

RE: Wilmington Floor
 Wilmington Floor

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: D.R. HORTON - RAL - 055 Project Name: Wilmington Floor
 Lot/Block: Model: WILMINGTON
 Address: Subdivision:
 City: FUQUAY-VARINA State: NC

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

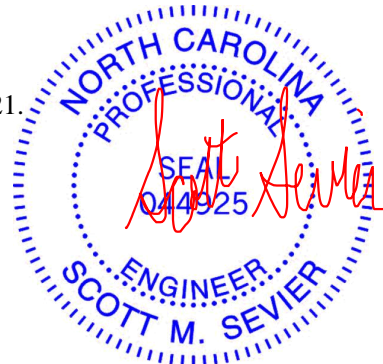
Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.5
 Wind Code: N/A Wind Speed: N/A mph
 Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I47731366	F1	9/2/2021	21	I47731386	F15	9/2/2021
2	I47731367	F2	9/2/2021	22	I47731387	F15E	9/2/2021
3	I47731368	F3	9/2/2021	23	I47731388	F16	9/2/2021
4	I47731369	F4	9/2/2021	24	I47731389	F17	9/2/2021
5	I47731370	F5	9/2/2021				
6	I47731371	F6	9/2/2021				
7	I47731372	F6E	9/2/2021				
8	I47731373	F7	9/2/2021				
9	I47731374	F7A	9/2/2021				
10	I47731375	F7E	9/2/2021				
11	I47731376	F8	9/2/2021				
12	I47731377	F8E	9/2/2021				
13	I47731378	F9	9/2/2021				
14	I47731379	F9A	9/2/2021				
15	I47731380	F10	9/2/2021				
16	I47731381	F11	9/2/2021				
17	I47731382	F11E	9/2/2021				
18	I47731383	F12	9/2/2021				
19	I47731384	F13	9/2/2021				
20	I47731385	F14	9/2/2021				

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.
 Truss Design Engineer's Name: Sevier, Scott
 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 Wilmington Floor	Truss F1	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Wilmington Floor	147731366
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:21 2021 Page 1
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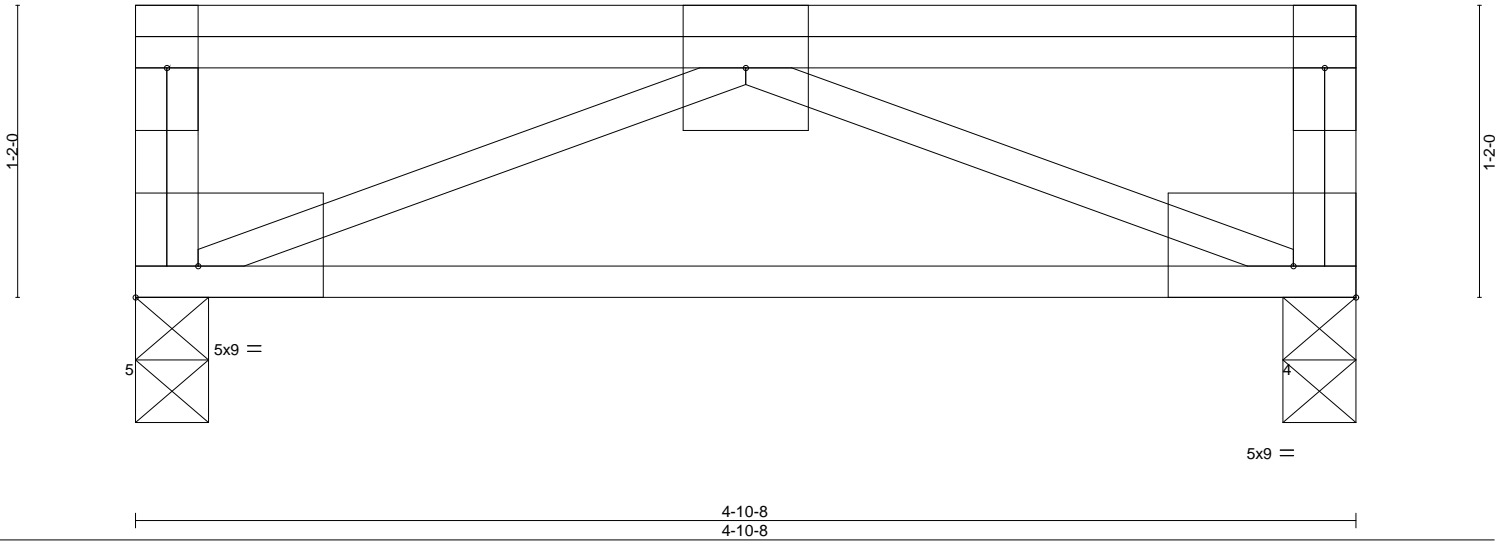
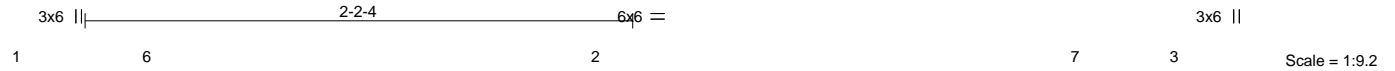


Plate Offsets (X, Y)--	[4:Edge,0-1-8], [5:Edge,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.69	Vert(LL) 0.00 5 **** 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.73	Vert(CT) -0.07 4-5 >743 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.51	Horz(CT) 0.01 4 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P		Weight: 33 lb	FT = 20%F, 11%E

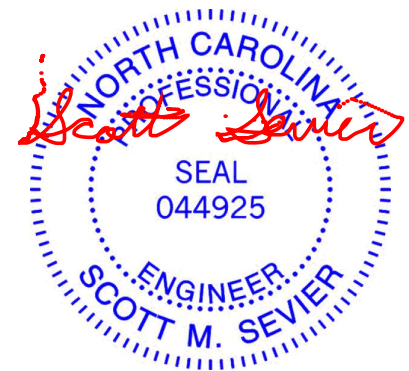
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 5=0-3-8, 4=0-3-8
Max Grav 5=1903(LC 1), 4=1829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-1108/0, 3-4=-1034/0
BOT CHORD 4-5=0/1821
WEBS 2-5=-1978/0, 2-4=-1978/0

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) 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.
3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 841 lb down at 0-1-8, 249 lb down at 0-7-12, 803 lb down at 2-4-4, 225 lb down at 2-7-12, and 833 lb down at 4-4-4, and 270 lb down at 4-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
4) 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: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 3=-270(F) 1=-841(B) 2=-1028(F=-225, B=-803) 6=-249(F) 7=-833(B)

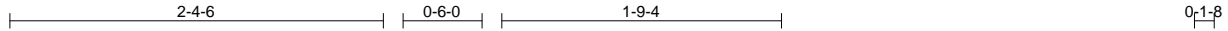


September 2, 2021

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731367
Wilmington Floor	F2	FLOOR GIRDER	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:33 2021 Page 1
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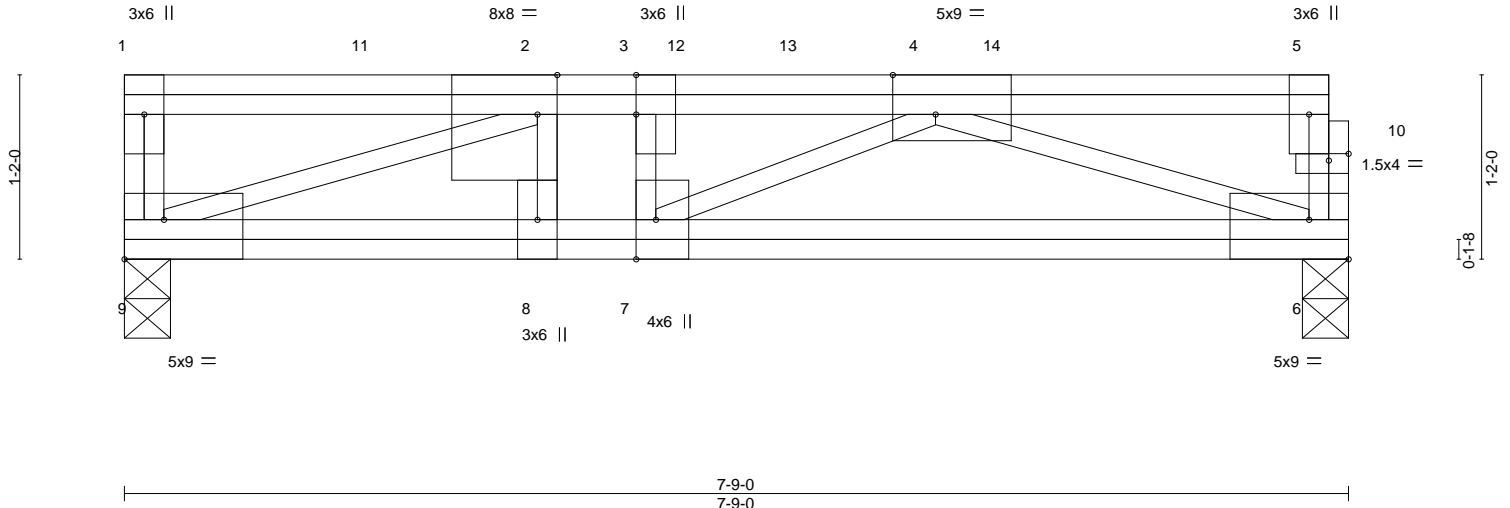


