



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

RE: 1224-054 with attic - Holloway

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: LDM Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City 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 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 73 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.

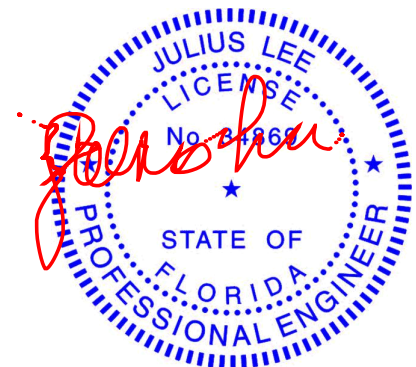
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T36050240	A01	1/14/25	23	T36050262	C03	1/14/25
2	T36050241	A02	1/14/25	24	T36050263	C04	1/14/25
3	T36050242	A03	1/14/25	25	T36050264	C05	1/14/25
4	T36050243	A04	1/14/25	26	T36050265	C06	1/14/25
5	T36050244	A05	1/14/25	27	T36050266	C07	1/14/25
6	T36050245	A06	1/14/25	28	T36050267	C08	1/14/25
7	T36050246	A07	1/14/25	29	T36050268	CJ01	1/14/25
8	T36050247	A08	1/14/25	30	T36050269	CJ02	1/14/25
9	T36050248	A09	1/14/25	31	T36050270	D01	1/14/25
10	T36050249	A10	1/14/25	32	T36050271	D02	1/14/25
11	T36050250	A11	1/14/25	33	T36050272	D03	1/14/25
12	T36050251	A12	1/14/25	34	T36050273	D04	1/14/25
13	T36050252	A13	1/14/25	35	T36050274	D05	1/14/25
14	T36050253	A14	1/14/25	36	T36050275	E01	1/14/25
15	T36050254	B01	1/14/25	37	T36050276	E02	1/14/25
16	T36050255	B02	1/14/25	38	T36050277	E03	1/14/25
17	T36050256	B03	1/14/25	39	T36050278	F01	1/14/25
18	T36050257	B04	1/14/25	40	T36050279	F02	1/14/25
19	T36050258	B05	1/14/25	41	T36050280	F03	1/14/25
20	T36050259	B06	1/14/25	42	T36050281	F04	1/14/25
21	T36050260	C01	1/14/25	43	T36050282	F05	1/14/25
22	T36050261	C02	1/14/25	44	T36050283	G01	1/14/25



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, 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.



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

January 14, 2025



RE: 1224-054 with attic - Holloway

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: LDM Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FL

No.	Seal#	Truss Name	Date
45	T36050284	G02	1/14/25
46	T36050285	G03	1/14/25
47	T36050286	G04	1/14/25
48	T36050287	G05	1/14/25
49	T36050288	J01	1/14/25
50	T36050289	J01A	1/14/25
51	T36050290	J02	1/14/25
52	T36050291	J03	1/14/25
53	T36050292	J04	1/14/25
54	T36050293	J05	1/14/25
55	T36050294	J06	1/14/25
56	T36050295	J07	1/14/25
57	T36050296	J08	1/14/25
58	T36050297	J09	1/14/25
59	T36050298	J10	1/14/25
60	T36050299	J11	1/14/25
61	T36050300	J12	1/14/25
62	T36050301	J16	1/14/25
63	T36050302	J18	1/14/25
64	T36050303	M01	1/14/25
65	T36050304	M02	1/14/25
66	T36050305	M03	1/14/25
67	T36050306	M04	1/14/25
68	T36050307	PB01X	1/14/25
69	T36050308	PB02	1/14/25
70	T36050309	PB03	1/14/25
71	T36050310	PB04	1/14/25
72	T36050311	PB05	1/14/25
73	T36050312	PB06	1/14/25

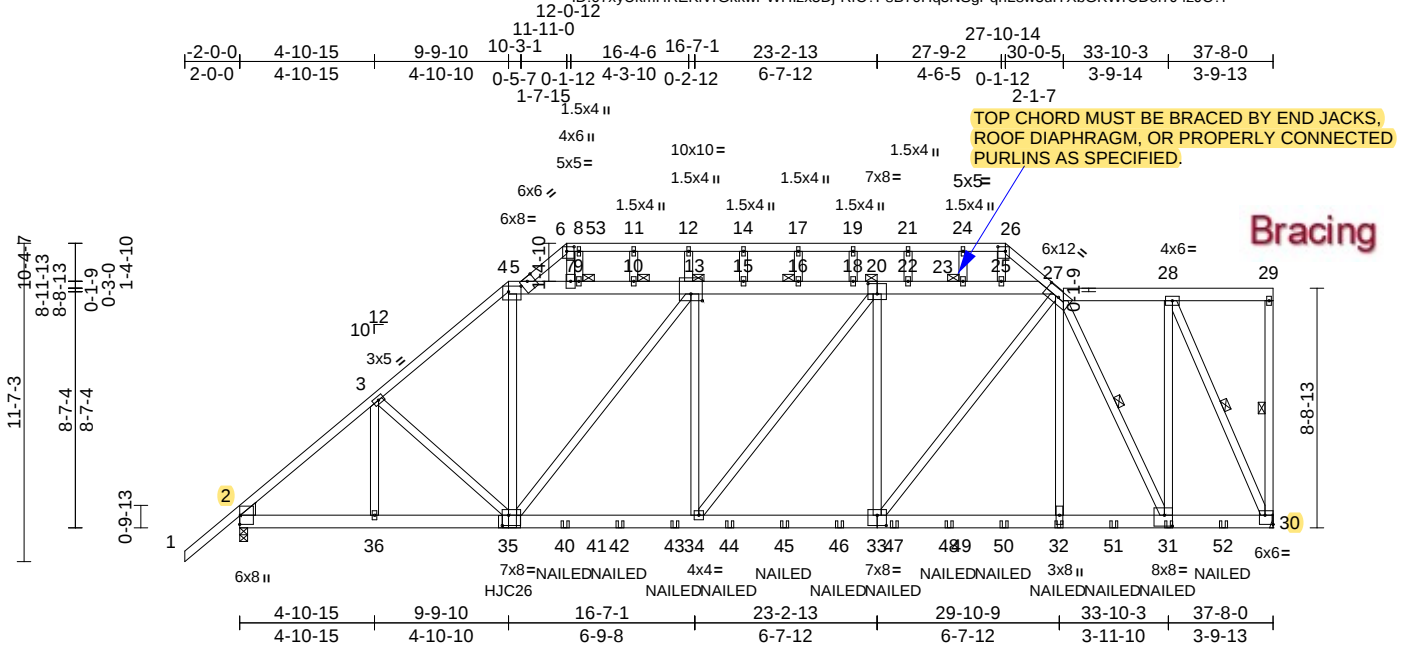
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050240
1224-054 with attic	A01	Roof Special Girder	1	2	Job Reference (optional)	

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

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Scale = 1:84

[4:0-5-7,0-2-7], [6:0-3-4,0-2-0], [13:0-5-0,0-3-0], [20:0-4-0,0-4-8], [26:0-3-4,0-2-0], [27:0-6-8,0-3-0], [30:Edge,0-4-0], [31:0-3-8,0-4-12], [33:0-4-0,0-4-8],

Plate Offsets (X, Y): [35:0-2-12,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.14	34-35	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.22	34-35	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.07	30	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 765 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-20,27-29,20-27:2x6
SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 29-30, 27-31, 28-30
JOINTS 1 Brace at Jt(s): 13, 20, 23, 16, 10, 9

REACTIONS (size) 2=0-3-8, 30= Mechanical
Max Horiz 2=301 (LC 7)
Max Uplift 2=-1035 (LC 8), 30=-1208 (LC 8)
Max Grav 2=4558 (LC 13), 30=4851 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-3=-5929/1378, 3-4=-6093/1569, 4-5=-4610/1227, 5-7=-3768/1030, 7-9=-3691/1010, 9-10=-3691/1010, 10-13=-3691/1010, 13-15=-4559/1236, 15-16=-4559/1236, 16-18=-4559/1236, 18-22=-4559/1236, 22-23=-4214/1154, 23-25=-4214/1154, 25-27=-4267/1167, 27-28=-2093/599, 28-29=-97/84, 29-30=-60/56, 5-6=-1195/301, 6-8=-982/264, 8-11=-982/264, 11-12=-982/264, 12-14=-975/263, 14-17=-975/263, 17-19=-975/263, 19-21=-975/263, 21-24=-975/263, 24-26=-975/263, 26-27=-1188/297

BOT CHORD 2-36=-1122/4584, 34-36=-1378/5582, 32-34=-1293/5222, 31-32=-939/3730, 30-31=-542/2059
WEBS 3-36=-459/222, 3-35=-211/392, 4-35=-868/3322, 13-35=-1481/361, 13-34=-294/1029, 20-34=-139/587, 20-33=-631/130, 27-33=-620/2520, 27-32=-300/1163, 27-31=-3789/939, 28-31=-1051/4066, 28-30=-4993/1256, 6-7=-199/802, 25-26=-161/650, 23-24=-141/34, 21-22=-111/46, 18-19=-133/40, 16-17=-73/23, 14-15=-140/32, 10-11=-139/32, 8-9=-184/43, 12-13=-91/87

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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.2.
- Refer to girder(s) for truss to girder connections.
- Provide mechanical connection by others of truss to bearing plate capable of withstanding 1208 lb uplift at joint 30 and 1035 lb uplift at joint 21.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 14, 2025

Continued on page 2

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)

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

Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	A01	Roof Special Girder	1	2	T36050240
			Job Reference (optional)		

- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 9-10-0 from the left end to connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

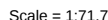
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-5=-60, 27-29=-60, 30-37=-20,
5-6=-60, 6-26=-60, 26-27=-60
Concentrated Loads (lb)
Vert: 35=-1288 (B), 32=-263 (B), 31=-263 (B),
40=-263 (B), 42=-263 (B), 43=-263 (B), 44=-263 (B),
45=-263 (B), 46=-263 (B), 47=-263 (B), 48=-263 (B),
50=-263 (B), 51=-263 (B), 52=-263 (B)

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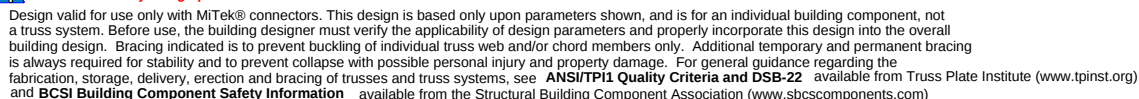
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.11	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.19	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 283 lb	FT = 20%

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-9-3,
Zone1 1-9-3 to 11-5-9, Zone2 11-5-9 to 16-9-8, Zone1
16-9-8 to 28-4-6, Zone2 28-4-6 to 33-8-5, Zone1 33-8-5
to 37-6-4 zone; cantilever left and right exposed ; end
vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 7) Bearings are assumed to be: Joint 2 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 49 lb uplift at joint
2.
- 10) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 11) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

