

RE: Drayton Rev 2-El. 1,2-Floor

**Trenco**

818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track

Lot/Block: Subdivision:

Model:

Address:

City: State: NC

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

Design Code: IRC2021/TPI2014

Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-16

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

Wind Speed: 115 mph

Floor Load: N/A psf

Roof Load: 40.0 psf

Mean Roof Height (feet): 25

Exposure Category: B

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I71823436	1FGE6	3/5/25	35	I71823470	2F6	3/5/25
2	I71823437	1F6	3/5/25	36	I71823471	2F6A	3/5/25
3	I71823438	2F10	3/5/25				
4	I71823439	1FGE3	3/5/25				
5		1F7	3/5/25				
6	I71823441	1FGE8	3/5/25				
7	I71823442	2F4	3/5/25				
8	I71823443	1FGE5	3/5/25				
9	I71823444	1FGE7	3/5/25				
10	I71823445	1F5	3/5/25				
11	I71823446	2F2	3/5/25				
12	I71823447	2F2A	3/5/25				
13	I71823448	2F3	3/5/25				
14	I71823449	2FGE1	3/5/25				
	I71823450	1FGE2	3/5/25				
16	I71823451	1F3	3/5/25				
17	I71823452	2F2C	3/5/25				
18	I71823453	2F2B	3/5/25				
19	I71823454	2F2D	3/5/25				
20	I71823455	1F2	3/5/25				
21	I71823456	1F2A	3/5/25				
22	I71823457	1FGE1	3/5/25				
23	I71823458	1FGE4	3/5/25				
	I71823459	2F1	3/5/25				
25	I71823460	2FGE	3/5/25				
26	I71823461	1F1	3/5/25				
27	I71823462	1F1A	3/5/25				
28	I71823463	1FGER	3/5/25				
29	I71823464	1F4	3/5/25				
30	I71823465	2F9	3/5/25				
31	I71823466	2F7	3/5/25				
32	I71823467	2F8	3/5/25				
	I71823468	2F8A	3/5/25				
34	I71823469	2F5	3/5/25				

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: Gilbert, Eric

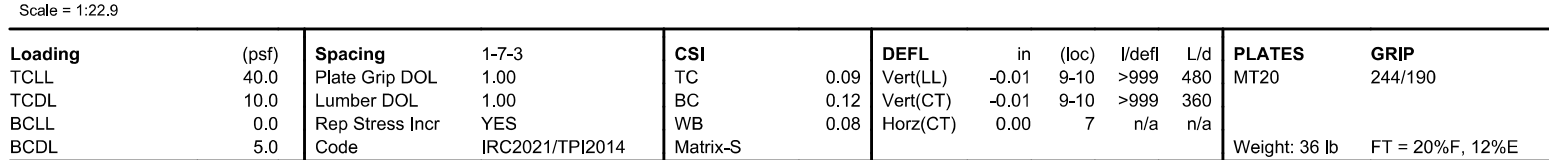
My license renewal date for the state of North Carolina is December 31, 2025.

**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.

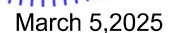


March 5, 2025

Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:52 Page: 1  
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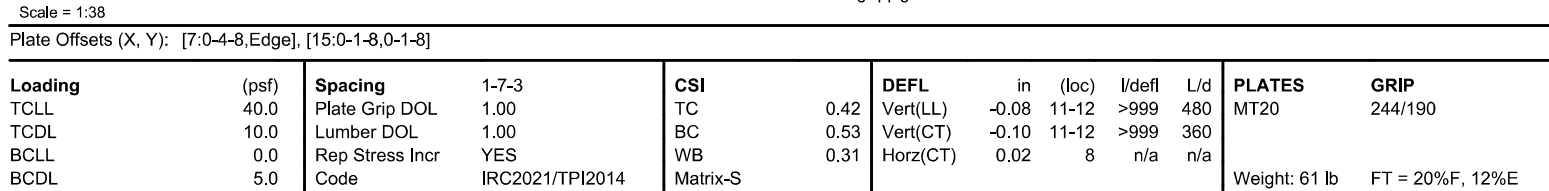
LOAD CASE(S) Standard



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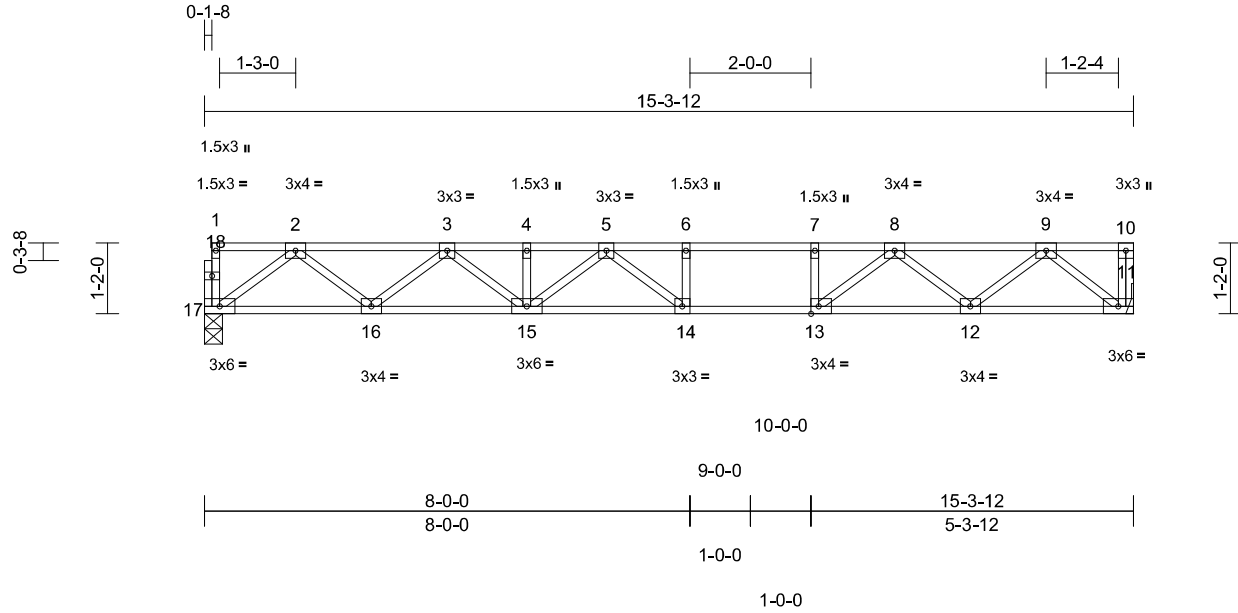
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823446
	2F2	Floor	8	1	Job Reference (optional)	