Plate Offsets (X, Y)-- [2:0-1-8,Edge], [3:0-3-0,0-0-0], [4:0-3-4,Edge], [6:Edge,0-3-0], [7:0-3-0,Edge], [9:Edge,0-3-0], [10:0-1-8,0-0-8]

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 0.99	Vert(LL)	-0.08	6-7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.12	6-7	>769		
BCLL 0.0	Rep Stress Incr	NO	WB 0.81	Horz(CT)	0.02	6	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 62 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
4-6,2-9: 2x4 SP No.2 or 2x4 SPF No.2(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) 9=0-3-8, 6=0-3-8
Max Grav 9=1853(LC 1), 6=1701(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-356/0, 2-3=-4081/0, 3-4=-4081/0
BOT CHORD 8-9=0/4081, 7-8=0/4081, 6-7=0/4097
WEBS 4-6=-4306/0, 2-9=-4337/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.
 - 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 949 lb down at 1-7-4, 921 lb down at 3-7-4, and 208 lb down at 4-3-12, and 949 lb down at 5-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-9=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 11=-869(B) 12=-869(B) 13=-128(F) 14=-869(B)

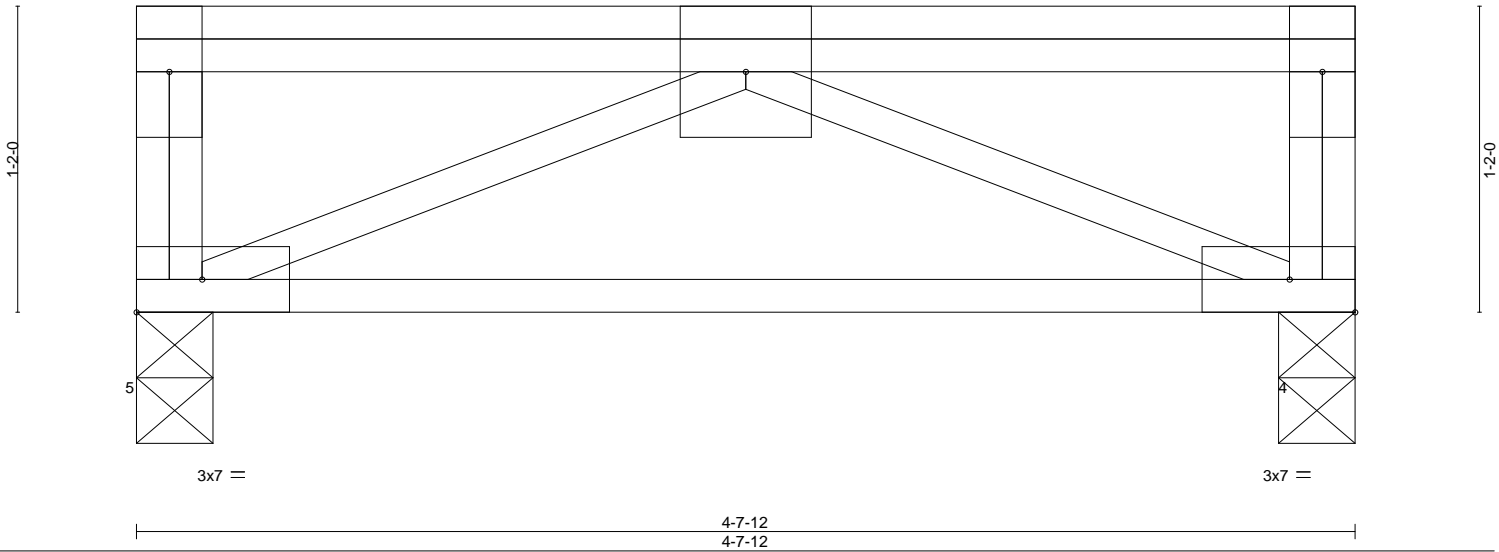
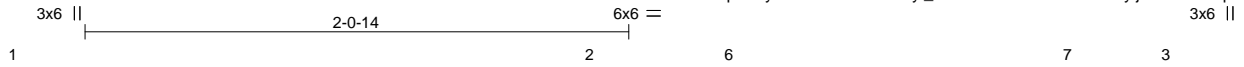


September 2, 2021

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731368
Wilmington Floor	F3	FLOOR GIRDER	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:34 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.71	Vert(LL)	0.00	5	****	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.63	Vert(CT)	-0.06	4-5	>865		
BCLL 0.0	Lumber DOL 1.00	WB 0.43	Horz(CT)	0.01	4	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-P						
	Code IRC2015/TPI2014						Weight: 32 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 5=0-3-8, 4=0-3-8
 Max Grav 5=783(LC 1), 4=1549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-837/0
 BOT CHORD 4-5=0/1549
 WEBS 2-5=-1696/0, 2-4=-1696/0

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 869 lb down at 2-1-12, and 79 lb down at 2-10-4, and 901 lb down at 4-1-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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: 4-5=-10, 1-3=-100
 Concentrated Loads (lb)
 Vert: 2=-869(B) 6=-79(F) 7=-901(B)



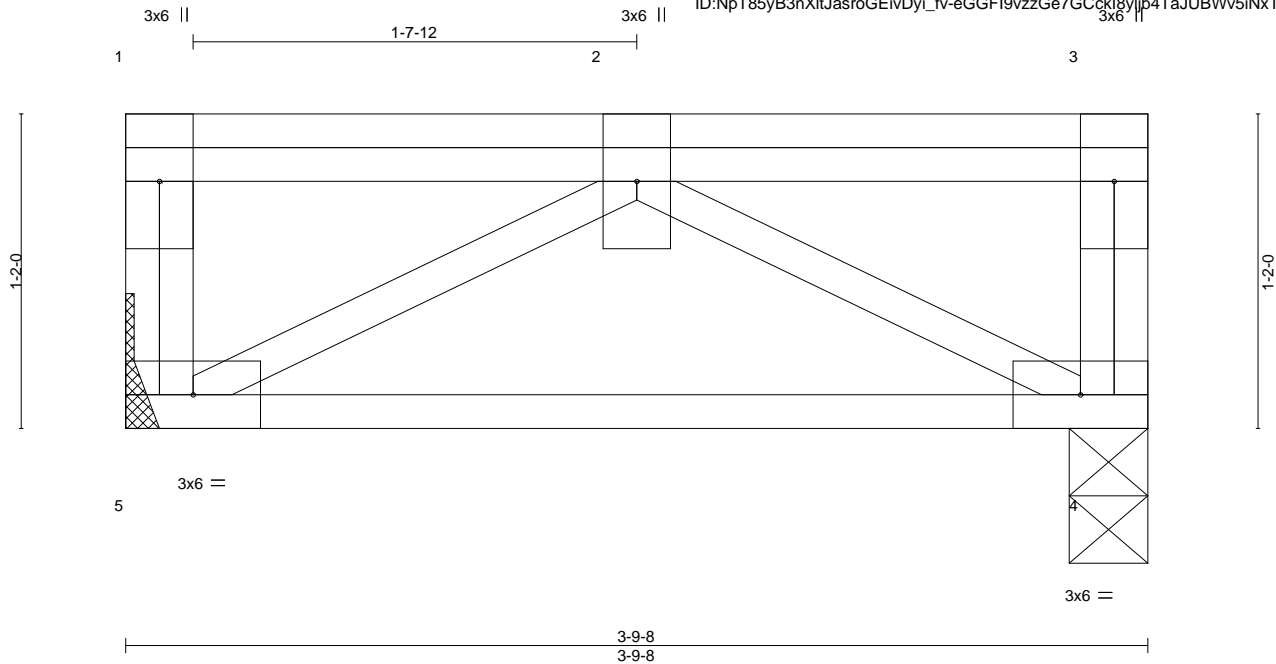
September 2, 2021

Job Wilmington Floor	Truss F4	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Wilmington Floor Job Reference (optional)	147731369
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:34 2021 Page 1

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Scale = 1:8.5

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 0.06	Vert(LL)	0.00	5	****	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.19	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.07	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 27 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 4=0-3-8
 Max Grav 5=228(LC 1), 4=228(LC 1)

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

WEBS 2-5=-284/0, 2-4=-284/0

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Refer to girder(s) for truss to truss connections.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down at 1-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 4-5=-10, 1-3=-100
 Concentrated Loads (lb)
 Vert: 2=-67(B)



