

RE: Drayton Rev 2

Site Information:

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track
 Lot/Block: 00.0110 Subdivision: DRB Raleigh
 Model:

Address: 79 Frost Meadow Way LILLINGTON, NC 27546
 City: Raleigh State: NC

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

Design Code: IRC2021/TPI2014

Wind Code: ASCE 7-16

Wind Speed: 115 mph

Roof Load: 50.0 psf

Mean Roof Height (feet): 25

Design Program: MiTek 20/20 8.8

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Floor Load: N/A psf

Exposure Category: B

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I73101679	1FGE2	5/1/25	35	I73101713	2F10	5/1/25
2	I73101680	1F2	5/1/25	36	I73101714	2F13	5/1/25
3	I73101681	1F2A	5/1/25	37	I73101715	2F12	5/1/25
4	I73101682	1F2L	5/1/25	38	I73101716	2F11	5/1/25
5		1F5	5/1/25	39	I73101717	2F11A	5/1/25
6	I73101684	1F6	5/1/25				
7	I73101685	1F6A	5/1/25				
8	I73101686	1FGE3	5/1/25				
9	I73101687	1FGE4	5/1/25				
10	I73101688	1F7	5/1/25				
11	I73101689	1F8	5/1/25				
12	I73101690	1FGE5	5/1/25				
13	I73101691	1FGE6	5/1/25				
14		1FGE7	5/1/25				
	I73101693	1F9	5/1/25				
16	I73101694	1F10	5/1/25				
17	I73101695	1F11	5/1/25				
18	I73101696	1FGE8	5/1/25				

	I73101702	2FGE1	5/1/25
25	I73101703	2F1	5/1/25
26	I73101704	2F2	5/1/25
27	I73101705	2F3	5/1/25
28	I73101706	2F4	5/1/25
29	I73101707	2F5	5/1/25
30	I73101708	2FGE2	5/1/25
31	I73101709	2F6	5/1/25
32	I73101710	2F7	5/1/25
	I73101711	2F8	5/1/25
34	I73101712	2F9	5/1/25

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

Truss Design Engineer's Name: Galinski, John

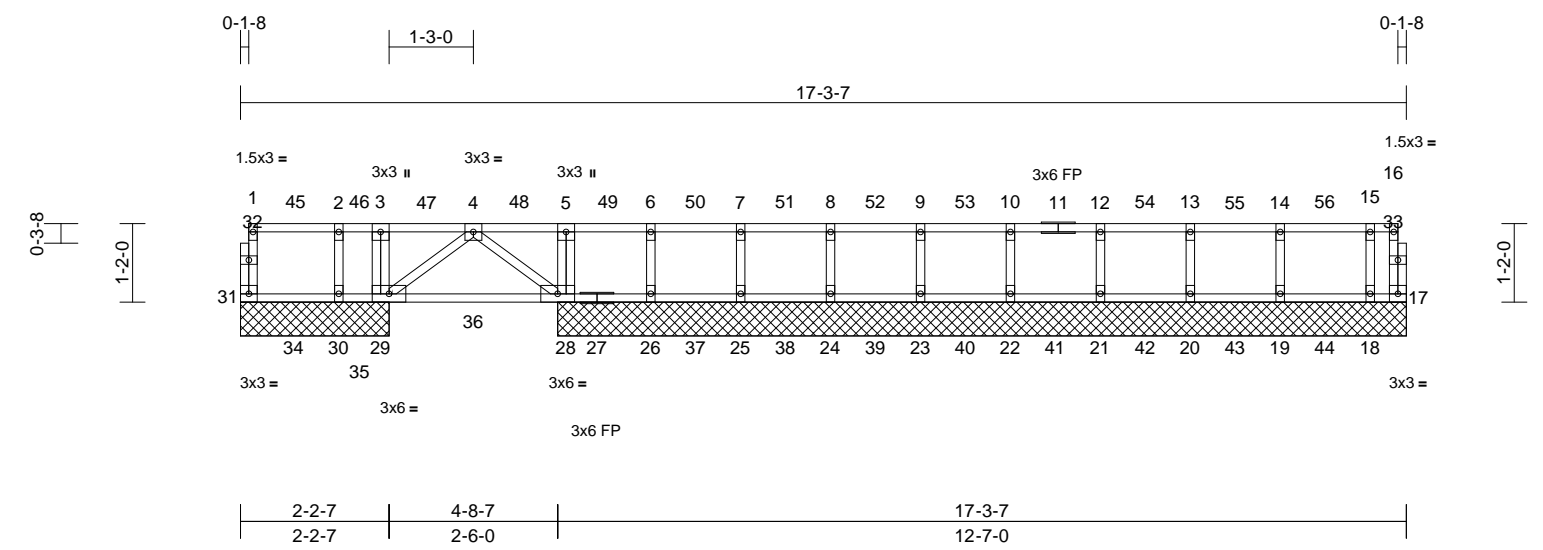
My license renewal date for the state of North Carolina is December 31, 2025.

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



May 1, 2025


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101679
	1FGE2	Floor Supported Gable	1	1	Job Reference (optional)	



Scale = 1:34.2

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.05	28-29	>653	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.05	28-29	>621	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	28	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%F, 12%E

LUMBER		BOT CHORD	30-31=0/16, 29-30=0/16, 28-29=-6/175, 26-28=-7/15, 25-26=-7/15, 24-25=-7/15, 23-24=-7/15, 22-23=-7/15, 21-22=-7/15, 20-21=-7/15, 19-20=-7/15, 18-19=-7/15, 17-18=-7/15
TOP CHORD	2x4 SP No.2(flat)		
BOT CHORD	2x4 SP No.2(flat)		
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		
BRACING		WEBS	3-29=-262/67, 5-28=-269/15, 4-29=-219/8, 4-28=-219/7, 6-26=-268/19, 7-25=-269/13, 8-24=-269/14, 9-23=-269/14, 10-22=-269/14, 12-21=-269/14, 13-20=-268/15, 14-19=-269/14, 15-18=-262/41, 2-30=-262/59
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.		
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 30-31,29-30.		
REACTIONS	(size)	17=12-7-0, 18=12-7-0, 19=12-7-0, 20=12-7-0, 21=12-7-0, 22=12-7-0, 23=12-7-0, 24=12-7-0, 25=12-7-0, 26=12-7-0, 28=12-7-0, 29=2-2-7, 30=2-2-7, 31=2-2-7	
	Max Uplift	17=-112 (LC 20), 18=-34 (LC 19), 19=-6 (LC 47), 20=-6 (LC 17), 21=-6 (LC 45), 22=-6 (LC 44), 23=-5 (LC 46), 24=-6 (LC 45), 25=-4 (LC 44), 26=-58 (LC 40), 29=-43 (LC 38), 30=-146 (LC 40)	
	Max Grav	17=251 (LC 64), 18=275 (LC 50), 19=281 (LC 62), 20=279 (LC 61), 21=280 (LC 60), 22=280 (LC 59), 23=280 (LC 58), 24=279 (LC 57), 25=281 (LC 56), 26=275 (LC 55), 28=296 (LC 54), 29=323 (LC 40), 30=269 (LC 52), 31=264 (LC 51)	
FORCES		(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-31=-260/0, 16-17=-247/111, 1-2=-16/0, 2-3=-16/0, 3-4=-16/0, 4-5=-15/7, 5-6=-15/7, 6-7=-15/7, 7-8=-15/7, 8-9=-15/7, 9-10=-15/7, 10-12=-15/7, 12-13=-15/7, 13-14=-15/7, 14-15=-15/7, 15-16=-15/7		
			NOTES
			1) Unbalanced floor live loads have been considered for this design.
			2) All plates are 1.5x3 () MT20 unless otherwise indicated.
			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) N/A
			6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
			7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
			8) CAUTION, Do not erect truss backwards.
			LOAD CASE(S) Standard





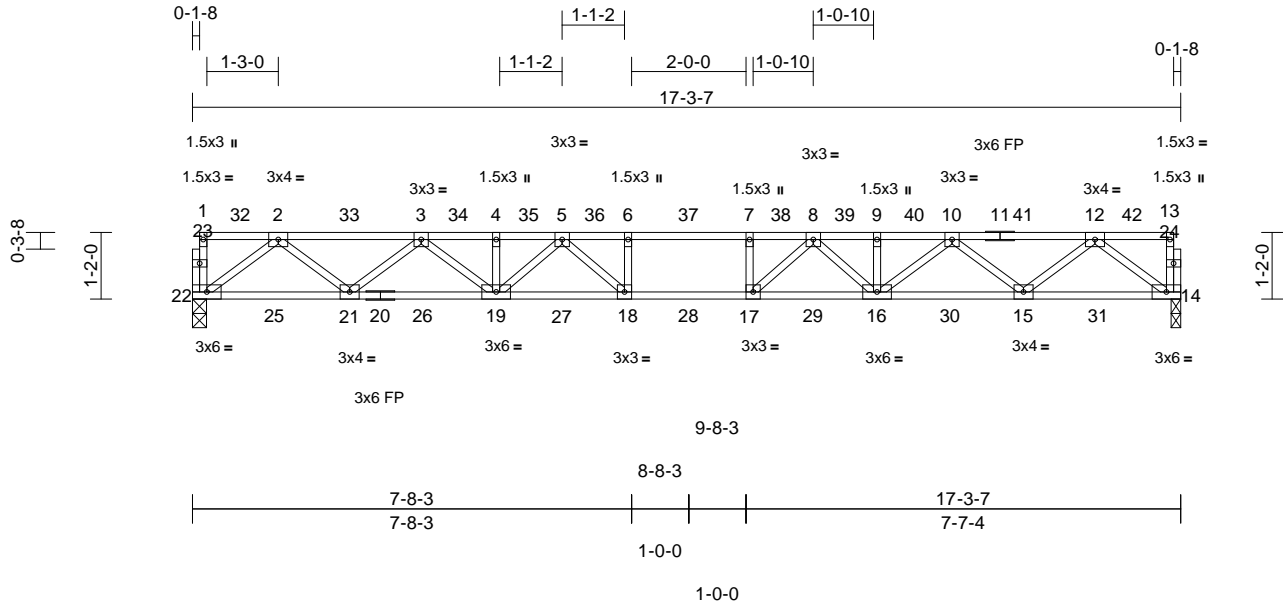
May 1,2025

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101680
	1F2	Floor	8	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.17	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.23	17-18	>877	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 20-14:2x4 SP SS (flat)

WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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

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=0-2-0, 22=0-2-15
Max Grav 14=621 (LC 1), 22=621 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-258/38, 13-14=-258/38, 1-2=-15/2, 2-3=-1307/0, 3-4=-2157/0, 4-5=-2157/0, 5-6=-2523/0, 6-7=-2523/0, 7-8=-2523/0, 8-9=-2156/0, 9-10=-2156/0, 10-12=-1307/0, 12-13=-15/2

BOT CHORD 21-22=0/778, 19-21=0/1813, 18-19=0/2380, 17-18=0/2523, 16-17=0/2374, 15-16=0/1812, 14-15=0/778

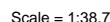
WEBS 6-18=-202/119, 7-17=-208/118, 2-22=-975/0, 2-21=0/688, 3-21=-658/0, 3-19=-30/440, 12-14=-975/0, 12-15=0/688, 10-15=-658/0, 10-16=-30/439, 4-19=-241/74, 9-16=-241/75, 5-19=-322/77, 5-18=-216/402, 8-16=-317/78, 8-17=-212/411

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22, 14.
 - 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



