

RE: J0221-1078  
Lot 1 Finley's Crossing

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: Project Name: J0221-1078  
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 8.3  
Wind Code: N/A Wind Speed: N/A mph  
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E15178917	ET1	2/24/2021
2	E15178918	ET2	2/24/2021
3	E15178919	ET3	2/24/2021
4	E15178920	ET4	2/24/2021
5	E15178921	F01	2/24/2021
6	E15178922	F02	2/24/2021
7	E15178923	F03	2/24/2021
8	E15178924	F04	2/24/2021
9	E15178925	F05	2/24/2021
10	E15178926	F06	2/24/2021
11	E15178927	F07	2/24/2021
12	E15178928	F08	2/24/2021
13	E15178929	F09	2/24/2021
14	E15178930	F10	2/24/2021
15	E15178931	F11	2/24/2021

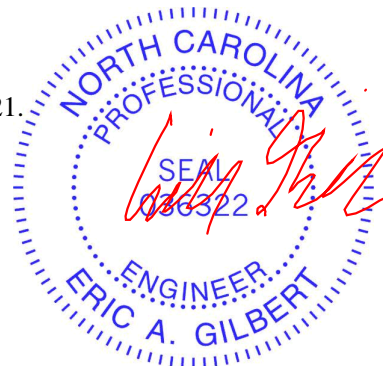
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

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.



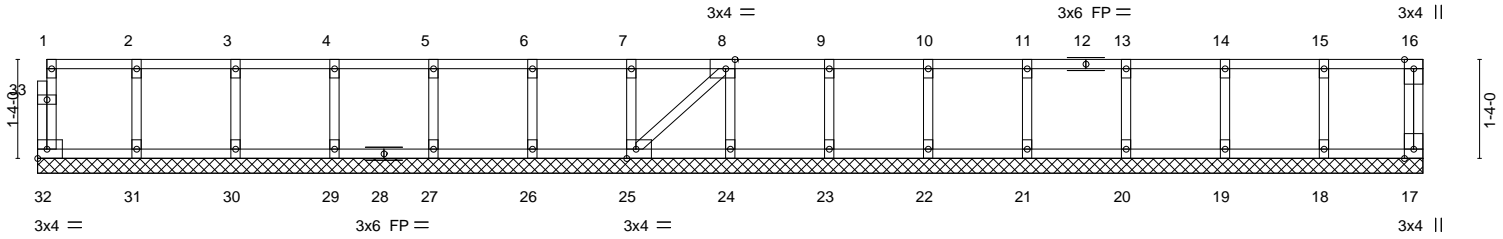
Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178917
J0221-1078	ET1	Floor Supported Gable	1	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:01:56 2020 Page 1  
ID:tLzLSiCk4ttUXohUqmfgStyJZ5j-c3vah4hSdo5aH?gMo7Mqnp8u\_jsrmCBu7spo0yqBkr9

0-1-8

Scale = 1:31.0



18-8-0  
18-8-0

Plate Offsets (X, Y)--	[8:0-1-8,Edge], [25:0-1-8,Edge]					PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999
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	17	n/a	n/a
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 85 lb FT = 20%F, 11%E

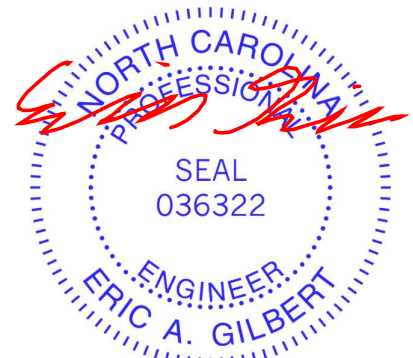
**LUMBER-**  
TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

**BRACING-**  
TOP CHORD 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 18-8-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 1 degree rotation about its center.
  - Gable requires continuous bottom chord bearing.
  - 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.
  - 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.
  - CAUTION, Do not erect truss backwards.



December 7, 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 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



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178918
J0221-1078	ET2	Floor Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:01:57 2020 Page 1  
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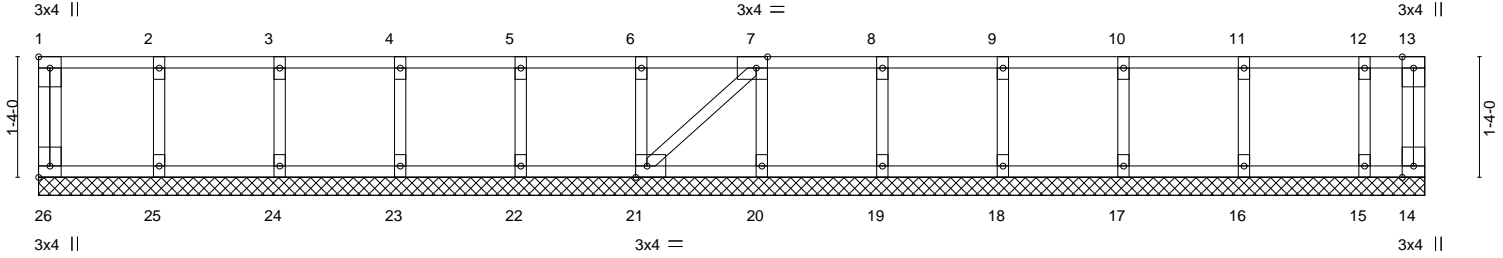


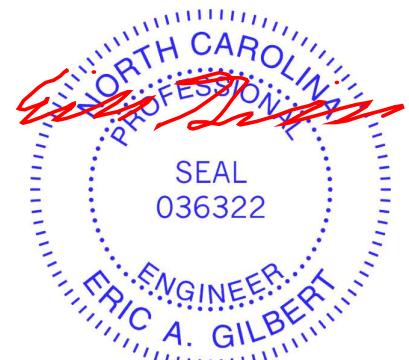
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [21:0-1-8,Edge], [26:Edge,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 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 16 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 72 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** All bearings 15-4-0.  
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 1 degree rotation about its center.
  - Gable requires continuous bottom chord bearing.
  - 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.
  - 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.