September 2, 2021

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



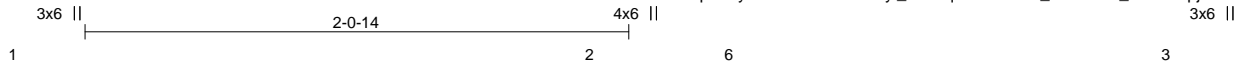
818 Soundside Road
 Edenton, NC 27932

Job Wilmington Floor	Truss F5	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Wilmington Floor Job Reference (optional)	147731370
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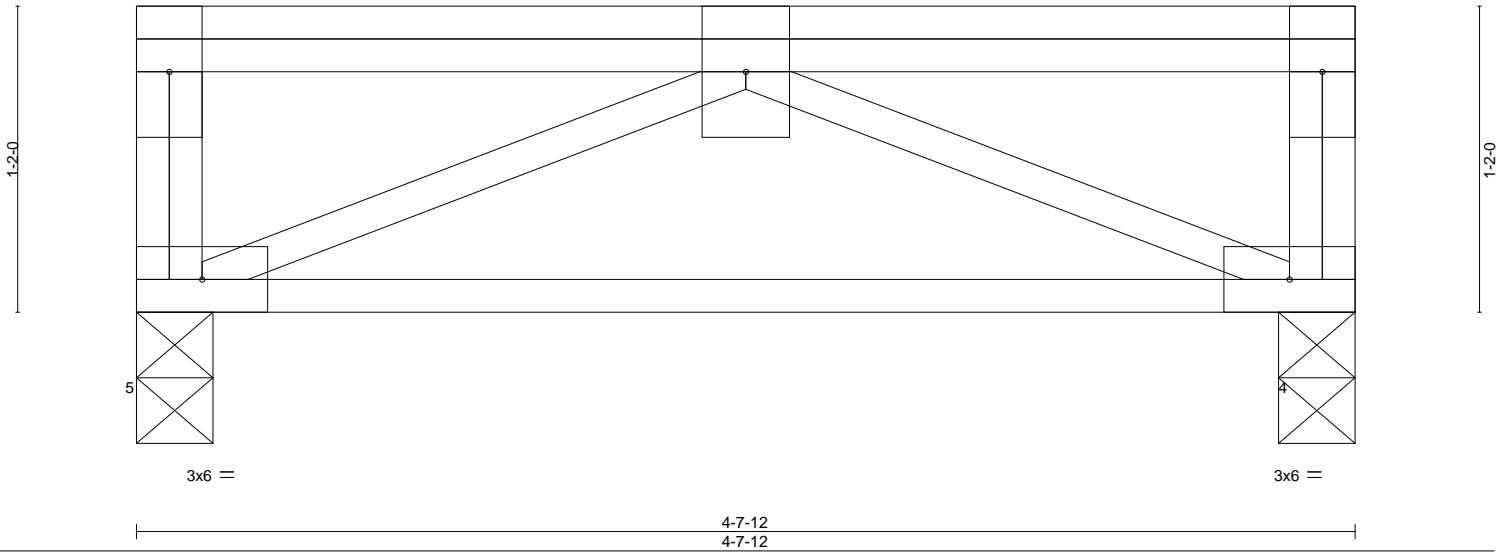
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:35 2021 Page 1

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Scale = 1:8.8



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 0.12	Vert(LL)	0.00	5 ****	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.30	Vert(CT)	-0.06	4-5 >865	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.10	Horz(CT)	0.00	4 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P					Weight: 32 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

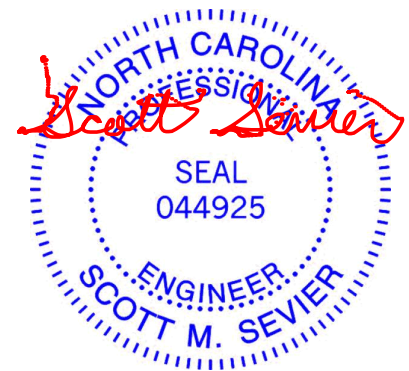
REACTIONS. (size) 5=0-3-8, 4=0-3-8
Max Grav 5=272(LC 1), 4=291(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=0/372
WEBS 2-5=-408/0, 2-4=-408/0

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) 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.
 - 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down at 2-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 4) 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: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 6=-79(B)



September 2, 2021

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731371
Wilmington Floor	F6	Floor	9	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:36 2021 Page 1
ID:NpT85yB3nXltJasroGEivDyi_fv-bfO?jqwDVturWWm7PZ_Do09e36_h_fa?rFyGj0yi_Az



0-1-8

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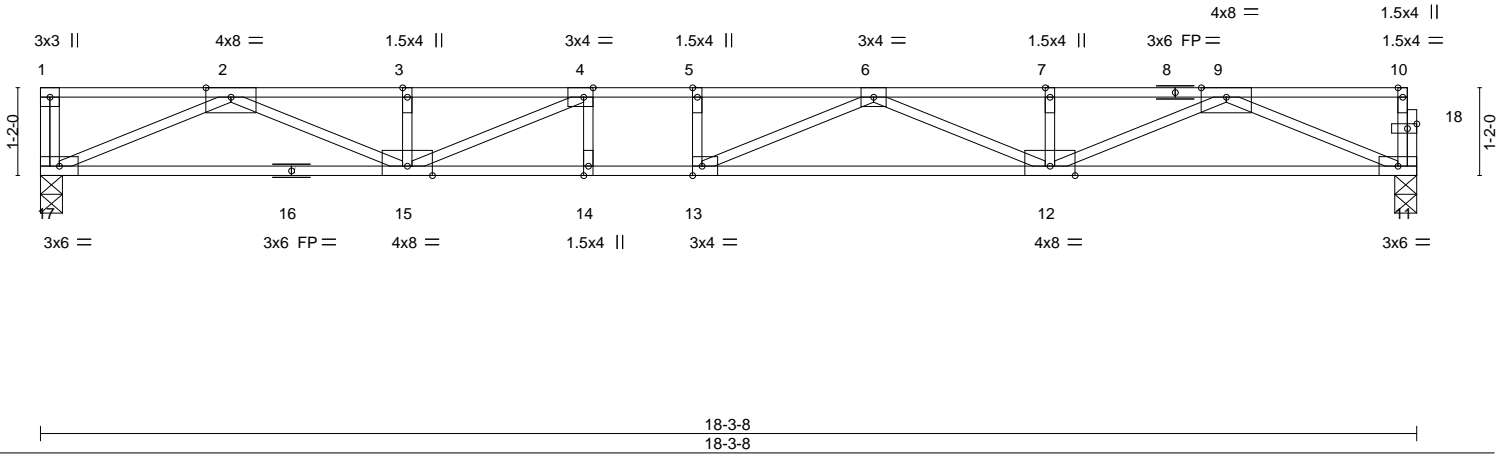


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.70	Vert(LL) -0.38 12-13 >565 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.96	Vert(CT) -0.54 12-13 >399 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.08 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		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 5-1-14 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) 17=0-3-8, 11=0-3-8
Max Grav 17=992(LC 1), 11=986(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3359/0, 3-4=-3359/0, 4-5=-4219/0, 5-6=-4219/0, 6-7=-3381/0, 7-9=-3381/0
BOT CHORD 15-17=0/2014, 14-15=0/4219, 13-14=0/4219, 12-13=0/4120, 11-12=0/2020
WEBS 9-11=-2195/0, 2-17=-2195/0, 9-12=0/1489, 2-15=0/1471, 3-15=-256/26, 6-12=-809/0, 4-15=-1124/0, 6-13=-259/536

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



September 2, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Wilmington Floor
Wilmington Floor	F6E	Floor Supported Gable	1	1	147731372
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:38 2021 Page 1
ID:NpT85yB3nXltJasroGEivDyi_fv-X1Vm8WyT1U9ZlqwVX_0htRF7GwuwSjglIYRNovyi_Ax

0-1/8

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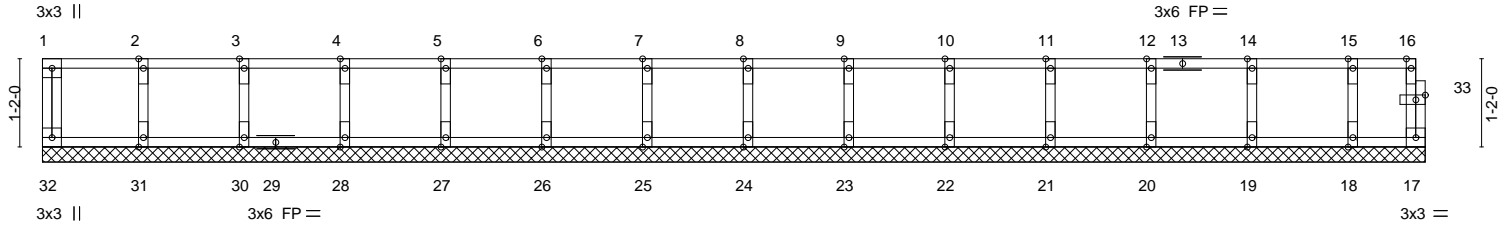


Plate Offsets (X,Y)-- [33:0-1-8,0-0-12]		18-3-8		18-3-8			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a 999
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	17	n/a n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 77 lb	FT = 20%F, 11%E		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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 18-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 28, 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-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.