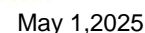
May 1,2025

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LUMBER			4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
TOP CHORD	2x4 SP No.2(flat)		
BOT CHORD	2x4 SP No.2(flat) *Except* 20-14:2x4 SP SS (flat)		5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
REACTIONS		(size)	
		14=0-2-0, 22=0-2-15	
	Max Grav	14=787 (LC 1), 22=803 (LC 1)	
FORCES		(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-22=-259/37, 13-14=-259/37, 1-2=-16/2, 2-3=-1765/0, 3-4=-3067/0, 4-5=-3067/0, 5-6=-3703/0, 6-7=-3703/0, 7-8=-3703/0, 8-9=-2979/0, 9-10=-2979/0, 10-12=-1725/0, 12-13=-15/2		
BOT CHORD	21-22=0/1018, 19-21=0/2491, 18-19=0/3469, 17-18=0/3703, 16-17=0/3377, 15-16=0/2428, 14-15=0/997		
WEBS	6-18=-300/22, 7-17=-358/0, 2-22=-1275/0, 2-21=0/973, 3-21=-944/0, 3-19=0/736, 12-14=-1249/0, 12-15=0/947, 10-15=-915/0, 10-16=0/703, 4-19=-258/58, 9-16=-243/73, 5-19=-563/0, 5-18=-84/524, 8-16=-565/0, 8-17=0/653		
			LOAD CASE(S) Standard
			1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
			Uniform Loads (lb/ft)
			Vert: 14-22=-7, 1-35=-67, 8-35=-133, 8-13=-67

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22, 14.
- 3) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



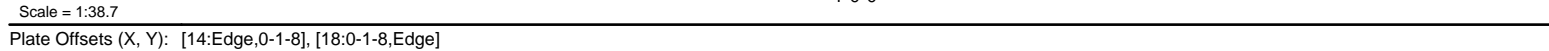
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-141.5 Rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

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TRENCO
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Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:16 Page: 1
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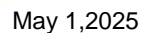


LUMBER		
TOP CHORD	2x4 SP SS(flat)	
BOT CHORD	2x4 SP SS(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS		(size) 14=0-2-0, 22=0-2-15
	Max Grav	14=2459 (LC 1), 22=782 (LC 1)
FORCES		(lb) - Maximum Compression/Maximum Tension
TOP CHORD		1-22=-258/37, 13-14=-273/23, 1-2=-15/2, 2-3=-1715/0, 3-4=-2948/0, 4-5=-2948/0, 5-6=-3842/0, 6-7=-3842/0, 7-8=-3842/0, 8-9=-3996/0, 9-10=-3996/0, 10-12=-3516/0, 12-13=-16/1
BOT CHORD		21-22=0/993, 19-21=0/2403, 18-19=0/3357, 17-18=0/3842, 16-17=0/4028, 15-16=0/3851, 14-15=0/3179
WEBS		6-18=-409/0, 7-17=-3/342, 2-22=-1243/0, 2-21=0/940, 3-21=-895/0, 3-19=0/696, 12-14=-3986/0, 12-15=-86/438, 10-15=-435/134, 10-16=-285/186, 4-19=-273/40, 9-16=-201/112, 5-19=-582/0, 5-18=0/866, 8-16=-72/325, 8-17=-675/0
		4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
		5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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 (lb/ft)
		Vert: 14-22=-7, 1-13=-67
		Concentrated Loads (lb)
		Vert: 12=-2000

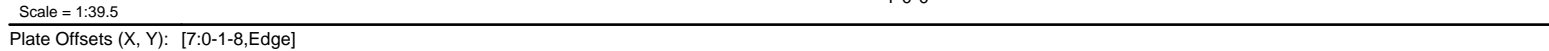
- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened 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 (lb/ft)
Vert: 14-22=-7, 1-13=-67
Concentrated Loads (lb)
Vert: 12=-2000




Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:17 Page: 1
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LUMBER		4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP SS(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
LOAD CASE(S)		Standard

NOTES


- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18, 11.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.





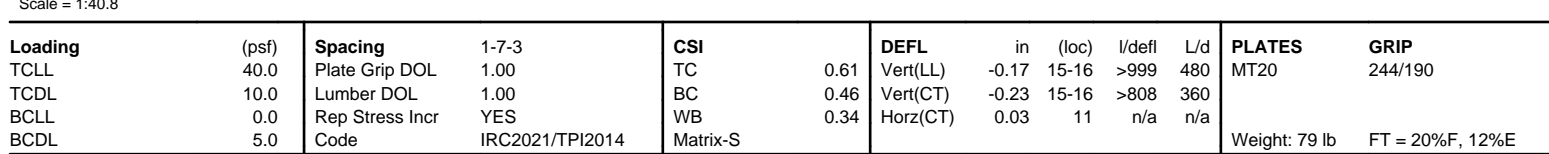
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)



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Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:18 Page: 1
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LOAD CASE(S) Standard

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



May 1, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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TRENCO
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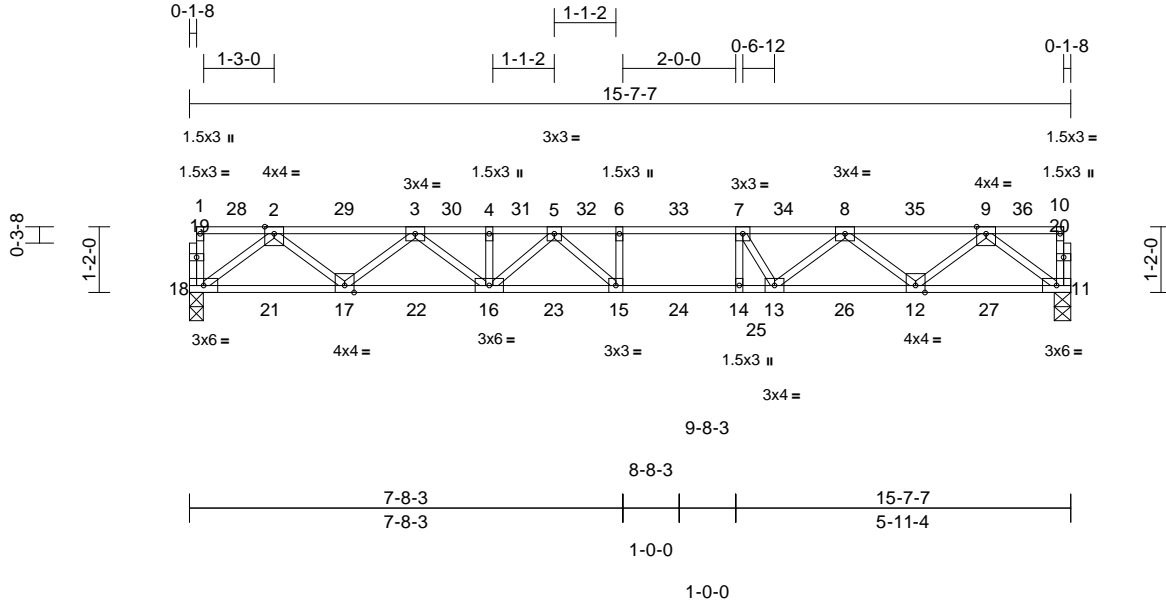
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101685
	1F6A	Floor	2	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Scale = 1:40.8

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.15	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.29	15-16	>637	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 79 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat)
BOT CHORD 2x4 SP SS(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 (size) 11=0-3-8, 18=0-2-15
Max Grav 11=841 (LC 1), 18=836 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-260/36, 10-11=-258/39, 1-2=-16/2, 2-3=-1794/0, 3-4=-3057/0, 4-5=-3057/0, 5-6=-3418/0, 6-7=-3418/0, 7-8=-3065/0, 8-9=-1807/0, 9-10=-15/2
BOT CHORD 17-18=0/1052, 16-17=0/2519, 15-16=0/3369, 14-15=0/3418, 13-14=0/3418, 12-13=0/2515, 11-12=0/1066
WEBS 6-15=-234/83, 7-14=-114/375, 2-18=-1318/0, 2-17=0/966, 3-17=943/0, 3-16=0/687, 9-11=-1336/0, 9-12=0/965, 8-12=-922/0, 8-13=0/782, 7-13=-831/0, 4-16=-269/44, 5-16=-471/0, 5-15=-247/343

NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 18.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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 (lb/ft)
Vert: 11-18=-8, 1-4=-80, 4-34=-144, 10-34=-80



May 1, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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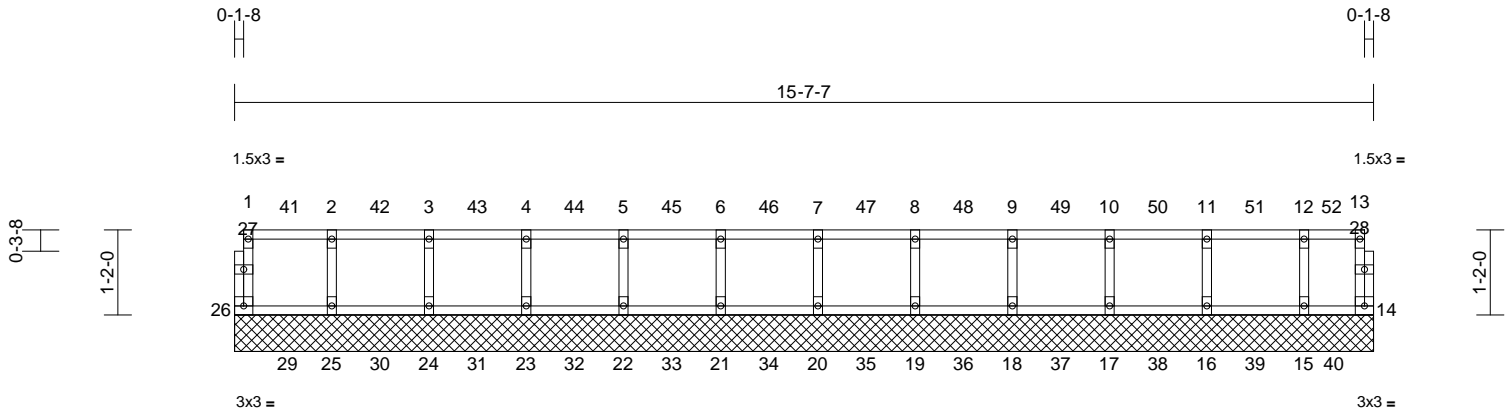
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	I73101686
	1FGE3	Floor Supported Gable	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:21
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Page: 1



Scale = 1:31.6

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	14	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 66 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 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 6-0-0 oc bracing.

