



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

RE: 0326-006 - 16 OC - Christ Central

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: William Scott Construction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 16 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T40650151	F01	3/31/26
2	T40650152	F03	3/31/26
3	T40650153	F04	3/31/26
4	T40650154	F05	3/31/26
5	T40650155	F06	3/31/26
6	T40650156	F07	3/31/26
7	T40650157	F08	3/31/26
8	T40650158	F09	3/31/26
9	T40650159	F10	3/31/26
10	T40650160	F11	3/31/26
11	T40650161	F12	3/31/26
12	T40650162	F13	3/31/26
13	T40650163	F14	3/31/26
14	T40650164	F15	3/31/26
15	T40650165	F16	3/31/26
16	T40650166	F17	3/31/26

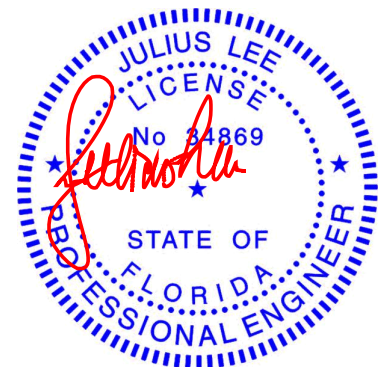


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2027.

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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

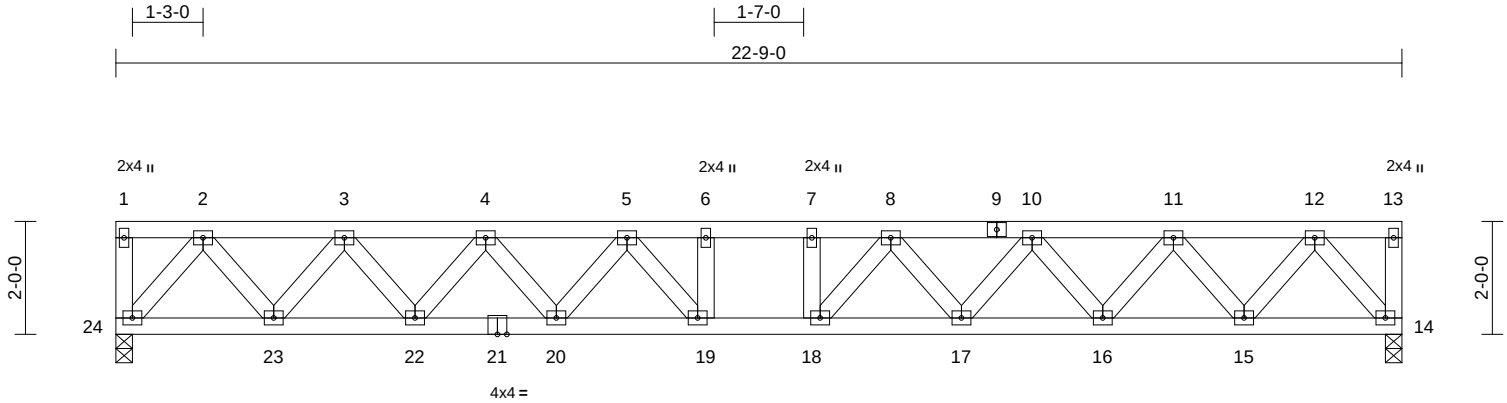
April 1, 2026

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650151
0326-006 - 16 OC	F01	Floor	37	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:50
ID:koreRGhFoPVeHibL4QcC5HdzjP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.8

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	0.28	Vert(LL)	-0.21	18-19	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.34	18-19	>787	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 121 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 14=0-3-8, 24=0-3-8
Max Grav 14=973 (LC 1), 24=973 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-24=-49/0, 13-14=-49/0, 1-2=-13/0, 2-3=-1301/0, 3-4=-2227/0, 4-5=-2831/0, 5-6=-3155/0, 6-7=-3155/0, 7-8=-3155/0, 8-10=-2831/0, 10-11=-2227/0, 11-12=-1301/0, 12-13=-13/0

BOT CHORD 23-24=0/755, 22-23=0/1839, 20-22=0/2604, 19-20=0/3046, 18-19=0/3155, 17-18=0/3046, 16-17=0/2604, 15-16=0/1839, 14-15=0/755

WEBS 12-14=-1172/0, 2-24=-1172/0, 12-15=0/925, 2-23=0/925, 11-15=-911/0, 3-23=-911/0, 11-16=0/658, 3-22=0/658, 10-16=-637/0, 4-22=-637/0, 10-17=0/385, 4-20=0/385, 8-17=-370/0, 5-20=-370/0, 8-18=-92/407, 5-19=-92/407, 6-19=-225/8, 7-18=-225/8

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 21 = 11%, joint 9 = 11%
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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.sbcsccomponents.com)

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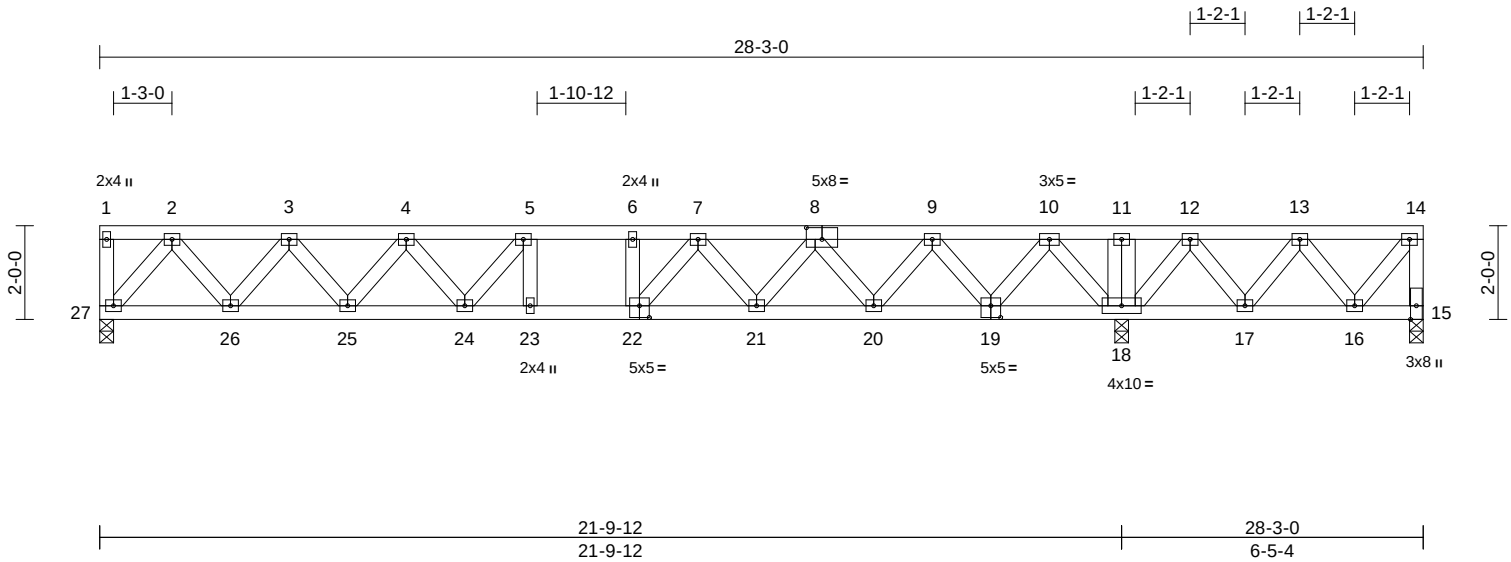
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650152
0326-006 - 16 OC	F03	Floor	67	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:49.2