September 2, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job Wilmington Floor	Truss F7	Truss Type Floor	Qty 1	Ply 1	Wilmington Floor Job Reference (optional)	147731373
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:39 2021 Page 1
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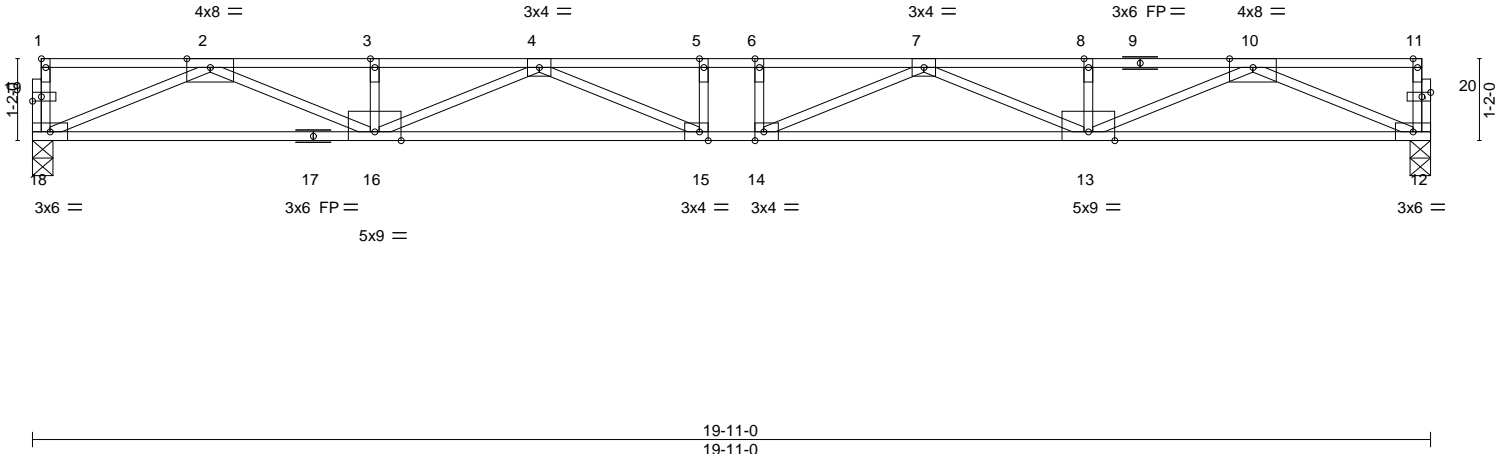
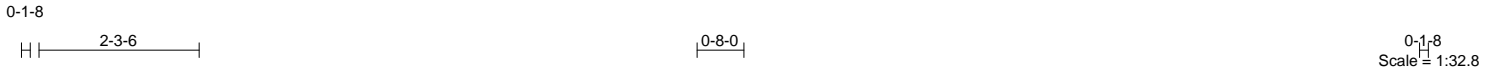


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,0-0-12], [20:0-1-8,0-0-12]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL) -0.46 15 >509 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.94	Vert(CT) -0.64 15 >371 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.10 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 99 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 4-11-7 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) 18=0-3-8, 12=0-3-8
Max Grav 18=1075(LC 1), 12=1075(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3782/0, 3-4=-3782/0, 4-5=-5111/0, 5-6=-5111/0, 6-7=-5111/0, 7-8=-3782/0, 8-10=-3782/0
BOT CHORD 16-18=0/2220, 15-16=0/4724, 14-15=0/5111, 13-14=0/4724, 12-13=0/2220
WEBS 10-12=-2413/0, 2-18=-2413/0, 10-13=0/1709, 2-16=0/1709, 7-13=-1031/0, 4-16=-1031/0, 7-14=-109/744, 4-15=-109/744

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.



Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731374
Wilmington Floor	F7A	Floor	9	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:40 2021 Page 1
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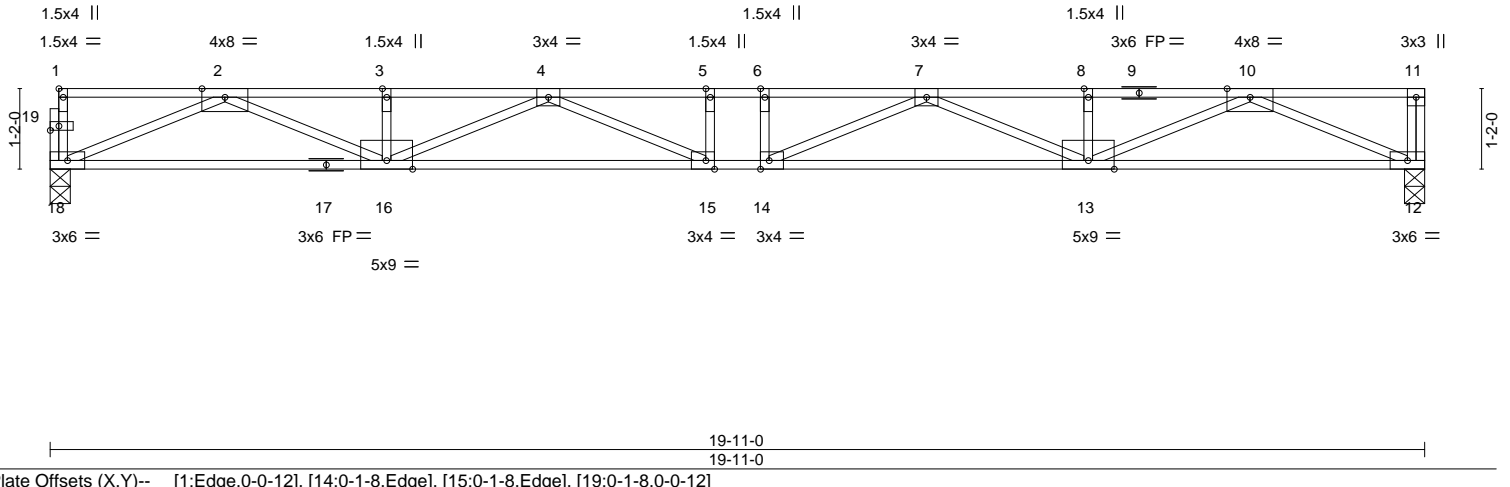


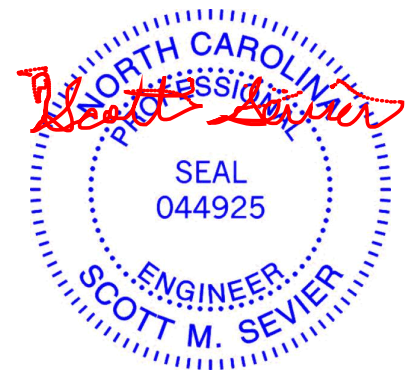
Plate Offsets (X,Y)--	[1:Edge,0-0-12], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL) -0.46 15 >509 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.94	Vert(CT) -0.64 15 >371 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.10 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 99 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 4-11-7 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) 18=0-3-8, 12=0-3-8
Max Grav 18=1075(LC 1), 12=1082(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3782/0, 3-4=-3782/0, 4-5=-5111/0, 5-6=-5111/0, 6-7=-5111/0, 7-8=-3782/0, 8-10=-3782/0
BOT CHORD 16-18=0/2220, 15-16=0/4724, 14-15=0/5111, 13-14=0/4724, 12-13=0/2223
WEBS 10-12=-2422/0, 2-18=-2413/0, 10-13=0/1706, 2-16=0/1709, 7-13=-1031/0, 4-16=-1031/0, 7-14=-110/744, 4-15=-109/744

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



September 2, 2021

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor
Wilmington Floor	F7E	Floor Supported Gable	1	1	147731375
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:45 2021 Page 1
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0-1-8

Scale = 1:32.7

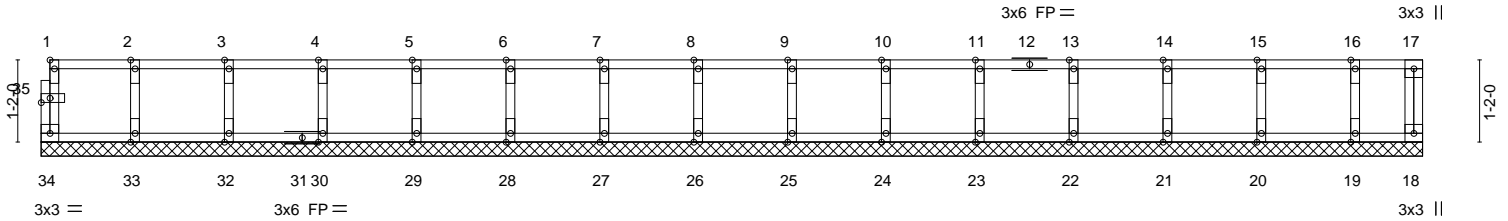


Plate Offsets (X, Y)-- [1:Edge,0-0-12], [35:0-1-8,0-0-12]		19-7-8 19-7-8					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a 999
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	18	n/a n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 82 lb	FT = 20%F, 11%E		

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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 19-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.
 - 7) CAUTION, Do not erect truss backwards.