REACTIONS

(size)	14=15-7-7, 15=15-7-7, 16=15-7-7, 17=15-7-7, 18=15-7-7, 19=15-7-7, 20=15-7-7, 21=15-7-7, 22=15-7-7, 23=15-7-7, 24=15-7-7, 25=15-7-7, 26=15-7-7
Max Uplift	14=38 (LC 40), 15=13 (LC 39), 17=3 (LC 37), 23=2 (LC 34), 25=2 (LC 32), 26=17 (LC 31)
Max Grav	14=261 (LC 54), 15=279 (LC 53), 16=287 (LC 52), 17=282 (LC 51), 18=302 (LC 50), 19=321 (LC 49), 20=318 (LC 48), 21=321 (LC 47), 22=302 (LC 46), 23=283 (LC 45), 24=286 (LC 44), 25=285 (LC 43), 26=265 (LC 42)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-26=-257/23, 13-14=-251/44, 1-2=-24/5, 2-3=-24/5, 3-4=-24/5, 4-5=-24/5, 5-6=-24/5, 6-7=-24/5, 7-8=-24/5, 8-9=-24/5, 9-10=-24/5, 10-11=-24/5, 11-12=-24/5, 12-13=-24/5
BOT CHORD	25-26=-5/24, 24-25=-5/24, 23-24=-5/24, 22-23=-5/24, 21-22=-5/24, 20-21=-5/24, 19-20=-5/24, 18-19=-5/24, 17-18=-5/24, 16-17=-5/24, 15-16=-5/24, 14-15=-5/24
WEBS	2-25=-271/12, 3-24=-273/10, 4-23=-270/12, 5-22=-289/0, 6-21=-308/0, 7-20=-305/0, 8-19=-308/0, 9-18=-289/0, 10-17=-270/12, 11-16=-273/9, 12-15=-266/21

NOTES

- All plates are 1.5x3 (||) 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.
 - N/A
 - Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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 (lb/ft)
Vert: 14-26=-8, 1-5=-80, 5-9=-105, 9-13=-80



May 1, 2025

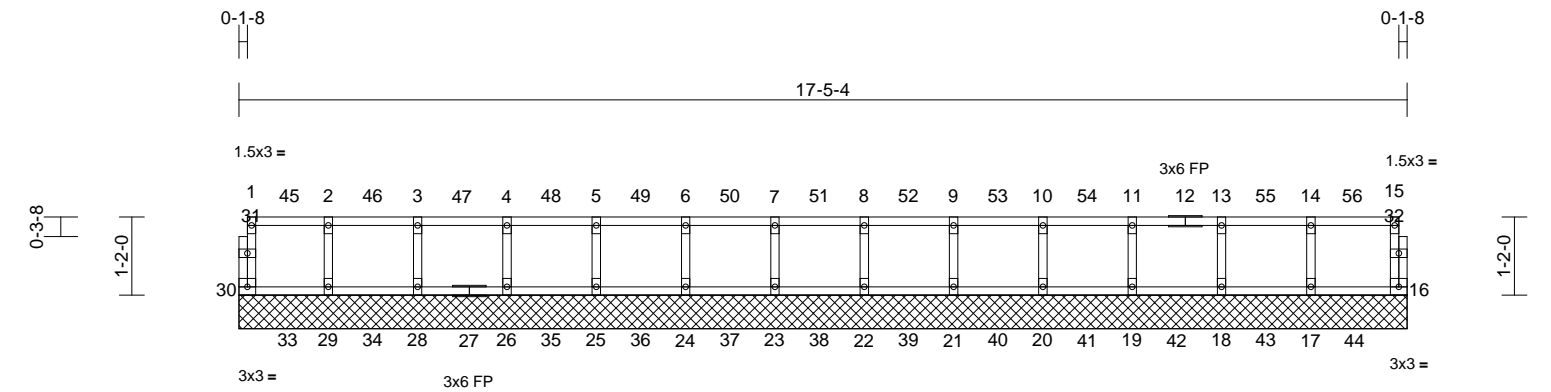
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101687
	1FGE4	Floor Supported Gable	1	1	Job Reference (optional)	



Scale = 1:34.4

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	16	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 73 lb FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP 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 6-0-0 oc bracing.

REACTIONS (size)

16=17-5-4, 17=17-5-4, 18=17-5-4, 19=17-5-4, 20=17-5-4, 21=17-5-4, 22=17-5-4, 23=17-5-4, 24=17-5-4, 25=17-5-4, 26=17-5-4, 28=17-5-4, 29=17-5-4, 30=17-5-4

Max Uplift 16=-13 (LC 43), 17=-6 (LC 14), 18=-6 (LC 44), 19=-6 (LC 43), 20=-6 (LC 42), 21=-6 (LC 41), 22=-6 (LC 40), 23=-6 (LC 39), 24=-6 (LC 38), 25=-8 (LC 34), 26=-6 (LC 36), 28=-5 (LC 35), 29=-6 (LC 6), 30=-17 (LC 33)

Max Grav 16=265 (LC 58), 17=280 (LC 57), 18=280 (LC 56), 19=280 (LC 55), 20=280 (LC 54), 21=280 (LC 53), 22=280 (LC 52), 23=280 (LC 51), 24=280 (LC 50), 25=280 (LC 49), 26=280 (LC 48), 28=280 (LC 47), 29=279 (LC 46), 30=264 (LC 45)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-30=-256/23, 15-16=-257/19, 1-2=-24/4, 2-3=-24/4, 3-4=-24/4, 4-5=-24/4, 5-6=-24/4, 6-7=-24/4, 7-8=-24/4, 8-9=-24/4, 9-10=-24/4, 10-11=-24/4, 11-13=-24/4, 13-14=-24/4, 14-15=-24/4

BOT CHORD 29-30=-4/24, 28-29=-4/24, 26-28=-4/24, 25-26=-4/24, 24-25=-4/24, 23-24=-4/24, 22-23=-4/24, 21-22=-4/24, 20-21=-4/24, 19-20=-4/24, 18-19=-4/24, 17-18=-4/24, 16-17=-4/24

WEBS 2-29=-268/16, 3-28=-269/14, 4-26=-269/14, 5-25=-269/14, 6-24=-269/14, 7-23=-269/14, 8-22=-269/14, 9-21=-269/14, 10-20=-269/14, 11-19=-269/14, 13-18=-269/14, 14-17=-269/16

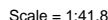
- NOTES**
- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) N/A
 - 6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



May 1,2025

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LUMBER		4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP No.2(flat) *Except* 20-14:2x4 SP SS (flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	LOAD CASE(S) Standard

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=0-2-0, 22=0-2-0
Max Grav	14=626 (LC 1), 22=626 (LC 1)
FORCES	
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-22=-258/38, 13-14=-258/38, 1-2=-15/2, 2-3=-1321/0, 3-4=-2185/0, 4-5=-2185/0, 5-6=-2568/0, 6-7=-2568/0, 7-9=-2568/0, 9-10=-2185/0, 10-11=-2185/0, 11-12=-1321/0, 12-13=-15/2
BOT CHORD	21-22=0/786, 19-21=0/1833, 18-19=0/2416, 17-18=0/2568, 16-17=0/2417, 15-16=0/1833, 14-15=0/786
WEBS	6-18=-203/118, 7-17=-203/118, 2-22=-984/0, 2-21=0/697, 3-21=-666/0, 3-19=-27/449, 12-14=-984/0, 12-15=0/696, 11-15=-667/0, 11-16=-26/449, 4-19=-242/73, 10-16=-242/73, 5-19=-328/74, 5-18=-212/413, 9-16=-310/74, 9-17=-212/413

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22, 14.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



May 1, 2025

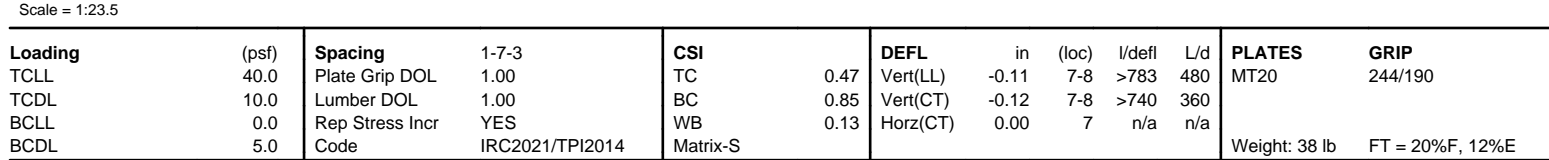


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NOTES

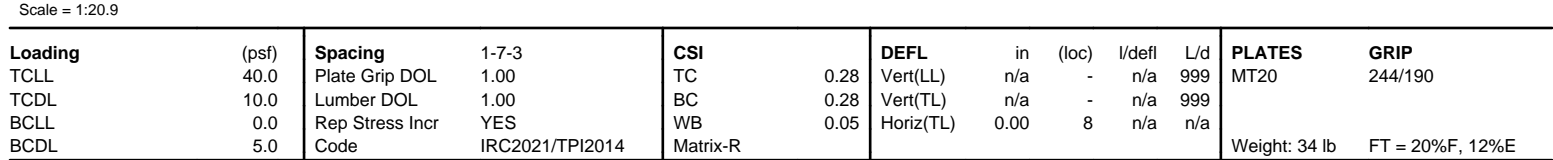
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-00" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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- 6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-14=-258/23, 7-8=-247/61, 1-2=-26/6, 2-3=-26/6, 3-4=-26/6, 4-5=-26/6, 5-6=-26/6, 6-7=-26/6
BOT CHORD	13-14=6/26, 12-13=-6/26, 11-12=-6/26, 10-11=6/26, 9-10=6/26, 8-9=6/26
WEBS	2-13=-272/12, 3-12=-272/10, 4-11=-272/10, 5-10=-273/10, 6-9=-263/26

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- 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" oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 14, 55 lb uplift at joint 8, 1 lb uplift at joint 13 and 26 lb uplift at joint 9.



May 1, 2025

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LUMBER

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

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

	13=11-11-4, 14=11-11-4, 15=11-11-4, 16=11-11-4, 17=11-11-4, 18=11-11-4, 19=11-11-4, 20=11-11-4
Max Uplift	11=-18 (LC 31), 12=-4 (LC 30), 19=-2 (LC 26), 20=-16 (LC 25)
Max Grav	11=265 (LC 42), 12=283 (LC 41), 13=285 (LC 40), 14=285 (LC 39), 15=285 (LC 38), 16=285 (LC 37), 17=285 (LC 36), 18=285 (LC 35), 19=284 (LC 34), 20=266 (LC 33)

Tension

TOP CHORD 1-20= $\frac{257}{12}$, 10-11= $\frac{256}{25}$, 1-2= $\frac{22}{4}$,
2-3= $\frac{22}{4}$, 3-4= $\frac{22}{4}$, 4-5= $\frac{22}{4}$, 5-6= $\frac{22}{4}$,
6-7= $\frac{22}{4}$, 7-8= $\frac{22}{4}$, 8-9= $\frac{22}{4}$, 9-10= $\frac{22}{4}$

BOT CHORD 19-20= $\frac{4}{22}$, 18-19= $\frac{4}{22}$, 17-18= $\frac{4}{22}$,
16-17= $\frac{4}{22}$, 15-16= $\frac{4}{22}$, 14-15= $\frac{4}{22}$,
13-14= $\frac{4}{22}$, 12-13= $\frac{4}{22}$, 11-12= $\frac{4}{22}$

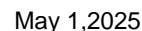
WEBS 2-19= $\frac{271}{12}$, 3-18= $\frac{272}{10}$, 4-17= $\frac{272}{10}$,
5-16= $\frac{272}{10}$, 6-15= $\frac{272}{10}$, 7-14= $\frac{272}{10}$,
8-13= $\frac{272}{10}$, 9-12= $\frac{270}{14}$

- 1) All plates are 1.5x3 (III) MT20 unless otherwise indicated.
- 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) N/A

- 6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEL REFERENCE PAGE MIT-TP1-19-169: 1/2/2023 BEFORE USE.