Plate Offsets (X, Y): [8:0-4-0,0-3-0], [19:0-2-8,0-3-0], [22:0-2-8,0-3-0]

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	0.67	Vert(LL)	-0.12	23	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.20	23	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 152 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-8 oc bracing.

REACTIONS (size) 15=0-3-8, 18=0-3-8, 27=0-3-8
Max Uplift 15=-453 (LC 3)
Max Grav 15=46 (LC 4), 18=1943 (LC 1), 27=777 (LC 3)

FORCES

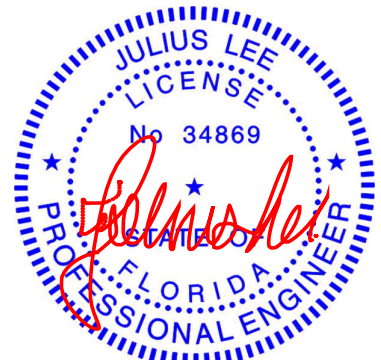
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-27=-45/0, 14-15=-41/442, 1-2=-11/0, 2-3=-1000/0, 3-4=-1643/0, 4-5=-1955/0, 5-6=-1970/0, 6-7=-1970/0, 7-9=-1386/0, 9-10=0/499, 10-11=0/2024, 11-12=0/2024, 12-13=0/1097, 13-14=0/364
BOT CHORD 26-27=0/597, 25-26=0/1392, 24-25=0/1886, 23-24=0/1970, 21-23=0/1970, 20-21=0/1086, 18-20=-1128/156, 17-18=-1491/0, 16-17=-703/0, 15-16=-6/9
WEBS 11-18=-166/0, 12-18=-963/0, 12-17=0/746, 13-17=-748/0, 13-16=0/600, 14-16=-587/0, 10-18=-1343/0, 2-27=-926/0, 10-19=0/1064, 2-26=0/683, 9-19=-1064/0, 3-26=-665/0, 9-20=0/808, 3-25=0/424, 8-20=-773/0, 4-25=-413/0, 8-21=0/512, 4-24=0/219, 7-21=-536/0, 5-24=-223/150, 7-22=0/570, 5-23=-182/28, 6-22=-285/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 453 lb uplift at joint 15.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

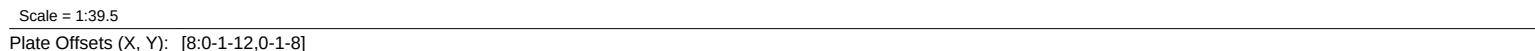
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

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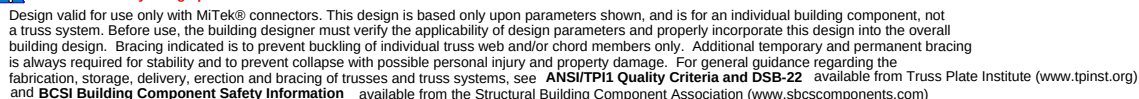
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:51 Page: 1
ID:0i Zn rXVbnn1xT03R4LzozdzR8-RfC?PsB70Hg3NSqPanL8w3uITxbGKWrcDoi7J4zJC?f



LUMBER		2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
TOP CHORD	2x4 SP No.2	3) All plates are 3x4 (≡) MT20 unless otherwise indicated.
BOT CHORD	2x4 SP No.2	4) The Fabrication Tolerance at joint 19 = 11%, joint 8 = 11%
WEBS	2x4 SP No.2	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.
BRACING		6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 564 lb down at 15-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Ver: 13-23=-7, 1-12=-80 Concentrated Loads (lb) Ver: 24=-564 (F)
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 13=0-3-8, 23=0-3-8	
	Max Grav 13=1333 (LC 1), 23=1109 (LC 1)	
FORCES		
TOP CHORD	(lb) - Maximum Compression/Maximum Tension	
	12-13=-54/0, 1-23=-51/0, 1-2=-15/0,	
	2-3=-1446/0, 3-4=-2535/0, 4-5=-3333/0,	
	5-6=-3856/0, 6-7=-4069/0, 7-9=-4096/0,	
	9-10=-3213/0, 10-11=-1764/0, 11-12=-20/0	
BOT CHORD	22-23=0/827, 21-22=0/2059, 20-21=0/2999,	
	18-20=0/3660, 17-18=0/4029, 16-17=0/4148,	
	15-16=0/3718, 14-15=0/2557, 13-14=0/996	
	2-23=-1319/0, 2-22=0/1084, 3-22=-1073/0,	
	3-21=0/835, 4-21=-813/0, 4-20=0/585,	
WEBS	5-20=-573/0, 5-18=0/343, 6-18=-303/0,	
	6-17=0/71, 7-17=-138/0, 7-16=-91/0,	
	9-16=0/662, 9-15=-885/0, 10-15=0/1149,	
	10-14=-1390/0, 11-14=0/1344, 11-13=-1587/0	