September 2, 2021

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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

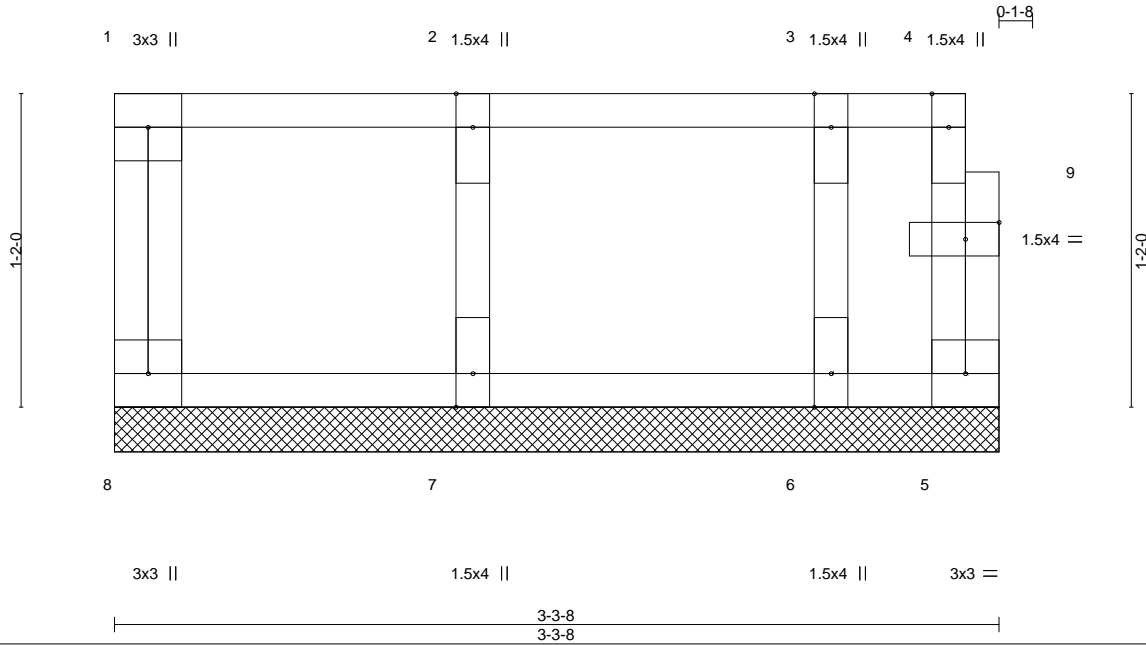


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731376
Wilmington Floor	F8	Floor Supported Gable	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:46 2021 Page 1
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Scale = 1:8.6

Plate Offsets (X,Y)--	[9:0-1-8,0-0-12]				
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 0.08	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 5 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 18 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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 3-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



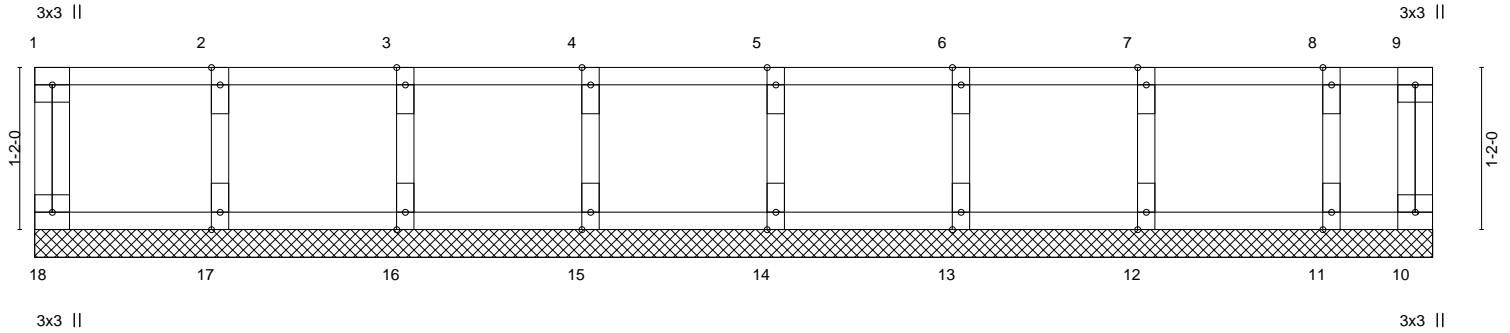
September 2, 2021

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor
Wilmington Floor	F8E	Floor Supported Gable	1	1	147731377
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:47 2021 Page 1
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Scale = 1:16.6



10-0-12
10-0-12

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0 Plate Grip DOL 1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	10	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R						
							Weight: 45 lb	FT = 20%F, 11%E

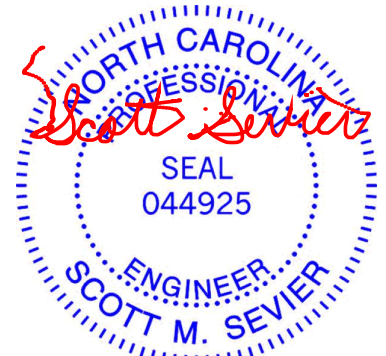
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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

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

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.



September 2, 2021

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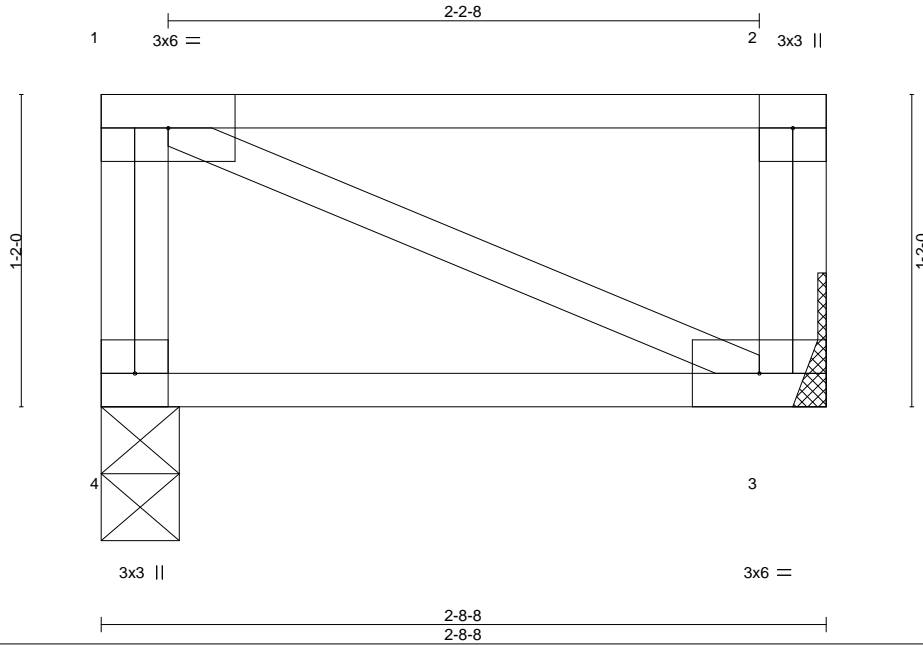


818 Soundside Road
 Edenton, NC 27932

Job Wilmington Floor	Truss F9	Truss Type Floor	Qty 1	Ply 1	Wilmington Floor Job Reference (optional)	147731378
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:48 2021 Page 1
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Scale = 1:8.6

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 0.49	Vert(LL)	0.00	4	****	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.05	Vert(CT)	-0.01	3-4	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 17 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

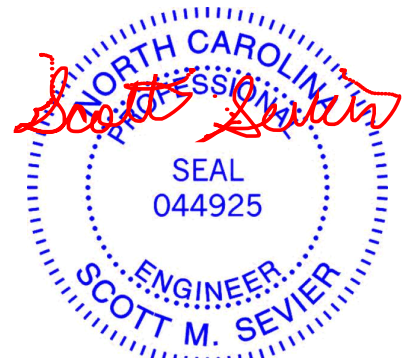
TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 3=Mechanical
 Max Grav 4=135(LC 1), 3=135(LC 1)

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

NOTES-

- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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.



September 2, 2021

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818 Soundside Road
 Edenton, NC 27932

Job Wilmington Floor	Truss F9A	Truss Type Floor	Qty 1	Ply 1	Wilmington Floor	147731379
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:48 2021 Page 1
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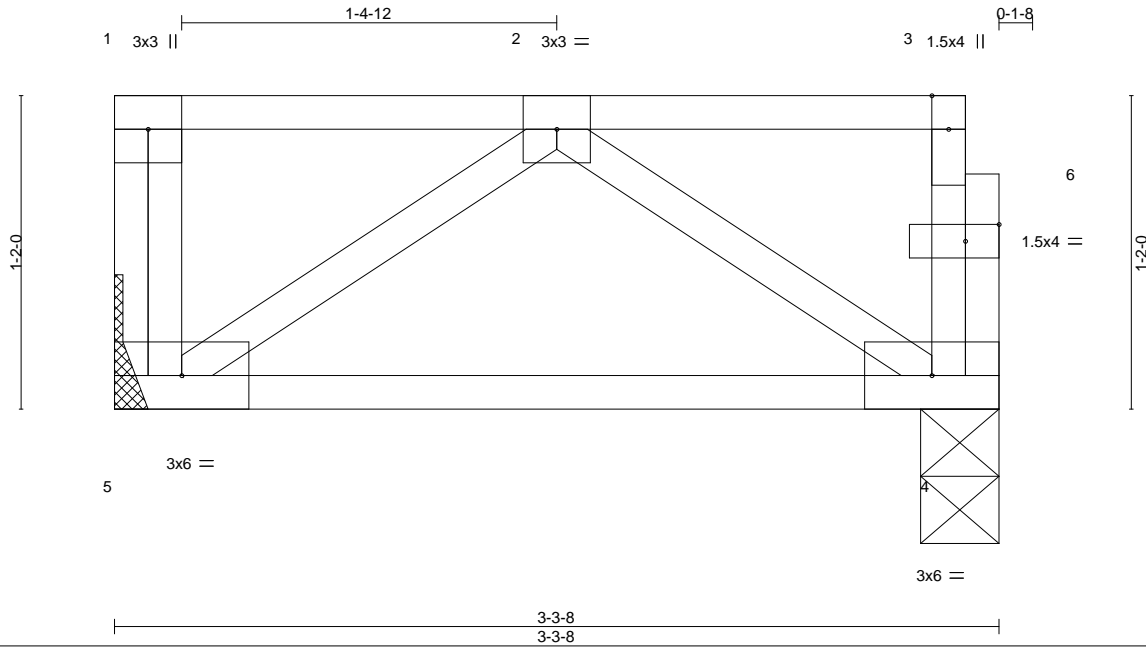