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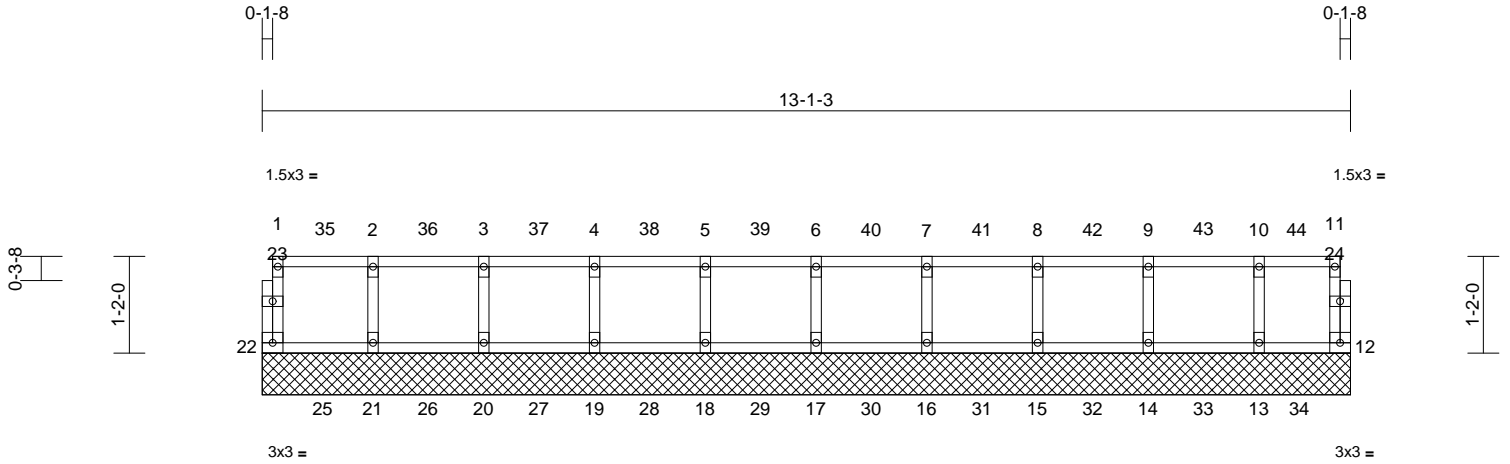
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101692
	1FGE7	Floor Supported Gable	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:27.7

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	12	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 56 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 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 6'-0-0 oc bracing.

REACTIONS

(size) 12=13-1-3, 13=13-1-3, 14=13-1-3, 15=13-1-3, 16=13-1-3, 17=13-1-3, 18=13-1-3, 19=13-1-3, 20=13-1-3, 21=13-1-3, 22=13-1-3
Max Uplift 12=28 (LC 34), 13=8 (LC 33), 21=2 (LC 28), 22=17 (LC 27)
Max Grav 12=263 (LC 46), 13=281 (LC 45), 14=286 (LC 44), 15=285 (LC 43), 16=285 (LC 42), 17=285 (LC 41), 18=285 (LC 40), 19=285 (LC 39), 20=285 (LC 38), 21=285 (LC 37), 22=265 (LC 36)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-257/22, 11-12=-254/34, 1-2=-23/5, 2-3=-23/5, 3-4=-23/5, 4-5=-23/5, 5-6=-23/5, 6-7=-23/5, 7-8=-23/5, 8-9=-23/5, 9-10=-23/5, 10-11=-23/5
BOT CHORD 21-22=-5/23, 20-21=-5/23, 19-20=-5/23, 18-19=-5/23, 17-18=-5/23, 16-17=-5/23, 15-16=-5/23, 14-15=-5/23, 13-14=-5/23, 12-13=-5/23
WEBS 2-21=-271/12, 3-20=-272/10, 4-19=-272/10, 5-18=-272/10, 6-17=-272/10, 7-16=-272/10, 8-15=-272/10, 9-14=-273/10, 10-13=-268/17

NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- 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) N/A

- 6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10'-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



May 1, 2025

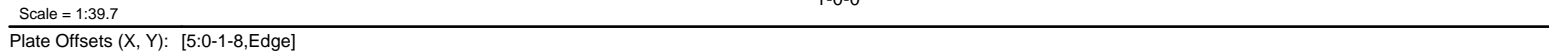
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:19 Page: 1
ID:UWAUBuVBdulXLjjiNKnotrBzoUZe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP 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	
(size)	9=0-2-15, 15=0-2-0
Max Grav	9=560 (LC 1), 15=560 (LC 1)
FORCES	
(lb) -	Maximum Compression/Maximum Tension
TOP CHORD	1-15=-259/36, 8-9=-259/37, 1-2=-15/2, 2-3=-1102/0, 3-4=-1707/0, 4-5=-1707/0, 5-6=-1664/0, 6-7=-1106/0, 7-8=-16/2
BOT CHORD	14-15=0/693, 13-14=0/1491, 12-13=0/1707, 11-12=0/1707, 10-11=0/1493, 9-10=0/692
WEBS	4-13=-207/83, 5-12=-342/252, 2-15=-867/0, 2-14=0/533, 3-14=-506/0, 3-13=-140/429, 7-9=-866/0, 7-10=0/539, 6-10=-504/0, 6-11=-97/322, 5-11=-338/413

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15, 9.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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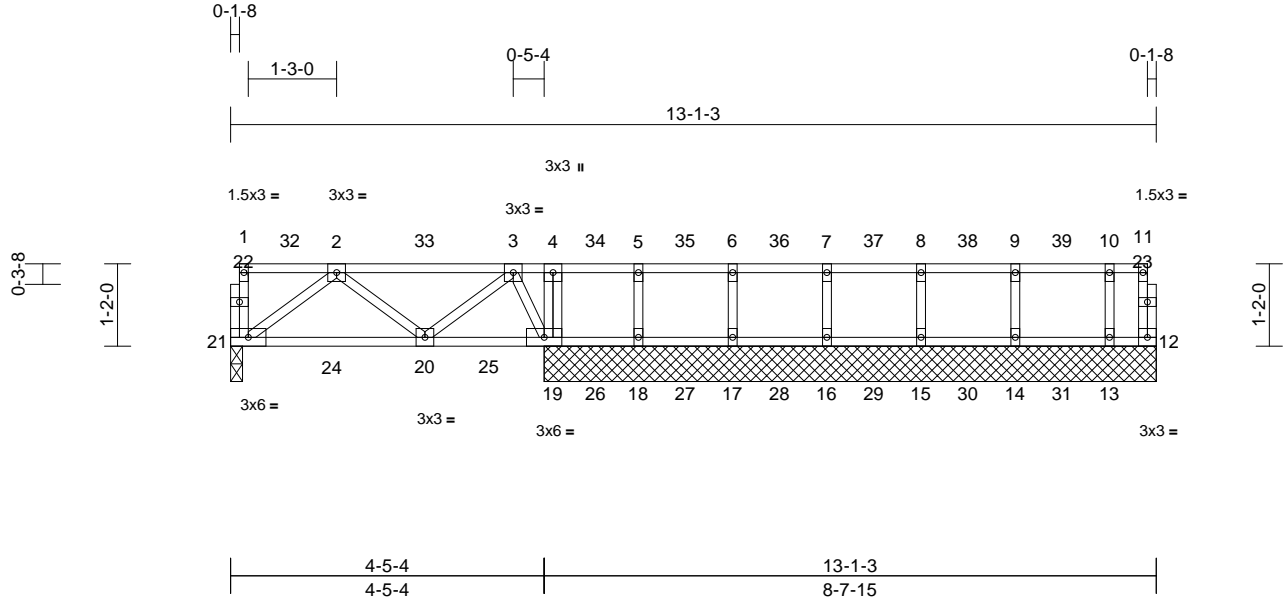


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101694
	1F10	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:20
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Page: 1



Scale = 1:32.6

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.08	20-21	>679	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.08	20-21	>639	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 20-21,19-20.

REACTIONS (size) 12=8-7-15, 13=8-7-15, 14=8-7-15, 15=8-7-15, 16=8-7-15, 17=8-7-15, 18=8-7-15, 19=8-7-15, 21=0-2-0
Max Uplift 12=-76 (LC 16), 13=-20 (LC 15), 15=-1 (LC 34), 18=-31 (LC 31)
Max Grav 12=254 (LC 48), 13=280 (LC 38), 14=286 (LC 46), 15=285 (LC 45), 16=285 (LC 44), 17=285 (LC 43), 18=284 (LC 42), 19=330 (LC 31), 21=305 (LC 39)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-259/34, 11-12=-251/77, 1-2=-16/2, 2-3=-308/0, 3-4=-15/5, 4-5=-15/5, 5-6=-15/5, 6-7=-15/5, 7-8=-15/5, 8-9=-15/5, 9-10=-15/5, 10-11=-15/5
BOT CHORD 20-21=0/277, 19-20=0/189, 18-19=-5/15, 17-18=-5/15, 16-17=-5/15, 15-16=-5/15, 14-15=-5/15, 13-14=-5/15, 12-13=-5/15
WEBS 4-19=-251/155, 2-21=-347/0, 2-20=-119/162, 3-20=-19/262, 3-19=-397/0, 5-18=-272/12, 6-17=-272/10, 7-16=-272/10, 8-15=-272/10, 9-14=-273/10, 10-13=-264/29

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
- N/A

- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



May 1,2025

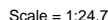
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:20 Page: 1
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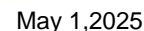


LUMBER

BRACING

NOTES

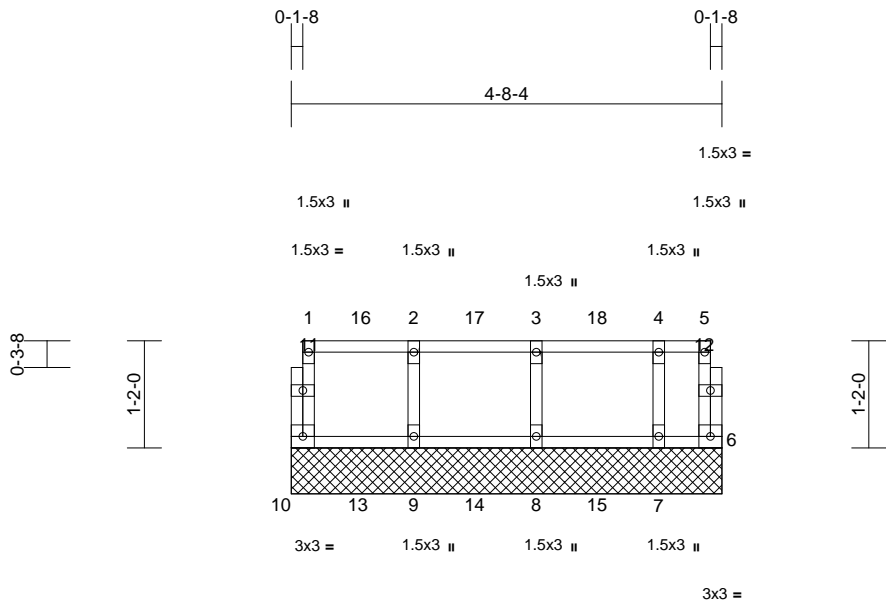
- LOAD CASE(S) Standard



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	I73101696
	1FGE8	Floor Supported Gable	1	1	Job Reference (optional)	



Scale = 1:25.1												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 23 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat)

WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals.