December 7, 2020

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Job J0221-1078	Truss ET3	Truss Type Floor Supported Gable	Qty 1	Ply 1	Lot 1 Finley's Crossing E15178919
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8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:01:58 2020 Page 1  
ID:tLzISiCk4ttUXohUqmfGStyJZ5j-YS0L6mjj9QLIWJqkvYOIsEDDZXJE6SBaAlv5jyBKr7

0-1-8

0-1-8

Scale = 1:19.6

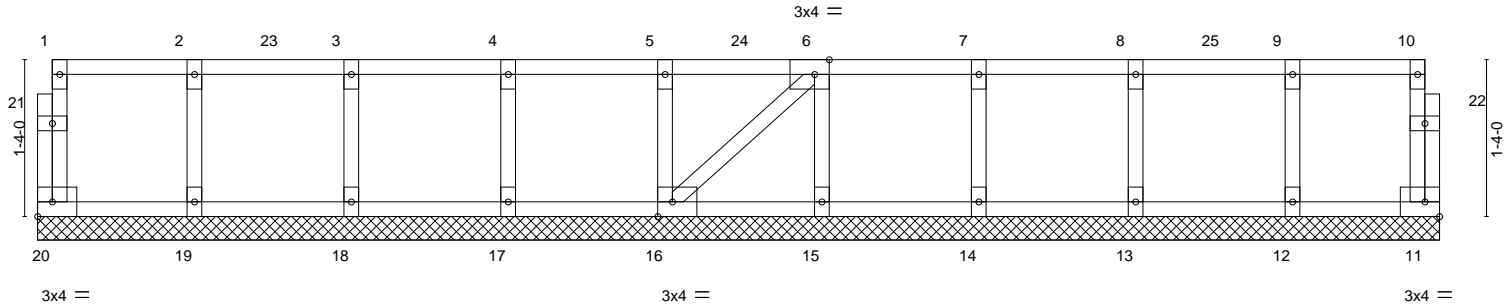


Plate Offsets (X, Y)--	[6:0-1-8,Edge], [16:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.12	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 56 lb	FT = 20%F, 11%E

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

**REACTIONS.** All bearings 11-11-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 1 degree rotation about its center.
  - Gable requires continuous bottom chord bearing.
  - 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.
  - 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 11-20=-10, 1-10=-100  
Concentrated Loads (lb)  
Vert: 4=-91 7=-91 23=-91 24=-91 25=-91



December 7, 2020

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Job J0221-1078	Truss ET4	Truss Type Floor Supported Gable	Qty 1	Ply 1	Lot 1 Finley's Crossing E15178920
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:01 2020 Page 1  
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0-1-8

Scale = 1:14.8

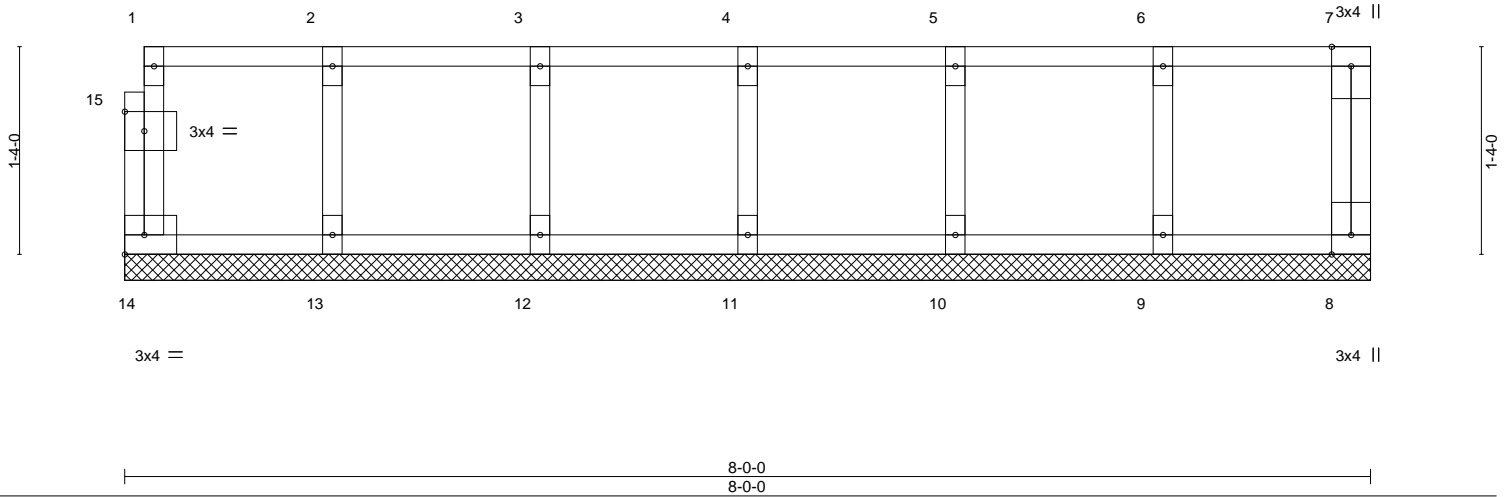


Plate Offsets (X,Y)--	[15:0-1-8,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 8 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 38 lb	FT = 20%F, 11%E

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

**REACTIONS.** All bearings 8-0-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 1 degree rotation about its center.
  - Gable requires continuous bottom chord bearing.
  - 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.
  - 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.
  - CAUTION, Do not erect truss backwards.



December 7, 2020

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Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178921
J0221-1078	F01	Floor	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:02 2020 Page 1  
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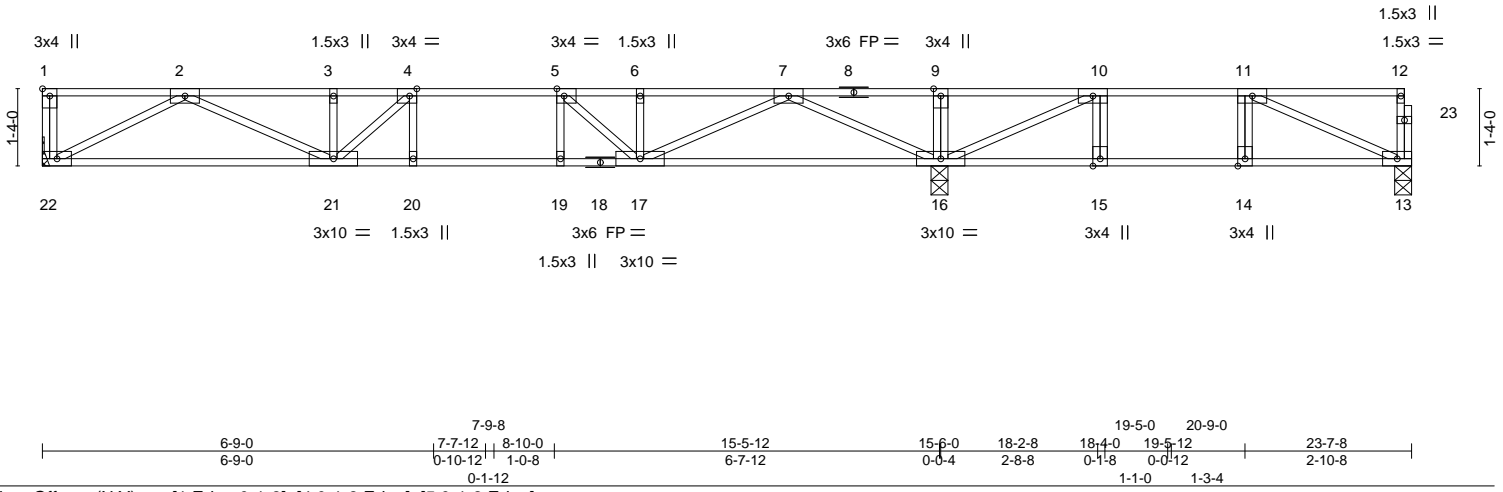