Plate Offsets (X,Y)--	[6:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.13	Vert(LL) 0.00 5 **** 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.12	Vert(CT) -0.01 4-5 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 4 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P		Weight: 20 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 5=Mechanical, 4=0-3-8
Max Grav 5=167(LC 1), 4=161(LC 1)

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

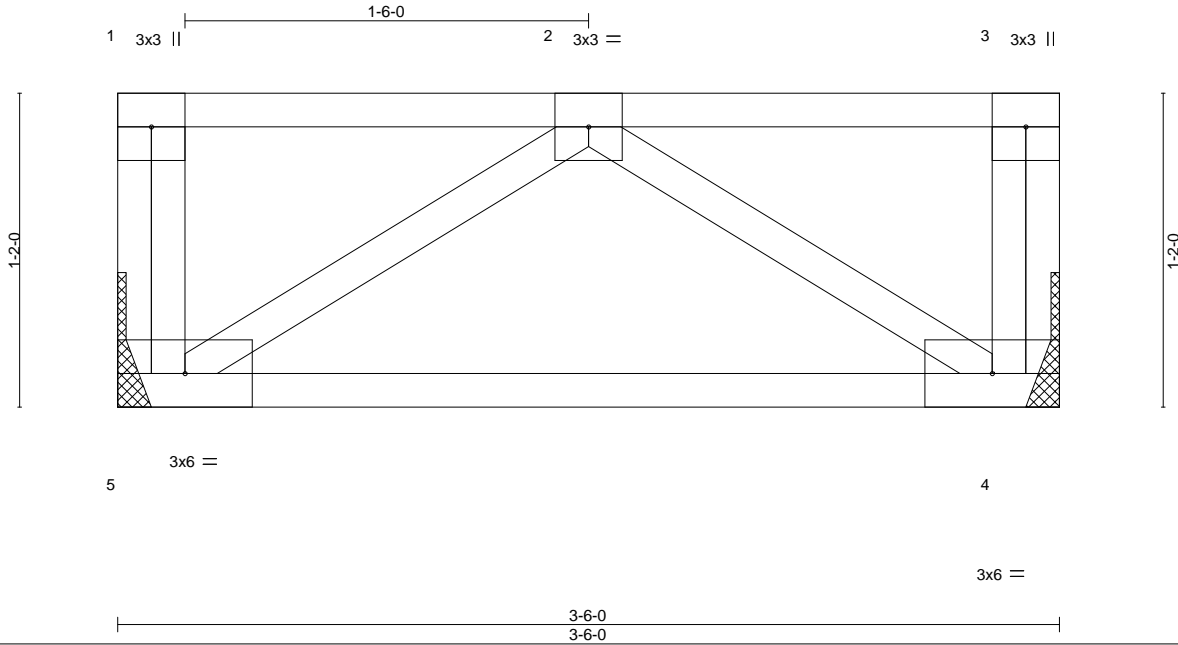
- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



Job Wilmington Floor	Truss F10	Truss Type Floor	Qty 1	Ply 1	Wilmington Floor	I47731380
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:22 2021 Page 1
ID:NpT85yB3nXltJasroGEivDyi_fv-?yYjn2lRoA8qqMiRbdkxE3aN3TPKiUVxd3ZXFqyi_BB



Scale = 1:8.6

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 0.16	Vert(LL)	0.00	5	****	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.13	Vert(CT)	-0.02	4-5	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-P							
									Weight: 21 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 4=Mechanical
Max Grav 5=179(LC 1), 4=179(LC 1)

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Refer to girder(s) for truss to truss connections.
- 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.



September 2, 2021

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

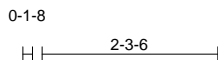


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731381
Wilmington Floor	F11	Floor	5	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:23 2021 Page 1
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Scale = 1:29.9

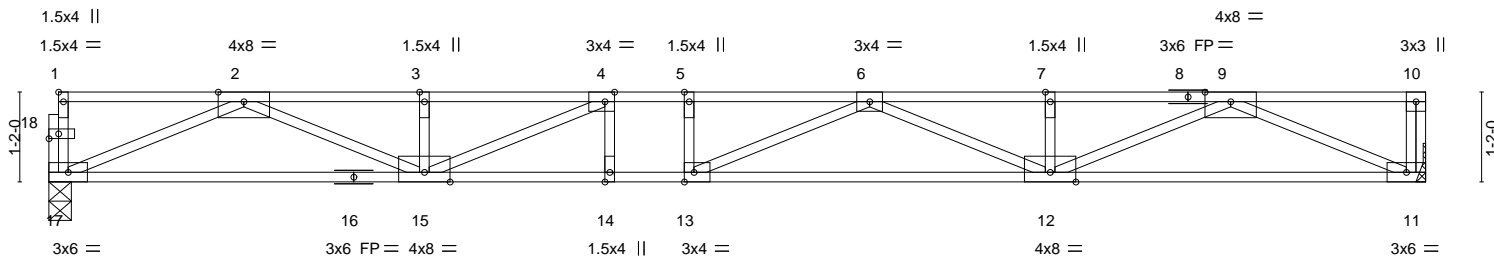


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,0-0-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.84	Vert(LL)	-0.36	12-13	>595	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.88	Vert(CT)	-0.50	12-13	>419		
BCLL 0.0	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.07	11	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 89 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-3-8, 11=Mechanical
Max Grav 17=963(LC 1), 11=969(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3260/0, 3-4=-3260/0, 4-5=-4036/0, 5-6=-4036/0, 6-7=-3274/0, 7-9=-3274/0
BOT CHORD 15-17=0/1959, 14-15=0/4036, 13-14=0/4036, 12-13=0/3966, 11-12=0/1969
WEBS 9-11=-2146/0, 2-17=-2129/0, 9-12=0/1428, 2-15=0/1423, 3-15=-252/4, 6-12=-757/0, 4-15=-1007/0, 6-13=-275/473

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.



September 2, 2021

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

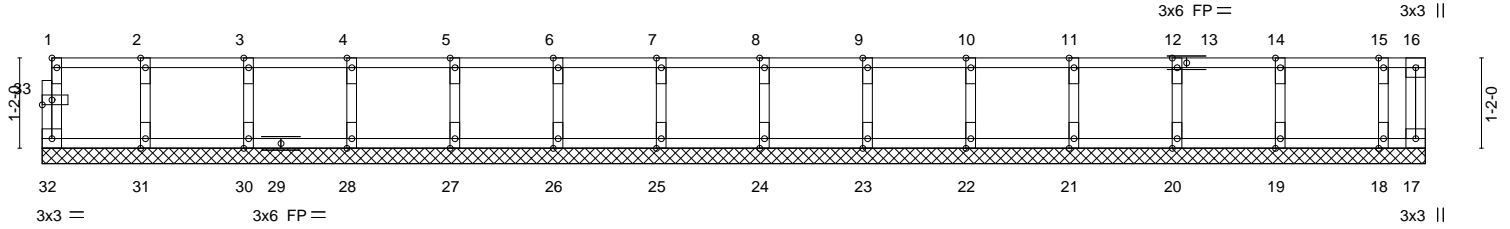
Job	Truss	Truss Type	Qty	Ply	Wilmington Floor
Wilmington Floor	F11E	Floor Supported Gable	1	1	147731382
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:24 2021 Page 1
ID:NpT85yB3nXltJasroGEivDyi_fv-xLFTcKhKBOY3grpi2mPJUfknH6ZAOCE4N2dJjy_B9

0-1-8

Scale = 1:29.8



17-10-8
17-10-8

Plate Offsets (X,Y)--	[1:Edge,0-0-12], [33:0-1-8,0-0-12]	
LOADING (psf)	SPACING-	CSI.
TCLL 40.0	2-0-0	TC 0.08
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02
BCLL 0.0	Lumber DOL 1.00	WB 0.03
BCDL 5.0	Rep Stress Incr YES	Matrix-R
	Code IRC2015/TPI2014	
		DEFL.
		in (loc) l/defl L/d
		Vert(LL) n/a - n/a 999
		Vert(CT) n/a - n/a 999
		Horz(CT) 0.00 17 n/a n/a
		PLATES
		MT20
		GRIP
		197/144
		Weight: 76 lb
		FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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 17-10-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 28, 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-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.



