONS.

(size) 30=Mechanical, 24=0-3-8, 18=0-3-0 Max Grav 30=794(LC 3), 24=2230(LC 1), 18=859(LC 4)

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

TOP CHORD  $2\text{-}3\text{--}2252/0,\ 3\text{-}4\text{--}2252/0,\ 4\text{-}5\text{--}2367/0,\ 5\text{-}6\text{--}1680/345,\ 6\text{-}8\text{--}1680/345,\ 8\text{-}9\text{--}0/2343,}$ 

9-10=0/2343, 10-11=-1865/276, 11-13=-1865/276, 13-14=-2749/0, 14-15=-2562/0,

**BOT CHORD** 29-30=0/1462, 28-29=0/2367, 27-28=0/2367, 26-27=0/2367, 24-26=-878/413, 22-24=-821/491, 21-22=0/2749, 20-21=0/2749, 19-20=0/2749, 18-19=0/1598

9-24=-281/0, 2-30=-1604/0, 2-29=0/874, 3-29=-298/0, 8-24=-2190/0, 8-26=0/1548,

6-26=-266/15, 5-26=-1103/0, 4-29=-216/353, 10-24=-2307/0, 10-22=0/1652,

11-22=-261/33, 16-18=-1753/0, 16-19=0/1067, 15-19=-339/0, 14-19=-274/324,

13-22=-1277/0

### NOTES-

**WEBS** 

- 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) 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.



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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.



Job Truss Truss Type Qty Weaver / Sonnenburg Res. / Harnett E14364917 J0420-1863 F1A GABLE Job Reference (optional)

Comtech. Inc.

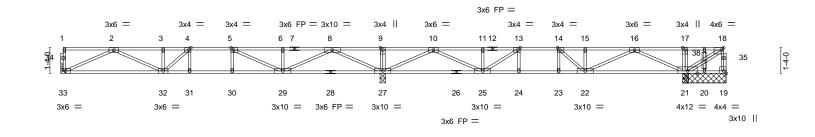
Fayetteville, NC - 28314,

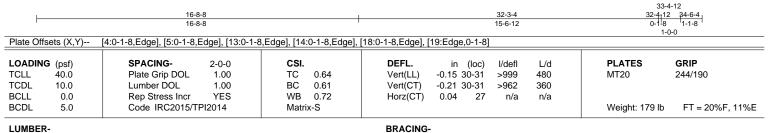
8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:47 2020 Page 1 ID:z9tQeuaeEwTQ6FgPNEM81tzKtIE-ENYdnB99WuB\_aOb4FRAUa9EmvT7Nx\_M4kD8Z7izJvBQ

0-1-8

2-6-0 1-3-0 2-1-0 1-9-0 1-11-4 1-3-0

1-9-0 0<sub>1</sub>1<sub>1</sub>8 Scale = 1:59.8





LUMBER-

2x4 SP No.1(flat)

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

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 2-3-0 except (jt=length) 33=Mechanical, 27=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 20 except 19=-753(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 20 except 33=796(LC 3), 27=1998(LC 1), 21=1833(LC 4),

21=1750(LC 1)

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

TOP CHORD 18-19=0/766, 2-3=-2259/0, 3-4=-2259/0, 4-5=-2378/0, 5-6=-1696/145, 6-8=-1696/145,

8-9=0/2109, 9-10=0/2109, 10-11=-1188/447, 11-13=-1188/447, 13-14=-1414/168,

14-15=-1135/36, 15-16=-1135/36, 16-17=0/1334, 17-18=0/1334

**BOT CHORD** 32-33=0/1466, 31-32=0/2378, 30-31=0/2378, 29-30=0/2378, 27-29=-640/432,

25-27=-898/287, 24-25=-168/1414, 23-24=-168/1414, 22-23=-168/1414 9-27=-278/0, 17-21=-263/0, 2-33=-1608/0, 2-32=0/877, 8-27=-2153/0, 8-29=0/1513,

6-29=-250/0, 5-29=-925/0, 10-27=-1805/0, 10-25=0/1159, 16-21=-1694/0, 16-22=0/1029,

13-25=-479/0, 14-22=-371/175, 21-38=-1515/0, 18-38=-1537/0

### NOTES-

WFBS

- 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) Gable studs spaced at 1-4-0 oc.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb)
- 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.