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.49	Vert(LL) -0.15 20-21 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.69	Vert(CT) -0.20 20-21 >916 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.04 13 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 121 lb	FT = 20%F, 11%E

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

**REACTIONS.** (size) 22=Mechanical, 16=0-3-8, 13=0-3-8  
 Max Grav 22=824(LC 10), 16=1410(LC 9), 13=409(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2283/0, 3-4=-2283/0, 4-5=-2508/0, 5-6=-2255/0, 6-7=-2255/0, 7-9=0/642, 9-10=0/642, 10-11=-627/39  
 BOT CHORD 21-22=0/1378, 20-21=0/2508, 19-20=0/2508, 17-19=0/2508, 16-17=0/1336, 15-16=-39/627, 14-15=-39/627, 13-14=-39/627  
 WEBS 9-16=-255/0, 7-16=-1774/0, 7-17=0/1099, 2-22=-1552/0, 2-21=0/1001, 4-21=-501/33, 5-17=-616/0, 10-16=-1007/0, 11-13=-678/44

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x6 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.



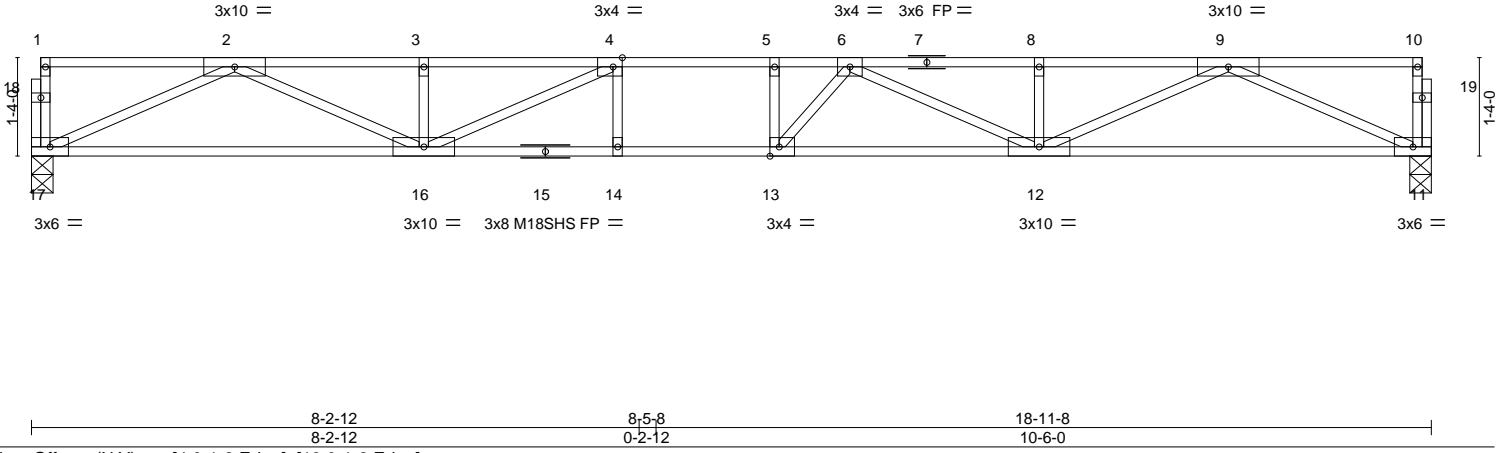
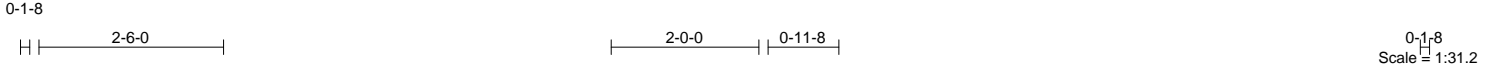
December 7, 2020

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Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178922
J0221-1078	F02	Floor	4	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:03 2020 Page 1  
 ID:tLz1SiCk4ttUXohUqmfgStyJZ5j-uPqE9Unrzy\_ad4jii5\_TZHwt8Y03vCowkS0gmwyBKR2



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.90	Vert(LL)	-0.33	12-13	>689	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.93	Vert(CT)	-0.44	12-13	>507	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.08	11	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 95 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 12-13.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 17=0-3-8, 11=0-3-8  
 Max Grav 17=1023(LC 1), 11=1023(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3236/0, 3-4=-3236/0, 4-5=-3934/0, 5-6=-3934/0, 6-8=-3246/0, 8-9=-3246/0  
 BOT CHORD 16-17=0/1952, 14-16=0/3934, 13-14=0/3934, 12-13=0/3876, 11-12=0/1954  
 WEBS 2-17=-2143/0, 2-16=0/1420, 3-16=-294/20, 4-16=-1008/0, 9-11=-2145/0, 9-12=0/1429, 8-12=-254/0, 6-12=-696/0, 6-13=-250/502, 5-13=-292/117

- 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.



December 7, 2020

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MiTek Affiliate</p> <p>818 Soundside Road          Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178923
J0221-1078	F03	Floor	9	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:04 2020 Page 1  
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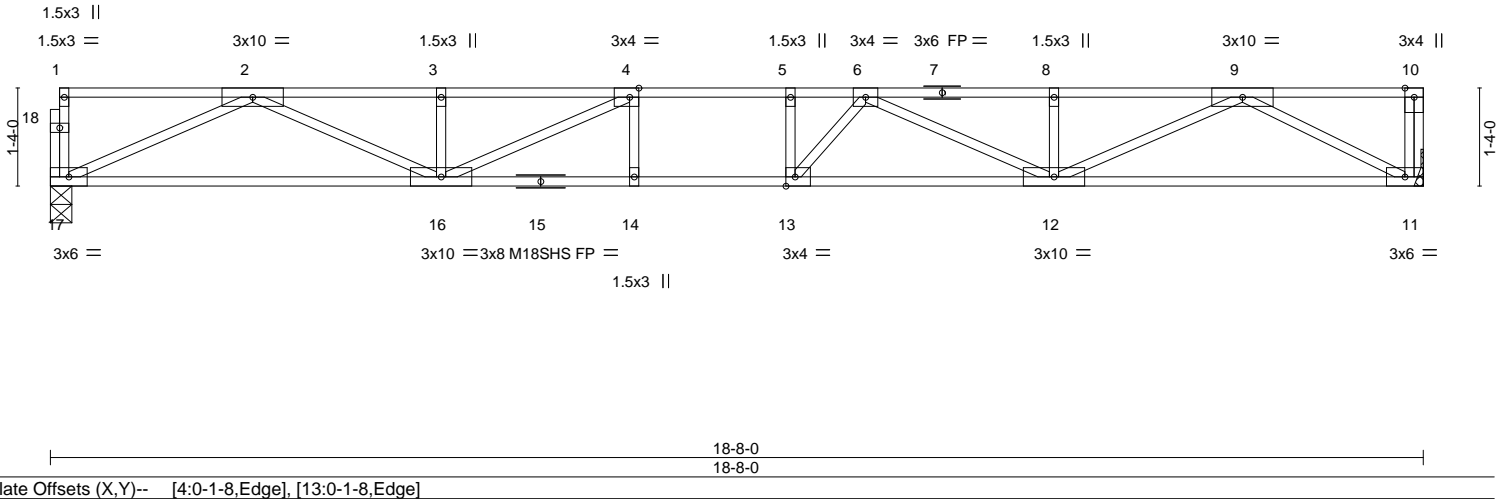
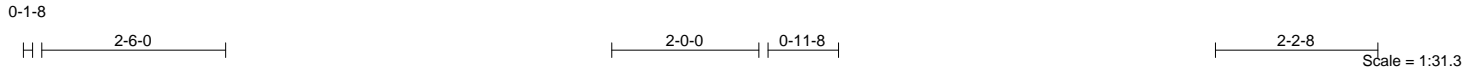