September 2, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731383
Wilmington Floor	F12	Floor	3	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:25 2021 Page 1
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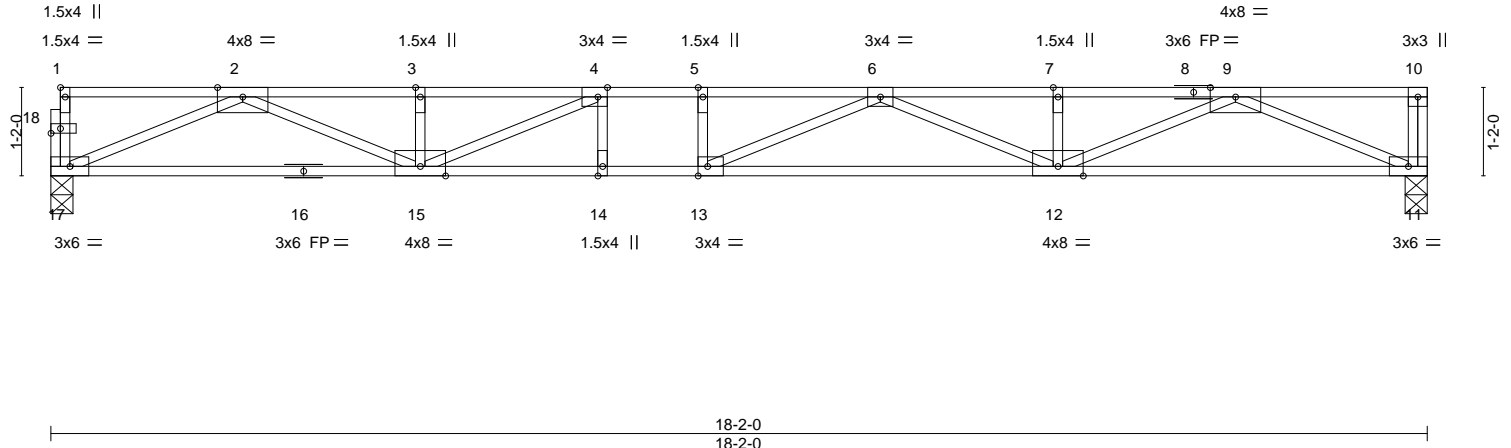


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,0-0-12]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.92	Vert(LL) -0.39 12-13 >551 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.95	Vert(CT) -0.55 12-13 >389 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.08 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 90 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(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 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 17=0-3-8, 11=0-3-8
 Max Grav 17=979(LC 1), 11=985(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3329/0, 3-4=-3329/0, 4-5=-4164/0, 5-6=-4164/0, 6-7=-3348/0, 7-9=-3348/0
 BOT CHORD 15-17=0/1996, 14-15=0/4164, 13-14=0/4164, 12-13=0/4074, 11-12=0/2007
 WEBS 9-11=-2187/0, 2-17=-2169/0, 9-12=0/1467, 2-15=0/1458, 3-15=-255/17, 6-12=-795/0,
 4-15=-1090/0, 6-13=-262/515

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



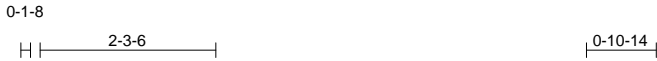
September 2, 2021

<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731384
Wilmington Floor	F13	Floor	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:26 2021 Page 1
ID:NpT85yB3nXltJasroGEivDyi_fv-tknDdQoyroeGJ_?CqTotOvluP4bfe8aXYhXkObyi_B7



Scale = 1:29.9

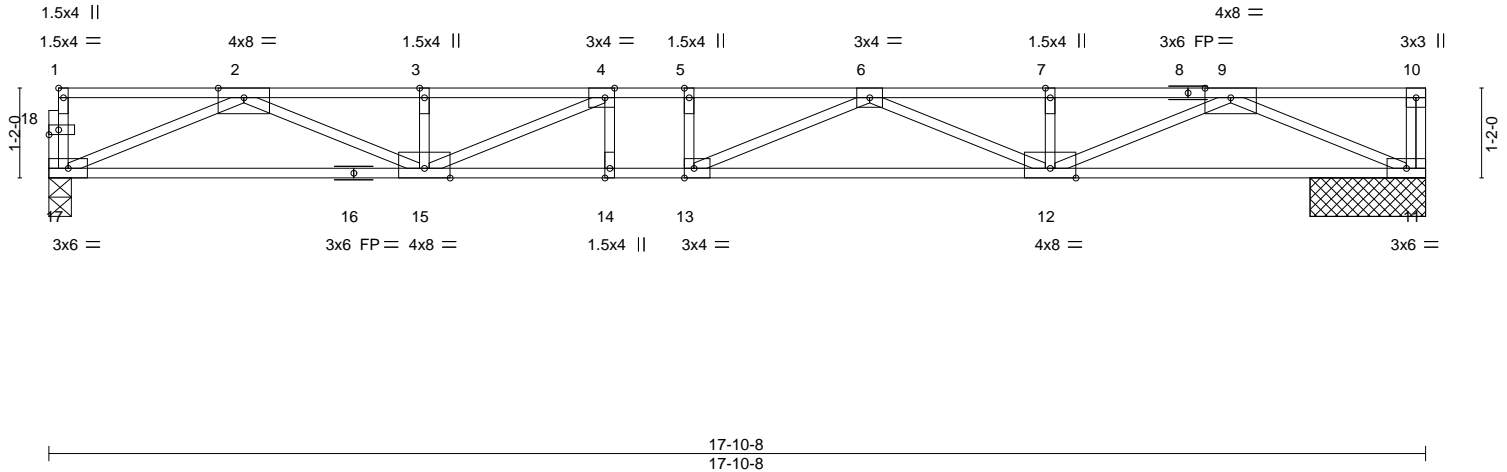


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.84	Vert(LL) -0.36 12-13 >595 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.50 12-13 >419 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.07 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 89 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2(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.
WEBS	2x4 SP No.3(flat)		


REACTIONS. (size) 17=0-3-8, 11=1-6-0
Max Grav 17=963(LC 1), 11=969(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3260/0, 3-4=-3260/0, 4-5=-4036/0, 5-6=-4036/0, 6-7=-3274/0, 7-9=-3274/0
BOT CHORD 15-17=0/1959, 14-15=0/4036, 13-14=0/4036, 12-13=0/3966, 11-12=0/1969
WEBS 9-11=-2146/0, 2-17=-2129/0, 9-12=0/1428, 2-15=0/1423, 3-15=-252/4, 6-12=-757/0, 4-15=-1007/0, 6-13=-275/473

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.



September 2,2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY</p>  <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731386
Wilmington Floor	F15	Floor	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:29 2021 Page 1
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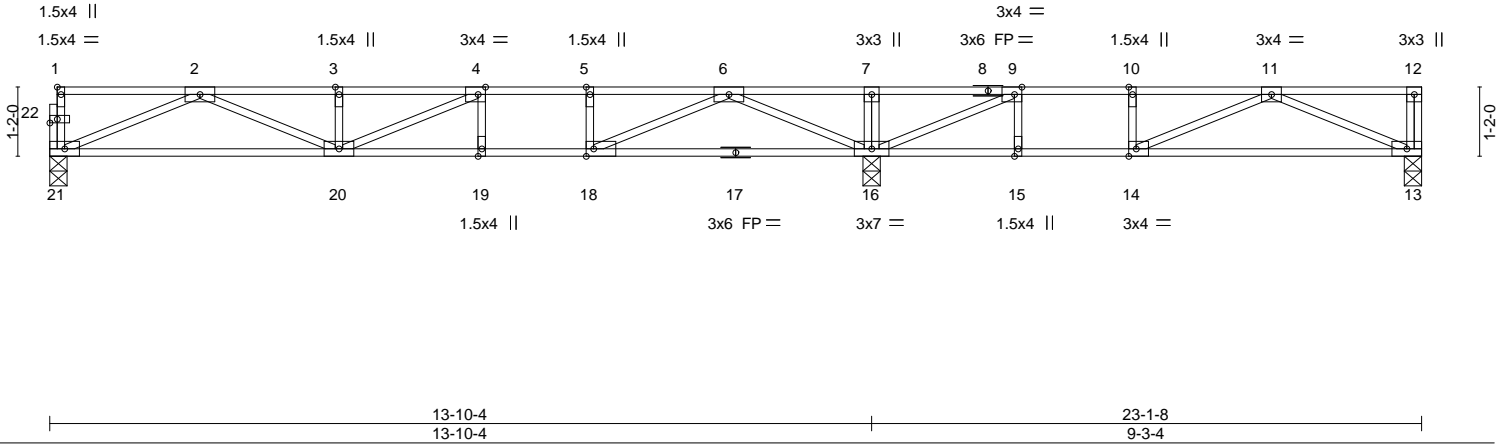
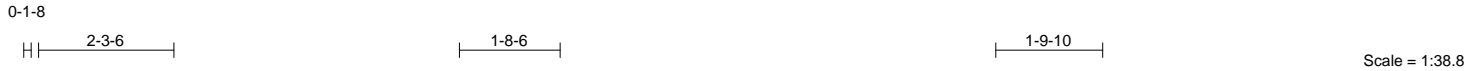


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-1-8,Edge], [9:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.79	Vert(LL) -0.22 19-20 >759 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.86	Vert(CT) -0.28 19-20 >580 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.04 13 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 113 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(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) 21=0-3-8, 13=0-3-8, 16=0-3-8
Max Grav 21=741(LC 10), 13=508(LC 4), 16=1309(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2292/0, 3-4=-2292/0, 4-5=-2327/0, 5-6=-2327/0, 6-7=-73/482, 7-9=-73/482, 9-10=-1063/0, 10-11=-1063/0
BOT CHORD 20-21=0/1451, 19-20=0/2327, 18-19=0/2327, 16-18=0/1387, 15-16=0/1063, 14-15=0/1063, 13-14=0/901
WEBS 2-21=-1575/0, 6-16=-1652/0, 2-20=0/920, 6-18=0/1144, 3-20=-295/0, 5-18=-328/0, 4-20=-328/183, 11-13=-982/0, 9-16=-1202/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 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.