May 4,2020

Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett
					E14364918
J0420-1863	F2	Floor	4	1	
					Job Reference (optional)

Fayetteville, NC - 28314,

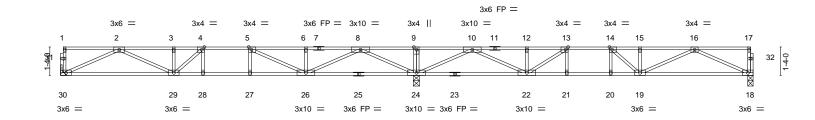
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0-1-8





0-1-8 Scale = 1:54.1



		16-8-8		32-6-4	1
'		16-8-8		15-9-12	
Plate Offse	ets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8	3,Edge], [14:0-1-8,Edge]		
LOADING TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.65 BC 0.82 WB 0.72	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.16 28-29         >999         480         MT20         244/190           Vert(CT)         -0.22 28-29         >916         360           Horz(CT)         0.05         18         n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 163 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, Except:

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

REACTIONS. (size) 30=Mechanical, 24=0-3-8, 18=0-3-0

Max Grav 30=795(LC 3), 24=2108(LC 1), 18=755(LC 4)

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

TOP CHORD  $2-3=-2257/0,\ 3-4=-2257/0,\ 4-5=-2375/0,\ 5-6=-1691/160,\ 6-8=-1691/160,\ 8-9=0/2126,$ 

9-10=0/2126, 10-12=-1625/335, 12-13=-1625/335, 13-14=-2126/0, 14-15=-2092/0,

29-30=0/1465, 28-29=0/2375, 27-28=0/2375, 26-27=0/2375, 24-26=-656/427, 22-24=-842/507, 21-22=0/2126, 20-21=0/2126, 19-20=0/2126, 18-19=0/1379

9-24=-278/0, 2-30=-1607/0, 2-29=0/876, 3-29=-288/0, 8-24=-2154/0, 8-26=0/1514,

6-26=-271/10, 5-26=-1038/0, 4-29=-265/296, 10-24=-2062/0, 10-22=0/1395,

16-18=-1512/0, 16-19=0/788, 15-19=-302/0, 14-19=-112/404, 13-22=-949/0

### NOTES-

**WEBS** 

**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) 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.



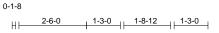
May 4,2020

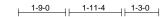


Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett
					E14364919
J0420-1863	F3	Floor	3	1	
					Job Reference (optional)

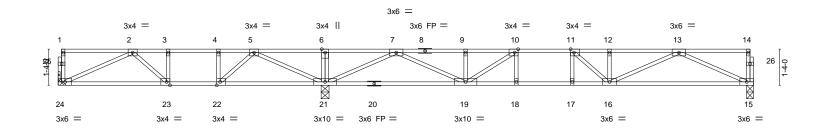
Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:49 2020 Page 1 ID: z9tQeuae EwTQ6FgPNEM81tzKtlE-AlgOCtBP2VRiqilSNsCyfaJ7lHoZPwsNBXdgCbzJvBOAlgCbzDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDVBOAlgCbyDV





0-1-8 Scale = 1:42.5



	9-10-4		25-8-0	
ı	9-10-4	1	15-9-12	
Plate Offsets (X,Y)	[10:0-1-8,Edge], [11:0-1-8,Edge], [22:0-	1-8,Edge], [23:0-1-8,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 0.62 BC 0.69 WB 0.59 Matrix-S	DEFL.         in (loc)         l/defl         L/d         PLATES         GRIP           Vert(LL)         -0.14 16-17         >999         480         MT20         244/190           Vert(CT)         -0.19         17         >988         360           Horz(CT)         0.04         15         n/a         Weight: 130 lb         FT = 20%F, 1	 11%E

LUMBER-

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

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

**BRACING-**

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

except end verticals.