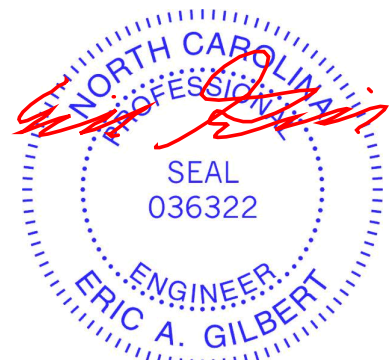
Plate Offsets (X,Y)--	[4:0-1-8,Edge], [13:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.76	Vert(LL) -0.30 12-13 >736 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.41 12-13 >542 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.07 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 94 lb	FT = 20%F, 11%E

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

**REACTIONS.** (size) 17=0-3-8, 11=Mechanical  
 Max Grav 17=1007(LC 1), 11=1013(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3170/0, 3-4=-3170/0, 4-5=-3818/0, 5-6=-3818/0, 6-8=-3066/0, 8-9=-3066/0  
 BOT CHORD 16-17=0/1918, 14-16=0/3818, 13-14=0/3818, 12-13=0/3732, 11-12=0/1737  
 WEBS 2-17=-2105/0, 2-16=0/1385, 3-16=-296/16, 4-16=-959/0, 9-11=-1956/0, 9-12=0/1470, 8-12=-259/0, 6-12=-736/0, 6-13=-213/522, 5-13=-302/97

- 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) 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.



December 7, 2020

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Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178924
J0221-1078	F04	Floor	5	1	Job Reference (optional)	

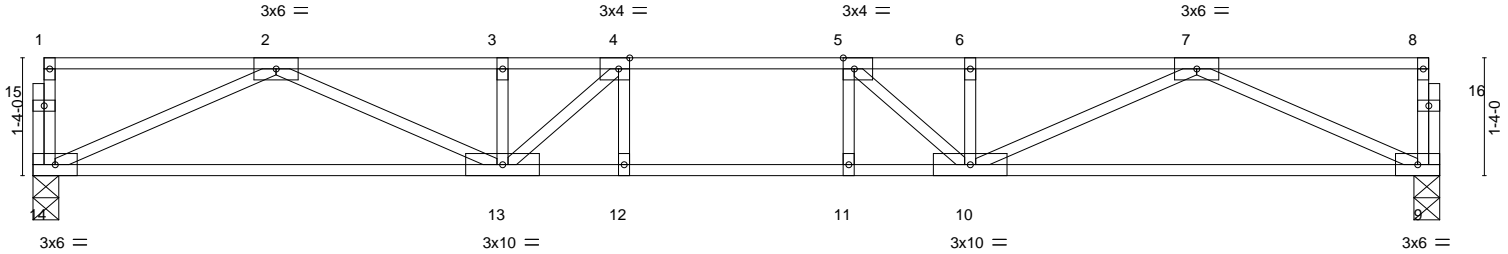
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:05 2020 Page 1  
ID:LzLSiCk4ttUXohUqmgStyJZ5j-rox\_a9o5VZEIsOs4pW0xei0K1LIsN9LDBmVnqpyBKr0

0-1-8



0-1-8  
Scale = 1:26.1



15-11-0  
15-11-0

Plate Offsets (X, Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.49	Vert(LL)	-0.17 12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.72	Vert(CT)	-0.22 12-13	>842	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)  
WEBS 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 10-0-0 oc bracing.

**REACTIONS.**

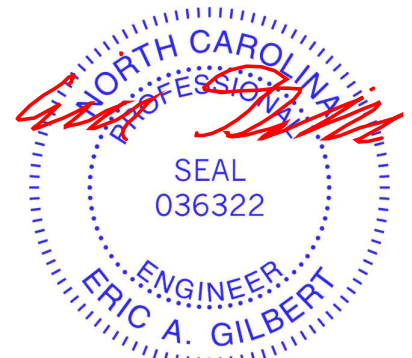
(size) 14=0-3-8, 9=0-3-8  
Max Grav 14=855(LC 1), 9=855(LC 1)

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

TOP CHORD 2-3=-2508/0, 3-4=-2508/0, 4-5=-2745/0, 5-6=-2508/0, 6-7=-2508/0  
BOT CHORD 13-14=0/1596, 12-13=0/2745, 11-12=0/2745, 10-11=0/2745, 9-10=0/1596  
WEBS 7-9=-1751/0, 7-10=0/1009, 2-14=-1751/0, 2-13=0/1009, 4-13=-603/27, 5-10=-603/27

**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.



December 7, 2020

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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



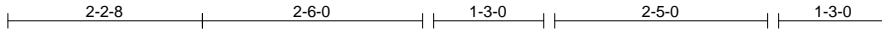
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178925
J0221-1078	F05	Floor	8	1		

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ID:tLzISiCk4ttUXohUqmgfStyJZ5j-J\_VMoVpjGtM9UYRHNDYAAwYVTI5q6cNMQQEKNFyBkr?