April 1, 2026



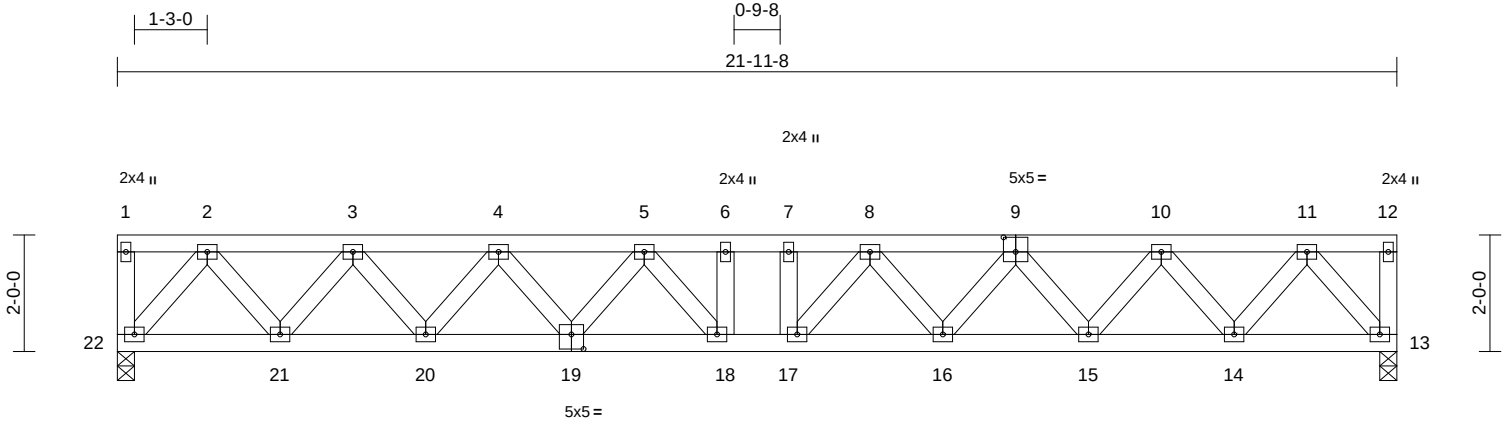
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650154
0326-006 - 16 OC	F05	Floor	28	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:39.5									
Plate Offsets (X, Y): [9:0-2-8,0-3-0], [19:0-2-8,0-3-0]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.18 17-18	>999	360
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.30 17-18	>872	240
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.07 13	n/a	n/a
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S					
							PLATES	GRIP	
							MT20	244/190	
							Weight: 119 lb		FT = 11%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS (size) 13=0-3-8, 22=0-3-8
Max Grav 13=939 (LC 1), 22=939 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

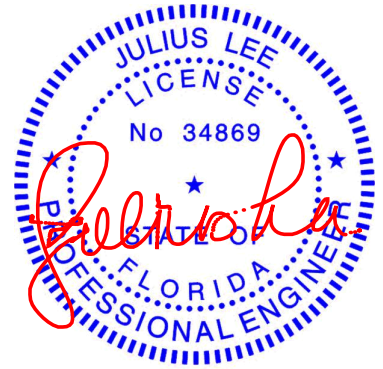
TOP CHORD 1-22=-48/0, 12-13=-48/0, 1-2=-13/0, 2-3=-1249/0, 3-4=-2125/0, 4-5=-2679/0, 5-6=-2943/0, 6-7=-2943/0, 7-8=-2943/0, 8-10=-2679/0, 10-11=-1249/0, 11-12=-13/0

BOT CHORD 21-22=0/727, 20-21=0/1762, 18-20=0/2870, 17-18=0/2943, 16-17=0/2870, 15-16=0/2476, 14-15=0/1762, 13-14=0/727

WEBS 11-13=-1129/0, 2-22=-1129/0, 11-14=0/883, 2-21=0/883, 10-14=-869/0, 3-21=-869/0, 10-15=0/615, 3-20=0/615, 9-15=-595/0, 4-20=-595/0, 9-16=0/344, 4-19=0/344, 8-16=-326/0, 5-19=-326/0, 8-17=-112/315, 5-18=-112/315, 6-18=-163/28, 7-17=-163/28

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
 - 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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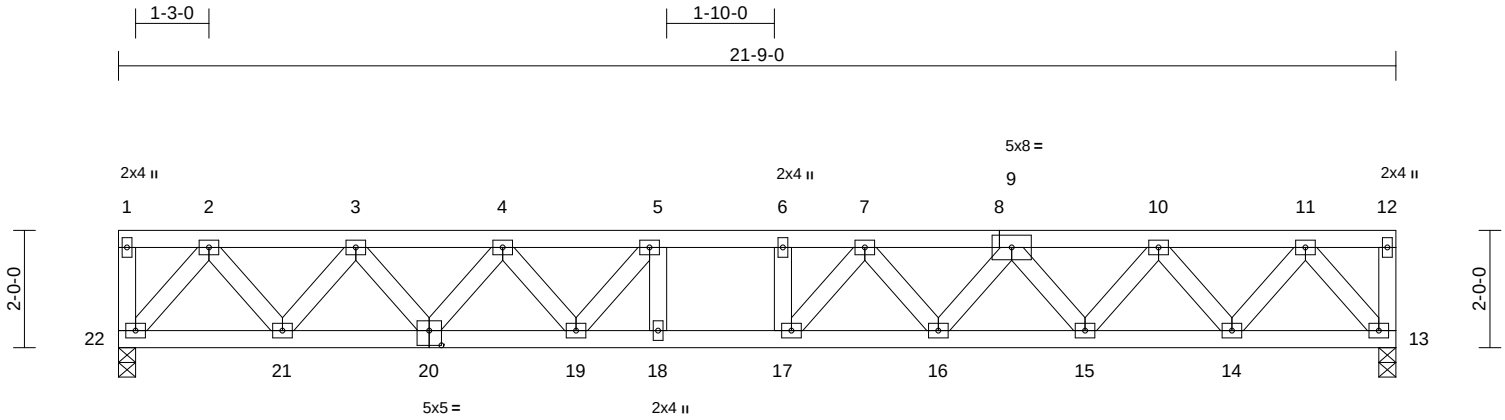
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650155
0326-006 - 16 OC	F06	Floor	17	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:52
ID:8sYLbsRq_32H_9DFli3DmFdzWp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?i

Page: 1



Scale = 1:39.2

Plate Offsets (X, Y): [20:0-2-8,0-3-0]

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	0.31	Vert(LL)	-0.18	17	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.29	17	>882	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 115 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

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

REACTIONS (size) 13=0-3-8, 22=0-3-8
Max Grav 13=930 (LC 1), 22=930 (LC 1)

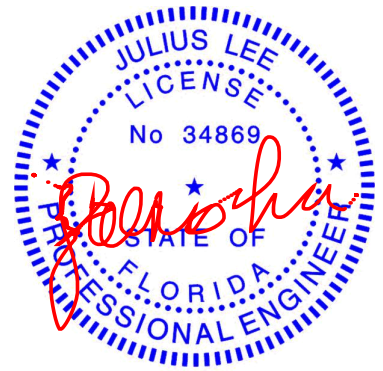
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-49/0, 12-13=-48/0, 1-2=-13/0,
2-3=-1235/0, 3-4=-2098/0, 4-5=-2640/0,
5-6=-2870/0, 6-7=-2870/0, 7-9=-2643/0,
9-10=-2097/0, 10-11=-1235/0, 11-12=-13/0
BOT CHORD 21-22=0/719, 19-21=0/2439, 18-19=0/2870,
17-18=0/2870, 16-17=0/2821, 15-16=0/2443,
14-15=0/1741, 13-14=0/720
WEBS 11-13=-1117/0, 2-22=-1117/0, 11-14=0/873,
2-21=0/873, 10-14=-857/0, 3-21=-859/0,
10-15=0/603, 3-20=0/602, 9-15=-587/0,
4-20=-579/0, 9-16=0/337, 4-19=0/409,
7-16=-322/0, 5-19=-512/0, 7-17=-150/336,
5-18=-81/158, 6-17=-179/21