Structural, LLC, Thumont, MD - 21788,

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Page: 1



Scale = 1:38

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	0.78	Vert(LL)	-0.19	14-15	>936	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.26	14-15	>685	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=0-3-8  
Max Grav 11=662 (LC 1), 17=657 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-28/0, 10-11=-27/0, 1-2=-2/0,  
2-3=-1346/0, 3-4=-2170/0, 4-5=-2170/0,  
5-6=-2283/0, 6-7=-2283/0, 7-8=-2283/0,  
8-9=-1305/0, 9-10=0/0  
BOT CHORD 16-17=0/817, 15-16=0/1858, 14-15=0/2341,  
13-14=0/2283, 12-13=0/1838, 11-12=0/785  
WEBS 6-14=-125/39, 7-13=-289/0, 2-17=-1023/0,  
2-16=0/688, 3-16=-667/0, 5-15=-232/0,  
3-15=0/398, 4-15=-55/0, 5-14=-233/243,  
8-13=0/692, 8-12=-694/0, 9-12=0/676,  
9-11=-1003/0

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- Bearings are assumed to be: Joint 17 SP SS.
- Refer to girder(s) for truss to truss connections.
- 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



March 5, 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.sbcacompoments.com)

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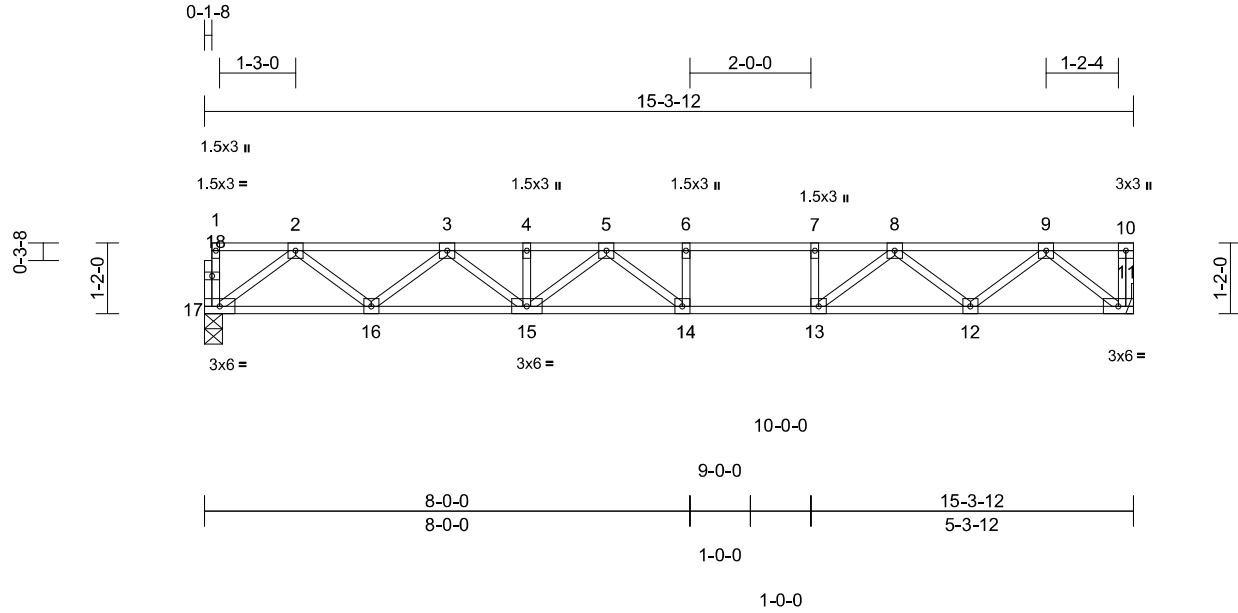


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823447
	2F2A	Floor	6	1	Job Reference (optional)	

Structural, LLC, Thumont, MD - 21788,

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Page: 1



Scale = 1:38

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	0.70	Vert(LL)	-0.18	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.25	14-15	>737	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	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 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) 11= Mechanical, 17=0-3-8  
Max Grav 11=552 (LC 1), 17=548 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum  
Tension

TOP CHORD 1-17=-23/0, 10-11=-22/0, 1-2=-1/0,  
2-3=-1123/0, 3-4=-1809/0, 4-5=-1809/0,  
5-6=-1904/0, 6-7=-1904/0, 7-8=-1904/0,  
8-9=-1089/0, 9-10=0/0

BOT CHORD 16-17=0/682, 15-16=0/1549, 14-15=0/1955,  
13-14=0/1904, 12-13=0/1529, 11-12=0/656

WEBS 6-14=-106/50, 7-13=-259/0, 2-17=-854/0,  
2-16=0/574, 3-16=-555/0, 3-15=0/332,  
4-15=-47/0, 5-15=-192/0, 5-14=-200/204,  
8-13=0/584, 8-12=-573/0, 9-12=0/563,  
9-11=-838/0

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 17 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- 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



March 5, 2025

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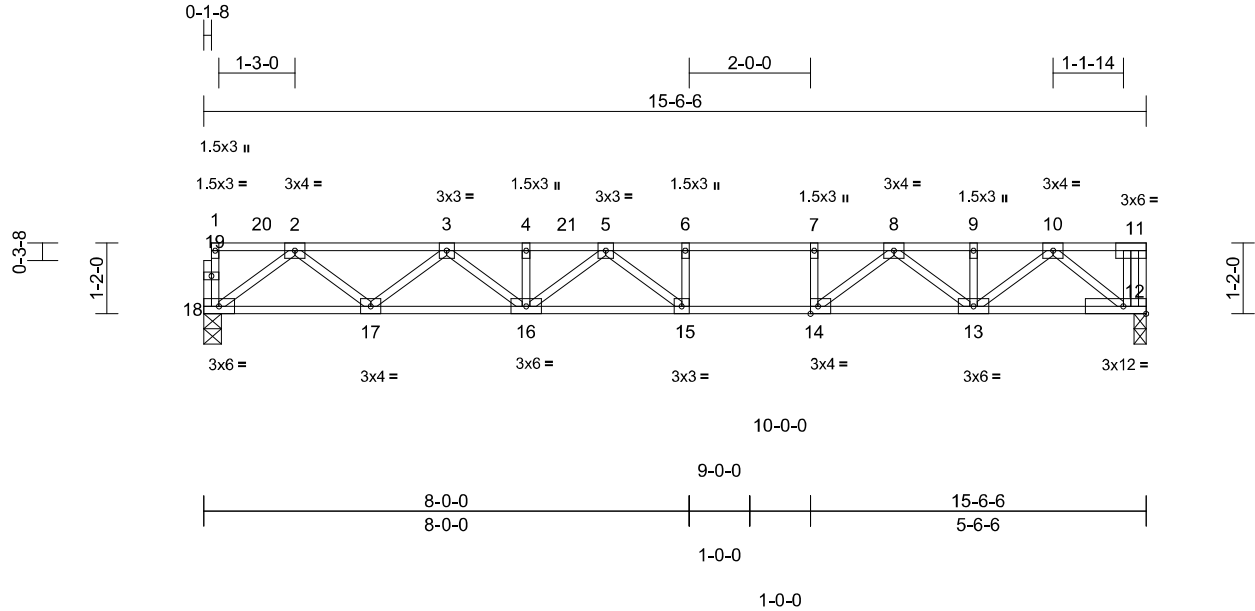
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823448
	2F3	Floor	14	1	Job Reference (optional)	