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

REACTIONS (size) 6=4-8-4, 7=4-8-4, 8=4-8-4, 9=4-8-4, 10=4-8-4

Max Uplift 6=-67 (LC 16), 7=-28 (LC 14), 10=-17 (LC 15)

Max Grav 6=257 (LC 22), 7=276 (LC 17), 8=286 (LC 20), 9=285 (LC 19), 10=265 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-10=-258/22, 5-6=-244/74, 1-2=-28/5, 2-3=-28/5, 3-4=-28/5, 4-5=-28/5

BOT CHORD 9-10=-5/28, 8-9=-5/28, 7-8=-5/28, 6-7=-5/28

WEBS 2-9=-271/7, 3-8=-273/1, 4-7=-260/23

- NOTES**
- 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.
 - N/A
- 5) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



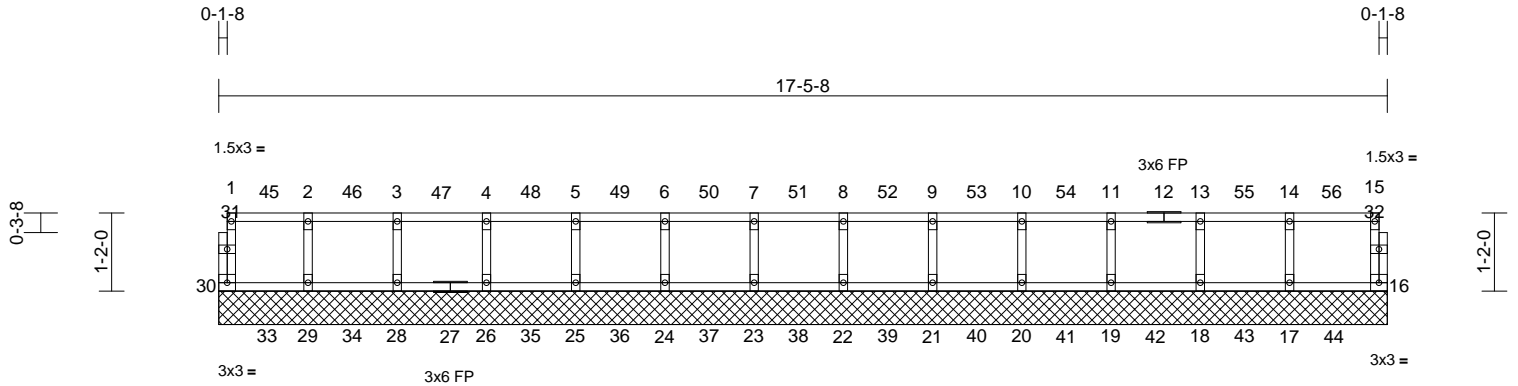
May 1,2025

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101702
	2FGE1	Floor Supported Gable	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:34.4

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	16	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							
										Weight: 73 lb	FT = 20%F, 12%E

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

WEBS	
2-29=-271/12, 3-28=-272/10, 4-26=-272/10,	
5-25=-272/10, 6-24=-272/10, 7-23=-272/10,	
8-22=-272/10, 9-21=-272/10, 10-20=-272/10,	
11-19=-272/10, 13-18=-272/10,	
14-17=-273/12	

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

- NOTES**
- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - 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) N/A
 - 6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

REACTIONS (size)	
16=17-5-8, 17=17-5-8, 18=17-5-8,	
19=17-5-8, 20=17-5-8, 21=17-5-8,	
22=17-5-8, 23=17-5-8, 24=17-5-8,	
25=17-5-8, 26=17-5-8, 28=17-5-8,	
29=17-5-8, 30=17-5-8	
Max Uplift	16=-10 (LC 43), 18=-2 (LC 44),
	25=-2 (LC 34), 29=-1 (LC 6),
	30=-15 (LC 33)
Max Grav	16=267 (LC 58), 17=286 (LC 57),
	18=285 (LC 56), 19=285 (LC 55),
	20=285 (LC 54), 21=285 (LC 53),
	22=285 (LC 52), 23=285 (LC 51),
	24=285 (LC 50), 25=285 (LC 49),
	26=285 (LC 48), 28=285 (LC 47),
	29=284 (LC 46), 30=266 (LC 45)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-30=-257/21, 15-16=-259/17, 1-2=-25/3,
	2-3=-25/3, 3-4=-25/3, 4-5=-25/3, 5-6=-25/3,
	6-7=-25/3, 7-8=-25/3, 8-9=-25/3, 9-10=-25/3,
	10-11=-25/3, 11-13=-25/3, 13-14=-25/3,
	14-15=-25/3
BOT CHORD	29-30=-3/25, 28-29=-3/25, 26-28=-3/25,
	25-26=-3/25, 24-25=-3/25, 23-24=-3/25,
	22-23=-3/25, 21-22=-3/25, 20-21=-3/25,
	19-20=-3/25, 18-19=-3/25, 17-18=-3/25,
	16-17=-3/25

LOAD CASE(S) Standard

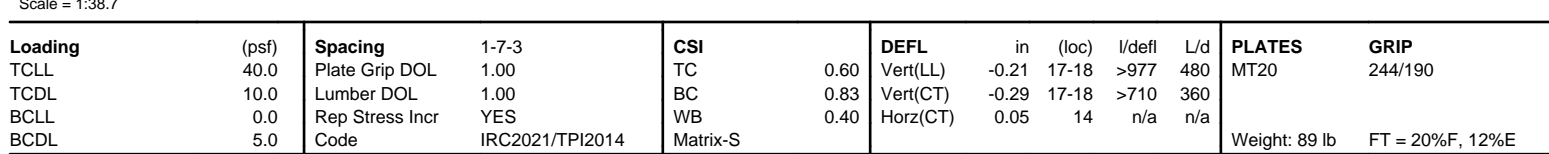


May 1, 2025

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LOAD CASE(S) Standard

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

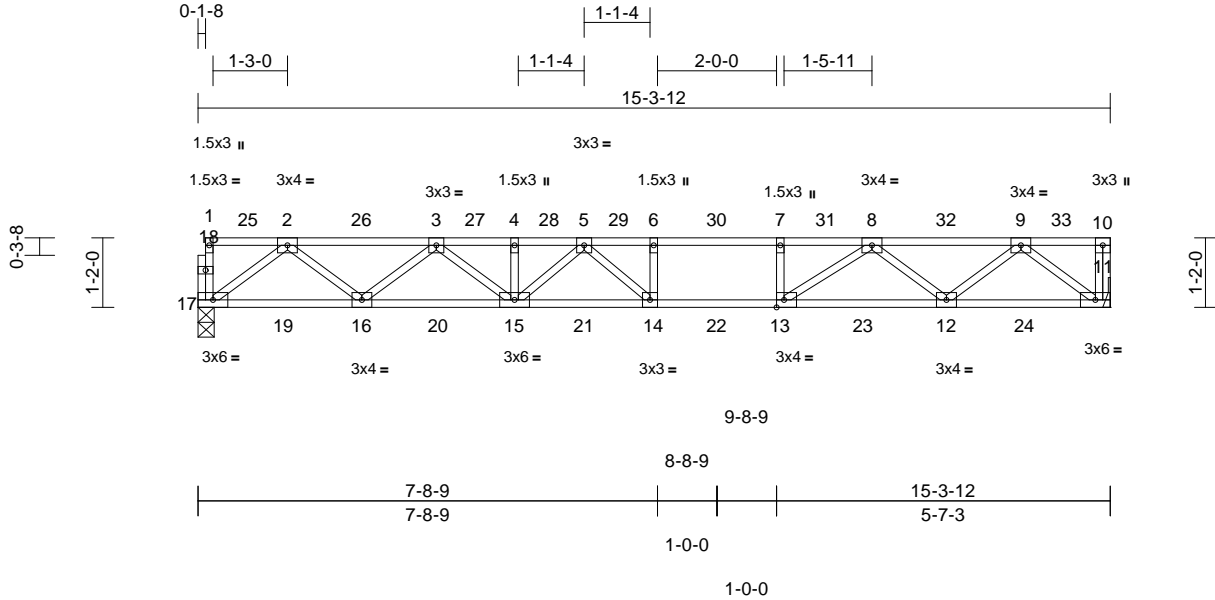
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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	I73101704
	2F2	Floor	3	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:23
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Page: 1



Scale = 1:38.7

Plate Offsets (X, Y): [13:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.18	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.24	14-15	>749	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP SS(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 (size) 11= Mechanical, 17=0-3-4
Max Grav 11=662 (LC 1), 17=657 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-17=-259/37, 10-11=-258/35, 1-2=-16/2,
2-3=-1347/0, 3-4=-2166/0, 4-5=-2166/0,
5-6=-2309/0, 6-7=-2309/0, 7-8=-2309/0,
8-9=-1336/0, 9-10=0/0
BOT CHORD 16-17=0/818, 15-16=0/1857, 14-15=0/2326,
13-14=0/2309, 12-13=0/1853, 11-12=0/819
WEBS 6-14=-160/158, 7-13=-253/49, 2-17=-1024/0,
2-16=0/689, 3-16=-664/0, 3-15=-48/397,
9-11=-1027/0, 9-12=0/673, 8-12=-674/0,
4-15=-237/77, 5-15=-275/118, 5-14=-311/277,
8-13=-44/677

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



May 1,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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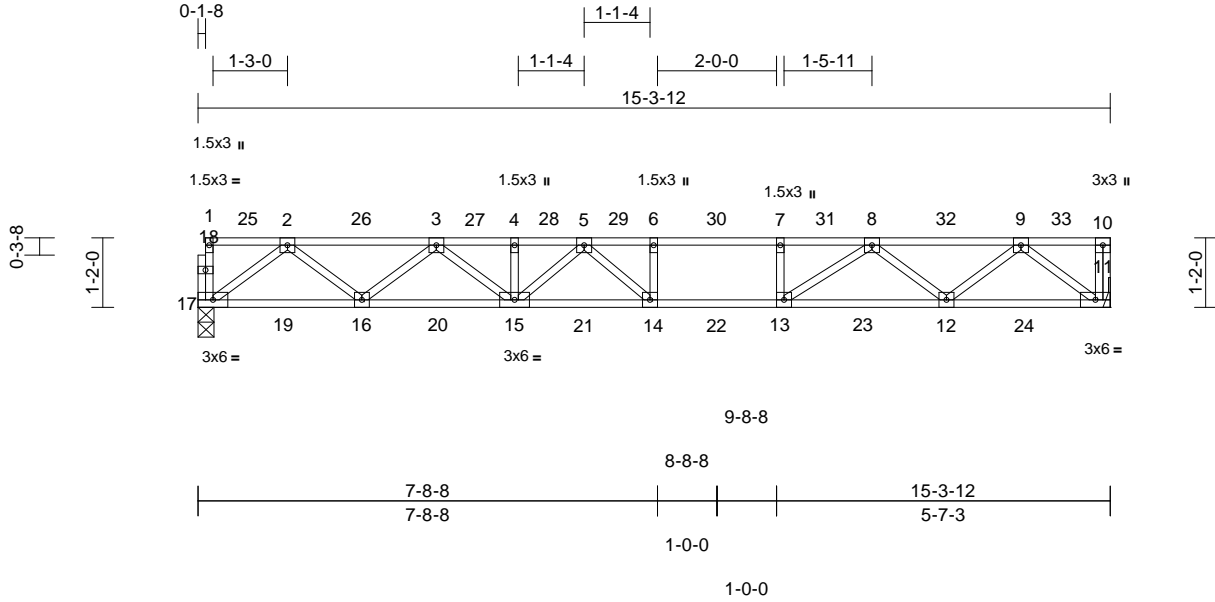
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101705
	2F3	Floor	4	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:24
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Page: 1