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 8 = 11%
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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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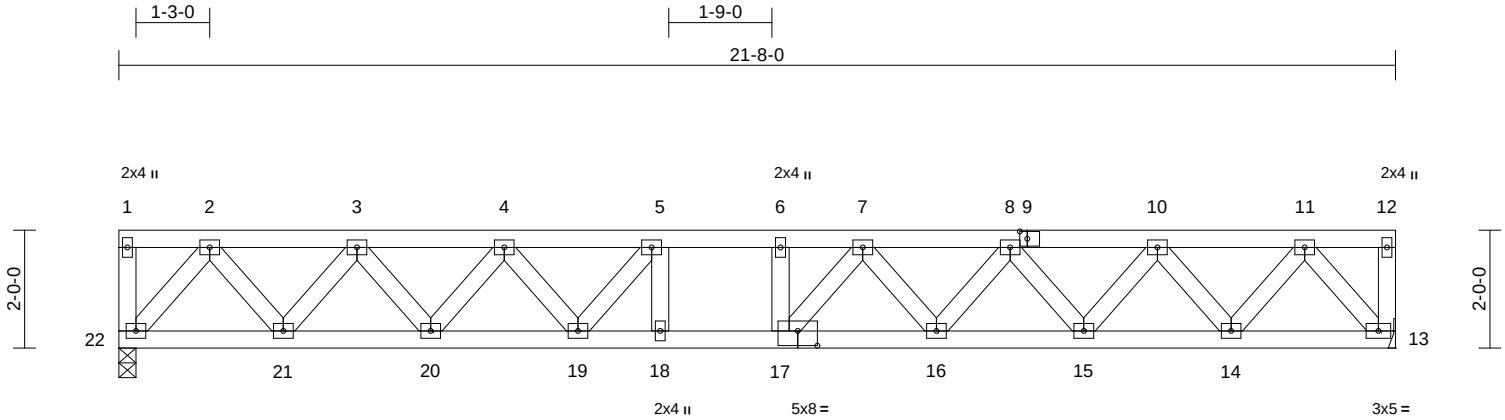
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650156
0326-006 - 16 OC	F07	Floor	21	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:52
ID:vTEPztwJ2aU84IESieSF7Wze_HF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.1

Plate Offsets (X, Y): [9:0-1-8,0-1-8], [17:0-4-0,0-3-0]

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	0.30	Vert(LL)	-0.18	17	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.29	17	>893	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 115 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

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

REACTIONS (size) 13= Mechanical, 22=0-3-8
Max Grav 13=926 (LC 1), 22=926 (LC 1)

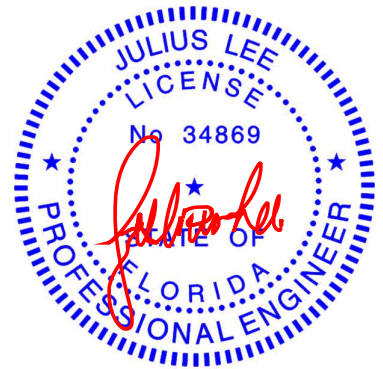
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-48/0, 12-13=-48/0, 1-2=-13/0,
2-3=-1229/0, 3-4=-2087/0, 4-5=-2623/0,
5-6=-2848/0, 6-7=-2848/0, 7-8=-2626/0,
8-10=-2086/0, 10-11=-1229/0, 11-12=-13/0
BOT CHORD 21-22=0/716, 20-21=0/1734, 19-20=0/2426,
18-19=0/2848, 16-18=0/2848, 15-16=0/2430,
14-15=0/1733, 13-14=0/717
WEBS 11-13=-1113/0, 2-22=-1112/0, 11-14=0/868,
2-21=0/868, 10-14=-853/0, 3-21=-854/0,
10-15=0/598, 3-20=0/598, 8-15=-582/0,
4-20=-575/0, 8-16=0/333, 4-19=0/403,
7-16=-318/0, 5-19=-502/0, 7-17=-152/328,
5-18=-81/155, 6-17=-173/23

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 9 = 11%
- 4) Refer to girder(s) for truss to truss connections.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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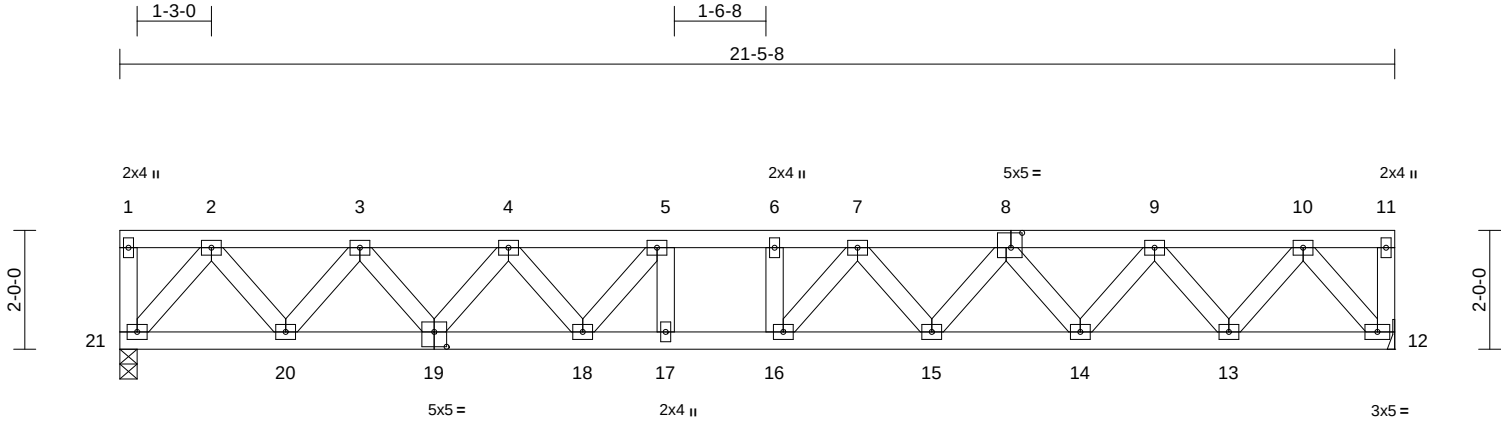
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650157
0326-006 - 16 OC	F08	Floor	8	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:52
ID: Y_HKMWu1GQilwrYMzzEum2zdzWE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.8

Plate Offsets (X, Y): [8:0-2-4,0-3-0], [19:0-2-8,0-3-0]