Structural, LLC, Thumont, MD - 21788,

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Page: 1



Scale = 1:38

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	0.90	Vert(LL)	-0.19	15-16	>945	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.26	15-16	>690	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 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) 12=0-2-6, 18=0-3-8  
Max Grav 12=670 (LC 1), 18=666 (LC 1)

FORCES (lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-18=-28/0, 11-12=-45/0, 1-2=-2/0,  
2-3=-1368/0, 3-4=-2209/0, 4-5=-2209/0,  
5-6=-2347/0, 6-7=-2347/0, 7-8=-2347/0,  
8-9=-1409/0, 9-10=-1409/0, 10-11=0/0  
BOT CHORD 17-18=0/830, 16-17=0/1889, 15-16=0/2390,  
14-15=0/2347, 13-14=0/1888, 12-13=0/787  
WEBS 6-15=-129/37, 7-14=-297/0, 2-18=-1039/0,  
2-17=0/701, 3-17=-679/0, 3-16=0/408,  
4-16=-57/0, 5-16=-242/0, 5-15=-223/258,  
8-14=0/697, 8-13=-612/0, 9-13=-121/0,  
10-13=0/794, 10-12=-996/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP SS.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- 4) 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.
- 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.

6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,  
Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 12-18=-8, 1-20=-80, 20-21=-81, 11-21=-80



March 5, 2025

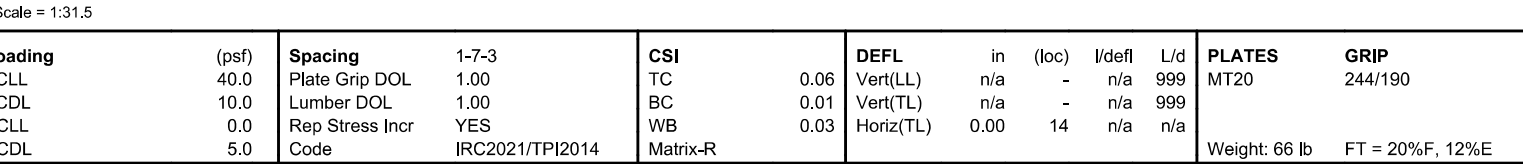
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- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be SP No.2.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 7) CAUTION, Do not erect truss backwards.

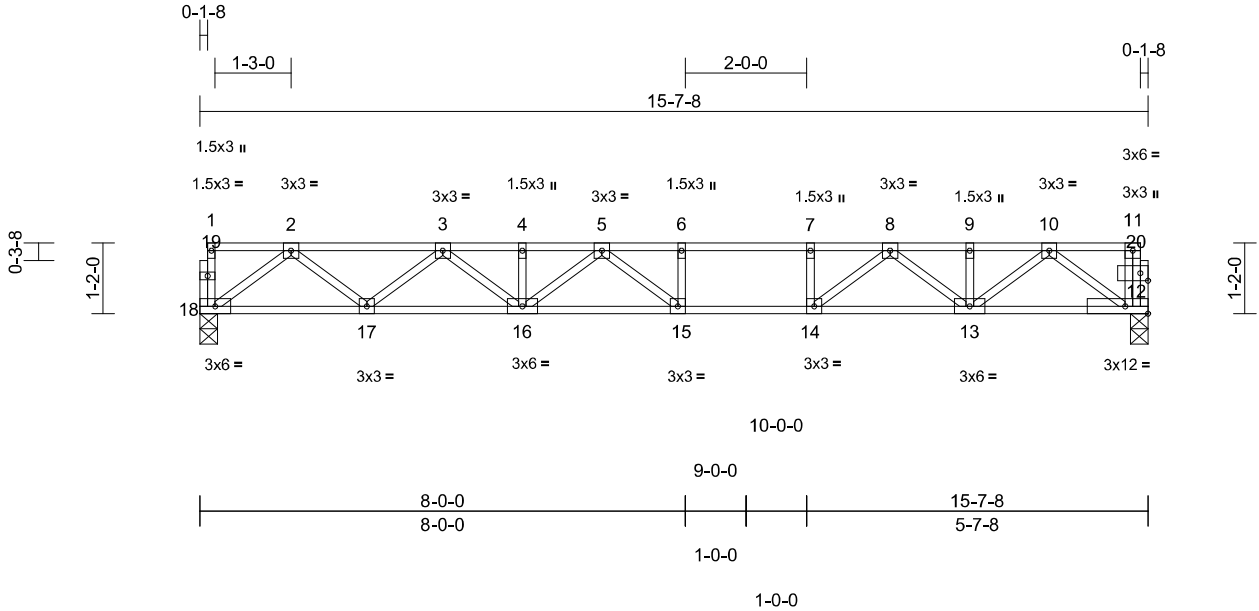
**LOAD CASE(S)** Standard

<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension
<b>TOP CHORD</b>	1-26=-39/0, 13-14=-22/0, 1-2=-5/0, 2-3=-5/0, 3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0, 7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0, 11-12=-5/0, 12-13=-5/0
<b>BOT CHORD</b>	25-26=0/5, 24-25=0/5, 23-24=0/5, 22-23=0/5 21-22=0/5, 20-21=0/5, 19-20=0/5, 18-19=0/5 17-18=0/5, 16-17=0/5, 15-16=0/5, 14-15=0/5
<b>WEBS</b>	2-25=-106/0, 3-24=-107/0, 4-23=-106/0, 5-22=-107/0, 6-21=-107/0, 7-20=-107/0, 8-19=-107/0, 9-18=-107/0, 10-17=-106/0, 11-16=-111/0, 12-15=-87/0