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

REACTIONS. (size) 24=Mechanical, 21=0-3-8, 15=0-3-0

Max Grav 24=471(LC 3), 21=1629(LC 1), 15=785(LC 7)

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

TOP CHORD 

9-10=-1888/0, 10-11=-2310/0, 11-12=-2213/0, 12-13=-2213/0

**BOT CHORD** 23-24=-41/756, 22-23=-200/825, 21-22=-491/543, 19-21=0/815, 18-19=0/2310,

17-18=0/2310, 16-17=0/2310, 15-16=0/1442

**WEBS** 6-21=-297/0, 2-24=-826/46, 5-21=-1217/0, 5-22=0/664, 4-22=-359/0, 7-21=-1888/0,

7-19=0/1242, 13-15=-1581/0, 13-16=0/853, 12-16=-259/11, 11-16=-349/170,

10-19=-700/0

### 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) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANSI/TPII Quality Criteria, DSB-89 and BCSI Building Component Safaty Internation available from Truss Plate Institute 218 N. Les Street Suite 312 Alexandria VA 22314 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett	
					E143649	)20
J0420-1863	F5	Floor	2	1		
					Joh Reference (ontional)	

Comtech. Inc.

Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:50 2020 Page 1 ID:z9tQeuaeEwTQ6FgPNEM81tzKtIE-fyDmPDB1ppZZRrKfxZjBCnsJdh598MgXQBNDk1zJvBN

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

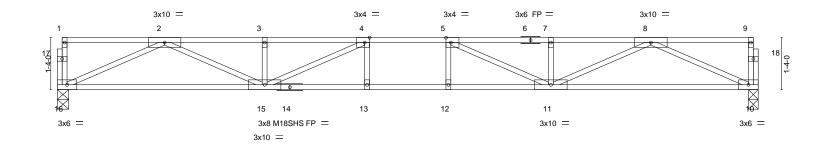
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-11-8

0-1-8 Scale = 1:29.5



-				17-11-8 17-11-8	
Plate Offse	ts (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]		17-11-0	
TCDL BCLL	40.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.55 BC 0.86 WB 0.62	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.26 11-12         >829         480           Vert(CT)         -0.34 13-15         >625         360           Horz(CT)         0.06         10         n/a         n/a	PLATES         GRIP           MT20         244/190           M18SHS         244/190
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 90 lb FT = 20%F, 11%E

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3(flat) **WEBS** 

REACTIONS. (size) 16=0-3-8, 10=0-3-0 Max Grav 16=968(LC 1), 10=968(LC 1)

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

TOP CHORD  $2\hbox{-}3\hbox{-}3009/0,\ 3\hbox{-}4\hbox{-}-3009/0,\ 4\hbox{-}5\hbox{-}-3543/0,\ 5\hbox{-}7\hbox{-}-3009/0,\ 7\hbox{-}8\hbox{-}-3009/0$ 

**BOT CHORD** 15-16=0/1833, 13-15=0/3543, 12-13=0/3543, 11-12=0/3543, 10-11=0/1833

**WEBS** 8-10=-2012/0, 8-11=0/1301, 7-11=-303/4, 5-11=-858/0, 2-16=-2012/0, 2-15=0/1301,

3-15=-303/4, 4-15=-858/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett
10.400.4000	F6.4	04815			E14364921
J0420-1863	F5A	GABLE	1	1	Job Reference (optional)

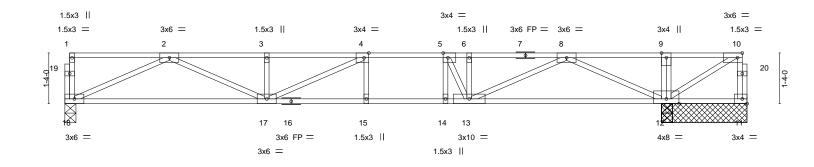
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8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:51 2020 Page 1 ID: z9tQeuae EwTQ6FgPNEM81tzKtIE-78n8cZCga6hQ3?vrUHEQk?PSd5OWtqdgfr6nHUzJvBM



0-6-0





<u> </u>	9-3-8		10-7-0	15-8-8	15-10-0 17-11-8	
	9-3-8		1-3-8	5-1-8	0-1-8 2-1-8	
Plate Offsets (X	Y) [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-	8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.21 15-17	>873 480	MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.29 15-17	>644 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.03 12	n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 94 lb FT = 2	.0%F, 11%E

**BRACING-**

LUMBER-

2x4 SP No.1(flat)

TOP CHORD **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 2-2-0 oc bracing.