January 14, 2025



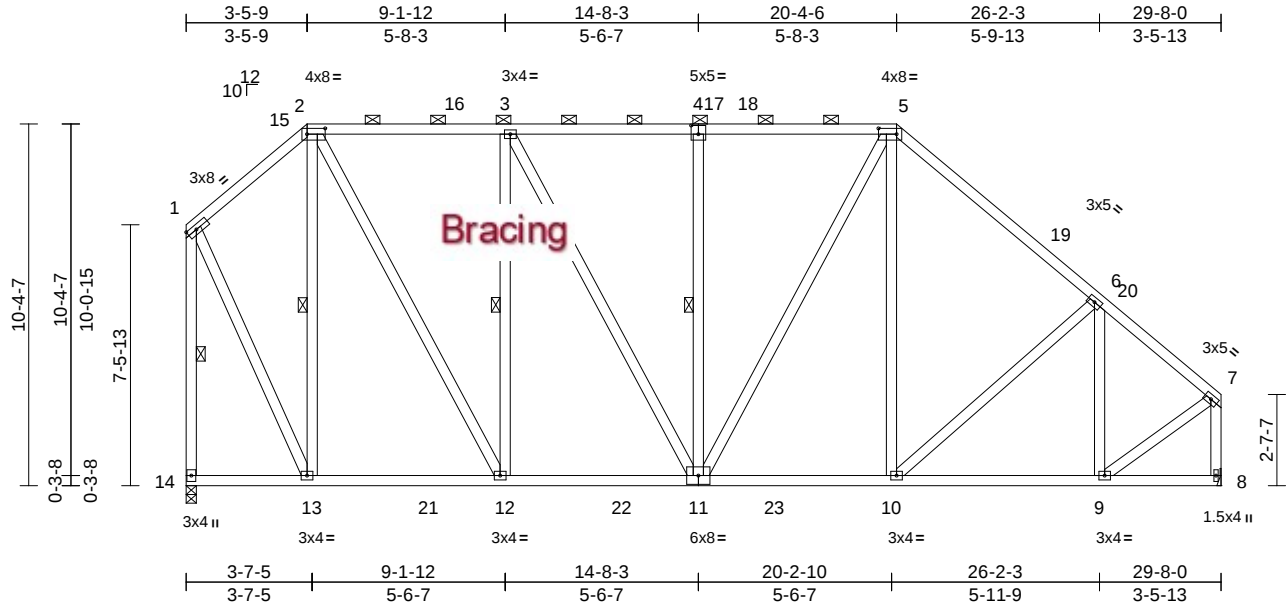
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050242
1224-054 with attic	A03	Piggyback Base	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:66
Plate Offsets (X, Y): [2:0-6-4,0-2-0], [4:0-2-8,0-3-0], [5:0-6-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.06	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.10	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 252 lb	FT = 20%

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, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): 2-5.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 2-13, 1-14, 3-12, 4-11

REACTIONS (size) 8= Mechanical, 14=0-3-8
Max Horiz 14=-271 (LC 10)
Max Uplift 14=-2 (LC 12)
Max Grav 8=1353 (LC 18), 14=1365 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-662/162, 2-3=-896/132, 3-5=-1030/127, 5-6=-1255/112, 6-7=-1105/41, 7-8=-1312/36, 1-14=-1320/50

BOT CHORD 13-14=-207/253, 12-13=-19/530,

10-12=0/956, 9-10=-35/799, 8-9=-29/40

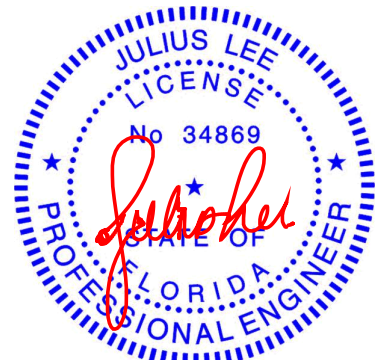
WEBS 2-13=-716/130, 5-10=0/234, 6-10=-49/152, 6-9=-402/70, 7-9=-8/965, 1-13=-53/1017, 3-12=-593/100, 2-12=-40/966, 3-11=-37/330, 4-11=-351/63, 5-11=-19/345

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 8-1-12 to 11-1-12, Zone1 11-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1 15-8-7 to 28-4-6, Zone2 28-4-6 to 32-7-4, Zone1 32-7-4 to 37-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 14 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 14.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:50 Page: 1
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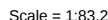


Plate Offsets (X, Y): [6:0-5-8,0-3-0], [8:0-4-0,0-4-8], [9:0-5-4,0-3-0], [11:Edge,0-0-4], [13:0-6-0,0-2-8]

LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-2-0, Zone1 2-2-0 to 15-5-9, Zone2 15-5-9 to 21-4-4, Zone1 21-4-4 to 32-4-6, Zone2 32-4-6 to 38-3-1, Zone1 38-3-1 to 41-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x6 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
WEDGE	Left: 2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-7-11 max.): 6-9.	3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
BOT CHORD	Rigid ceiling directly applied.	4) Provide adequate drainage to prevent water ponding.
REACTIONS	(size) 2=0-3-8, 11=Mechanical, 18=0-3-8 Max Horiz 2=193 (LC 11) Max Uplift 2=-162 (LC 12), 11=-2 (LC 12), 18=-89 (LC 12) Max Grav 2=246 (LC 23), 11=1021 (LC 24), 18=2220 (LC 1)	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
FORCES	(lb) - Maximum Compression/Maximum Tension	7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 18 SP No.2 .
TOP CHORD	1-2=0/54, 2-3=-8/449, 3-4=0/684, 4-5=0/1264, 5-6=-44/175, 6-7=-1518/47, 7-9=-1518/157, 9-10=-1067/192, 10-11=-1357/144	8) Refer to girder(s) for truss to truss connections.
BOT CHORD	2-20=-369/66, 19-20=-369/0, 18-19=-15/0, 17-18=-2201/332, 5-17=-1732/60, 16-17=-1052/146, 15-16=-176/181, 14-15=0/1310, 13-14=0/853, 12-13=-27/975, 11-12=-50/975	9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 11, 162 lb uplift at joint 2 and 89 lb uplift at joint 18.
WEBS	4-19=-189/745, 17-19=-762/0, 4-17=-610/248, 5-16=0/1252, 6-16=-1146/26, 6-15=0/1776, 9-13=-131/57, 7-15=-353/114, 8-15=0/431, 9-14=0/593, 8-14=-544/26, 10-13=-324/126, 10-12=0/203, 3-19=-443/228, 3-20=-126/203	10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

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:

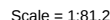
January 14, 2025



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DS-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51 Page: 1
ID: BWDm89WXHcvmE1BDf12Te7zy51p-RfC?PsB70Ha3NSaPqnL8w3uITXbGKWrCDoi7J4zJC?&



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.17	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 306 lb	FT = 20%

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDFL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 2-2-0,
Zone1 2-2-0 to 15-5-9, Zone2 15-5-9 to 21-4-4, Zone1
21-4-4 to 32-4-6, Zone2 32-4-6 to 38-3-1, Zone1 38-3-1
to 41-8-0 zone; cantilever left and right exposed ; end
vertical left and right exposed; porch left exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 2 lb uplift at joint
11, 162 lb uplift at joint 2 and 89 lb uplift at joint 18.
- 9) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 10) Graphical purlin representation does not depict the size or
the orientation of the purlin along the top and/or
bottom chord.

NOTES

1) Unbalanced roof live loads have been considered for this design.



January 14, 2025



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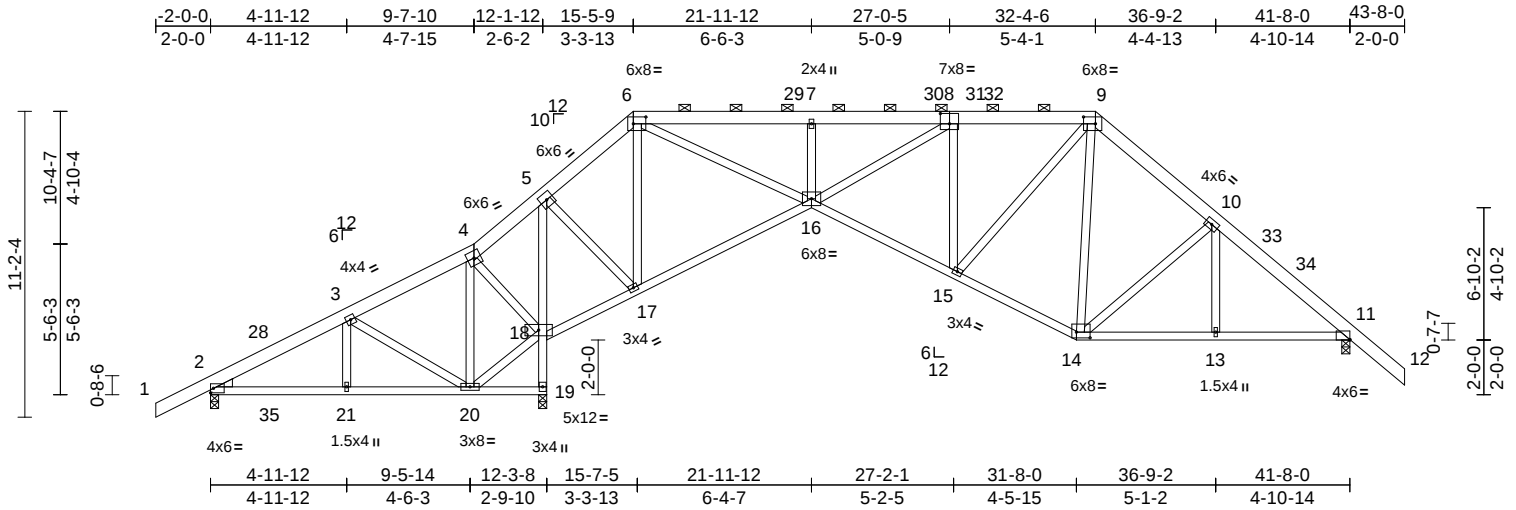
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050245
1224-054 with attic	A06	Piggyback Base	5	1	Job Reference (optional)	

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

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Scale = 1:84.3

Plate Offsets (X, Y): [6:0-5-8,0-3-0], [8:0-4-0,0-4-8], [9:0-5-4,0-3-0], [11:Edge,0-0-4], [14:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.08	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.17	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 312 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-7-14 max.): 6-9.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2-0-3-8, 11-0-3-8, 19-0-3-8
Max Horiz 2=206 (LC 11)
Max Uplift 2=-197 (LC 12), 11=-64 (LC 12),
19=-41 (LC 12)
Max Grav 2=246 (LC 23), 11=1145 (LC 24),
19=2215 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=0/447, 3-4=0/701, 4-5=0/1261,
5-6=-58/176, 6-7=-1508/27, 7-9=-1508/137,
9-10=-1053/174, 10-11=-1333/117,
11-12=0/77
BOT CHORD 2-21=-368/78, 20-21=-368/0, 19-20=-15/0,
18-19=-2195/270, 5-18=-1727/0,
17-18=-1049/147, 16-17=-183/212,
15-16=0/1299, 14-15=0/844, 13-14=0/945,
11-13=0/945
WEBS 4-20=-185/743, 18-20=-760/0,
4-18=-609/258, 5-17=0/1248, 6-17=-1141/0,
6-16=0/1765, 9-14=-135/56, 7-16=-354/114,
8-16=0/431, 9-15=0/593, 8-15=-543/4,
3-20=-442/225, 3-21=-125/203,
10-14=-295/116, 10-13=0/200

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 2-2-0,
Zone1 2-2-0 to 15-5-9, Zone2 15-5-9 to 21-4-4, Zone1
21-4-4 to 32-4-6, Zone2 32-4-6 to 38-3-1, Zone1 38-3-1
to 43-8-0 zone; cantilever left and right exposed ; end
vertical left and right exposed; porch left exposed;C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 197 lb uplift at joint
2, 41 lb uplift at joint 19 and 64 lb uplift at joint 11.
- 9) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 10) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

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:

January 14,2025

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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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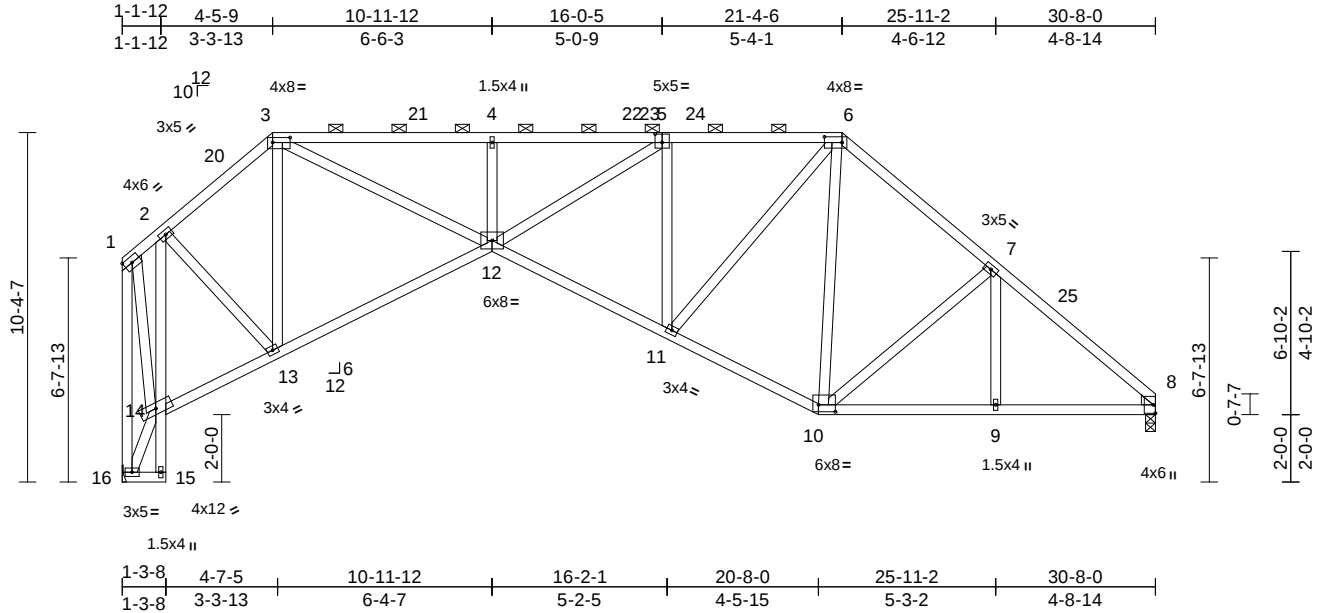
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050246
1224-054 with attic	A07	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51

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Scale = 1:68.4

Plate Offsets (X, Y): [3:0-6-4,0-1-12], [5:0-2-8,0-3-0], [6:0-6-4,0-2-0], [10:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.15	11-12	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.30	11-12	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.31	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 217 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-4 max.): 3-6.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 8=0-3-8, 16= Mechanical
Max Horiz 16=249 (LC 10)
Max Grav 8=1221 (LC 1), 16=1221 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-437/167, 2-3=-1006/99, 3-4=-2708/0, 4-6=-2708/79, 6-7=-1361/105, 7-8=-1623/53, 1-16=-1293/77

BOT CHORD 15-16=-8/46, 14-15=-88/89, 2-14=-1030/118, 13-14=-95/435, 12-13=0/921, 11-12=0/1863, 10-11=0/1093, 9-10=0/1174, 8-9=-21/1174
WEBS 2-13=0/763, 3-13=-677/35, 3-12=0/2202, 6-10=-247/33, 4-12=-362/80, 5-12=0/1266, 6-11=0/999, 5-11=-985/8, 7-10=-289/77, 7-9=0/183, 14-16=-321/323, 1-14=0/959

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-2-9, Zone1 3-2-9 to 4-5-9, Zone2 4-5-9 to 8-9-9, Zone1 8-9-9 to 21-4-6, Zone2 21-4-6 to 25-11-2, Zone1 25-11-2 to 30-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

January 14, 2025

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

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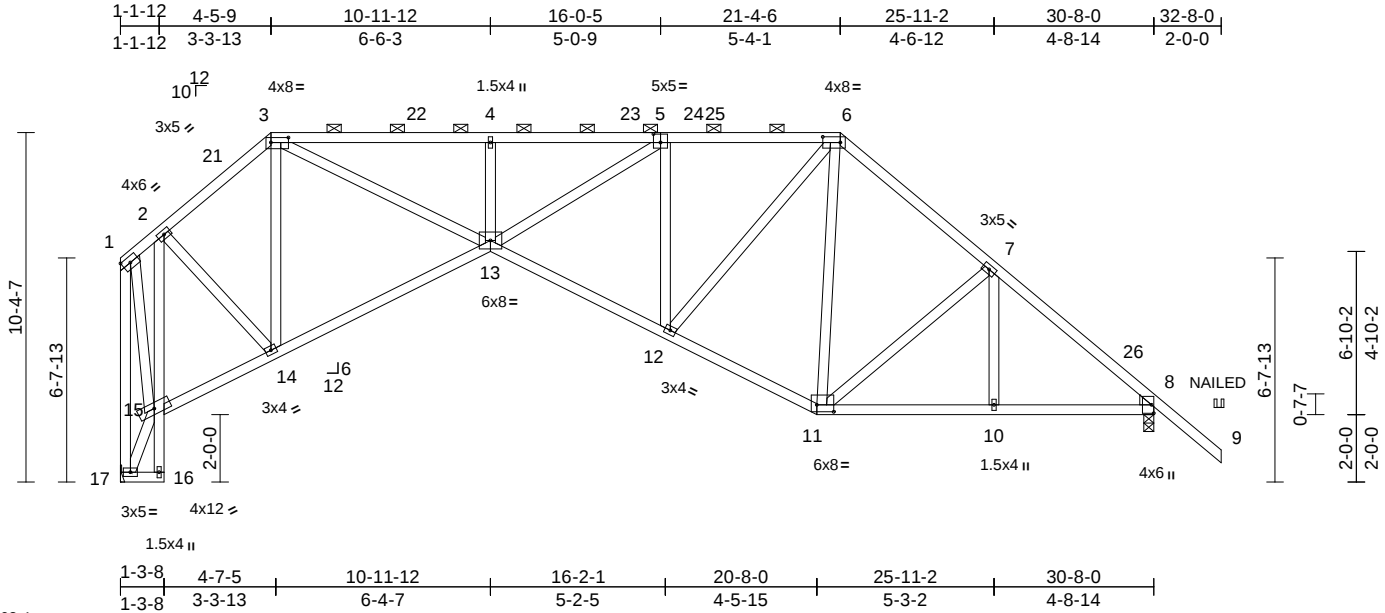
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050247
1224-054 with attic	A08	Piggyback Base	4	1	Job Reference (optional)	

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

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Scale = 1:68.4

Plate Offsets (X, Y): [3:0-6-4,0-1-12], [5:0-2-8,0-3-0], [6:0-6-4,0-2-0], [11:0-6-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.15	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.30	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.31	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-8 max.): 3-6.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 8=0-3-8, 17= Mechanical
Max Horiz 17=-270 (LC 10)
Max Uplift 8=-191 (LC 12), 17=-13 (LC 31)
Max Grav 8=1363 (LC 18), 17=1216 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-442/139, 2-3=-1007/64, 3-4=-2692/0, 4-6=-2692/67, 6-7=-1345/126, 7-8=-1586/374, 8-9=-100/148, 1-17=-1312/0
BOT CHORD 16-17=-3/47, 15-16=-86/88, 2-15=-1026/121, 14-15=-117/457, 13-14=0/940, 12-13=0/1849, 11-12=0/1080, 10-11=0/1138, 8-10=-370/1138
WEBS 2-14=0/759, 3-14=-674/36, 3-13=0/2189, 6-11=-266/36, 4-13=-362/81, 5-13=0/1285, 6-12=0/995, 5-12=-982/0, 7-11=-240/160, 7-10=-10/176, 15-17=-346/373, 1-15=0/974

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-2-9, Zone1 3-2-9 to 4-5-9, Zone2 4-5-9 to 8-9-9, Zone1 8-9-9 to 21-4-6, Zone2 21-4-6 to 25-11-2, Zone1 25-11-2 to 32-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: , Joint 8 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 8 and 13 lb uplift at joint 17.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-6=-60, 6-9=-60, 16-17=-20, 13-15=-20, 11-13=-20, 11-18=-20
Concentrated Loads (lb)
Vert: 9=-10 (B)



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

January 14, 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.sbcsccomponents.com)

MiTek®

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

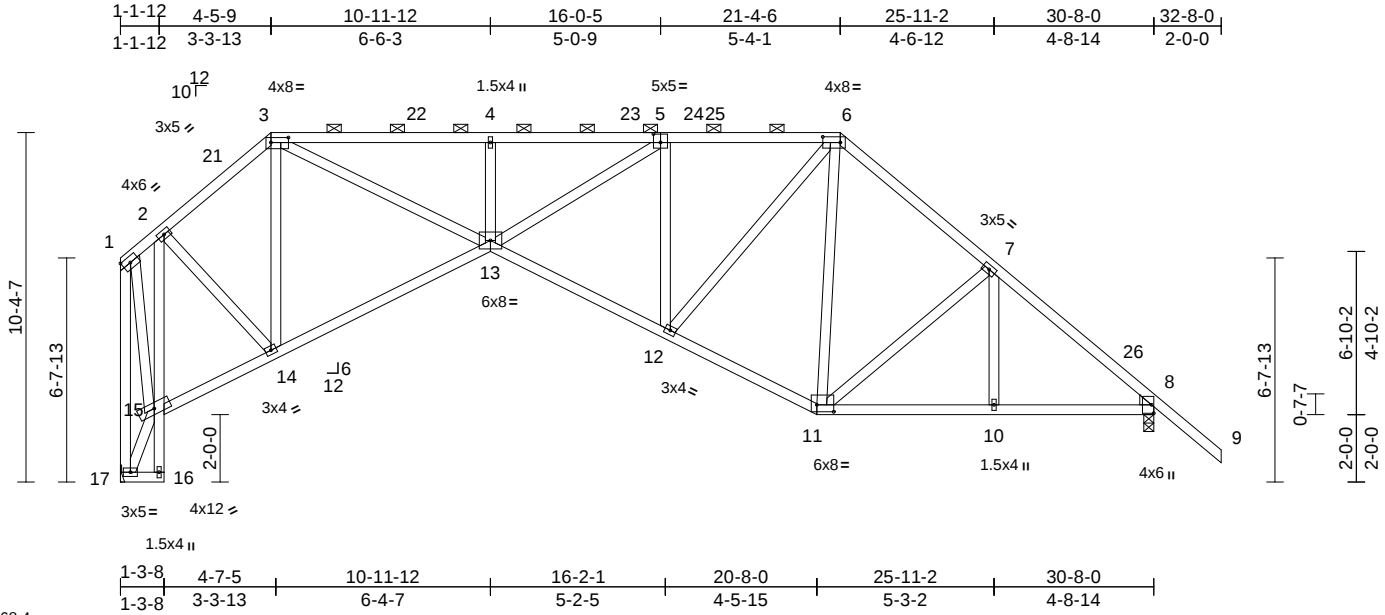
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050248
1224-054 with attic	A09	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51

Page: 1

ID:4IVQbLXFQAJUy8xlv86lQKzxOEX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f



Scale = 1:68.4									
Plate Offsets (X, Y): [3:0-6-4,0-1-12], [5:0-2-8,0-3-0], [6:0-6-4,0-2-0], [11:0-6-0,0-2-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.15 12-13	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.30 12-13	>999	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.31 8	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS					
						PLATES		GRIP	
						MT20		244/190	
						Weight: 221 lb		FT = 20%	

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-8 max.): 3-6.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 8=0-3-8, 17= Mechanical
Max Horiz 17=-270 (LC 10)
Max Uplift 8=-45 (LC 12)
Max Grav 8=1345 (LC 1), 17=1217 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-444/136, 2-3=-1014/52, 3-4=-2695/0, 4-6=-2695/30, 6-7=-1348/82, 7-8=-1592/10, 8-9=0/77, 1-17=-1320/0
BOT CHORD 16-17=-3/47, 15-16=-86/88, 2-15=-1026/110, 14-15=-115/459, 13-14=0/947, 12-13=0/1851, 11-12=0/1082, 10-11=0/1143, 8-10=0/1143
WEBS 2-14=0/760, 3-14=-674/27, 3-13=0/2191, 6-11=-250/13, 4-13=-362/81, 5-13=0/1290, 6-12=0/996, 5-12=-983/0, 7-11=-261/70, 7-10=0/176, 15-17=-347/372, 1-15=0/981