**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823452
	2F2C	Floor	4	1	Job Reference (optional)	



Scale = 1:38

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

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	0.69	Vert(LL)	-0.18	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.25	15-16	>748	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 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) 12=0-3-8, 18=0-3-8  
 Max Grav 12=557 (LC 1), 18=557 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-18=-23/0, 11-12=-39/0, 1-2=-1/0, 2-3=-1146/0, 3-4=-1853/0, 4-5=-1853/0, 5-6=-1984/0, 6-7=-1984/0, 7-8=-1984/0, 8-9=-1218/0, 9-10=-1218/0, 10-11=-2/0  
 BOT CHORD 17-18=0/694, 16-17=0/1582, 15-16=0/2012, 14-15=0/1984, 13-14=0/1605, 12-13=0/701  
 WEBS 6-15=-114/45, 7-14=-263/0, 2-18=-869/0, 2-17=0/588, 3-17=-568/0, 3-16=0/346, 4-16=-49/0, 5-16=-205/0, 5-15=-184/227, 8-14=0/582, 8-13=-494/0, 9-13=-104/0, 10-13=0/660, 10-12=-863/0

- NOTES**  
 1) Unbalanced floor live loads have been considered for this design.  
 2) All bearings are assumed to be SP No.2 .  
 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



March 5,2025

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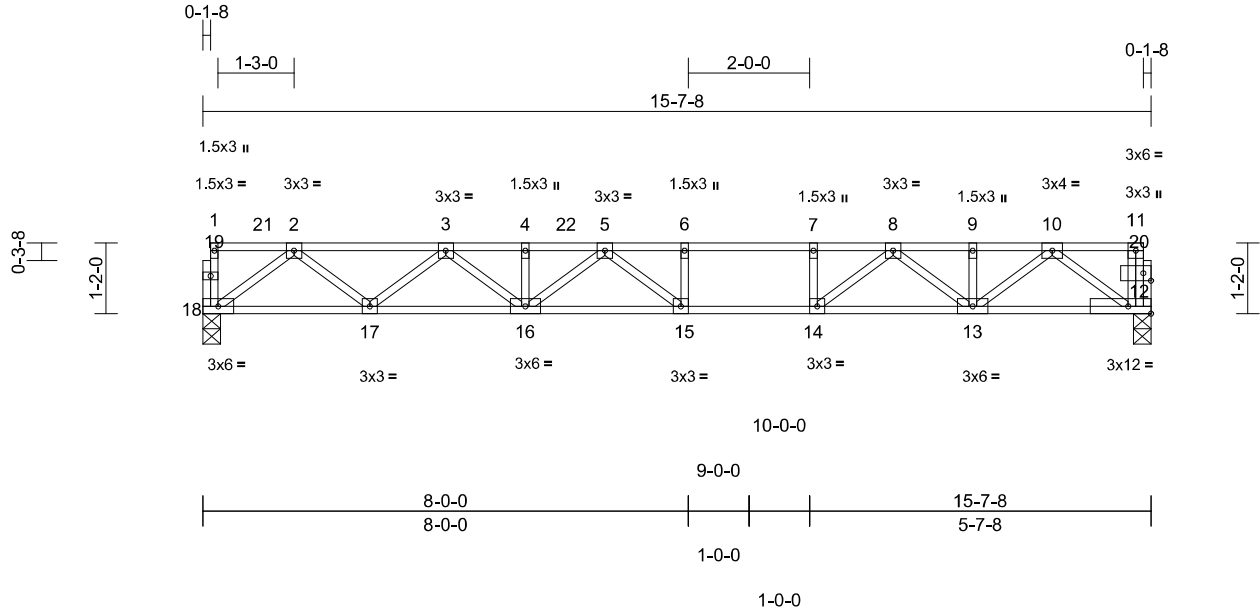
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823453
	2F2B	Floor	4	1	Job Reference (optional)	

Structural, LLC, Thumont, MD - 21788,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:48  
ID:kSHTjD000QpzoO3DR0BxOVzqBw1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38  
Plate Offsets (X, Y): [20:0-1-8,0-1-8]

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	0.83	Vert(LL)	-0.18	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.26	15-16	>719	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 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)

1) Dead + Floor Live (balanced): Lumber Increase=1.00,  
Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 12-18=-7, 1-21=-67, 21-22=-73, 11-22=-67

**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) 12=0-3-8, 18=0-3-8  
Max Grav 12=564 (LC 1), 18=581 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-18=-22/0, 11-12=-39/0, 1-2=-1/0,  
2-3=-1195/0, 3-4=-1918/0, 4-5=-1918/0,  
5-6=-2025/0, 6-7=-2025/0, 7-8=-2025/0,  
8-9=-1236/0, 9-10=-1236/0, 10-11=-2/0  
BOT CHORD 17-18=0/727, 16-17=0/1648, 15-16=0/2070,  
14-15=0/2025, 13-14=0/1631, 12-13=0/710  
WEBS 6-15=-106/53, 7-14=-272/0, 2-18=-911/0,  
2-17=0/609, 3-17=-589/0, 3-16=0/346,  
4-16=-53/0, 5-16=-195/0, 5-15=-204/207,  
8-14=0/602, 8-13=-506/0, 9-13=-105/0,  
10-13=0/671, 10-12=-874/0

**NOTES**  
1) Unbalanced floor live loads have been considered for  
this design.  
2) All bearings are assumed to be SP No.2 .  
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) 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