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.17	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.22	14-15	>812	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 78 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP SS(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 (size) 11= Mechanical, 17=0-3-3
Max Grav 11=552 (LC 1), 17=548 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-258/38, 10-11=-258/36, 1-2=-15/2, 2-3=-1123/0, 3-4=-1806/0, 4-5=-1806/0, 5-6=-1925/0, 6-7=-1925/0, 7-8=-1925/0, 8-9=-1113/0, 9-10=0/0
BOT CHORD 16-17=0/682, 15-16=0/1548, 14-15=0/1939, 13-14=0/1925, 12-13=0/1545, 11-12=0/683
WEBS 6-14=-160/158, 7-13=-220/58, 2-17=-854/0, 2-16=0/574, 3-16=-554/0, 3-15=-67/378, 9-11=-856/0, 9-12=0/561, 8-12=-562/0, 4-15=-236/78, 8-13=-70/564, 5-15=-266/126, 5-14=-310/255

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



May 1, 2025

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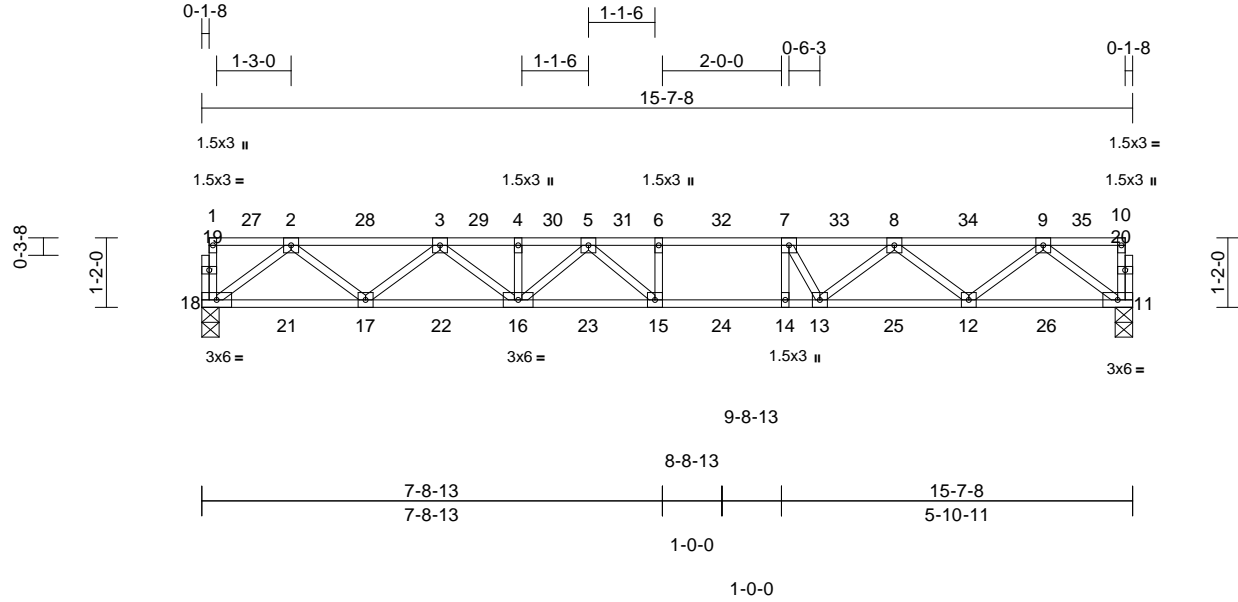
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101706
	2F4	Floor	4	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.16	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.23	15-16	>810	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 79 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP SS(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 (size) 11=0-3-8, 18=0-3-8

Max Grav 11=571 (LC 1), 18=613 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-18=-262/34, 10-11=-257/40, 1-2=-16/2, 2-3=-1242/0, 3-4=-1970/0, 4-5=-1970/0, 5-6=-2098/0, 6-7=-2098/0, 7-8=-1909/0, 8-9=-1180/0, 9-10=-15/2
BOT CHORD 17-18=0/762, 16-17=0/1706, 15-16=0/2103, 14-15=0/2098, 13-14=0/2098, 12-13=0/1618, 11-12=0/716
WEBS 6-15=-163/136, 7-14=-202/325, 2-18=-954/0, 2-17=0/625, 3-17=-604/0, 3-16=-71/376, 9-11=-897/0, 9-12=0/604, 8-12=-570/0, 8-13=-13/432, 7-13=-519/226, 4-16=-242/73, 5-15=-308/229, 5-16=-253/140

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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 (lb/ft)
Vert: 11-18=-7, 1-4=-79, 4-10=-67



May 1, 2025

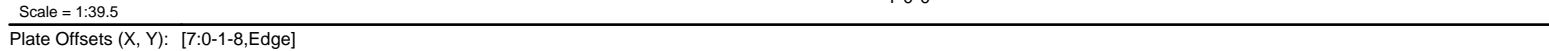
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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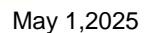
818 Soundside Road
Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:25 Page: 1
ID:4LVn?yG_PsrCw2rZLeA73syFloZ-RfC?PsB70Hq3NSgPqnL8w3ulTxBGKwCDoi7J4zJC?f



LUMBER		5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP SS(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	Uniform Loads (lb/ft) Vert: 11-18=-8, 1-4=-83, 4-10=-80
REACTIONS	(size) 11=0-2-2, 18=0-3-8 Max Grav 11=669 (LC 1), 18=680 (LC 1)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-18=-260/36, 10-11=-258/39, 1-2=-16/2, 2-3=-1392/0, 3-4=-2236/0, 4-5=-2236/0, 5-6=-2408/0, 6-7=-2408/0, 7-8=-2221/0, 8-9=-1377/0, 9-10=-15/2	
BOT CHORD	17-18=0/846, 16-17=0/1919, 15-16=0/2403, 14-15=0/2408, 13-14=0/2408, 12-13=0/1884, 11-12=0/838	
WEBS	6-15=-170/128, 7-14=-256/360, 2-18=-1059/0, 2-17=0/711, 3-17=-685/0, 3-16=-46/406, 9-11=-1050/0, 9-12=0/701, 8-12=-661/0, 8-13=-14/509, 7-13=-628/276, 4-16=-242/73, 5-16=-273/120, 5-15=-289/280	

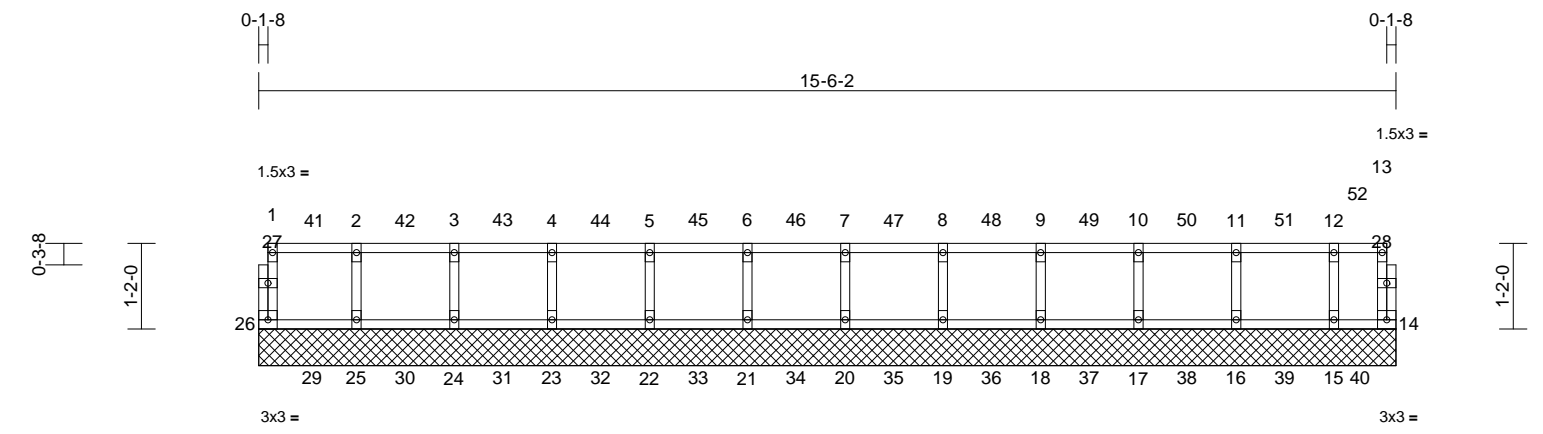
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- 3) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 4) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101708
	2FGE2	Floor Supported Gable	1	1	Job Reference (optional)	



Scale = 1:31.4												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 66 lb	FT = 20%F, 12%E

- LUMBER**
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 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 6-0-0 oc bracing.
- REACTIONS** (size)
14=15-6-2, 15=15-6-2, 16=15-6-2, 17=15-6-2, 18=15-6-2, 19=15-6-2, 20=15-6-2, 21=15-6-2, 22=15-6-2, 23=15-6-2, 24=15-6-2, 25=15-6-2, 26=15-6-2
Max Uplift 14=48 (LC 40), 15=19 (LC 30), 17=1 (LC 37), 25=1 (LC 32), 26=17 (LC 31)
Max Grav 14=259 (LC 54), 15=278 (LC 53), 16=286 (LC 52), 17=285 (LC 51), 18=285 (LC 50), 19=285 (LC 49), 20=285 (LC 48), 21=285 (LC 47), 22=285 (LC 46), 23=285 (LC 45), 24=285 (LC 44), 25=285 (LC 43), 26=265 (LC 42)
- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
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) N/A
6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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

- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-257/23, 13-14=-249/54, 1-2=-25/6, 2-3=-25/6, 3-4=-25/6, 4-5=-25/6, 5-6=-25/6, 6-7=-25/6, 7-8=-25/6, 8-9=-25/6, 9-10=-25/6, 10-11=-25/6, 11-12=-25/6, 12-13=-25/6
BOT CHORD 25-26=-6/25, 24-25=-6/25, 23-24=-6/25, 22-23=-6/25, 21-22=-6/25, 20-21=-6/25, 19-20=-6/25, 18-19=-6/25, 17-18=-6/25, 16-17=-6/25, 15-16=-6/25, 14-15=-6/25
WEBS 2-25=-272/12, 3-24=-272/10, 4-23=-272/10, 5-22=-272/10, 6-21=-272/10, 7-20=-272/10, 8-19=-272/10, 9-18=-272/10, 10-17=-272/10, 11-16=-273/10, 12-15=-264/25