NOTES
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-2-9, Zone1 3-2-9 to 4-5-9, Zone2 4-5-9 to 8-9-9, Zone1 8-9-9 to 21-4-6, Zone2 21-4-6 to 25-11-2, Zone1 25-11-2 to 32-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: , Joint 8 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 8.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

January 14,2025

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.sbcsccomponents.com)

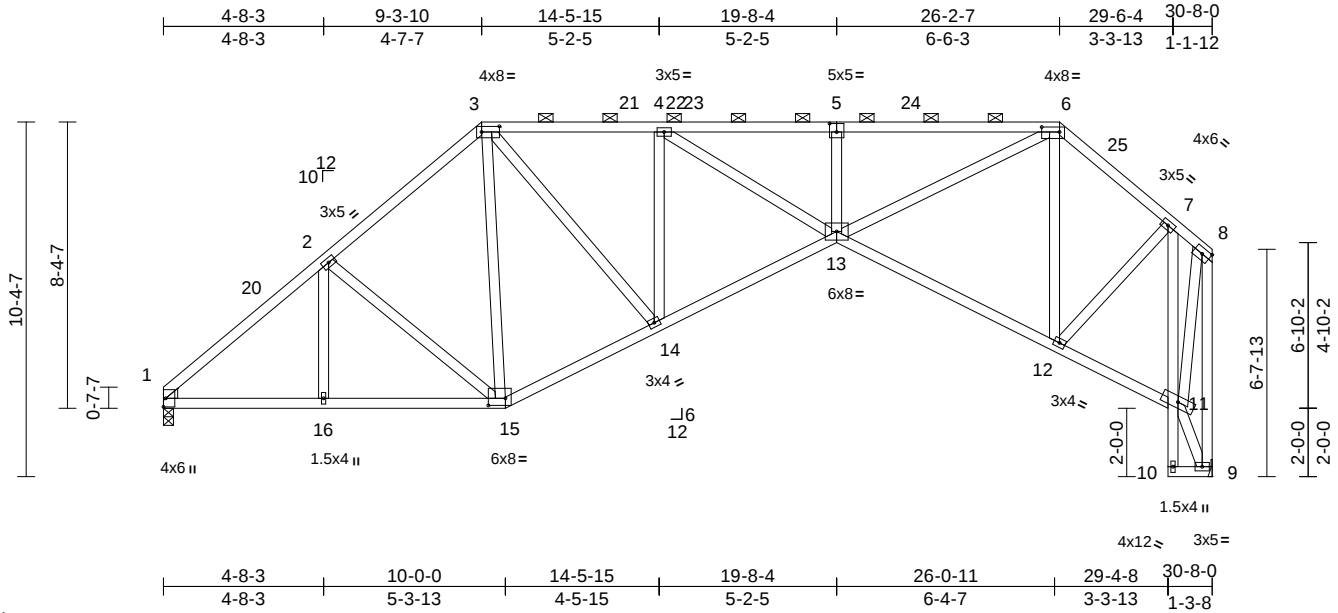
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050249
1224-054 with attic	A10	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:51
ID:NeTwCM1zmmtgNRZApFLwb_zxOEu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDof7J4zJC?f

Page: 1



Scale = 1:67.4

Plate Offsets (X, Y): [3:0-6-4,0-2-0], [5:0-2-8,0-3-0], [6:0-6-4,0-1-12], [15:0-6-0,0-2-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.15	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.30	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.31	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 217 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-13 max.): 3-6.
BOT CHORD Rigid ceiling directly applied.

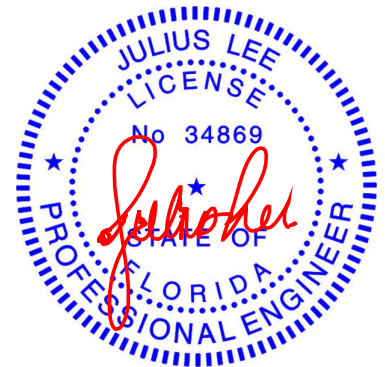
REACTIONS (size) 1=0-3-8, 9= Mechanical
Max Horiz 1=249 (LC 11)
Max Uplift 9=-1 (LC 12)
Max Grav 1=1221 (LC 1), 9=1221 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1624/48, 2-3=-1363/100, 3-4=-1627/122, 4-6=-2709/232, 6-7=-1003/86, 7-8=-346/119, 8-9=-1146/107
BOT CHORD 1-16=-181/1185, 15-16=-177/1185, 14-15=-137/1092, 13-14=-181/1840, 12-13=-150/844, 11-12=-124/310, 10-11=-84/84, 7-11=-1030/173, 9-10=-3/33
WEBS 2-15=-288/77, 3-15=-247/67, 6-13=-158/2204, 6-12=-677/91, 7-12=-19/762, 5-13=-368/79, 4-13=-130/1273, 3-14=-57/1005, 4-14=-979/119, 2-16=0/182, 9-11=-249/232, 8-11=-180/900

NOTES
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-13, Zone1 3-0-13 to 9-3-10, Zone2 9-3-10 to 13-7-11, Zone1 13-7-11 to 26-2-7, Zone3 26-2-7 to 30-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: Joint 1 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 9.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

January 14,2025

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

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MiTek®

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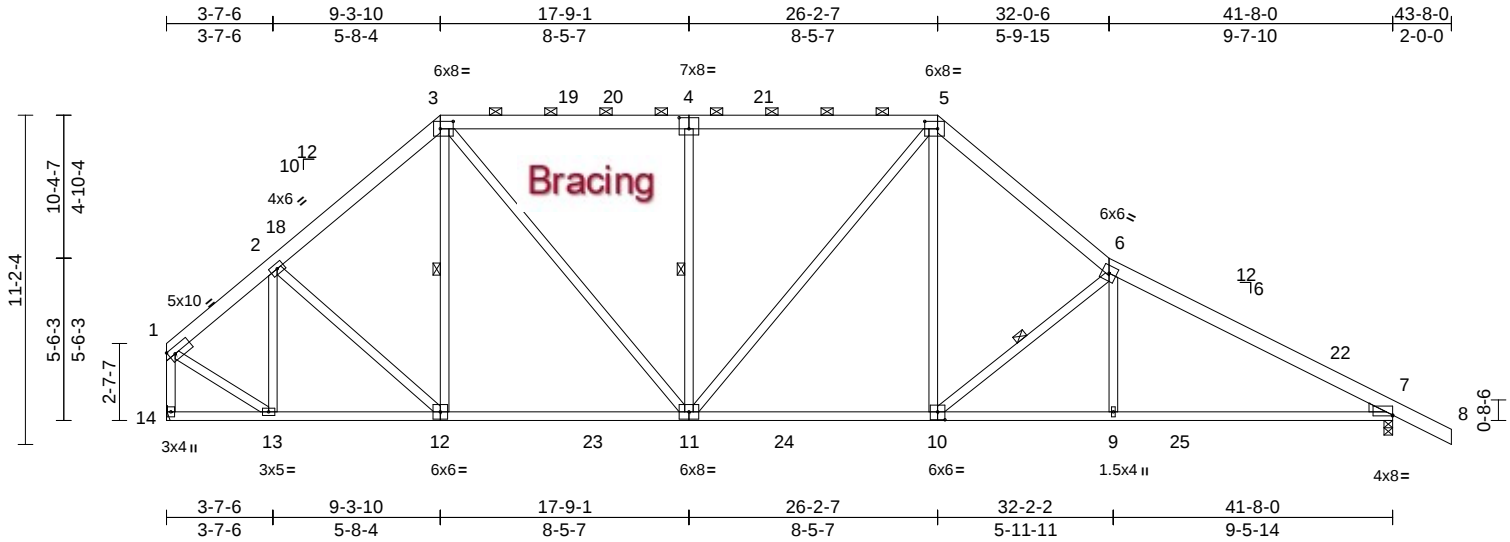
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050250
1224-054 with attic	A11	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52

Page: 1

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Scale = 1:78.3

Plate Offsets (X, Y): [3:0-5-4,0-3-0], [4:0-4-0,0-4-8], [5:0-5-4,0-3-0], [7:Edge,0-0-6], [10:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.24	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.43	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 306 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 10-7:2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-13 max.): 3-5.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 3-12, 4-11, 6-10

REACTIONS (size) 7=0-3-8, 14= Mechanical
Max Horiz 14=241 (LC 10)
Max Uplift 7=-48 (LC 12)
Max Grav 7=2051 (LC 18), 14=1904 (LC 17)

FORCES

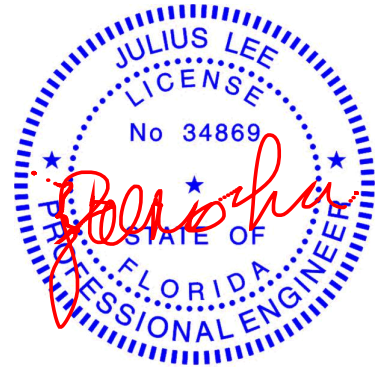
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1611/146, 2-3=-1934/245, 3-5=-2010/266, 5-6=-2594/266, 6-7=-3319/214, 7-8=0/54, 1-14=-1843/170
BOT CHORD 13-14=-174/230, 9-13=-89/2828, 7-9=-142/2836
WEBS 2-13=-630/105, 2-12=0/359, 3-12=-63/214, 3-11=-54/981, 4-11=-561/134, 5-11=-30/308, 5-10=-44/1152, 6-10=-1293/189, 6-9=0/320, 1-13=-89/1373

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 2-6-9 to 6-8-9, Zone1 6-8-9 to 11-8-7, Zone2 11-8-7 to 17-7-2, Zone1 17-7-2 to 28-7-4, Zone3 28-7-4 to 34-5-3, Zone1 34-5-3 to 46-0-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearings are assumed to be: , Joint 7 SP No.1 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 7.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

January 14,2025

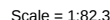
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52 Page: 1
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[illegible]

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-1-12 to 4-3-12,
Zone1 4-3-12 to 9-3-10, Zone2 9-3-10 to 15-2-6, Zone1
15-2-6 to 26-2-7, Zone3 26-2-7 to 32-0-6, Zone1 32-0-6
to 43-8-0 zone; cantilever left and right exposed ; end
vertical left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 7) Bearings are assumed to be: , Joint 9 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 49 lb uplift at joint
9.
- 10) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 11) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

1) Unbalanced roof live loads have been considered for this design.