0-1-8

Scale = 1:26.2

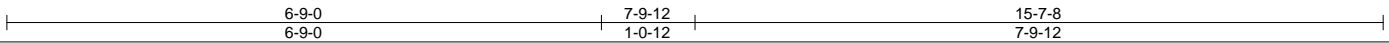
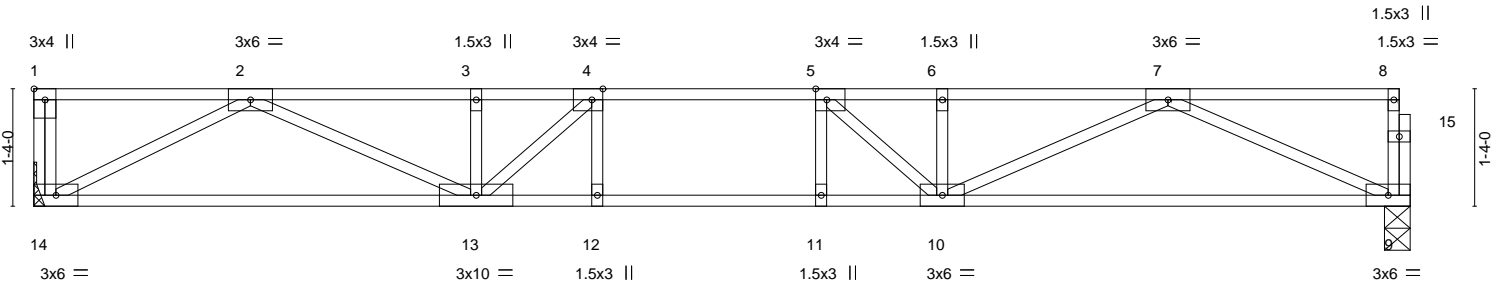


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]

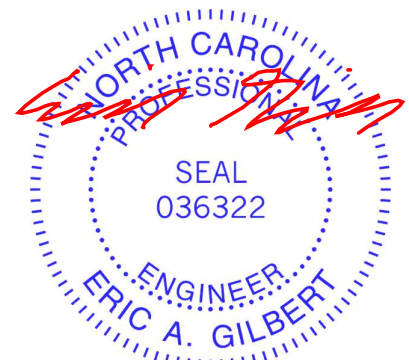
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.51	Vert(LL)	-0.17	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.73	Vert(CT)	-0.22	10-11	>831		
BCLL 0.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.04	9	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 80 lb	FT = 20%F, 11%E

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

**REACTIONS.** (size) 14=Mechanical, 9=0-3-8  
Max Grav 14=846(LC 1), 9=839(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2366/0, 3-4=-2366/0, 4-5=-2641/0, 5-6=-2442/0, 6-7=-2442/0  
BOT CHORD 13-14=0/1419, 12-13=0/2641, 11-12=0/2641, 10-11=0/2641, 9-10=0/1561  
WEBS 7-9=-1713/0, 7-10=0/974, 5-10=-560/53, 2-14=-1598/0, 2-13=0/1047, 4-13=-633/0

- 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.
  - 5) CAUTION, Do not erect truss backwards.



December 7, 2020

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Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178926
J0221-1078	F06	Floor	1	1		
Job Reference (optional)						

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:08 2020 Page 1  
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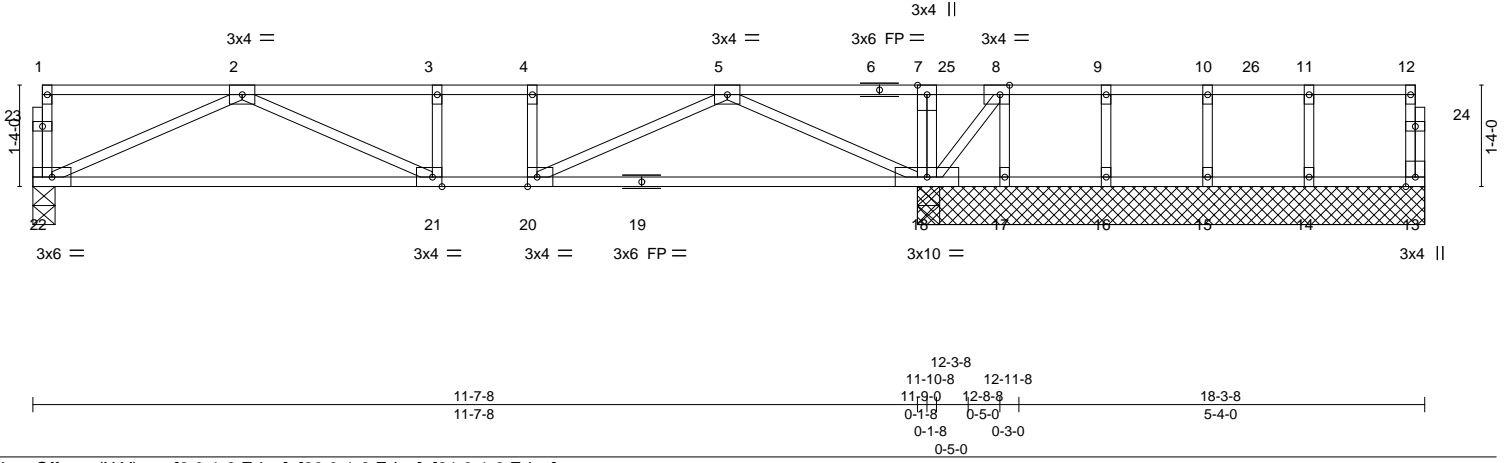


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge]

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 0.33	Vert(LL)	-0.09	21-22	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.38	Vert(CT)	-0.16	21-22	>859		
BCLL 0.0	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.01	13	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 91 lb	FT = 20%F, 11%E

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

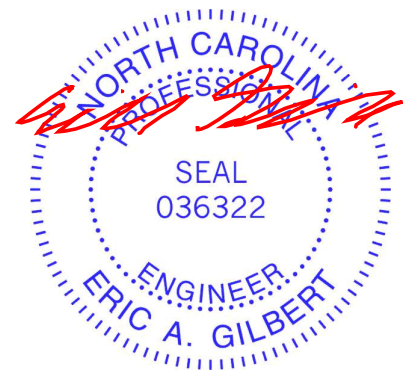
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 6-8-0 except (jt=length) 22=0-3-8.  
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) except 17=-595(LC 4)  
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15 except 22=569(LC 1), 16=254(LC 4), 18=1505(LC 1), 18=1505(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1249/0, 3-4=-1249/0, 4-5=-1249/0, 5-7=0/600, 7-8=0/591  
 BOT CHORD 21-22=0/975, 20-21=0/1249, 18-20=0/631  
 WEBS 7-18=-309/0, 2-22=-1068/0, 2-21=0/353, 5-18=-1285/0, 5-20=0/683, 8-17=0/564, 8-18=-899/0

**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 595 lb uplift at joint 17.  
 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.