NOTES



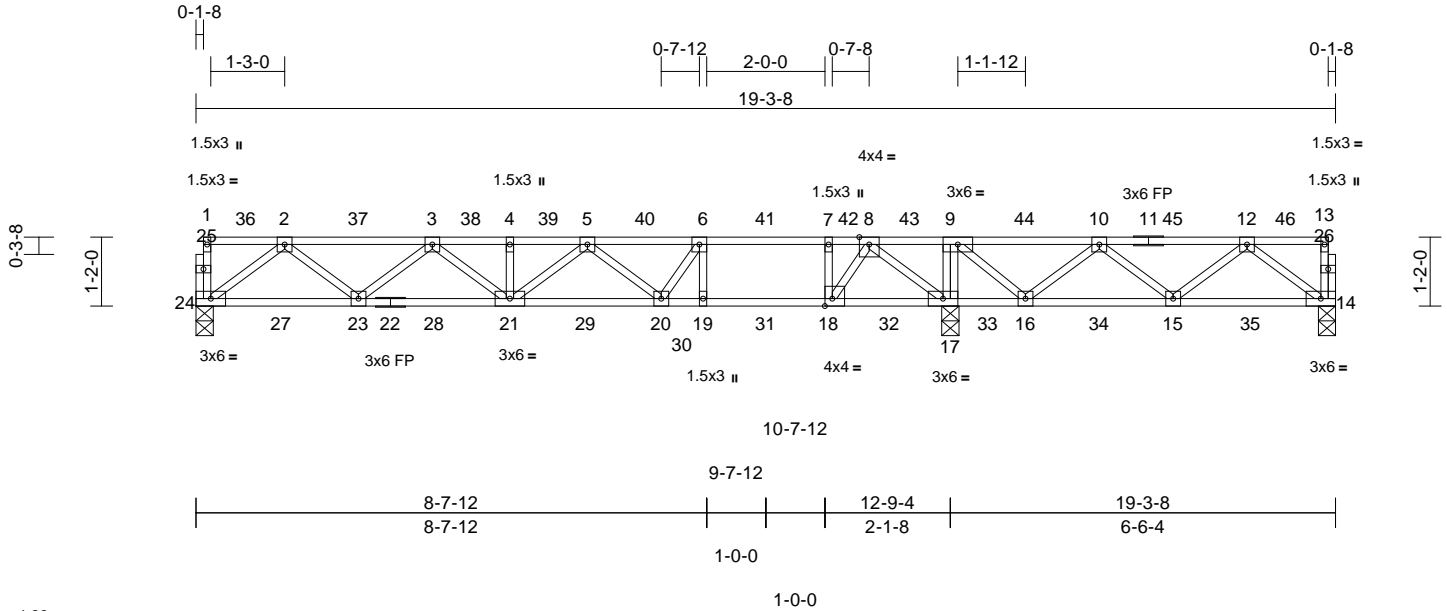
May 1,2025

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101709
	2F6	Floor	2	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:25
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Page: 1



Scale = 1:39
Plate Offsets (X, Y): [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.19	19-20	>812	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.26	19-20	>592	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 100 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 22-14:2x4 SP SS (flat)
WEBS 2x4 SP No.3(flat)
OTHERS 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, Except: 6-0-0 oc bracing: 16-17,15-16.
REACTIONS (size) 14=0-3-8, 17=0-3-8, 24=0-3-8
Max Grav 14=325 (LC 54), 17=853 (LC 1), 24=552 (LC 3)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-259/37, 13-14=-259/41, 1-2=-16/2, 2-3=-1087/0, 3-4=-1622/0, 4-5=-1622/0, 5-6=-1555/0, 6-7=-1234/0, 7-8=-1234/0, 8-9=-184/306, 9-10=-274/174, 10-12=-453/14, 12-13=-16/2
BOT CHORD 23-24=0/681, 21-23=0/1462, 20-21=0/1742, 19-20=0/1234, 18-19=0/1234, 17-18=0/722, 16-17=-306/184, 15-16=-70/464, 14-15=0/329
WEBS 6-19=-455/0, 7-18=-530/0, 9-17=-430/0, 2-24=-852/0, 2-23=0/529, 3-23=-488/0, 3-21=-120/316, 4-21=-233/79, 5-21=-337/123, 5-20=-297/58, 6-20=0/646, 8-17=-917/0, 8-18=0/960, 12-14=-412/0, 12-15=-57/253, 10-15=-139/175, 10-16=-317/2, 9-16=0/460

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 (=) MT20 unless otherwise indicated.

- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
LOAD CASE(S) Standard



May 1,2025

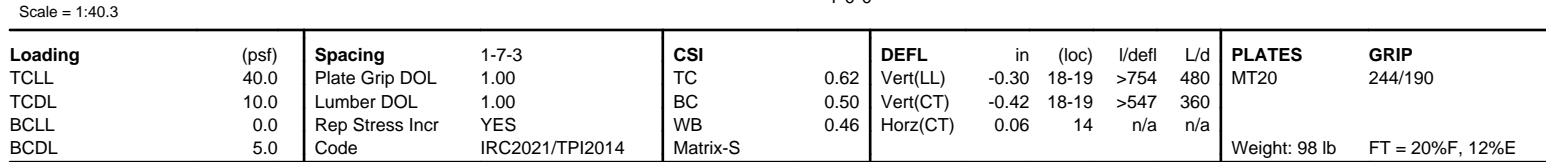
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:25 Page: 1
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NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



May 1, 2025

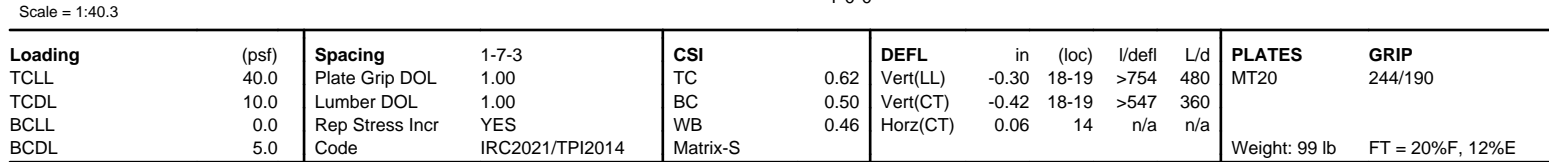
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

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Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:26 Page: 1
ID:4LVn?yG_PsrCw2rZLeA73syFloZ-RfC?PsB70Hq3NSgPqnL8w3ulTxbGKwCDoi7J4zJC?f



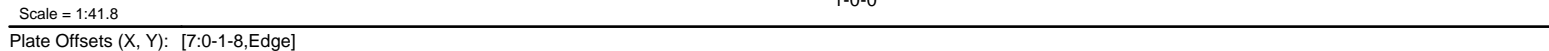
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ID:Jo0IKdAZIpqLzpE0tz1FIAYFloH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC7f



LUMBER		4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP No.2(flat) *Except* 22-14:2x4 SP SS (flat)	
WEBS	2x4 SP No.3(flat)	5) CAUTION, Do not erect truss backwards.
OTHERS	2x4 SP No.3(flat)	LOAD CASE(S) Standard

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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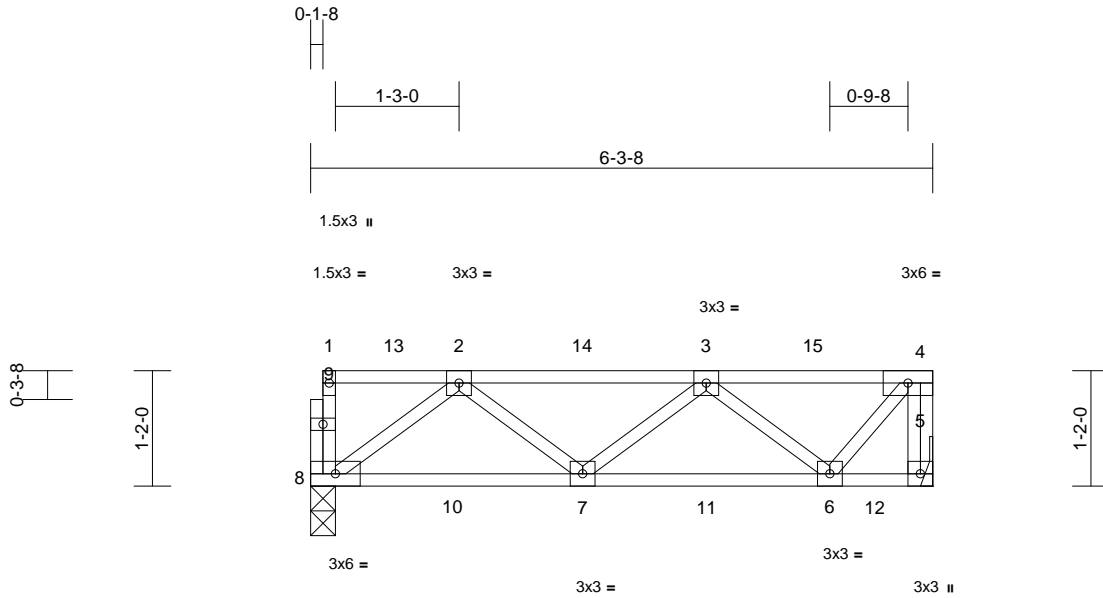


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	I73101713
	2F10	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:27
ID:Jo0IKDAzIPqLzpE0tz1FIAYFloH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.3

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.08	7-8	>868	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.09	7-8	>817	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 35 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 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 (size) 5= Mechanical, 8=0-3-0
Max Grav 5=325 (LC 7), 8=324 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-259/41, 4-5=-324/0, 1-2=-16/2,
2-3=-461/0, 3-4=-261/0
BOT CHORD 7-8=0/331, 6-7=0/438, 5-6=0/0
WEBS 2-8=-415/0, 2-7=-53/259, 3-7=-140/171,
3-6=-320/0, 4-6=0/396

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



May 1, 2025

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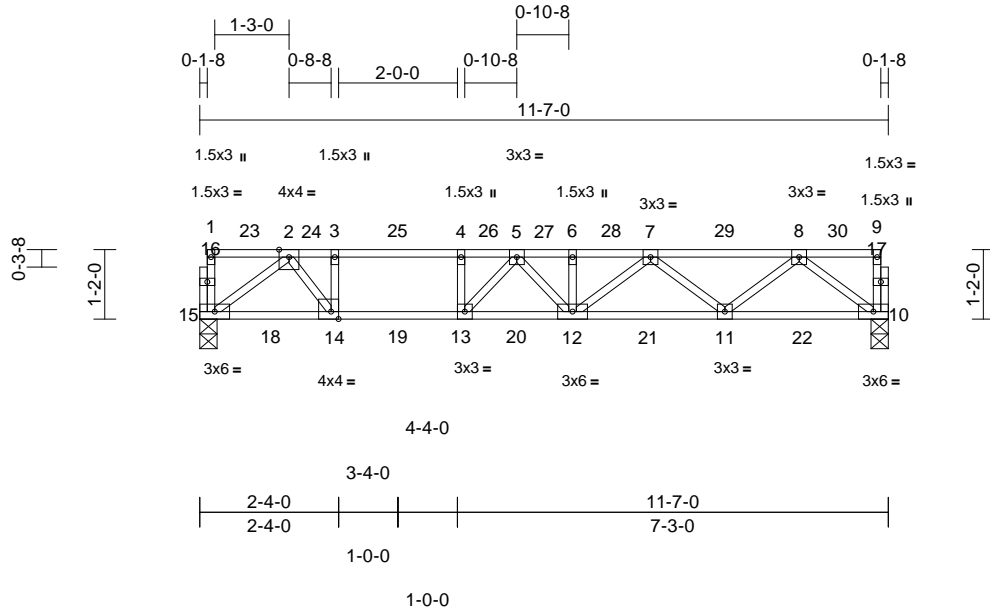
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	I73101714
	2F13	Floor	4	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:29
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Page: 1



Scale = 1:38.8

Plate Offsets (X, Y): [14:0-1-8,Edge]												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.16	12-13	>830	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.22	12-13	>610	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 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, Except: 2-2-0 oc bracing: 12-13.