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	0.28	Vert(LL)	-0.17	16	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.28	16	>921	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 114 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 12= Mechanical, 21=0-3-8
Max Grav 12=917 (LC 1), 21=917 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-21=-48/0, 11-12=-48/0, 1-2=-13/0,
2-3=-1215/0, 3-4=-2060/0, 4-5=-2583/0,
5-6=-2796/0, 6-7=-2796/0, 7-9=-2586/0,
9-10=-1216/0, 10-11=-13/0
BOT CHORD 20-21=0/709, 18-20=0/2394, 17-18=0/2796,
16-17=0/2796, 15-16=0/2757, 14-15=0/2396,
13-14=0/1713, 12-13=0/709
WEBS 10-12=-1101/0, 2-21=-1101/0, 10-13=0/857,
2-20=0/857, 9-13=-842/0, 3-20=-843/0,
9-14=0/587, 3-19=0/588, 8-14=-570/0,
4-19=-565/0, 8-15=0/321, 4-18=0/387,
7-15=-308/0, 5-18=-475/0, 7-16=-156/309,
5-17=-82/147, 6-16=-157/30

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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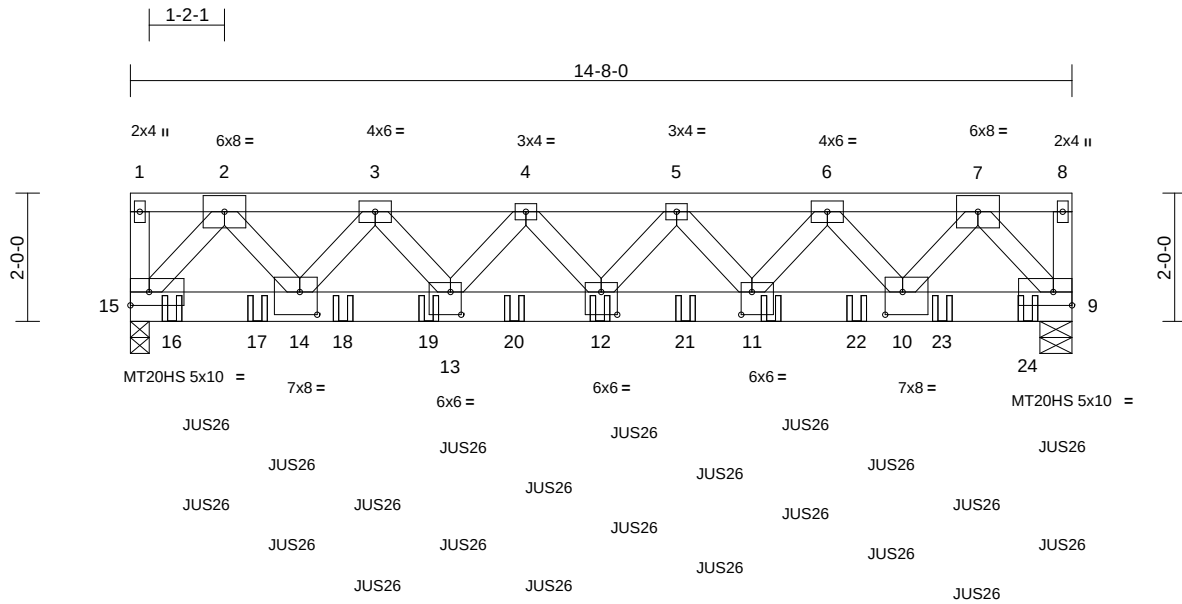
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650158
0326-006 - 16 OC	F09	Floor Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:52
ID:zClnVesjN1F0vWm?5o9?Dyze_38-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.9

Plate Offsets (X, Y): [10:0-3-4,0-4-4], [11:0-2-0,0-4-4], [12:0-3-0,0-4-4], [13:0-2-0,0-4-4], [14:0-3-4,0-4-4]

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	0.93	Vert(LL)	-0.16	11-12	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.26	11-12	>665	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 181 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=0-6-0, 15=0-3-8
Max Grav 9=6898 (LC 1), 15=6545 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-15=-150/0, 8-9=-156/0, 1-2=-164/0, 2-3=-8223/0, 3-4=-12803/0, 4-5=-14654/0, 5-6=-13220/0, 6-7=-8569/0, 7-8=-178/0
BOT CHORD 14-15=0/4451, 13-14=0/10583, 12-13=0/13793, 11-12=0/14000, 10-11=0/10963, 9-10=0/4638
WEBS 2-15=-6801/0, 2-14=0/6443, 3-14=-4030/0, 3-13=0/3793, 4-13=-1690/0, 4-12=0/1471, 5-12=0/1117, 5-11=-1333/0, 6-11=0/3854, 6-10=-4089/0, 7-10=0/6714, 7-9=-7077/0

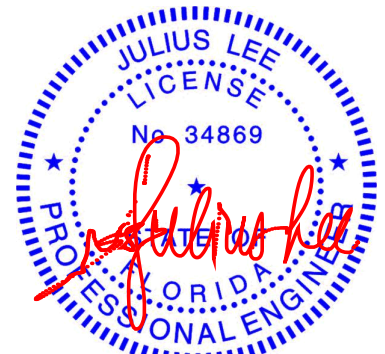
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- All plates are MT20 plates unless otherwise indicated.

- 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.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-7-12 from the left end to 13-11-12 to connect truss(es) to front face of bottom chord.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-7-12 from the left end to 13-11-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-15=-7, 1-8=-80
Concentrated Loads (lb)
Vert: 12=-1179 (F=-922, B=-257), 11=-1179 (F=-922, B=-257), 16=-1025 (F=-922, B=-103), 17=-1024 (F=-922, B=-102), 18=-1024 (F=-922, B=-102), 19=-1024 (F=-922, B=-102), 20=-1024 (F=-922, B=-102), 21=-1179 (F=-922, B=-257), 22=-1179 (F=-922, B=-257), 23=-1179 (F=-922, B=-257), 24=-1180 (F=-922, B=-258)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650159
0326-006 - 16 OC	F10	Floor Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:53
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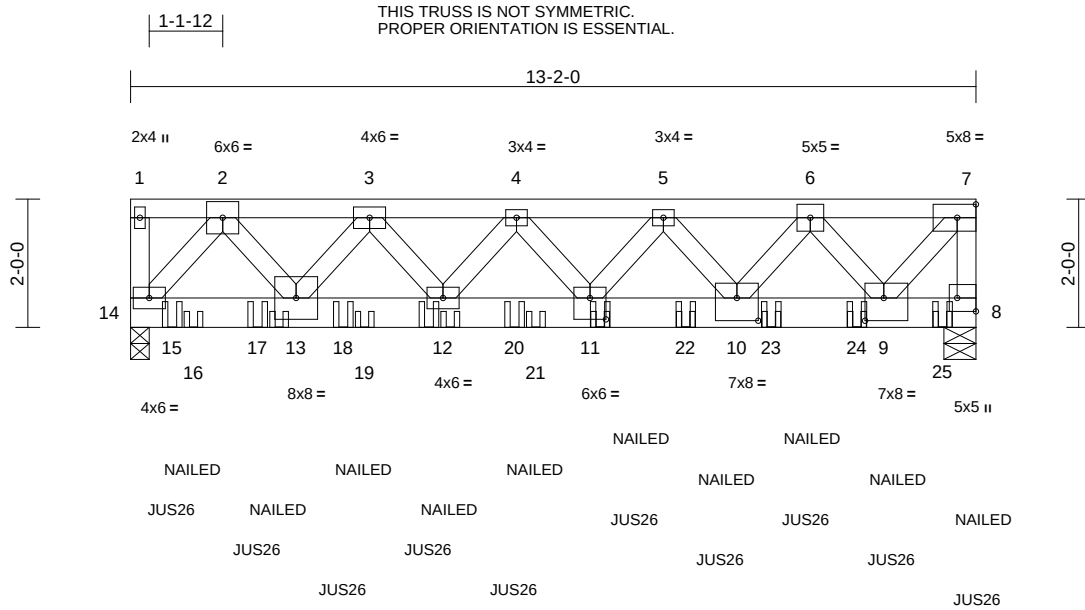