March 5, 2025

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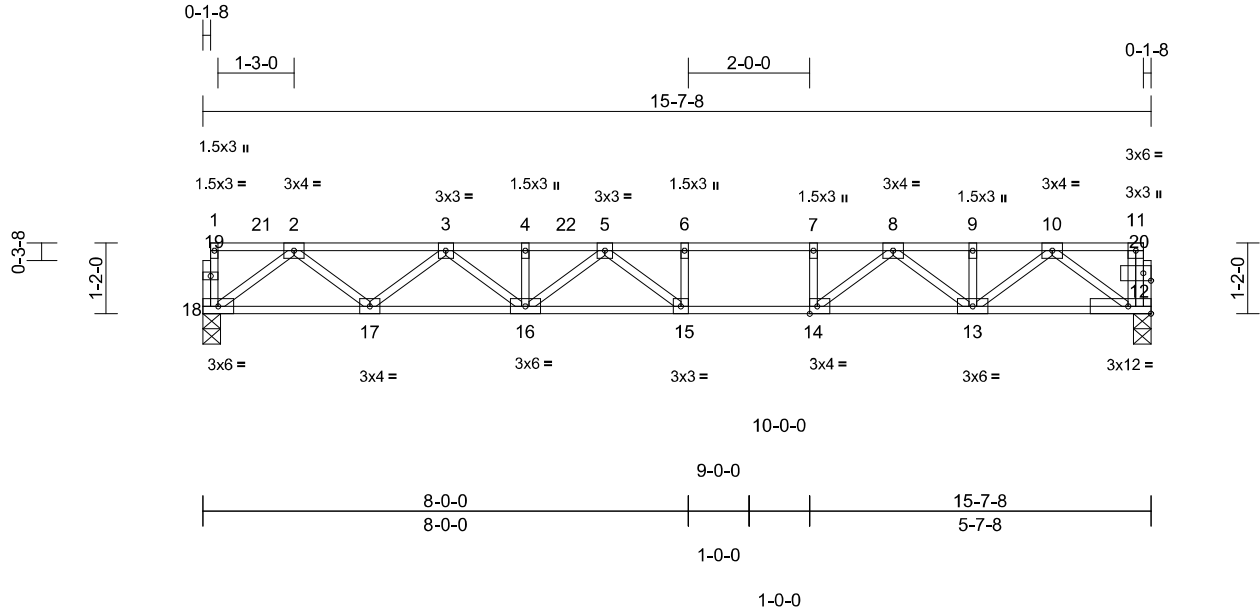
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823454
	2F2D	Floor	2	1	Job Reference (optional)	

Structural, LLC, Thumont, MD - 21788,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:49  
ID:kSHTjD000QpzoO3DR0BxOVzqBw1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38

Plate Offsets (X, Y): [14:0-1-8,Edge], [20:0-1-8,0-1-8]

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	0.94	Vert(LL)	-0.19	15-16	>950	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.28	15-16	>655	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 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  
5-9-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
bracing.

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

Max Grav 12=681 (LC 1), 18=713 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-26/0, 11-12=-46/0, 1-2=-2/0,  
2-3=-1465/0, 3-4=-2344/0, 4-5=-2344/0,  
5-6=-2455/0, 6-7=-2455/0, 7-8=-2455/0,  
8-9=-1490/0, 9-10=-1490/0, 10-11=-3/0  
BOT CHORD 17-18=0/894, 16-17=0/2020, 15-16=0/2517,  
14-15=0/2455, 13-14=0/1979, 12-13=0/857  
WEBS 6-15=-119/48, 7-14=-308/0, 10-12=-1055/0,  
10-13=0/808, 2-18=-1119/0, 2-17=0/744,  
3-17=-723/0, 3-16=0/414, 4-16=-65/0,  
5-16=-230/0, 5-15=-251/233, 8-14=0/724,  
8-13=-625/0, 9-13=-122/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be SP SS.
- 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) 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: 12-18=-8, 1-21=-80, 21-22=-91, 11-22=-80  
Concentrated Loads (lb)  
Vert: 21=0



March 5, 2025

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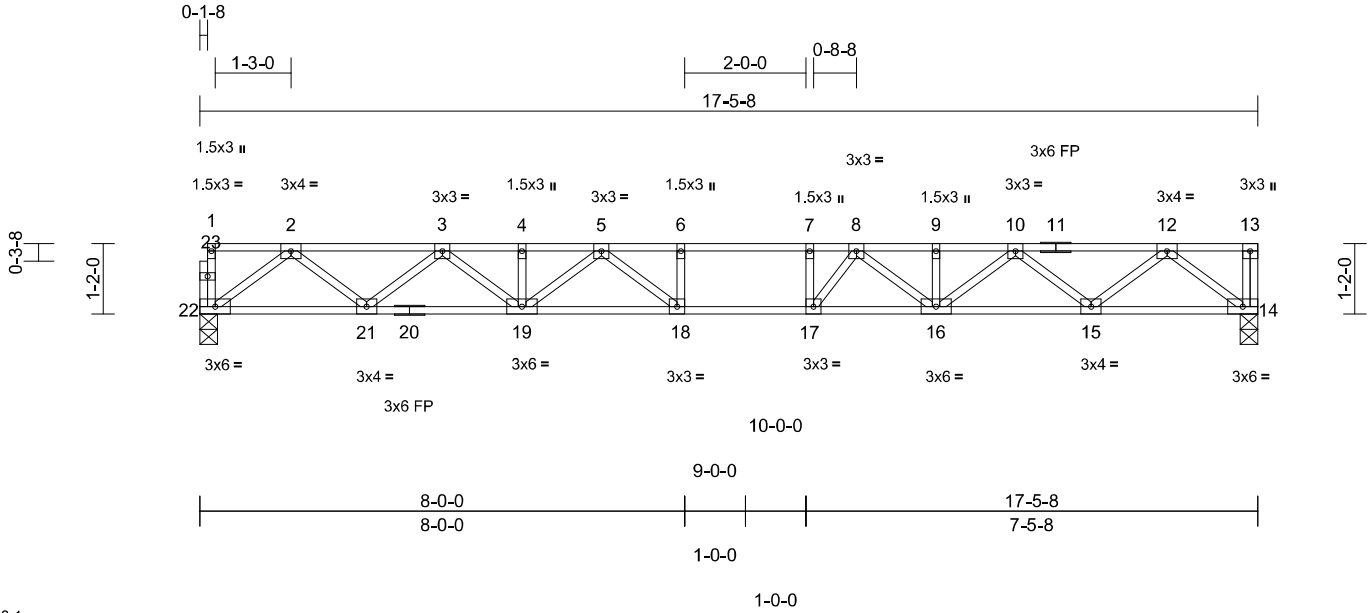


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823459
	2F1	Floor	14	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:47  
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Page: 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	Vert(LL)	-0.24	18	>857	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.33	18	>622	360		
BCLL	0.0	Rep Stress Incr	YES	WB	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 89 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" oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc  
bracing, Except:  
2'-2" oc bracing: 18-19, 17-18.