January 14, 2025



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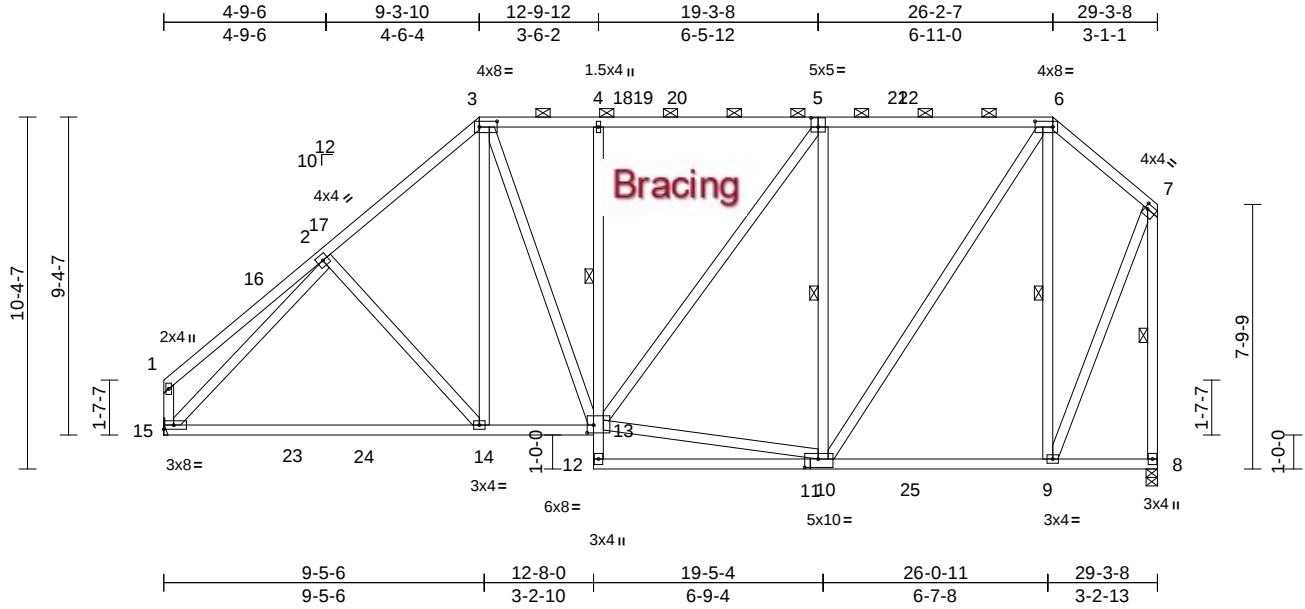
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050252
1224-054 with attic	A13	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52
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Page: 1



Scale = 1:67.9												
Plate Offsets (X, Y): [3:0-6-4,0-2-0], [5:0-2-8,0-3-4], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [11:0-4-12,0-3-0], [13:0-2-4,0-2-12]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.23	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.41	14-15	>850	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 251 lb	FT = 20%

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, except end verticals, and 2-0-0 oc purlins (5-5-14 max.): 3-6.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 4-13
WEBS 1 Row at midpt 5-10, 6-9, 7-8

REACTIONS
(size) 8=0-4-0, 15= Mechanical
Max Horiz 15=267 (LC 11)
Max Uplift 8=-2 (LC 12)
Max Grav 8=1309 (LC 17), 15=1321 (LC 17)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-386/54, 2-3=-1310/109, 3-4=-1034/124, 4-6=-1035/142, 6-7=-592/177, 1-15=-330/45, 7-8=-1286/46
BOT CHORD 14-15=-235/1061, 13-14=-151/1013, 12-13=0/124, 4-13=-308/59, 10-12=0/173, 9-10=-94/404, 8-9=-107/118
WEBS 2-14=-82/123, 3-14=0/402, 3-13=-47/339, 10-13=-150/754, 5-13=-59/290, 5-10=-640/131, 6-10=-30/918, 6-9=-716/141, 2-15=-1096/42, 7-9=-55/1026

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-3-10, Zone2 9-3-10 to 13-6-9, Zone1 13-6-9 to 26-2-7, Zone3 26-2-7 to 29-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearings are assumed to be: , Joint 8 SP No.2 .
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 8.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

January 14,2025

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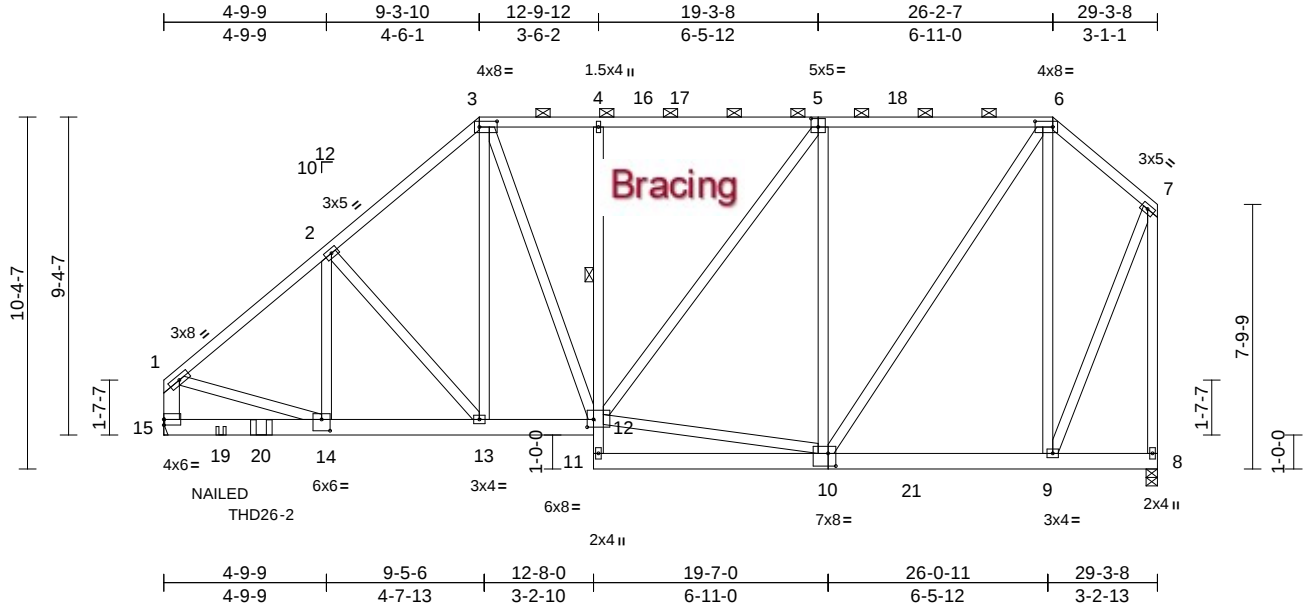
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050253
1224-054 with attic	A14	Piggyback Base Girder	1	2	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52

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Scale = 1:67.9

Plate Offsets (X, Y): [3:0-6-4,0-2-0], [5:0-2-8,0-3-0], [6:0-6-4,0-2-0], [10:0-2-12,0-4-8], [12:0-2-4,0-2-12], [14:0-3-0,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.06	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.10	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 557 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 15-12:2x6 SP 2400F 2.0E, 4-11:2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 15-1:2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

1 Row at midpt 4-12

REACTIONS	(size) 8=0-4-0, 15= Mechanical
	Max Horiz 15=265 (LC 7)
	Max Grav 8=1585 (LC 13), 15=4264 (LC 13)

FORCES

TOP CHORD	(lb) - Maximum Compression/Maximum Tension
	1-2=-3365/0, 2-3=-2027/0, 3-4=-1550/0, 4-6=-1549/50, 6-7=-704/94, 1-15=-2782/0, 7-8=-1557/0
BOT CHORD	14-15=-114/842, 13-14=0/2635, 12-13=0/1571, 11-12=0/122, 4-12=-308/58, 9-11=-31/484, 8-9=-82/77
WEBS	2-14=0/1772, 2-13=-1619/0, 3-13=0/986, 3-12=-124/191, 10-12=-1/1060, 5-12=0/686, 5-10=-937/34, 6-10=0/1258, 6-9=-911/36, 1-14=0/1879, 7-9=0/1231

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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc, 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 8 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 2-10-8 from the left end 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)

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 6-7=-60, 12-15=-20, 8-11=-20
Concentrated Loads (lb)
Vert: 19=-271 (B), 20=-2628 (B)



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

January 14, 2025

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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	B01	Attic Supported Gable	1	1	Job Reference (optional)	T36050254

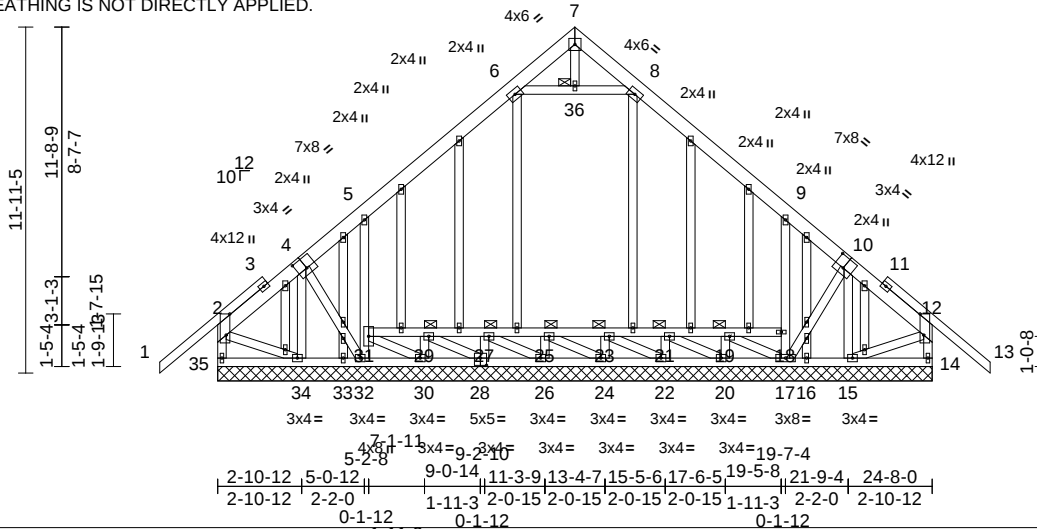
Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:52

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LATERALLY BRACE TOP CHORD WITH PURLINS AT 2'-0" o/c
IF STRUCTURAL SHEATHING IS NOT DIRECTLY APPLIED.



Scale = 1:79.5

Plate Offsets (X, Y): [2:0-8-12,0-1-8], [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [12:0-8-12,0-1-8], [28:0-2-8,0-3-0]

Loading	(psf)	Spacing	2'-0"	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	15	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 306 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 1-3,11-13:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 36, 29, 27, 25, 23, 21, 19

REACTIONS (size) 14=24-8-0, 15=24-8-0, 16=24-8-0, 17=24-8-0, 20=24-8-0, 22=24-8-0, 24=24-8-0, 26=24-8-0, 28=24-8-0, 30=24-8-0, 32=24-8-0, 33=24-8-0, 34=24-8-0, 35=24-8-0
Max Horiz 35=264 (LC 11)
Max Uplift 16=-1 (LC 16), 17=-148 (LC 12), 32=-143 (LC 12), 33=-2 (LC 16)
Max Grav 14=683 (LC 1), 15=261 (LC 18), 16=9 (LC 3), 17=366 (LC 19), 20=292 (LC 16), 22=253 (LC 16), 24=252 (LC 16), 26=263 (LC 16), 28=254 (LC 16), 30=284 (LC 16), 32=322 (LC 18), 33=8 (LC 11), 34=245 (LC 18), 35=682 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-35=-653/22, 1-2=0/71, 2-5=-573/0, 5-6=-710/86, 6-7=-158/3, 7-8=-160/3, 8-9=-710/86, 9-12=-569/0, 12-13=0/71, 12-14=-654/19

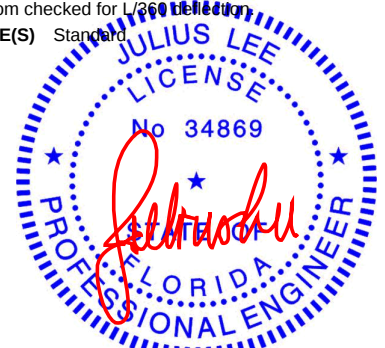
BOT CHORD 34-35=-266/232, 33-34=0/384, 32-33=0/384, 30-32=0/468, 26-30=0/299, 24-26=0/246, 22-24=0/249, 20-22=0/266, 17-20=0/317, 16-17=0/359, 15-16=0/359, 14-15=-48/32, 29-31=0/179, 27-29=0/226, 25-27=0/232, 23-25=0/229, 21-23=0/212, 19-21=0/161, 18-19=0/9
17-18=-462/108, 9-18=-427/118, 31-32=-383/137, 5-31=-428/116, 6-36=-377/152, 8-36=-377/152, 7-36=-3/68, 4-32=0/221, 10-17=0/221, 12-15=0/422, 10-15=-347/0, 2-34=0/429, 4-34=-339/0, 30-31=-188/0, 29-30=-126/0, 28-29=-54/0, 27-28=-115/0, 26-27=-20/0, 25-26=-126/0, 24-25=0/4, 23-24=-129/0, 22-23=0/18, 21-22=-133/0, 20-21=0/58, 19-20=-194/0, 17-19=0/170

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal member).

- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-36, 8-36
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 17, 143 lb uplift at joint 32, 2 lb uplift at joint 33 and 1 lb uplift at joint 16.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Attic room checked for L/360 deflection.

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:

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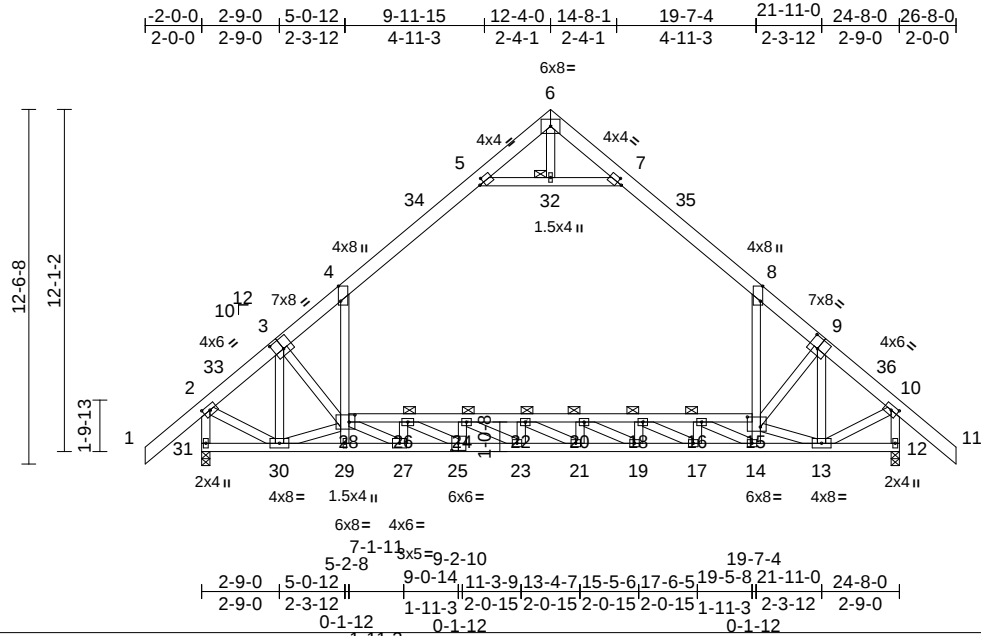
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050255
1224-054 with attic	B02	Attic	8	1	Job Reference (optional)	

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

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Scale = 1:81.5

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-4-0,0-4-8], [4:0-6-5,Edge], [5:0-2-1,0-2-0], [6:0-2-1,0-2-0], [7:0-2-1,0-2-0], [8:0-6-5,Edge], [9:0-4-0,0-4-8], [10:0-2-14,0-2-0], [15:0-5-8,0-4-4], [25:0-2-12,0-3-0], [28:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.33	20-22	>889	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.59	20-22	>499	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Attic	-0.16	15-28	>999	360	Weight: 237 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* 1-3,9-11:2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 25-12:2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 32, 26, 24, 22, 20, 18, 16

REACTIONS (size) 12=0-3-8, 31=0-3-8
Max Horiz 31=280 (LC 11)
Max Grav 12=1789 (LC 19), 31=1780 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 10-12=-1754/0, 2-31=-1749/0, 1-2=0/82, 2-4=-1829/0, 4-5=-1156/4, 5-6=0/393, 6-7=0/390, 7-8=-1159/2, 8-10=-1859/0, 10-11=0/82

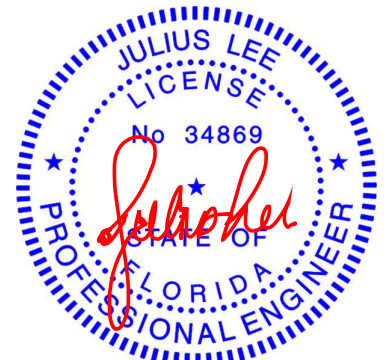
BOT CHORD 30-31=-254/259, 29-30=-28/1628, 27-29=-39/1631, 23-27=0/3612, 21-23=0/4124, 19-21=0/4136, 17-19=0/3623, 14-17=0/2643, 13-14=0/1545, 12-13=-16/43, 26-28=-1661/0, 24-26=-2627/0, 22-24=-3228/0, 20-22=-3240/0, 18-20=-2727/0, 16-18=-1718/0, 15-16=-678/365

WEBS
28-29=0/97, 4-28=0/1108, 14-15=0/850, 8-15=0/1113, 5-32=-1539/0, 7-32=-1539/0, 6-32=0/137, 3-28=-283/83, 3-30=-672/0, 28-30=-448/231, 2-30=0/1323, 9-15=-269/105, 9-13=-702/0, 13-15=-527/327, 10-13=0/1326, 27-28=0/1664, 26-27=-765/0, 25-26=0/1132, 24-25=-501/0, 23-24=0/598, 22-23=-230/0, 21-22=-123/131, 20-21=-18/93, 19-20=-579/0, 18-19=0/308, 17-18=-1163/0, 16-17=0/527, 14-16=-1673/0

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -0-9-10 to 2-2-6, Zone1 2-2-6 to 13-6-6, Zone2 13-6-6 to 17-9-5, Zone1 17-9-5 to 27-10-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 3x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (10.0 psf) on member(s). 5-32, 7-32, 4-5, 7-8
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 24-26, 22-24, 20-22, 18-20, 16-18, 15-16

- 9) Bearings are assumed to be: Joint 31 SP No.2 , Joint 12 SP No.1 .
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Attic room checked for L/360 deflection.
- 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:

January 14,2025

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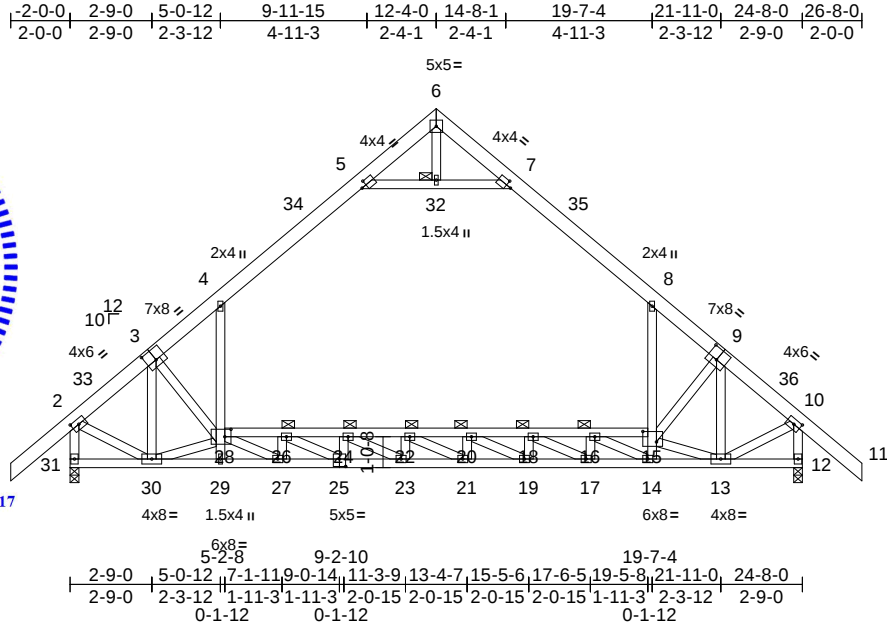
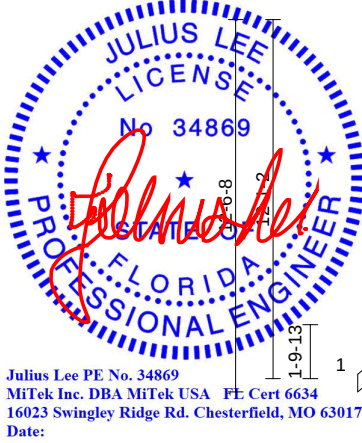
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050256
1224-054 with attic	B03	Attic	2	2	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:53

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Scale = 1:77.6

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-4-0,0-4-8], [5:0-2-1,0-2-0], [7:0-2-1,0-2-0], [9:0-4-0,0-4-8], [10:0-2-14,0-2-0], [15:0-5-8,0-4-4], [25:0-2-8,0-3-0], [28:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.16	20-22	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.30	20-22	>987	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Attic	-0.08	15-28	>999	360	Weight: 474 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 32, 26, 24, 22, 20, 18, 16

REACTIONS

(size) 12=0-3-8, 31=0-3-8
Max Horiz 31=280 (LC 11)
Max Grav 12=4019 (LC 20), 31=4011 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 10-12=-3960/0, 2-31=-3959/0, 1-2=0/82, 2-4=-4653/0, 4-5=-4403/142, 5-6=-3461/217, 6-7=-3468/216, 7-8=-4410/142, 8-10=-4627/0, 10-11=0/82
BOT CHORD 30-31=-232/281, 29-30=0/2520, 27-29=0/2510, 23-27=0/4503, 21-23=0/4968, 19-21=0/4983, 17-19=0/4480, 14-17=0/3547, 13-14=0/2085, 12-13=0/79, 26-28=-510/433, 24-26=-1488/0, 22-24=-2102/0, 20-22=-2117/0, 18-20=-1614/0, 16-18=-559/338, 15-16=-209/1963, 28-29=0/94, 4-28=-83/580, 14-15=0/1073, 8-15=-96/545, 5-32=-988/0, 7-32=-988/0, 6-32=-3/91, 3-28=-31/1089, 3-30=-1784/0, 28-30=-198/802, 2-30=0/3036, 9-15=-23/1215, 9-13=-1898/0, 13-15=-218/1202, 10-13=0/3025, 27-28=0/1686, 26-27=-769/0, 25-26=0/1128, 24-25=-502/0, 23-24=0/617, 22-23=-236/0, 21-22=-126/137, 20-21=-22/94, 19-20=-568/0, 18-19=0/315, 17-18=-1181/0, 16-17=0/507, 14-16=-2040/0

WEBS

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, 2x6 - 2 rows staggered 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, Except member 6-32 2x4 - 2 rows staggered at 0-2-0 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -0-9-10 to 2-2-6, Zone1 2-2-6 to 13-6-6, Zone2 13-6-6 to 17-9-5, Zone1 17-9-5 to 27-10-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 5-32, 7-32, 4-5, 7-8

- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 24-26, 22-24, 20-22, 18-20, 16-18, 15-16
- All bearings are assumed to be SP No.2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4522 lb down and 182 lb up at 13-6-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 12-31=-20, 16-28=-30, 15-16=-30, 5-32=-20, 7-32=-20, 1-2=-60, 2-4=-60, 4-5=-80, 5-6=-60, 6-7=-60, 7-8=-80, 8-10=-60, 10-11=-60
Concentrated Loads (lb)
Vert: 6=-2500 (F)

January 14,2025

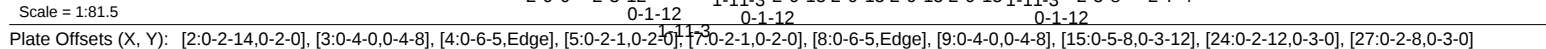
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 the 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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