Plate Offsets (X, Y): [8:Edge,0-3-8], [9:0-3-8,0-4-4], [10:0-4-0,0-4-4], [11:0-3-0,0-4-0]

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	0.79	Vert(LL)	-0.12	11-12	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.19	11-12	>809	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 164 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 8=0-6-0, 14=0-3-8
Max Grav 8=6339 (LC 1), 14=5795 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-132/0, 7-8=-5238/0, 1-2=-144/0, 2-3=-6983/0, 3-4=-10661/0, 4-5=-11595/0, 5-6=-9516/0, 6-7=-4196/0

BOT CHORD 13-14=0/3794, 12-13=0/8888, 11-12=0/11189, 10-11=0/10618, 9-10=0/6908, 8-9=0/152

WEBS 2-14=-5870/0, 2-13=0/5539, 3-13=-3309/0, 3-12=0/3081, 4-12=-916/0, 4-11=0/706, 5-11=0/1696, 5-10=-1915/0, 6-10=0/4529, 6-9=-4712/0, 7-9=0/6505

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 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.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 1-4-0 oc max. starting at 0-7-13 from the left end to 12-7-13 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 8-14=-7, 1-7=-80
Concentrated Loads (lb)
Vert: 13=-102 (F), 12=-1024 (F=-102, B=-922), 11=-1179 (F=-257, B=-922), 15=-922 (B), 16=-102 (F), 17=-922 (B), 18=-922 (B), 19=-102 (F), 20=-922 (B), 21=-102 (F), 22=-1179 (F=-257, B=-922), 23=-1179 (F=-257, B=-922), 24=-1179 (F=-257, B=-922), 25=-1181 (F=-258, B=-923)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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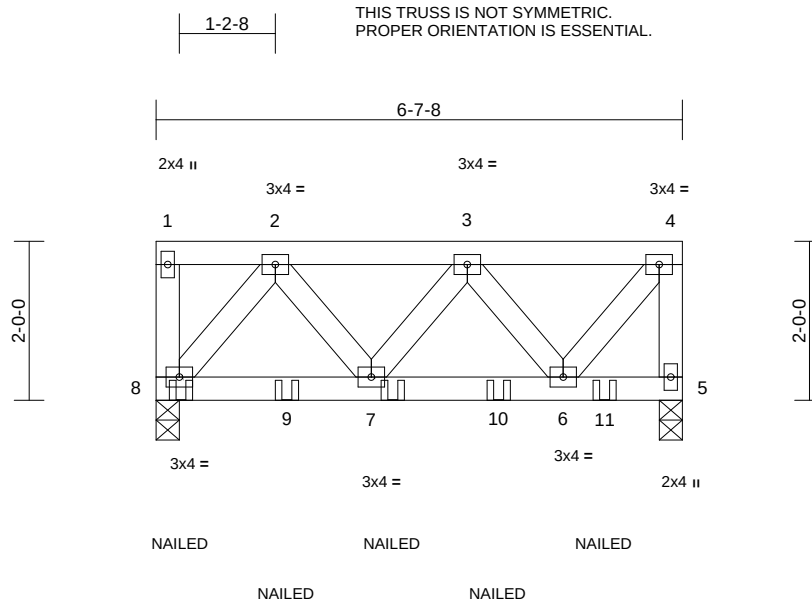
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650160
0326-006 - 16 OC	F11	Floor Girder	2	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:53
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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	0.07	Vert(LL)	0.00	7-8	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	0.00	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 76 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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) 5=0-3-8, 8=0-3-8
Max Grav 5=496 (LC 1), 8=565 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-39/0, 4-5=-467/0, 1-2=0/0, 2-3=-468/0, 3-4=-303/0
BOT CHORD 7-8=0/305, 6-7=0/466, 5-6=0/0
WEBS 2-8=-491/0, 2-7=0/282, 3-7=0/3, 3-6=-282/0, 4-6=0/488

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-8=-7, 1-4=-80
Concentrated Loads (lb)
Vert: 8=-104 (F), 7=-102 (F), 9=-102 (F), 10=-102 (F), 11=-102 (F)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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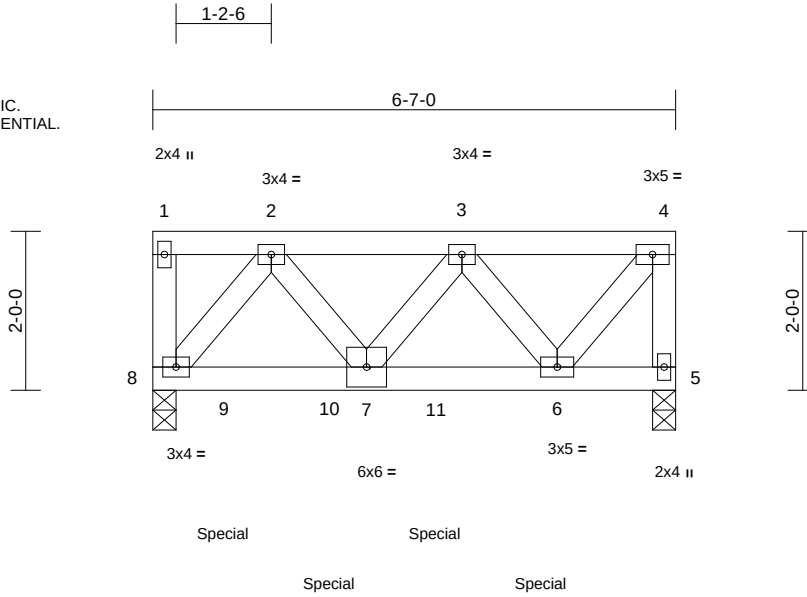
Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650161
0326-006 - 16 OC	F12	Floor Girder	2	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:53
ID:?dtsWk0tWiDQtUGx49sODSzdSC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.