REACTIONS. (size) 18=0-3-8, 11=2-3-0, 12=2-3-0, 12=2-3-0

Max Uplift 11=-518(LC 1)

Max Grav 18=770(LC 1), 12=1683(LC 1), 12=1683(LC 1)

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

TOP CHORD  $10\text{-}11\text{=}0/515,\, 2\text{-}3\text{=-}2194/0,\, 3\text{-}4\text{=-}2194/0,\, 4\text{-}5\text{=-}2127/0,\, 5\text{-}6\text{=-}1743/0,\, 6\text{-}8\text{=-}1743/0,\, 6\text{-$ 

8-9=0/1009, 9-10=0/992 **BOT CHORD** 

17-18=0/1407, 15-17=0/2127, 14-15=0/2127, 13-14=0/2127, 12-13=0/651 **WEBS** 9-12=-263/0, 2-18=-1542/0, 2-17=0/871, 3-17=-309/0, 8-12=-1837/0, 8-13=0/1207,

5-13=-837/0, 5-14=0/317, 10-12=-1126/0

### NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable studs spaced at 1-4-0 oc.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.





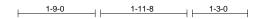
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett	
						E14364922
J0420-1863	F6	Floor	2	1		
					Job Reference (optional)	

Fayetteville, NC - 28314, Comtech. Inc.

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:51 2020 Page 1 ID:z9tQeuaeEwTQ6FgPNEM81tzKtIE-78n8cZCga6hQ3?vrUHEQk?PUw5Shtrygfr6nHUzJvBM





0-1<sub>1</sub>8 Scale = 1:26.1

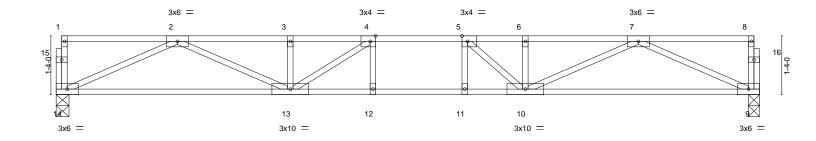


Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]		15-11-8	
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.45	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.17 12-13 >999 480	PLATES GRIP MT20 244/190
TCDL 40.0	Lumber DOL 1.00	BC 0.43	Vert(CT) -0.17 12-13 >999 460 Vert(CT) -0.23 12-13 >837 360	W1120 244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.04 9 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 81 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** 

REACTIONS. (size) 14=0-3-8, 9=0-3-0

Max Grav 14=858(LC 1), 9=858(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2528/0, 3-4=-2528/0, 4-5=-2770/0, 5-6=-2516/0, 6- 0, 5P CHORD

### **BRACING-**

**BOT CHORD** 

TOP 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.





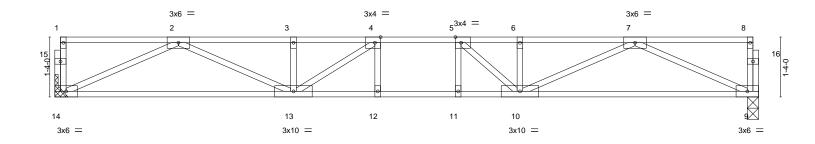
Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett
					E14364923
J0420-1863	F7	Floor	6	1	
					Job Reference (optional)

Comtech. Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:52 2020 Page 1  $ID: 29t Qeuae EwTQ6FgPNEM81tzKtIE-bKLWqvDILQpGh9U12\_mfHCxhoUpsclQqtVsKpwzJvBL\\$ 