REACTIONS (size) 10=0-3-8, 15=0-3-8
Max Grav 10=493 (LC 1), 15=493 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-268/0, 9-10=-259/37, 1-2=-16/0, 2-3=-1071/0, 3-4=-1071/0, 4-5=-1071/0, 5-6=-1356/0, 6-7=-1356/0, 7-8=-934/0, 8-9=-16/2
BOT CHORD 14-15=0/608, 13-14=0/1071, 12-13=0/1339, 11-12=0/1253, 10-11=0/601
WEBS 3-14=-493/0, 4-13=-59/289, 2-15=-758/0, 2-14=0/798, 8-10=-752/0, 8-11=0/434, 7-11=-415/0, 7-12=-146/269, 6-12=-217/98, 5-13=-497/28, 5-12=-150/210

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



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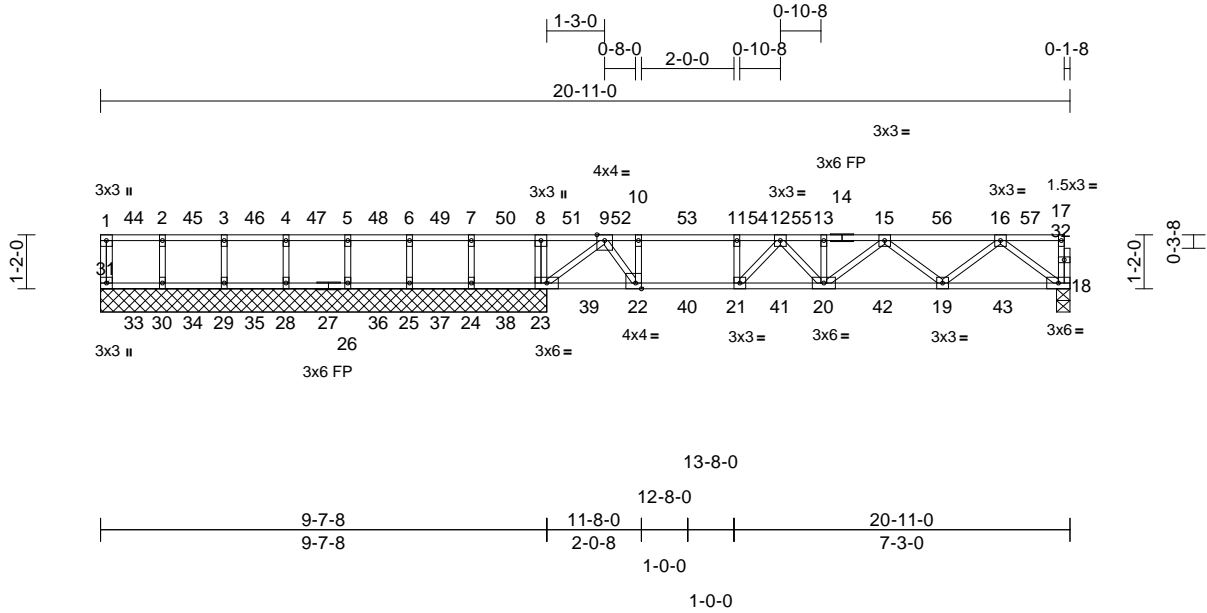
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	I73101715
	2F12	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:49.7									
Plate Offsets (X, Y): [22:0-1-8,Edge]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.19 20-21	>716	480
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.23 20-21	>584	360
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.03 18	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
								Weight: 99 lb	FT = 20%F, 12%E

LUMBER	
TOP CHORD	2x4 SP SS(flat) *Except* 14-17:2x4 SP No.2 (flat)
BOT CHORD	2x4 SP 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 6-0-0 oc bracing.
REACTIONS (size)	18=0-3-8, 23=9-7-8, 24=9-7-8, 25=9-7-8, 26=9-7-8, 28=9-7-8, 29=9-7-8, 30=9-7-8, 31=9-7-8
	31=72 (LC 5)
	Max Horiz 18=210 (LC 8), 23=126 (LC 7), 24=81 (LC 7), 25=16 (LC 122), 26=6 (LC 121), 28=6 (LC 117), 29=9 (LC 116), 30=3 (LC 118), 31=12 (LC 117)
	Max Uplift 18=544 (LC 18), 23=527 (LC 4), 24=285 (LC 134), 25=278 (LC 133), 26=280 (LC 132), 28=280 (LC 131), 29=279 (LC 130), 30=281 (LC 129), 31=262 (LC 128)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-31=-259/15, 17-18=-258/38, 1-2=-181/181, 2-3=-381/381, 3-4=-581/581, 4-5=-781/781, 5-6=-981/961, 6-7=-1181/1181, 7-8=-1406/1407, 8-9=-1592/1592, 9-10=-1314/641, 10-11=-1553/959, 11-12=-1659/1100, 12-13=-1355/411, 13-15=-1513/608, 15-16=-1015/375, 16-17=-197/197

BOT CHORD		30-31=-113/113, 29-30=-317/317, 28-29=-521/521, 26-28=-725/705, 25-26=-929/929, 24-25=-1133/1133, 23-24=-1363/1363, 22-23=-1120/1332, 21-22=-929/1530, 20-21=-646/1532, 19-20=-450/1313, 18-19=-249/654
WEBS		8-23=-280/25, 10-22=-719/402, 11-21=-396/480, 9-23=-966/510, 9-22=-674/1162, 16-18=-857/363, 16-19=-369/623, 15-19=-588/364, 15-20=-419/474, 2-30=-270/11, 3-29=-268/16, 4-28=-268/13, 5-26=-268/14, 6-25=-268/19, 7-24=-268/27, 13-20=-215/104, 12-21=-897/741, 12-20=-380/391
NOTES		1) Unbalanced floor live loads have been considered for this design. 2) All plates are 1.5x3 () MT20 unless otherwise indicated. 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) N/A
		6) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
		7) This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 20-6-1 for 153.0 plf.

- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 9) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard

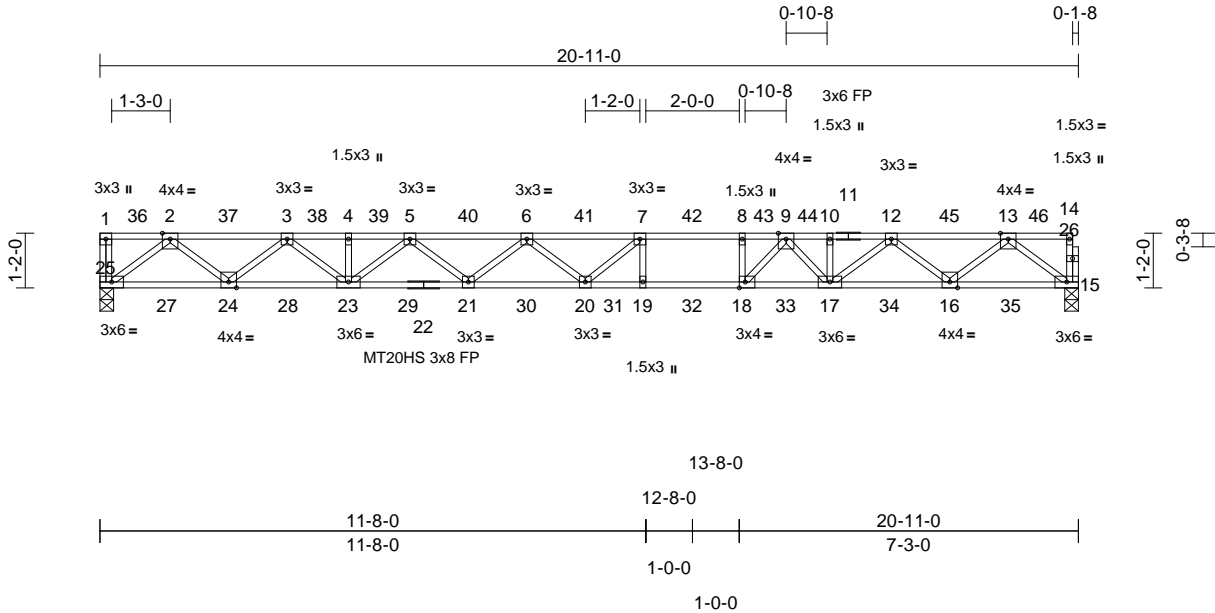


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Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2	173101716
	2F11	Floor	4	1	Job Reference (optional)	



Scale = 1:49.3

Plate Offsets (X, Y): [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.37	19-20	>676	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.50	19-20	>492	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 106 lb	FT = 20%F, 12%E

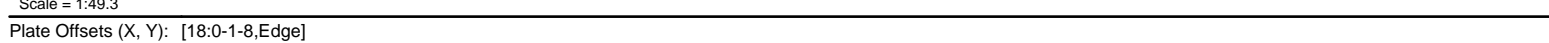
- LUMBER**
TOP CHORD 2x4 SP SS(flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
- 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) 15=0-3-8, 25=0-3-8
Max Grav 15=754 (LC 1), 25=758 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-25=-258/35, 14-15=-258/38, 1-2=0/0, 2-3=-1641/0, 3-4=-2818/0, 4-5=-2818/0, 5-6=-3493/0, 6-7=-3715/0, 7-8=-3561/0, 8-9=-3561/0, 9-10=-2802/0, 10-12=-2802/0, 12-13=-1645/0, 13-14=-15/2
BOT CHORD 24-25=0/953, 23-24=0/2306, 21-23=0/3241, 20-21=0/3736, 19-20=0/3561, 18-19=0/3561, 17-18=0/3132, 16-17=0/2298, 15-16=0/956
WEBS 7-19=-238/107, 8-18=-380/47, 2-25=-1196/0, 2-24=0/894, 3-24=-866/0, 3-23=0/654, 4-23=-260/61, 5-23=-540/0, 5-21=-21/363, 6-21=-343/77, 6-20=-207/194, 7-20=-183/449, 13-15=-1197/0, 13-16=0/897, 12-16=-849/0, 12-17=0/644, 10-17=-248/71, 9-18=-49/796, 9-17=-494/9

- NOTES**
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- LOAD CASE(S)** Standard



May 1,2025

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Tue Apr 29 10:14:28 Page: 1
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LUMBER		4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
TOP CHORD	2x4 SP SS(flat)	
BOT CHORD	2x4 SP DSS(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
BRACING		5) CAUTION, Do not erect truss backwards.
		LOAD CASE(S) Standard

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

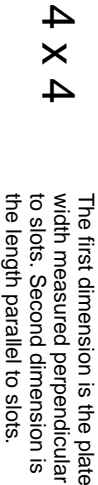
Symbols

PLATE LOCATION AND ORIENTATION

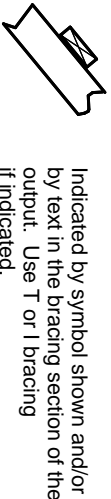


* Plate location details available in MITek software or upon request.

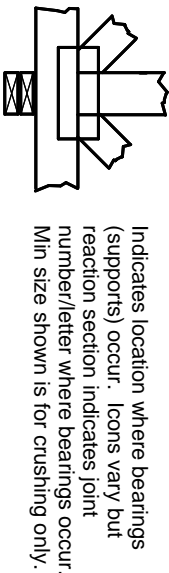
PLATE SIZE



LATERAL BRACING LOCATION

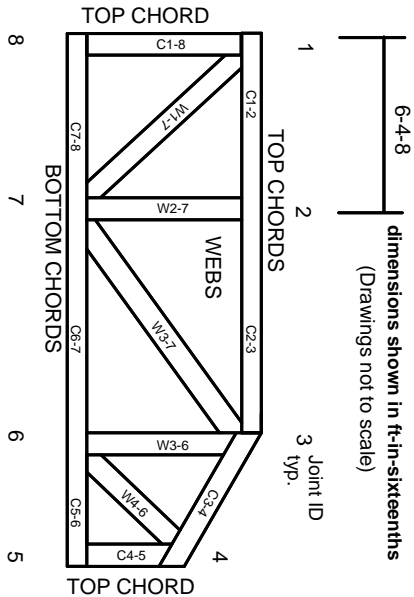


BEARING



Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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