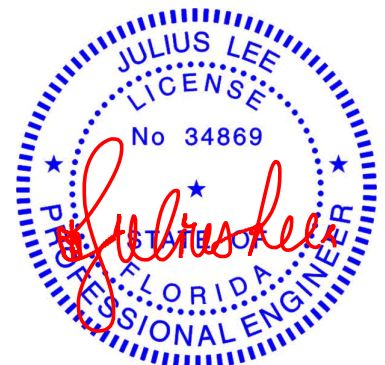
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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:53 Page: 1
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LUMBER		NOTES	
TOP CHORD	2x6 SP 2400F 2.0E *Except* 1-3,9-10:2x6 SP No.2	1)	Unbalanced roof live loads have been considered for this design.
BOT CHORD	2x4 SP No.2 *Except* 24-11:2x4 SP No.1	2)	Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -0-9-10 to 2-2-6, Zone1 2-2-6 to 13-6-6, Zone2 13-6-6 to 17-9-5, Zone1 17-9-5 to 25-8-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
BRACING		3)	Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	4)	All plates are 3x4 MT20 unless otherwise indicated.
BOT CHORD	Rigid ceiling directly applied.	5)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
JOINTS	1 Brace at Jt(s): 31, 25, 23, 21, 19, 17, 16	6)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
REACTIONS		7)	Ceiling dead load (10.0 psf) on member(s). 5-31, 7-31, 4-5, 7-8
	(size) 11=0-3-8, 30=0-3-8	8)	Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 19-21, 17-19, 16-17, 15-16
	Max Horiz 30=267 (LC 11)	9)	Bearings are assumed to be: Joint 30 SP No.2 , Joint 11 SP No.1 .
	Max Grav 11=1665 (LC 19), 30=1785 (LC 18)	10)	This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
FORCES		11)	Attic room checked for L/360 deflection.
	(lb) - Maximum Compression/Maximum Tension	LOAD CASE(S) Standard	
TOP CHORD	10-11=-1629/0, 2-30=-1753/0, 1-2=0/82, 2-4=-1839/0, 4-5=-1161/4, 5-6=0/396, 6-7=0/392, 7-8=-1163/7, 8-10=-1857/0		
BOT CHORD	29-30=-242/236, 28-29=-53/1602, 26-28=-64/1605, 22-26=0/3601, 20-22=0/4130, 18-20=0/4147, 14-18=0/3638, 13-14=0/2699, 12-13=-5/1597, 11-12=-14/35, 25-27=-1654/0, 23-25=-2627/0, 21-23=-3233/0, 19-21=-3249/0, 17-19=-2741/0, 16-17=-1759/0, 15-16=-689/343		
WEBS	27-28=0/97, 4-27=0/1113, 13-15=0/848, 8-15=0/1085, 5-31=-1551/0, 7-31=-1551/0, 6-31=0/138, 10-12=0/1327, 3-27=-281/81, 3-29=-681/0, 27-29=-438/246, 2-29=0/1328, 9-12=-715/0, 12-15=-525/292, 9-15=-278/107, 26-27=0/1669, 25-26=-767/0, 24-25=0/1137, 23-24=-503/0, 22-23=0/610, 21-22=-235/0, 20-21=-121/136, 19-20=-21/92, 18-19=-570/0, 17-18=0/303, 14-17=-1158/0, 14-16=0/526, 13-16=-1673/0		



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

January 14, 2025

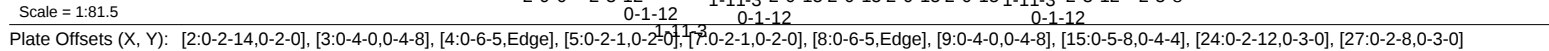


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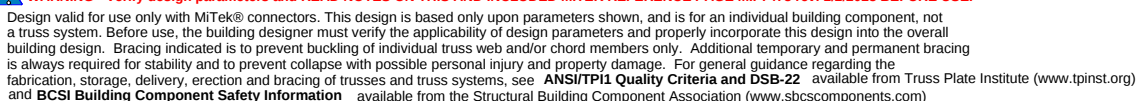


LUMBER	
TOP CHORD	2x6 SP 2400F 2.0E *Except* 1-3-9-10:2x6 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 24-11:2x4 SP No.1
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end vertically.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 31, 25, 23, 21, 19, 17, 16
REACTIONS	(size) 11= Mechanical, 30=0-3-8 Max Horiz 30=269 (LC 11) Max Grav 11=1662 (LC 19), 30=1765 (LC 18)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	10-11=-1627/0, 2-30=-1733/0, 1-2=0/82, 2-4=-1796/0, 4-5=-1141/8, 5-6=0/380, 6-7=0/375, 7-8=-1144/10, 8-10=-1819/0
BOT CHORD	29-30=-244/235, 28-29=-47/1653, 26-28=-58/1659, 22-26=0/3587, 20-22=0/4086, 18-20=0/4071, 14-18=0/3532, 13-14=0/2531, 12-13=-39/1378, 11-12=-16/35, 25-27=-1702/0, 23-25=-2637/0, 21-23=-3210/0, 19-21=-3195/0, 17-19=-2657/0, 16-17=-1617/0, 15-16=-587/451
WEBS	27-28=-0/95, 4-27=0/1079, 13-15=0/891, 8-15=0/1075, 5-31=-1502/0, 7-31=-1502/0, 6-31=0/135, 10-12=0/1289, 3-27=-294/78, 3-29=-644/0, 27-29=-482/199, 2-29=0/1310, 9-12=-856/0, 12-15=-473/369, 9-15=-177/134, 26-27=0/1637, 25-26=-751/0, 24-25=0/1104, 23-24=-488/0, 22-23=0/569, 21-22=-216/3, 20-21=-141/115, 19-20=-11/101, 18-19=-609/0, 17-18=0/323, 14-17=-1196/0, 14-16=0/535, 13-16=-1742/0

- LOAD CASE(S) Standard

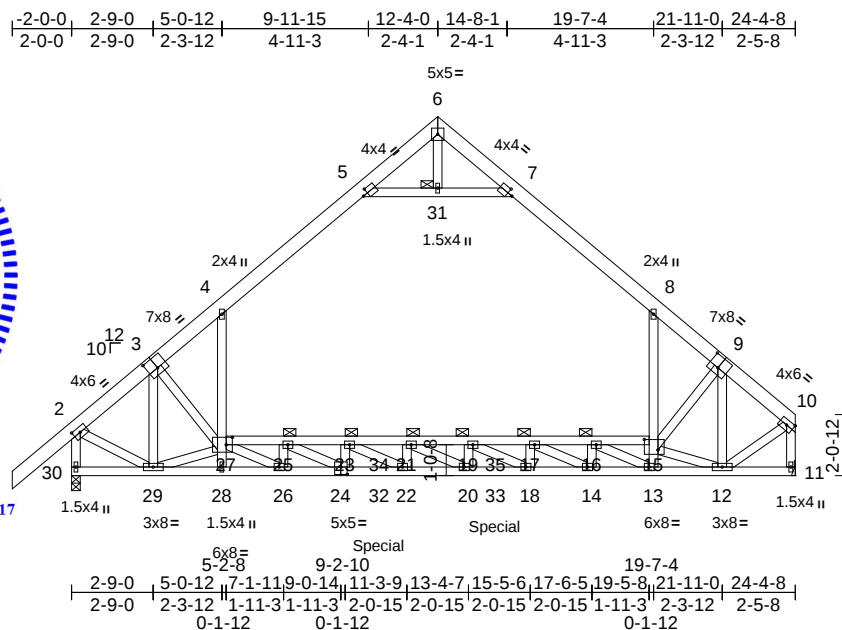


January 14, 2025



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	0.18	22-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.36	19-21	>809	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.08	15-27	>999	360	Weight: 689 lb	FT = 20%

January 14, 2025

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Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	B06	Attic Girder	1	3	T36050259
			Job Reference (optional)		

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 11-30=-20, 16-27=-30, 15-16=-30, 5-31=-20,
7-31=-20, 1-2=-60, 2-4=-60, 4-5=-80, 5-6=-60,
6-7=-60, 7-8=-80, 8-10=-60
Concentrated Loads (lb)
Vert: 32=-828 (F), 33=-325 (F)

 **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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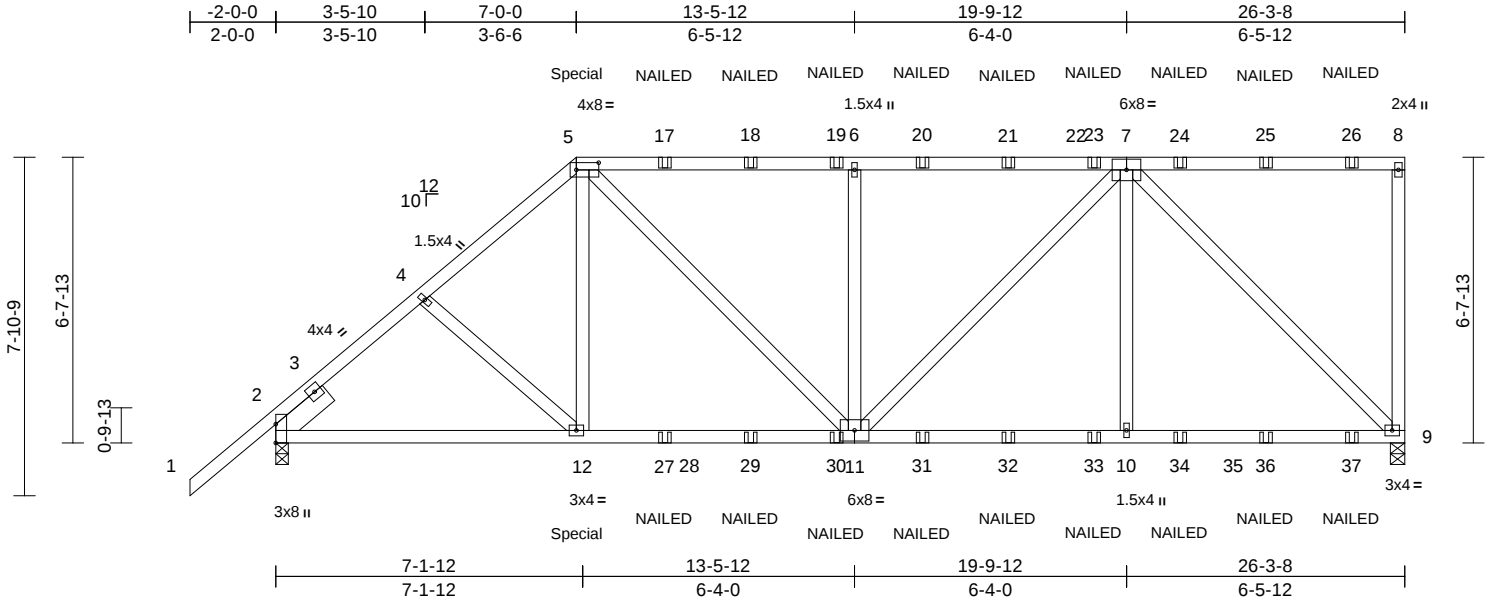
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Job	Truss	Truss Type	Qty	Ply	Holloway	T36050260
1224-054 with attic	C01	Half Hip Girder	1	2	Job Reference (optional)	

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Page: 1



Scale = 1:53.7

Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-6-4,0-2-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.07	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.15	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 341 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

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) 2=0-3-8, 9=0-4-0
Max Horiz 2=209 (LC 7)
Max Uplift 2=-387 (LC 8), 9=-315 (LC 5)
Max Grav 2=2491 (LC 13), 9=2630 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-4=-3074/492, 4-5=-2999/519, 5-6=-2872/443, 6-8=-2872/443, 8-9=-330/121
BOT CHORD 2-12=-455/2269, 10-12=-462/2360, 9-10=-308/2154
WEBS 5-12=-100/751, 5-11=-17/811, 6-11=-816/299, 7-11=-199/1062, 7-10=0/570, 7-9=-2980/374, 4-12=-87/223

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) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60

5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

6) Provide adequate drainage to prevent water ponding.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

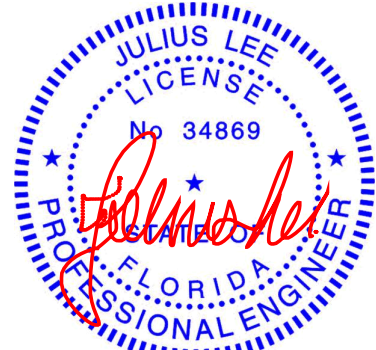
9) All bearings are assumed to be SP No.2 .