September 2, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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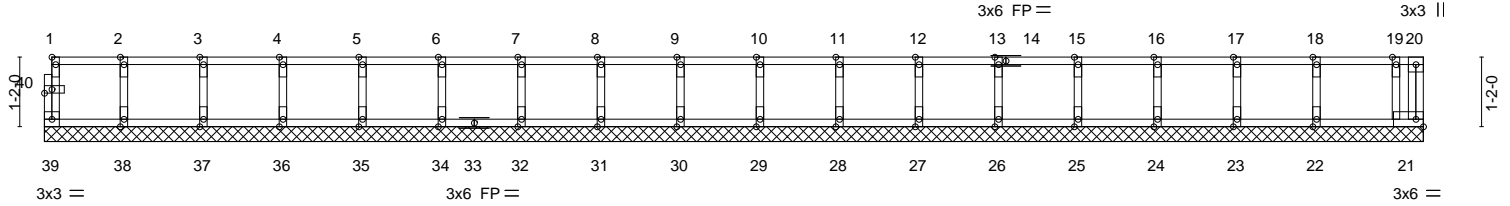
Job	Truss	Truss Type	Qty	Ply	Wilmington Floor
Wilmington Floor	F15E	Floor Supported Gable	1	1	147731387
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:31 2021 Page 1
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0-1-8
H

Scale = 1:38.6



23-1-8
23-1-8

Plate Offsets (X, Y)-- [1:Edge,0-0-12], [40:0-1-8,0-0-12]

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 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	21	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R					Weight: 97 lb	FT = 20%F, 11%E

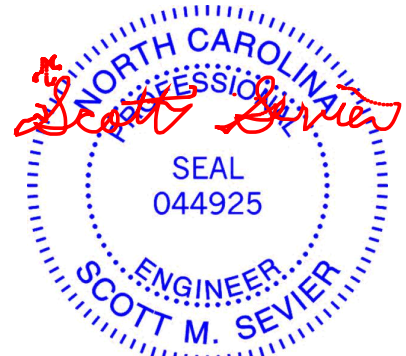
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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 23-1-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.



September 2, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731388
Wilmington Floor	F16	Floor	3	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:32 2021 Page 1
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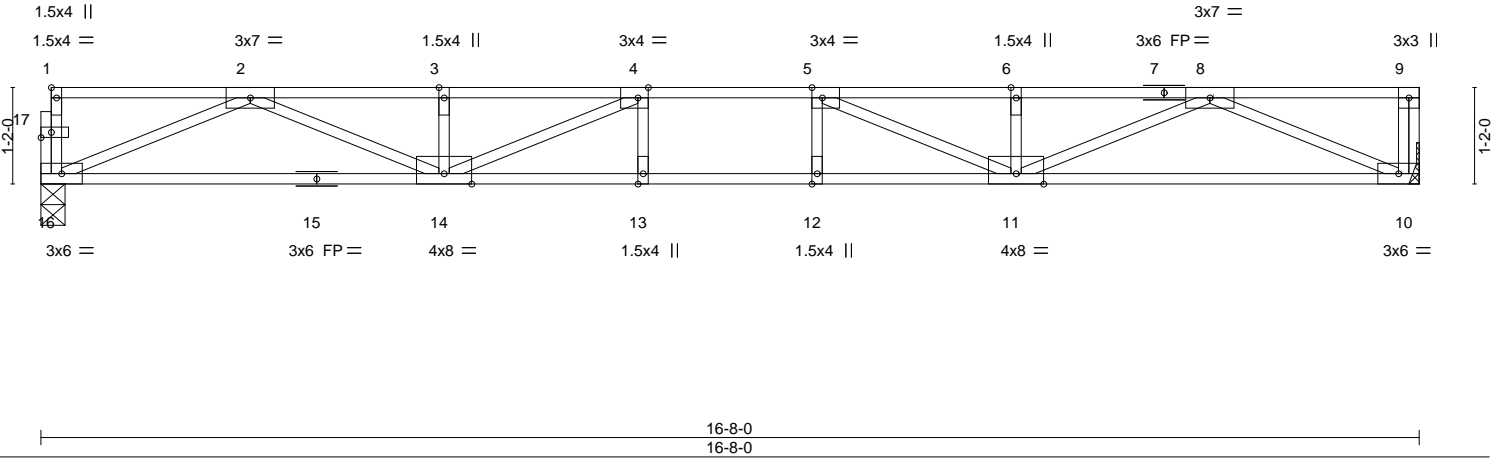


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-1-8,Edge], [5:0-1-8,Edge], [17:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL) -0.25 11-12 >785 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.35 12-13 >568 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.06 10 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 82 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(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) 16=0-3-8, 10=Mechanical
Max Grav 16=897(LC 1), 10=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2971/0, 3-4=-2971/0, 4-5=-3522/0, 5-6=-2970/0, 6-8=-2970/0
BOT CHORD 14-16=0/1807, 13-14=0/3522, 12-13=0/3522, 11-12=0/3522, 10-11=0/1810
WEBS 8-10=-1972/0, 2-16=-1963/0, 8-11=0/1270, 2-14=0/1273, 6-11=-272/8, 3-14=-274/7, 5-11=-870/0, 4-14=-870/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.



September 2, 2021

Job	Truss	Truss Type	Qty	Ply	Wilmington Floor	147731389
Wilmington Floor	F17	Floor	3	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Sep 1 13:49:32 2021 Page 1
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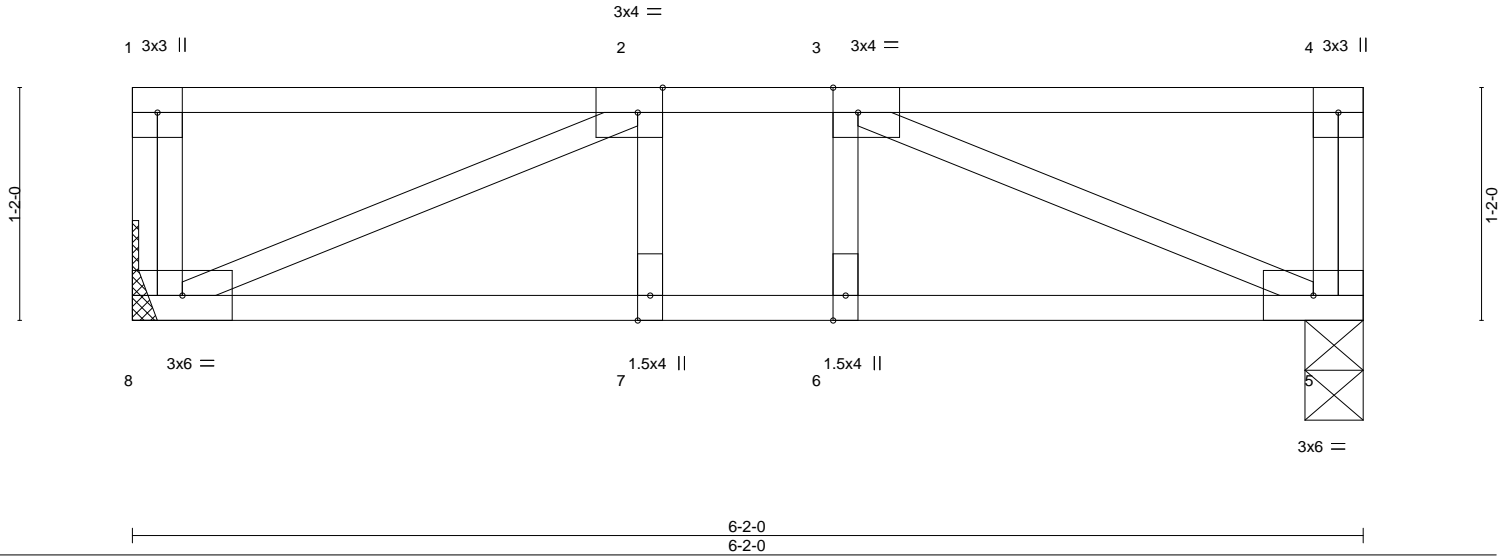


Plate Offsets (X,Y)--	[2:0-1-8,Edge], [3:0-1-8,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP			
TCLL 40.0	Plate Grip DOL 1.00	TC 0.40	Vert(LL) -0.02 7-8 >999 480	MT20	197/144			
TCDL 10.0	Lumber DOL 1.00	BC 0.24	Vert(CT) -0.03 5-6 >999 360					
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 5 n/a n/a					
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
								Weight: 34 lb FT = 20%F, 11%E

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

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=325(LC 1), 5=325(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-497/0
BOT CHORD 7-8=0/497, 6-7=0/497, 5-6=0/497
WEBS 3-5=-539/0, 2-8=-539/0

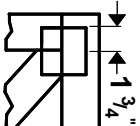
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.



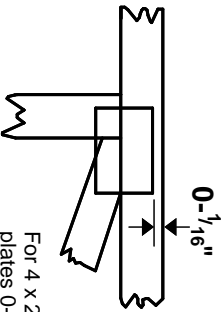
September 2, 2021

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



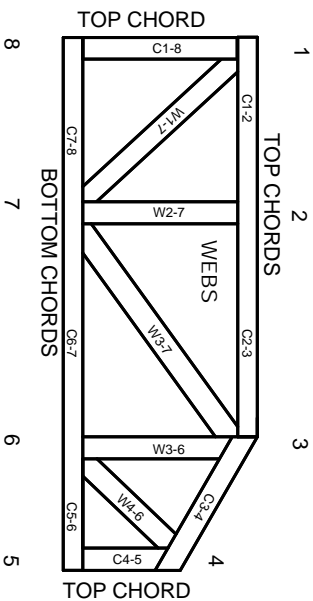
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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: MII-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.