0-1-8 Scale = 1:25.6



					13-6-0						
					15-8-0						'
(Y) [4:0-1-8.Ed	dael. [5:0-1-8.Ed	dael									_
,,,, [,	9-1, [ : -,	.9-1								T	
) SPA	ACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
Plat	te Grip DOL	1.00	TC	0.38	Vert(LL)	-0.15	` 12	>999	480	MT20	244/190
) Lum	nber DOL	1.00	BC	0.66	Vert(CT)	-0.21	12	>890	360		
Rep	Stress Incr	YES	WB	0.48	Horz(CT)	0.04	9	n/a	n/a		
Cod	de IRC2015/TPI	2014	Matrix	k-S						Weight: 80 lb	FT = 20%F, 11%E
f.	f) SP/ 0 Pla 0 Lur 0 Rep	f) SPACING- 0 Plate Grip DOL 0 Lumber DOL 0 Rep Stress Incr	f) SPACING- 2-0-0 0 Plate Grip DOL 1.00 0 Lumber DOL 1.00 0 Rep Stress Incr YES	f) SPACING- 2-0-0 CSI. 0 Plate Grip DOL 1.00 TC 0 Lumber DOL 1.00 BC 0 Rep Stress Incr YES WB	f) SPACING- 2-0-0 CSI. 0 Plate Grip DOL 1.00 TC 0.38 0 Lumber DOL 1.00 BC 0.66 0 Rep Stress Incr YES WB 0.48	15-8-0	15-8-0	15-8-0	15-8-0	X,Y) [4:0-1-8,Edge], [5:0-1-8,Edge]  f) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 0 Plate Grip DOL 1.00 TC 0.38 Vert(LL) -0.15 12 >999 480 0 Lumber DOL 1.00 BC 0.66 Vert(CT) -0.21 12 >890 360 0 Rep Stress Incr YES WB 0.48 Horz(CT) 0.04 9 n/a n/a	15-8-0

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. (size) 14=Mechanical, 9=0-3-0 Max Grav 14=842(LC 1), 9=842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $2\hbox{-}3\hbox{--}2460/0,\ 3\hbox{-}4\hbox{--}2460/0,\ 4\hbox{-}5\hbox{--}2674/0,\ 5\hbox{-}6\hbox{--}2449/0,\ 6\hbox{-}7\hbox{--}2449/0}$ **BOT CHORD** 13-14=0/1564, 12-13=0/2674, 11-12=0/2674, 10-11=0/2674, 9-10=0/1565 **WEBS** 2-14=-1716/0, 2-13=0/991, 3-13=-261/1, 7-9=-1717/0, 7-10=0/978, 4-13=-508/62,

### 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) 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. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett	
J0420-1863	F8	Floor	6			E14364924
JU42U-1003	ГО	Floor	В	'	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

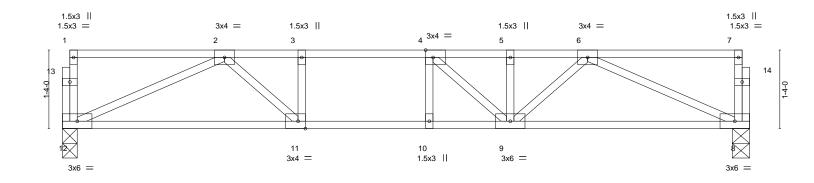
8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:53 2020 Page 1 ID: 29tQeuae EwTQ6FgPNEM81tzKtIE-3Wvu1FEw6kx7IJ2EciHuqQUqDuBfLnwz69buLMzJvBK

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

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

except end verticals.





<u> </u>						11-8-0						
Plate Offse	ts (X,Y)	[4:0-1-8,Edge], [11:0-1-8	,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.10	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.13	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	k-S						Weight: 61 lb	FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

11-8-0

LUMBER-

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

2x4 SP No.3(flat) **WEBS** 

REACTIONS. (size) 12=0-3-0, 8=0-3-8

Max Grav 12=622(LC 1), 8=622(LC 1)

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

TOP CHORD  $2\hbox{-}3\hbox{-}-1426/0,\,3\hbox{-}4\hbox{-}-1426/0,\,4\hbox{-}5\hbox{-}-1359/0,\,5\hbox{-}6\hbox{-}-1359/0$ **BOT CHORD** 11-12=0/1092, 10-11=0/1426, 9-10=0/1426, 8-9=0/1089

WEBS 2-12=-1196/0, 2-11=0/564, 3-11=-278/0, 6-8=-1193/0, 6-9=0/367, 4-9=-310/75

- 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) 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. 10/03/2015 BEFORE USE.