Scale = 1:29

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	0.13	Vert(LL)	-0.02	7-8	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.03	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 75 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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) 5=0-3-8, 8=0-3-8
Max Grav 5=1897 (LC 1), 8=2299 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-53/0, 4-5=-1908/0, 1-2=0/0,
2-3=-2306/0, 3-4=-1428/0

BOT CHORD 7-8=0/1272, 6-7=0/1941, 5-6=0/0

WEBS 2-8=-2056/0, 2-7=0/1798, 3-7=0/634,
3-6=-892/0, 4-6=0/2308

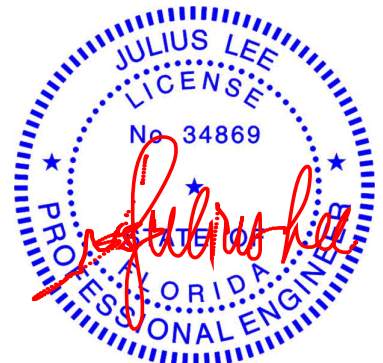
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 913 lb down at 0-10-12, 913 lb down at 2-2-12, and 913 lb down at 3-6-12, and 913 lb down at 4-10-12 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-8=-7, 1-4=-80
Concentrated Loads (lb)
Vert: 6=-913 (B), 9=-913 (B), 10=-913 (B), 11=-913 (B)



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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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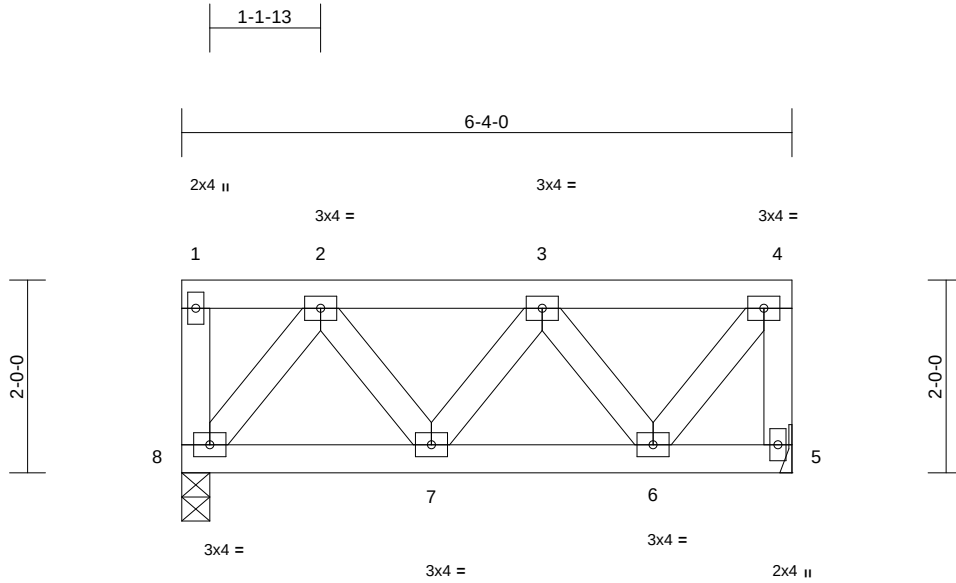
16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650162
0326-006 - 16 OC	F13	Floor	11	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:23.9

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	0.11	Vert(LL)	0.00	6-7	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	0.00	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P								
											Weight: 37 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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.

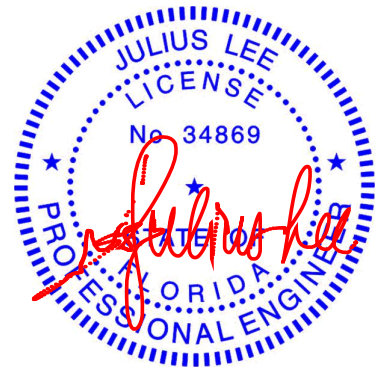
REACTIONS (size) 5= Mechanical, 8=0-3-8
Max Grav 5=262 (LC 1), 8=262 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-36/0, 4-5=-255/0, 1-2=0/0, 2-3=-212/0, 3-4=-134/0
BOT CHORD 7-8=0/165, 6-7=0/247, 5-6=0/0
WEBS 2-8=-274/0, 2-7=0/83, 3-7=-63/0, 3-6=-202/0, 4-6=0/221

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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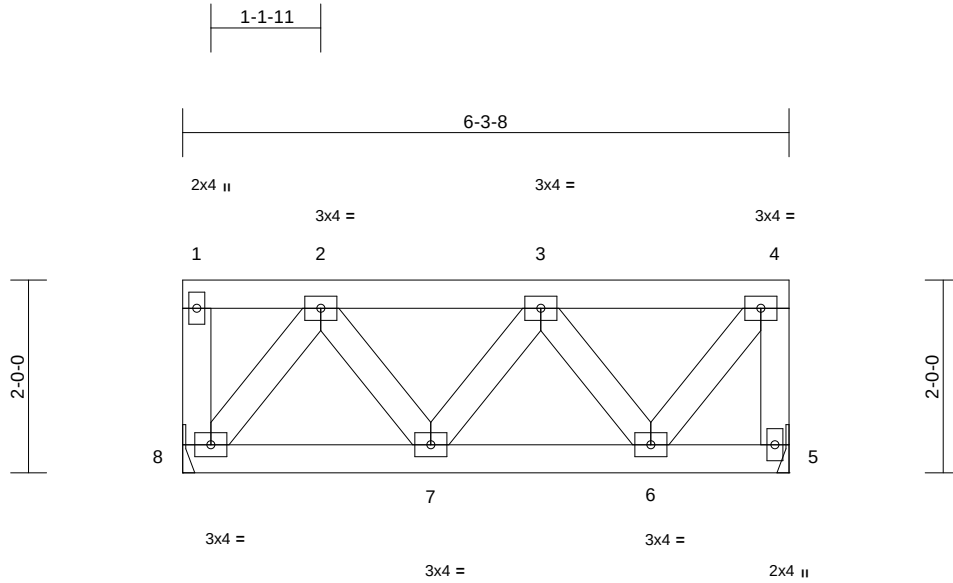
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650163
0326-006 - 16 OC	F14	Floor	3	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:53
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Page: 1



Scale = 1:23.9

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	0.11	Vert(LL)	0.00	6-7	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	0.00	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 36 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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.