**LOAD CASE(S)** Standard  
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 13-22=-10, 1-12=-100  
 Concentrated Loads (lb)  
 Vert: 9=-111 25=-111 26=-111



December 7, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178927
J0221-1078	F07	Floor	3	1	Job Reference (optional)	

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8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:09 2020 Page 1  
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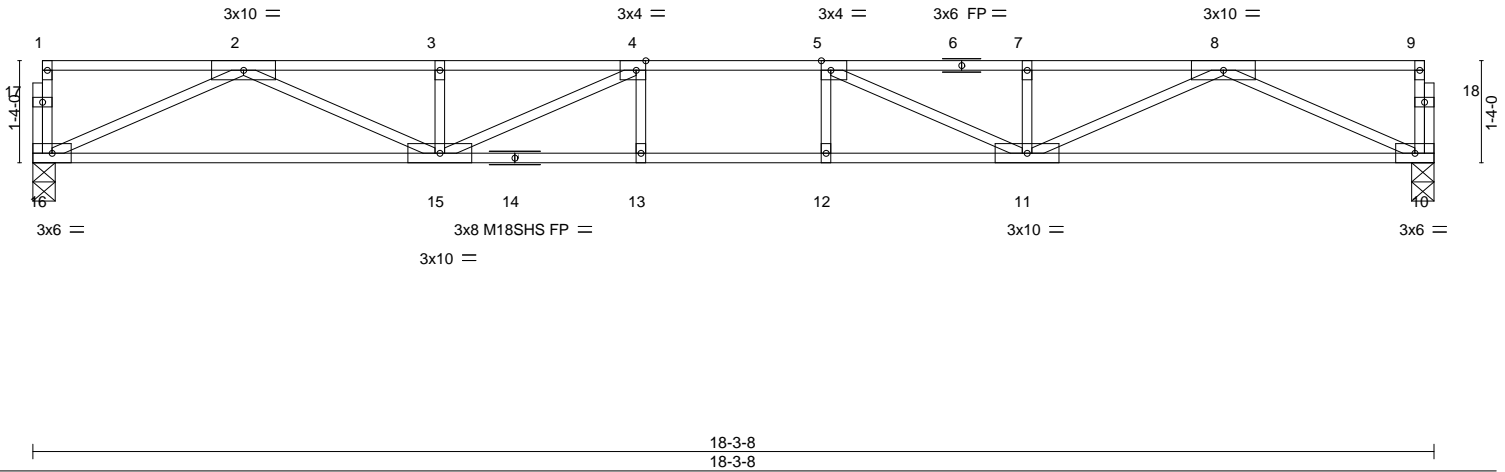
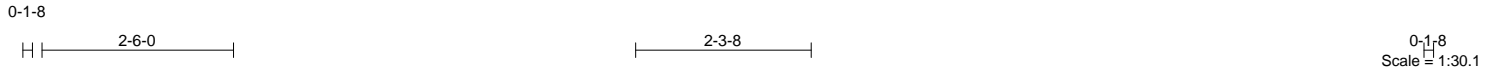


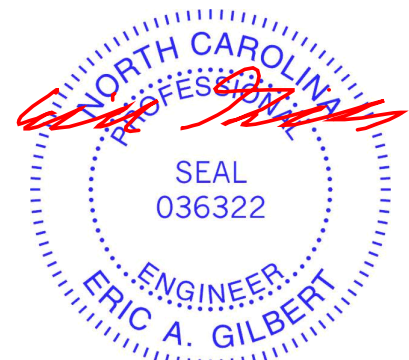
Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.30 13-15 >721 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.93	Vert(CT) -0.39 13-15 >556 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.07 10 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 91 lb	FT = 20%F, 11%E

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

**REACTIONS.** (size) 16=0-3-8, 10=0-3-8  
 Max Grav 16=986(LC 1), 10=986(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3086/0, 3-4=-3086/0, 4-5=-3667/0, 5-7=-3086/0, 7-8=-3086/0  
 BOT CHORD 15-16=0/1873, 13-15=0/3667, 12-13=0/3667, 11-12=0/3667, 10-11=0/1873  
 WEBS 2-16=-2056/0, 2-15=0/1342, 3-15=-305/15, 4-15=-927/0, 8-10=-2056/0, 8-11=0/1342, 7-11=-305/15, 5-11=-927/0

- 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.

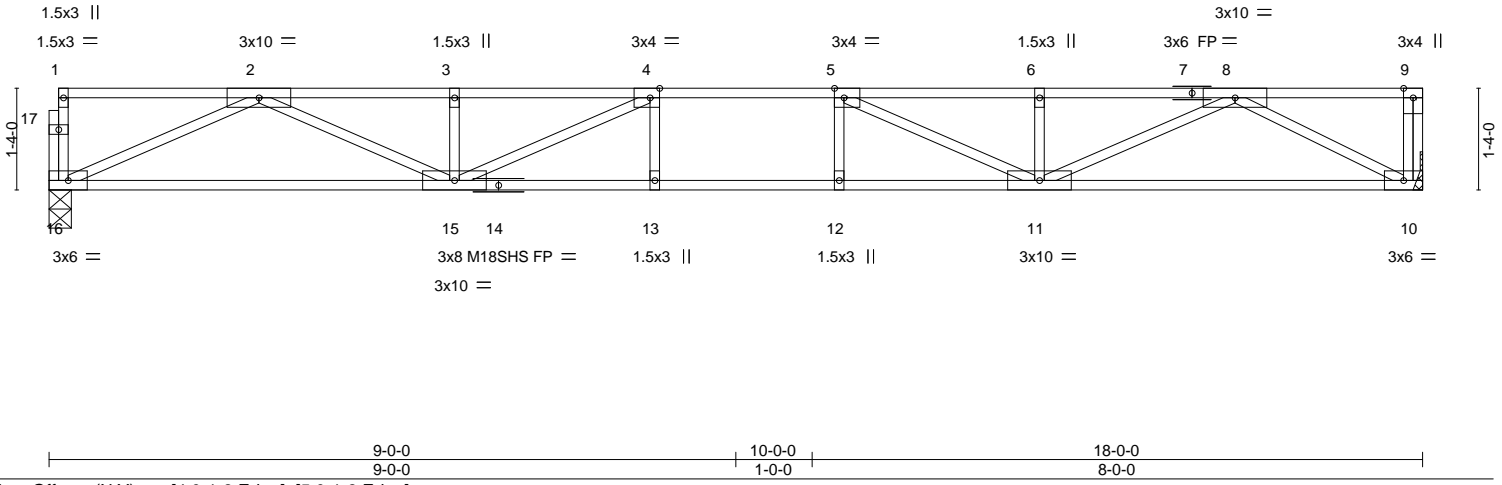
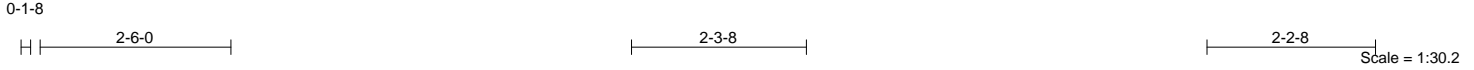


December 7, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178928
J0221-1078	F08	Floor	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:12 2020 Page 1  
 ID:tLzSiCk4ttUXohUqmfgStyJZ5j-88sd2YuUsj6lCTvRkUeaQBoUPA5?WHOFoLhZvzyBKqv



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.94	Vert(LL) -0.30 13-15 >709 480	M18SHS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.66	Vert(CT) -0.39 13-15 >549 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 90 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, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 16=0-3-8, 10=Mechanical  
 Max Grav 16=970(LC 1), 10=976(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3021/0, 3-4=-3021/0, 4-5=-3548/0, 5-6=-2912/0, 6-8=-2912/0  
 BOT CHORD 15-16=0/1838, 13-15=0/3548, 12-13=0/3548, 11-12=0/3548, 10-11=0/1665  
 WEBS 2-16=-2018/0, 2-15=0/1308, 3-15=-307/10, 4-15=-876/0, 8-10=-1875/0, 8-11=0/1379, 6-11=-304/17, 5-11=-961/0

- 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) 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.