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available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett	7
					E14364925	
J0420-1863	F9	GABLE	1	1		
					Inh Reference (ontional)	

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Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:53 2020 Page 1 ID:z9tQeuaeEwTQ6FgPNEM81tzKtIE-3Wvu1FEw6kx7IJ2EciHuqQUpkuASLIDz69buLMzJvBK

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

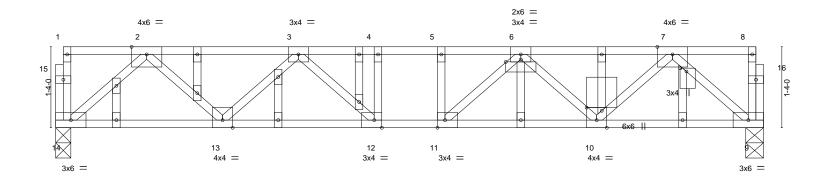
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



0-11-0

0-1-8 Scale = 1:19.0



	1-0-0	2-4-0	3-8-0	5-0-0	7-8-0	9-0-0	10-4-0	11-8-0		
,	1-0-0	1-4-0	1-4-0	1-4-0	2-8-0	1-4-0	1-4-0	1-4-0		
Plate Offse	Plate Offsets (X,Y) [6:0-3-0,0-0-8], [11:0-1-8,Edge], [12:0-1-8,Edge], [18:0-0-10,0-1-4], [19:0-0-10,0-3-0]									
LOADING TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	SPACING- Plate Grip DO Lumber DOL Rep Stress Ir	1.00	CSI. TC 0.56 BC 0.63 WB 0.50	DEFL.         in (loc)           Vert(LL)         -0.09         12           Vert(CT)         -0.12         12           Horz(CT)         0.04         9	l/defl L/d >999 480 >999 360 n/a n/a	PLATES MT20	<b>GRIP</b> 244/190		
BCDL	5.0	Code IRC20	15/TPI2014	Matrix-S			Weight: 72 lb	FT = 20%F, 11%E		

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

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

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

**OTHERS** 2x4 SP No.3(flat)

REACTIONS. (size) 14=0-3-0, 9=0-3-8

Max Grav 14=1327(LC 1), 9=1327(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $2\text{-}3\text{=-}2176/0,\ 3\text{-}4\text{=-}3140/0,\ 4\text{-}5\text{=-}3140/0,\ 5\text{-}6\text{=-}3140/0,\ 6\text{-}7\text{=-}2176/0}$ **BOT CHORD** 13-14=0/1414, 12-13=0/2908, 11-12=0/3140, 10-11=0/2908, 9-10=0/1414

WEBS 2-14=-1877/0, 2-13=0/1060, 3-13=-1018/0, 3-12=0/316, 7-9=-1877/0, 7-10=0/1060,

6-10=-1018/0, 6-11=0/316

### 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 studs spaced at 1-4-0 oc.
- 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.

### LOAD CASE(S) Standard

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

Vert: 9-14=-10, 1-8=-225



May 4,2020

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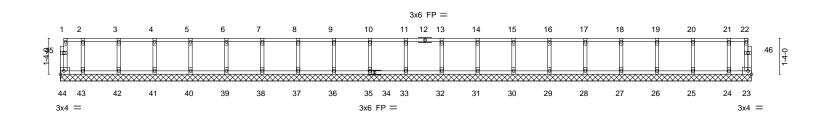
Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett
					E14364926
J0420-1863	KW3	GABLE	1	1	
					Joh Reference (ontional)

Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:54 2020 Page 1  $ID: z9tQeuae EwTQ6FgPNEM81tzKtlE-XjTHFbEYs13\_wTdQAPo7Md16GlfT4Jr6LpLRtozJvBJ\\$ 

Scale = 1:42.8

0-1<sub>H</sub>8 0-1<sub>H</sub>8



Q-10-0 <sub>1</sub> 2-2-0 <sub>1</sub> 3	3-6-0 <sub> </sub> 4-10-0 <sub> </sub> 6-2-0 <sub> </sub>	7-6-0 8-10	·0 <sub> </sub> 10-2-0 <sub> </sub> 11-6-0	12-10-0 14-2-0	15-6-0 16-10-0	18-2-0	19-6-0 <sub>1</sub> 20-1	10-0   22-2-0   23-6-0	24-10-0 25-8-0
<u>0-10-0</u> 1-4-0 1	I-4-0	1-4-0 1-4-	0 1-4-0 1-4-0	1-4-0 1-4-0	1-4-0 1-4-0	1-4-0	1-4-0 1-4	4-0 1-4-0 1-4-0	1-4-0 0-10-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1.00 1.00 YES	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. Vert(LL Vert(CT Horz(C	n/a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 113 lb	<b>GRIP</b> 244/190  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 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. All bearings 25-8-0.