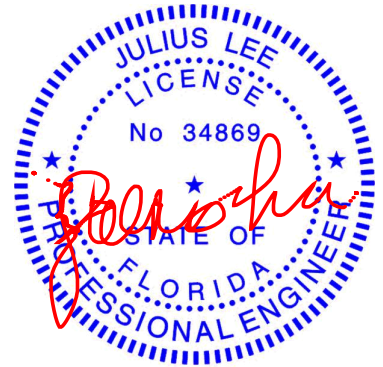
REACTIONS (size) 5= Mechanical, 8= Mechanical
Max Grav 5=260 (LC 1), 8=260 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-36/0, 4-5=-254/0, 1-2=0/0, 2-3=-209/0, 3-4=-132/0
BOT CHORD 7-8=0/163, 6-7=0/243, 5-6=0/0
WEBS 2-8=-271/0, 2-7=0/83, 3-7=-62/0, 3-6=-201/0, 4-6=0/219

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10'-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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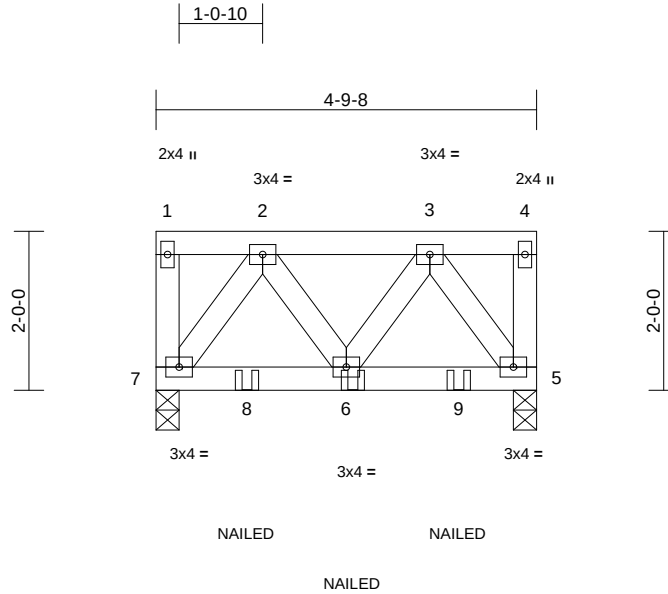
Job	Truss	Truss Type	Qty	Ply	Christ Central	T40650164
0326-006 - 16 OC	F15	Floor Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:53

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Scale = 1:29

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	0.04	Vert(LL)	0.00	6-7	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 58 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=0-3-8, 7=0-3-8
Max Grav 5=588 (LC 1), 7=569 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

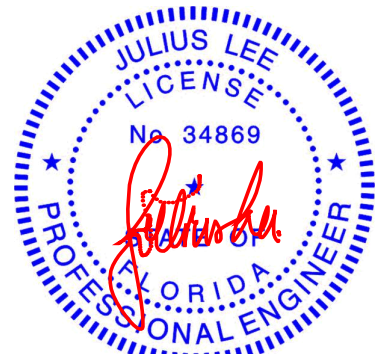
TOP CHORD 1-7=-34/0, 4-5=-34/0, 1-2=0/0, 2-3=-469/0, 3-4=0/0
BOT CHORD 6-7=0/298, 5-6=0/298
WEBS 2-7=-519/0, 2-6=0/327, 3-6=0/327, 3-5=-519/0

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-7=-7, 1-4=-80
Concentrated Loads (lb)
Vert: 6=-256 (F), 8=-256 (F), 9=-256 (F)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Tue Mar 31 08:06:54 Page: 1
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LUMBER

1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 5-7=-7, 1-4=-80
Concentrated Loads (lb)
Vert: 6=-256 (B), 8=-256 (B), 9=-256 (B)

BRACING

REACTIONS (size) 5= Mechanical, 7= Mechanical
Max Gray 5=588 (LC 1). 7=569 (LC 1)

FORCES

FORCES	(a) Maximum Compression/maximum Tension
TOP CHORD	1-7=-34/0, 4-5=-34/0, 1-2=0/0, 2-3=-469/0, 3-4=0/0
BOT CHORD	6-7=0/298, 5-6=0/298
WEBS	2-7=-519/0, 2-6=0/327, 3-6=0/327, 3-5=-519/0

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard



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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
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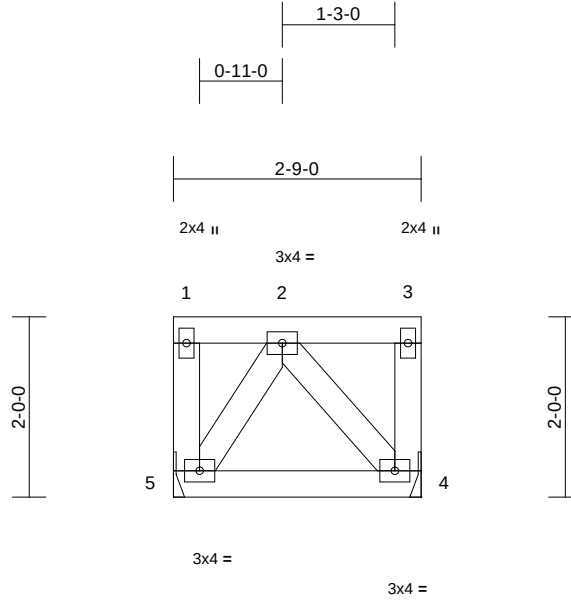
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Christ Central
0326-006 - 16 OC	F17	Floor	10	1	T40650166
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:25.6

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 18 lb	FT = 11%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or
2-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical
Max Grav 4=107 (LC 1), 5=107 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-5=-30/0, 3-4=-46/0, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/43
WEBS 2-4=-67/0, 2-5=-81/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 1, 2026

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

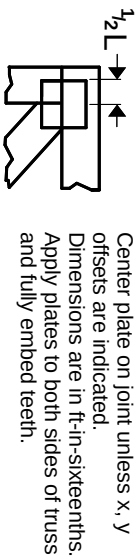
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MiTek®

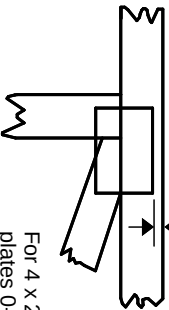
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Symbols

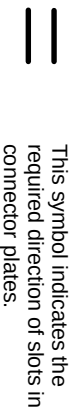
PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

PLATE SIZE

4 X 4

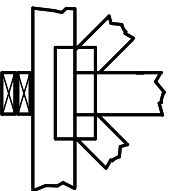
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

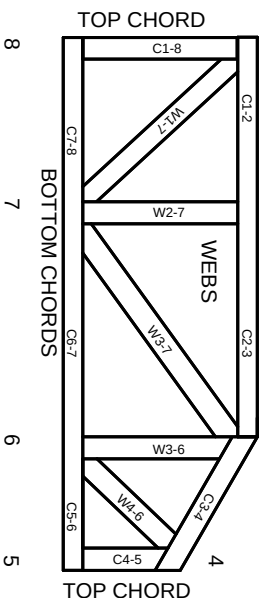
Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 2 3 Joint ID typ.



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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MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

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.