December 7, 2020

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b>          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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MiTek Affiliate</p> <p>818 Soundside Road          Edenton, NC 27932</p>
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Job J0221-1078	Truss F09	Truss Type Floor Girder	Qty 1	Ply 1	Lot 1 Finley's Crossing E15178929
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8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:13 2020 Page 1  
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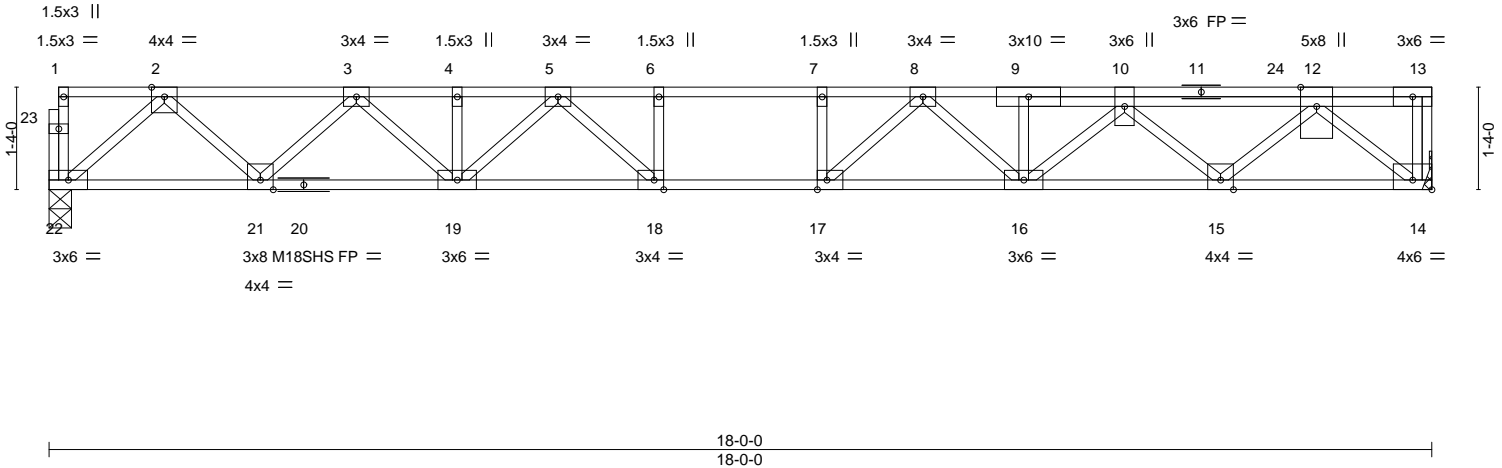
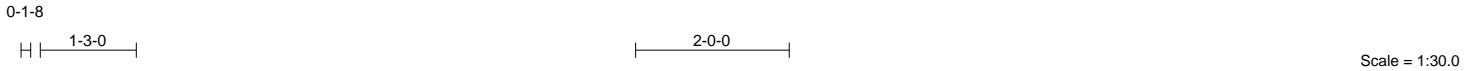


Plate Offsets (X,Y)--	[14:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.77	Vert(LL) -0.23 16-17 >932 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0.32 16-17 >675 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.52	Horz(CT) 0.06 14 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 102 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 14-20: 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 22=0-3-8, 14=Mechanical  
Max Grav 22=1019(LC 1), 14=1398(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1884/0, 3-4=-3170/0, 4-5=-3170/0, 5-6=-3908/0, 6-7=-3908/0, 7-8=-3908/0,  
8-9=-3480/0, 9-10=-3489/0, 10-12=-2457/0  
BOT CHORD 21-22=0/1109, 19-21=0/2627, 18-19=0/3589, 17-18=0/3908, 16-17=0/3779, 15-16=0/3212,  
14-15=0/1678  
WEBS 2-22=-1473/0, 2-21=0/1079, 3-21=-1033/0, 3-19=0/739, 5-19=-569/0, 5-18=0/734,  
6-18=-344/0, 12-14=-2184/0, 12-15=0/1058, 10-15=-1024/0, 10-16=0/356, 8-16=-406/0,  
8-17=-187/454

- 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) 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.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 550 lb down at 16-0-4 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: 14-22=-10, 1-13=-100  
Concentrated Loads (lb)  
Vert: 24=-470(F)



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**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

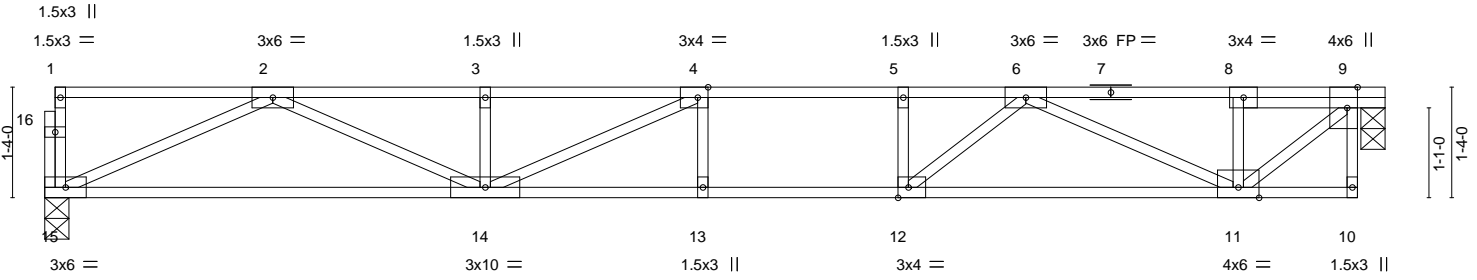
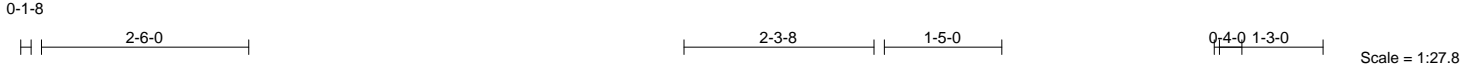
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
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Job	Truss	Truss Type	Qty	Ply	Lot 1 Finley's Crossing	E15178930
J0221-1078	F10	Floor	1	1		

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8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:14 2020 Page 1  
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	8-7-4	9-2-8	15-10-0	16-2-0
	8-7-4	0-7-4	6-7-8	0-4-0
Plate Offsets (X,Y)--	[4:0-1-8,Edge], [9:0-3-0,Edge], [12:0-1-8,Edge]			