29, 28, 27, 26, 25, 24

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.









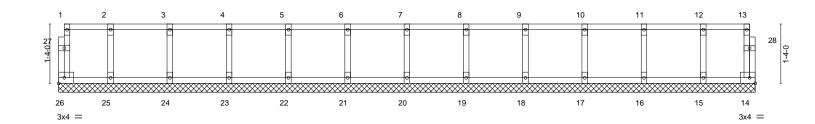
Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett	٦
					E14364927	
J0420-1863	KW7	GABLE	1	1		
					Inh Reference (ontional)	

Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:55 2020 Page 1 ID:z9tQeuaeEwTQ6FgPNEM81tzKtIE-?v1fSwFAdLBrYdCcj7JMvrZH1i?ipm5GaT4\_QFzJvBI

0-1\_8

0-1\_8 Scale = 1:25.9



1-2-0		2-0 6-6-0 7-10-1 4-0 1-4-0 1-4-0		10-6-0 1-4-0	11-10-0	13-2-0 1-4-0 1-4-0	15-8-0 1-2-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	Vert(LL) n. Vert(CT) n. Horz(CT) 0.0	′a -	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 70 lb	<b>GRIP</b> 244/190 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 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. All bearings 15-8-0.

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

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

- 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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available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

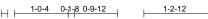


Job	Truss	Truss Type	Qty	Ply	Weaver / Sonnenburg Res. / Harnett
					E14364928
J0420-1863	KW8	GABLE	1	1	
					Joh Reference (ontional)

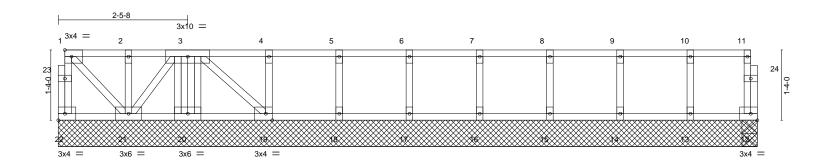
Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Mon May 4 10:47:55 2020 Page 1 ID:z9tQeuaeEwTQ6FgPNEM81tzKtlE-?v1fSwFAdLBrYdCcj7JMvrZGti?gpm3GaT4\_QFzJvBI

0-1-8



0-1-8 Scale = 1:21.9



	1-4-0	2-5-8	4-0-0	5-4-0	6-8-0	8-0-0	1	9-4-0	10-8-0	12-0-0	13-3-4
	1-4-0	1-1-8	1-6-8	1-4-0	1-4-0	1-4-0	- 1	1-4-0	1-4-0	1-4-0	1-3-4
Plate Of	fsets (X,Y)	[19:0-1-8,Edge]									
LOADIN	IG (psf)	SPACING	<b>G-</b> 2-0-0	CSI.		DEFL.	in	(loc) I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Gri	p DOL 1.00	TC	0.07	Vert(LL) 0.	.00	13 ****	480	MT20	244/190
TCDL	10.0	Lumber [	OOL 1.00	BC	0.01	Vert(CT) -0.	.00	20 >999	360		
BCLL	0.0	Rep Stre	ss Incr YES	WB	0.03	Horz(CT) 0.	.00	12 n/a	n/a		
BCDL	5.0	Code IR	C2015/TPI2014	Matri	x-S					Weight: 71 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

**OTHERS** 

2x4 SP No.1(flat)

2x4 SP No.3(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. All bearings 13-3-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 12, 20, 21, 19, 18, 17, 16, 15, 14, 13

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



May 4,2020

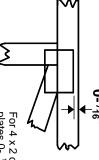


## **Symbols**

# 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.



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

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

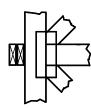
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

# LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated 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

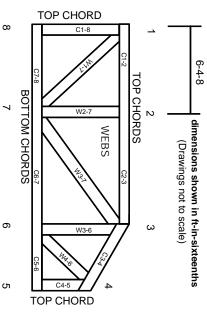
## Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

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

# 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. 10/03/2015

# 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.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

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- 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.
- 7. 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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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. 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.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 15. 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
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.