**REACTIONS** (size) 14=0-3-8, 22=0-3-8  
Max Grav 14=757 (LC 1), 22=752 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum  
Tension

TOP CHORD 1-22=-28/0, 13-14=-31/0, 1-2=-2/0,  
2-3=-1585/0, 3-4=-2630/0, 4-5=-2630/0,  
5-6=-3087/0, 6-7=-3087/0, 7-8=-3087/0,  
8-9=-2627/0, 9-10=-2627/0, 10-12=-1587/0,  
12-13=0/0

BOT CHORD 21-22=0/943, 19-21=0/2202, 18-19=0/2930,  
17-18=0/3087, 16-17=0/2931, 15-16=0/2199,  
14-15=0/945

WEBS 6-18=-219/0, 7-17=-327/8, 12-14=-1185/0,  
12-15=0/836, 10-15=-797/0, 10-16=0/546,  
2-22=-1181/0, 2-21=0/836, 3-21=-803/0,  
3-19=0/546, 4-19=-75/0, 5-19=-383/0,  
5-18=-80/468, 9-16=-88/0, 8-16=-415/0,  
8-17=-64/525

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2 .
- Recommend 2x6 strongbacks, on edge, spaced at 10'-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



March 5, 2025

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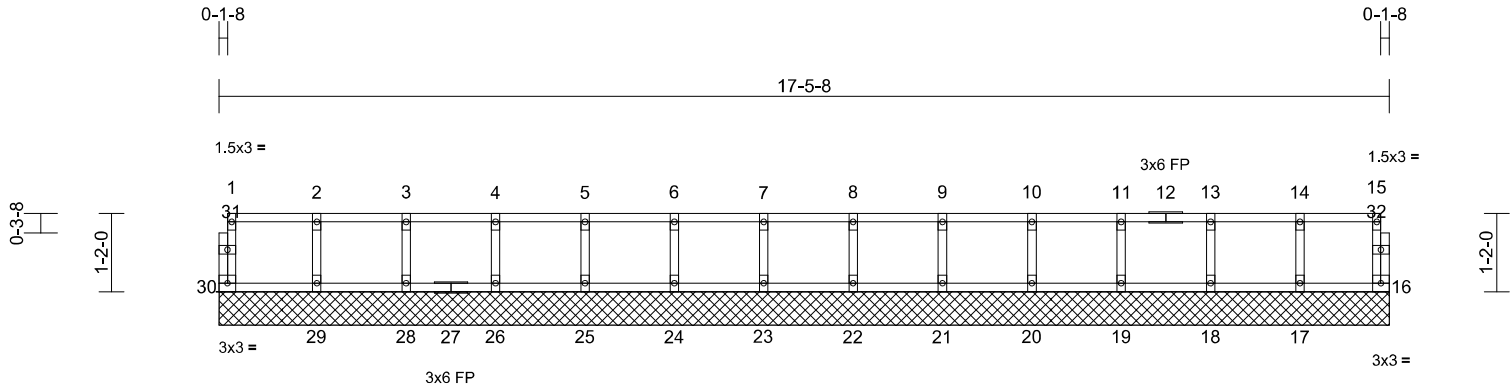
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823460
	2FGE	Floor Supported Gable	2	1	Job Reference (optional)	

Structural, LLC, Thumont, MD - 21788,

Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:52  
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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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	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" oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.

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 Grav	16=46 (LC 1), 17=113 (LC 1), 18=119 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=117 (LC 1), 22=117 (LC 1), 23=117 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 28=116 (LC 1), 29=121 (LC 1), 30=51 (LC 1)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-30=-46/0, 15-16=-41/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-13=-9/0, 13-14=-9/0, 14-15=-9/0
BOT CHORD	29-30=0/9, 28-29=0/9, 26-28=0/9, 25-26=0/9, 24-25=0/9, 23-24=0/9, 22-23=0/9, 21-22=0/9, 20-21=0/9, 19-20=0/9, 18-19=0/9, 17-18=0/9, 16-17=0/9
WEBS	14-17=-103/0, 13-18=-108/0, 11-19=-106/0, 10-20=-107/0, 9-21=-107/0, 8-22=-107/0, 7-23=-107/0, 6-24=-107/0, 5-25=-107/0, 4-26=-107/0, 3-28=-106/0, 2-29=-110/0

#### 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) All bearings are assumed to be SP No.2 .
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10'-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



March 5, 2025

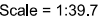
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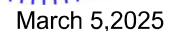
818 Soundside Road  
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Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:51 Page: 1  
ID:q7shCSVZb02y1NcIRvZTRFzvZG3-RfC?Psb70Hg3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f



## NOTES

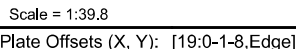
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 23 SP SS .
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10'-0"-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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ID:G1 ewUg3gWiwWe8929 z5FzvZBm-RfC?PsB70Hg3NSqPqnL8w3uITXBgKWrcDoJ74zJC?f



<b>LUMBER</b>		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) *Except* 9'-1:2x4 SP SS (flat)	6) CAUTION, Do not erect truss backwards.
BOT CHORD	2x4 SP No.2(flat) *Except* 22'-15:2x4 SP SS (flat)	<b>LOAD CASE(S)</b> Standard
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) 15=0-3-8, 18=0-3-8, 24=0-3-8  
Max Grav 15=290 (LC 7), 18=853 (LC 1),  
24=549 (LC 3)

<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension
<b>TOP CHORD</b>	1-24=28/0, 14-15=285/0, 1-2=2/0, 2-3=1074/0, 3-4=1640/0, 4-5=1640/0, 5-6=1368/0, 6-7=1368/0, 7-8=1368/0, 8-10=66/242, 10-11=66/243, 11-12=448/0, 12-13=284/0, 13-14=284/0
<b>BOT CHORD</b>	23-24=0/674, 21-23=0/1462, 20-21=0/1674, 19-20=0/1368, 18-19=0/646, 17-18=0/377, 16-17=0/476, 15-16=0/17
<b>WEBS</b>	6-20=0/140, 7-19=429/0, 10-18=143/0, 2-24=844/0, 2-23=0/520, 3-23=506/0, 3-21=0/226, 4-21=36/0, 5-21=55/8, 5-20=428/0, 11-18=462/0, 11-17=0/161, 8-19=0/941, 8-18=812/0, 12-17=122/1, 12-16=245/0, 13-16=81/0, 14-16=0/361

## NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 4) Bearings are assumed to be: Joint 24 SP No.2 , Joint 18 SP SS , Joint 15 SP SS .