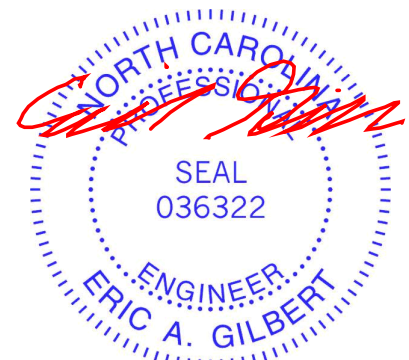
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.86	Vert(LL)	-0.30	13-14	>627	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.99	Vert(CT)	-0.39	13-14	>486		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.03	9	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 82 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 15=0-3-8, 9=0-3-8  
Max Grav 15=854(LC 1), 9=861(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2550/0, 3-4=-2550/0, 4-5=-2687/0, 5-6=-2687/0, 6-8=-940/0, 8-9=-941/0  
BOT CHORD 14-15=0/1589, 13-14=0/2687, 12-13=0/2687, 11-12=0/2122  
WEBS 9-11=0/1224, 2-15=-1743/0, 2-14=0/1063, 3-14=-331/0, 4-14=-511/126, 6-11=-1306/0, 6-12=0/883, 5-12=-396/0

- 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) 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
  - 5) CAUTION, Do not erect truss backwards.



December 7, 2020

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932



Job J0221-1078	Truss F11	Truss Type Floor Girder	Qty 1	Ply 1	Lot 1 Finley's Crossing E15178931
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8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Dec 7 14:02:16 2020 Page 1  
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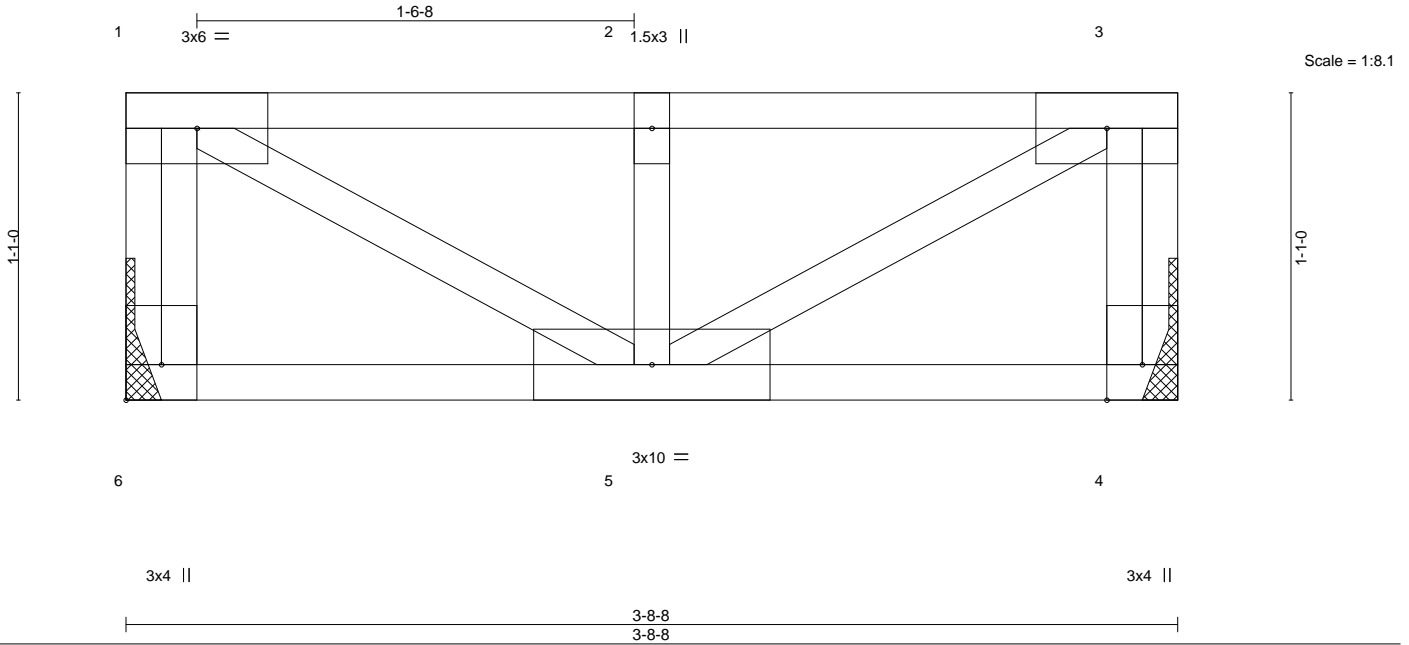


Plate Offsets (X,Y)--	[6:Edge,0-1-8]						
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.15	Vert(LL) -0.01 5 >999 480	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.04	Vert(CT) -0.01 5 >999 360				
BCLL 0.0	Rep Stress Incr NO	WB 0.48	Horz(CT) -0.00 4 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P				Weight: 22 lb	FT = 20%F, 11%E

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD 2x4 SP No.1(flat)		TOP CHORD	Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)			

**REACTIONS.** (size) 6=Mechanical, 4=Mechanical  
Max Grav 6=570(LC 1), 4=570(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-6=-558/0, 3-4=-558/0, 1-2=-877/0, 2-3=-877/0  
WEBS 1-5=0/1003, 2-5=-963/0, 3-5=0/1003

**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.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 4-6=-10, 1-3=-100  
Concentrated Loads (lb)  
Vert: 2=-761



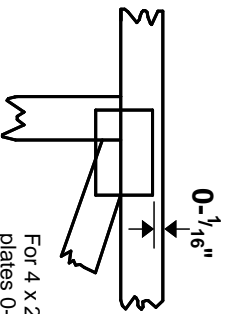
December 7, 2020

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

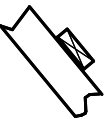
\* Plate location details available in **MITek 20/20 software** or upon request.

## PLATE SIZE

4 X 4

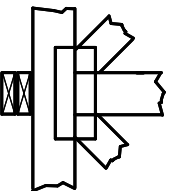
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



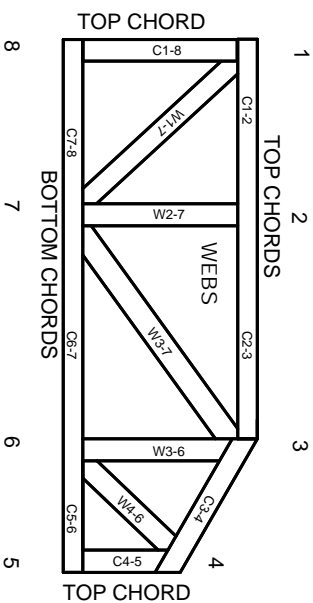
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



**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

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

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

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. 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 specified.
13. 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.
16. 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 environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.