March 5, 2025

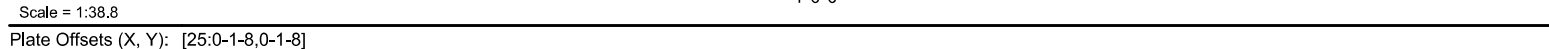


Design valid for use only with MiTek® connectors. This design is based only on parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Components Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))



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Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:51 Page: 1  
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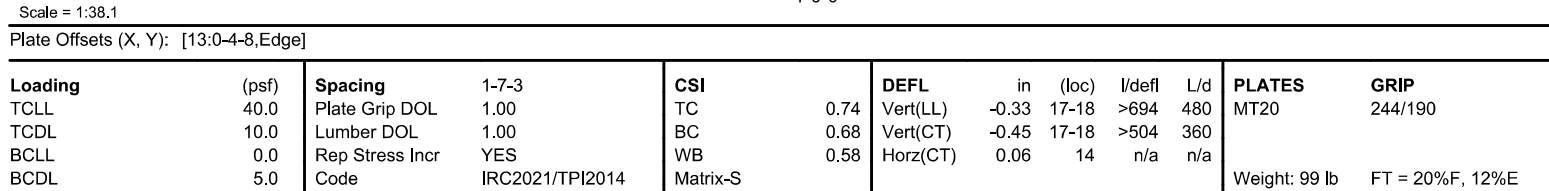
<b>LUMBER</b>		4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP No.2(flat) *Except* 21-14:2x4 SP SS (flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	<b>LOAD CASE(S)</b> Standard

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 23 SP No.2 , Joint 14 SP SS .



Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:51 Page: 1  
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4) CAUTION, Do not erect truss backwards.  
LOAD CASE(S) Standard

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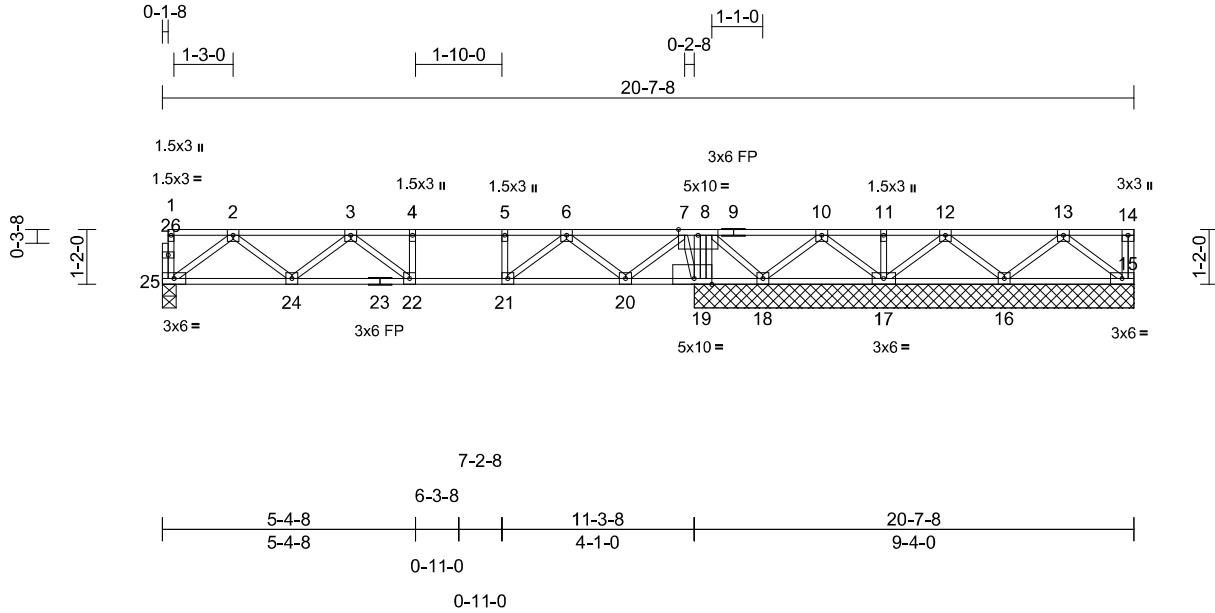


Job	Truss	Truss Type	Qty	Ply	Drayton Rev 2-El. 1,2-Floor	I71823469
	2F5	Floor	2	1	Job Reference (optional)	

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Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:50  
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Page: 1



Scale = 1:49

Plate Offsets (X, Y): [19:0-4-8,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	0.58	Vert(LL)	-0.11	22-24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.14	22-24	>964	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 108 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: 24-25,15-16.

**REACTIONS** (size) 15=9-4-0, 16=9-4-0, 17=9-4-0, 18=9-4-0, 19=9-4-0, 25=0-3-8  
Max Horiz 25=9 (LC 6)  
Max Uplift 15=140 (LC 8), 17=34 (LC 8), 18=217 (LC 6), 19=202 (LC 7), 25=29 (LC 7)  
Max Grav 15=201 (LC 17), 16=230 (LC 13), 17=244 (LC 17), 18=222 (LC 17), 19=946 (LC 4), 25=449 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-29/0, 14-15=-29/0, 1-2=-197/197, 2-3=-930/147, 3-4=-1057/0, 4-5=-1203/278, 5-6=-1336/475, 6-7=-719/618, 7-8=-501/868, 8-10=-368/483, 10-11=-162/187, 11-12=-214/238, 12-13=-181/199, 13-14=-206/206  
BOT CHORD 24-25=-124/635, 22-24=-207/1164, 21-22=-278/1203, 20-21=-500/1022, 19-20=-756/562, 18-19=-957/659, 17-18=-331/311, 16-17=-195/209, 15-16=-177/209

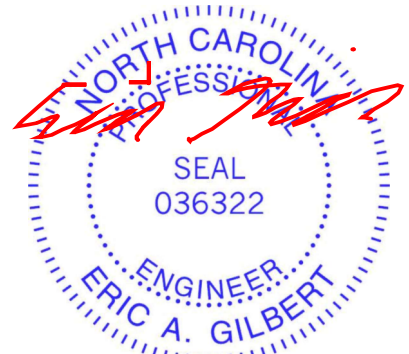
#### WEBS

4-22=-142/118, 5-21=-263/85, 8-19=-630/411, 13-15=-280/246, 13-16=-329/222, 12-16=-309/245, 12-17=-322/250, 11-17=-56/0, 10-17=-378/371, 10-18=-461/330, 8-18=-629/807, 2-25=-686/61, 2-24=-76/421, 3-24=-387/140, 3-22=-285/308, 6-21=-207/610, 6-20=-644/90, 7-20=-33/603, 7-19=-552/25

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 18.
- 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 25, 15, 17, and 19. This connection is for uplift only and does not consider lateral forces.
- 6) 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 20-7-8 for 150.0 plf.
- 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



March 5, 2025

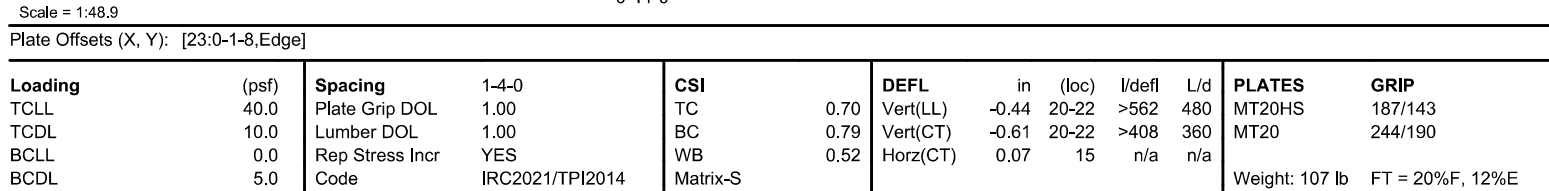
**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

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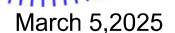
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Structural, LLC, Thurmont, MD - 21788, Run: 8.83 S Feb 18 2025 Print: 8.830 S Feb 18 2025 MiTek Industries, Inc. Wed Mar 05 09:20:50 Page: 1  
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LOAD CASE(S) Standard

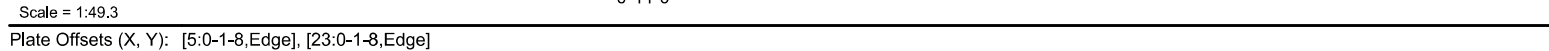
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All bearings are assumed to be SP SS .



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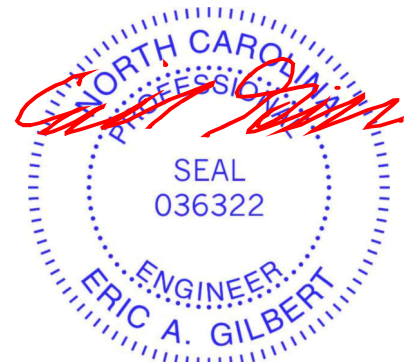
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<b>LUMBER</b>		4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
TOP CHORD	2x4 SP SS(flat) *Except* 11-14:2x4 SP No.2 (flat)	
BOT CHORD	2x4 SP DSS(flat) *Except* 20-15:2x4 SP SS (flat)	
WEBS	2x4 SP No.3(flat)	5) CAUTION, Do not erect truss backwards.
OTHERS	2x4 SP No.3(flat)	<b>LOAD CASE(S)</b> Standard
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-23.	
<b>REACTIONS</b>	(size) 15=0-3-8, 25=0-3-8 Max Grav 15=909 (LC 1), 25=904 (LC 1)	
<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-25=-25/3, 14-15=-32/0, 1-2=-2/0, 2-3=-1920/0, 3-4=-3712/0, 4-5=-3712/0, 5-6=-4142/0, 6-7=-4475/0, 7-8=-4475/0, 8-9=-4185/0, 9-10=-3374/0, 10-12=-3374/0, 12-13=-1968/0, 13-14=0/0	
BOT CHORD	24-25=0/1135, 23-24=0/2785, 22-23=0/3712, 21-22=0/3712, 19-21=0/4486, 18-19=0/4441, 17-18=0/3899, 16-17=0/2766, 15-16=0/1143	
WEBS	2-25=-1423/0, 2-24=0/1021, 3-24=-1126/0, 3-23=0/1261, 13-15=-1434/0, 13-16=0/1073, 12-16=-1038/0, 12-17=0/777, 10-17=-48/0, 9-17=-671/0, 9-18=0/372, 8-18=-334/0, 6-19=-112/42, 6-21=-530/30, 5-21=0/930, 8-19=-26/149, 7-19=-11/0, 4-23=-466/0, 5-22=-634/0	

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Bearings are assumed to be: Joint 25 SP DSS , Joint 15 SP SS .



March 5, 2025

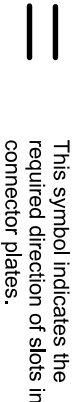
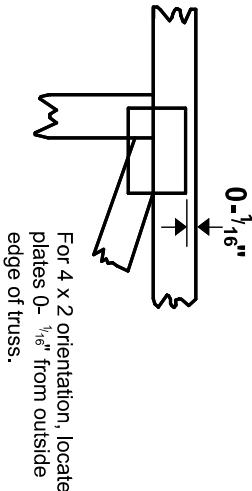
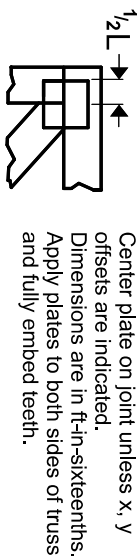
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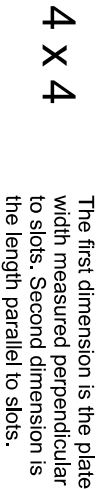
# Symbols

## PLATE LOCATION AND ORIENTATION



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

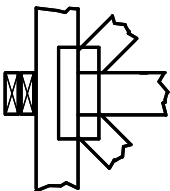
## PLATE SIZE



## LATERAL BRACING LOCATION

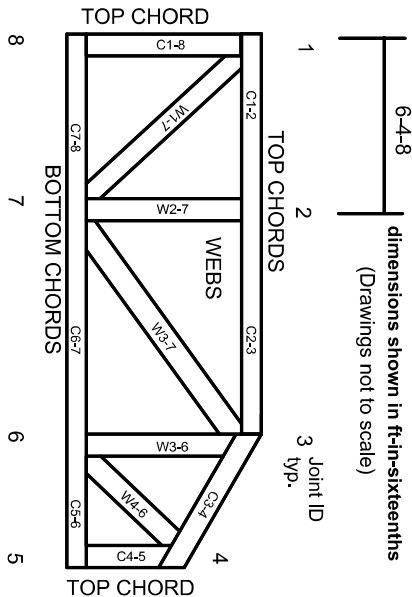


## BEARING



**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 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
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 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.