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 9 and 387 lb uplift at joint 2.

11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 217 lb down and 121 lb up at 7-0-0 on top chord, and 530 lb down and 220 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-8=-60, 9-13=-20
Concentrated Loads (lb)
Vert: 5=-154 (B), 12=-486 (B), 17=-117 (B), 18=-117 (B), 19=-117 (B), 20=-117 (B), 21=-117 (B), 23=-117 (B), 24=-117 (B), 25=-117 (B), 26=-117 (B), 27=-63 (B), 29=-63 (B), 30=-63 (B), 31=-63 (B), 32=-63 (B), 33=-63 (B), 34=-63 (B), 36=-63 (B), 37=-63 (B)



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

January 14,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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314.434.1200 / MiTek-US.com

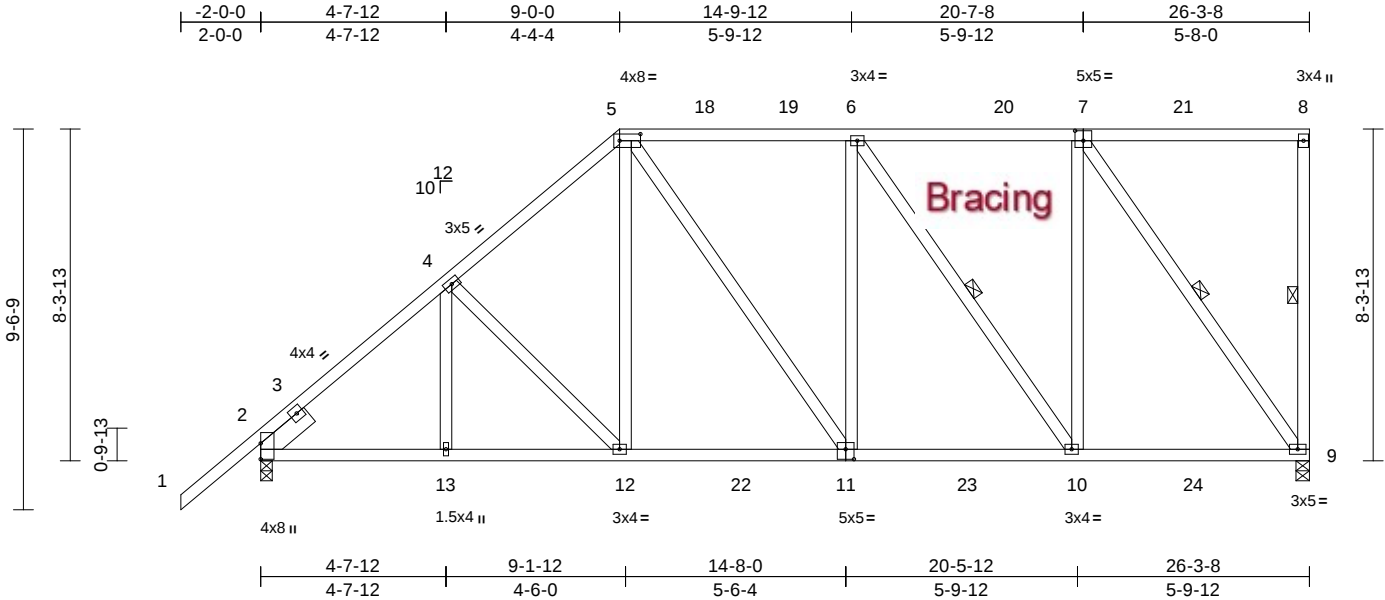
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050261
1224-054 with attic	C02	Half Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:54

Page: 1

ID:vl4ReclVAdi2c5fWFP96U5zx7G8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



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Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-6-4,0-2-0], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.06	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.11	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 193 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-9, 7-9, 6-10

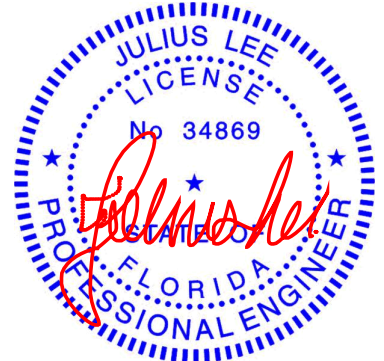
REACTIONS (size) 2=0-3-8, 9=0-4-0
Max Horiz 2=259 (LC 11)
Max Uplift 2=-45 (LC 12), 9=-24 (LC 9)
Max Grav 2=1329 (LC 17), 9=1226 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-4=-1455/24, 4-5=-1261/89, 5-6=-1013/103, 6-8=-738/124, 8-9=-141/48
BOT CHORD 2-13=-278/1135, 12-13=-249/1135, 10-12=-191/1048, 9-10=-114/725
WEBS 4-12=-228/80, 5-12=0/389, 7-9=-1226/65, 4-13=0/128, 6-11=0/185, 5-11=-19/209, 6-10=-537/64, 7-10=0/699

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 26-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 9 and 45 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 14,2025

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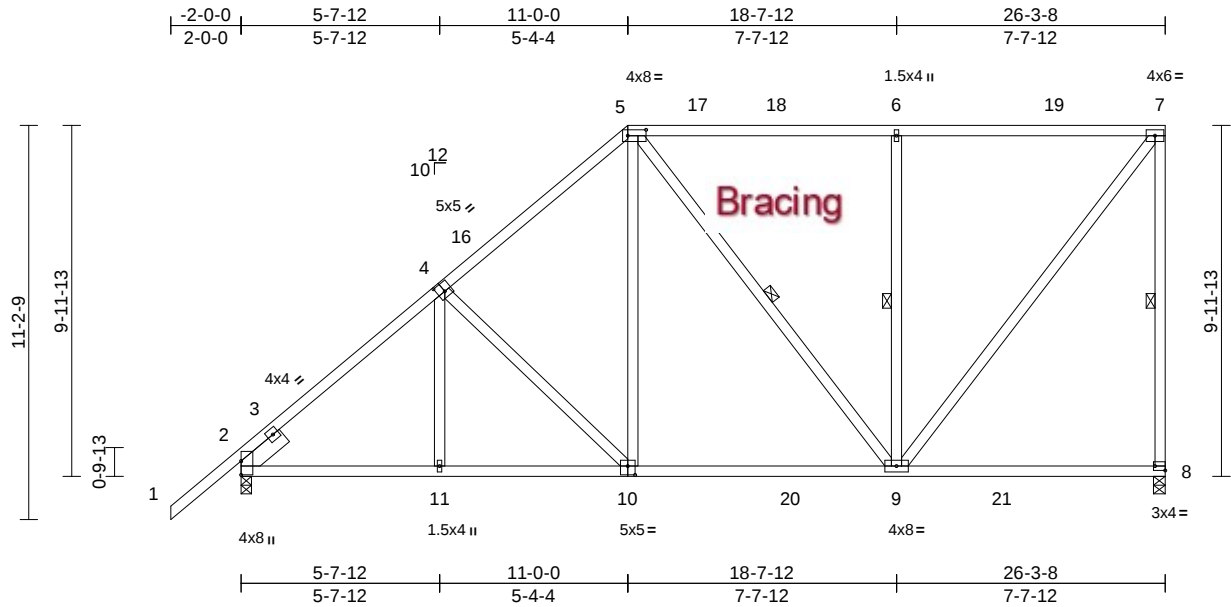
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Holloway	T36050262
1224-054 with attic	C03	Half Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55
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Page: 1



Scale = 1:65.6												
Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-2-8,0-3-0], [5:0-6-4,0-2-0], [8:Edge,0-1-8], [10:0-2-8,0-3-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.13	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.22	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 186 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-8, 5-9, 6-9

REACTIONS (size) 2=0-3-8, 8=0-4-0
Max Horiz 2=309 (LC 11)
Max Uplift 2=-43 (LC 12), 8=-42 (LC 9)
Max Grav 2=1321 (LC 17), 8=1254 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/77, 2-5=-1435/111, 5-6=-745/131, 6-7=-745/131, 7-8=-1093/112
BOT CHORD 2-11=-336/1137, 9-11=-279/1136, 8-9=-124/145
WEBS 4-11=0/174, 4-10=-337/98, 5-10=0/532, 5-9=-212/99, 6-9=-520/120, 7-9=-97/1185

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 8 and 43 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 26-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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

January 14,2025

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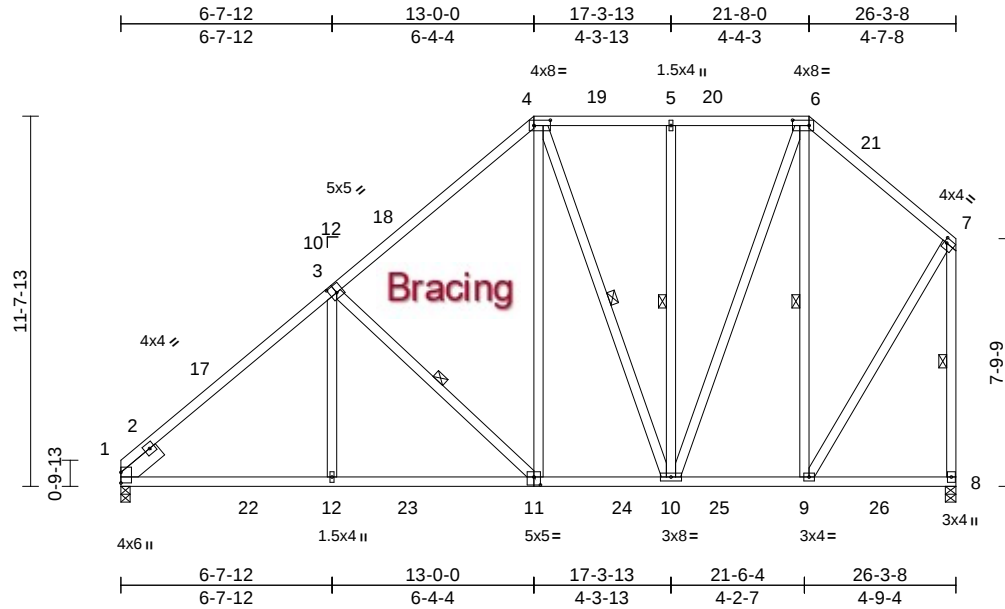
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050263
1224-054 with attic	C04	Hip	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55
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Page: 1



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Plate Offsets (X, Y): [1:Edge,0-0-0], [3:0-2-8,0-3-0], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [11:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.07	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.14	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 220 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-11, 6-9, 7-8, 5-10, 4-10
REACTIONS (size) 1=0-3-8, 8=0-4-0
Max Horiz 1=300 (LC 11)
Max Uplift 8=-3 (LC 12)
Max Grav 1=1247 (LC 17), 8=1257 (LC 17)

FORCES

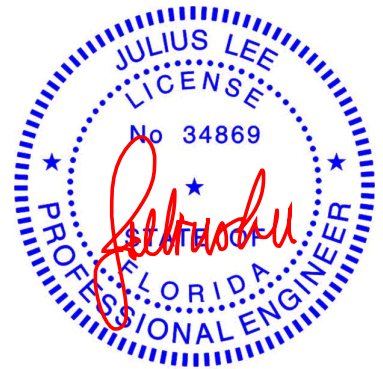
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-1499/158, 4-5=-656/163, 5-6=-656/163, 6-7=-663/179, 7-8=-1159/74
BOT CHORD 1-12=-299/1213, 10-12=-216/1210, 9-10=-102/458, 8-9=-103/116
WEBS 3-12=0/333, 3-11=-549/109, 4-11=-5/610, 6-10=-47/693, 6-9=-514/126, 7-9=-52/842, 5-10=-271/49, 4-10=-306/51

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 13-0-0, Zone2 13-0-0 to 17-3-13, Zone1 17-3-13 to 21-8-0, Zone3 21-8-0 to 26-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 14,2025

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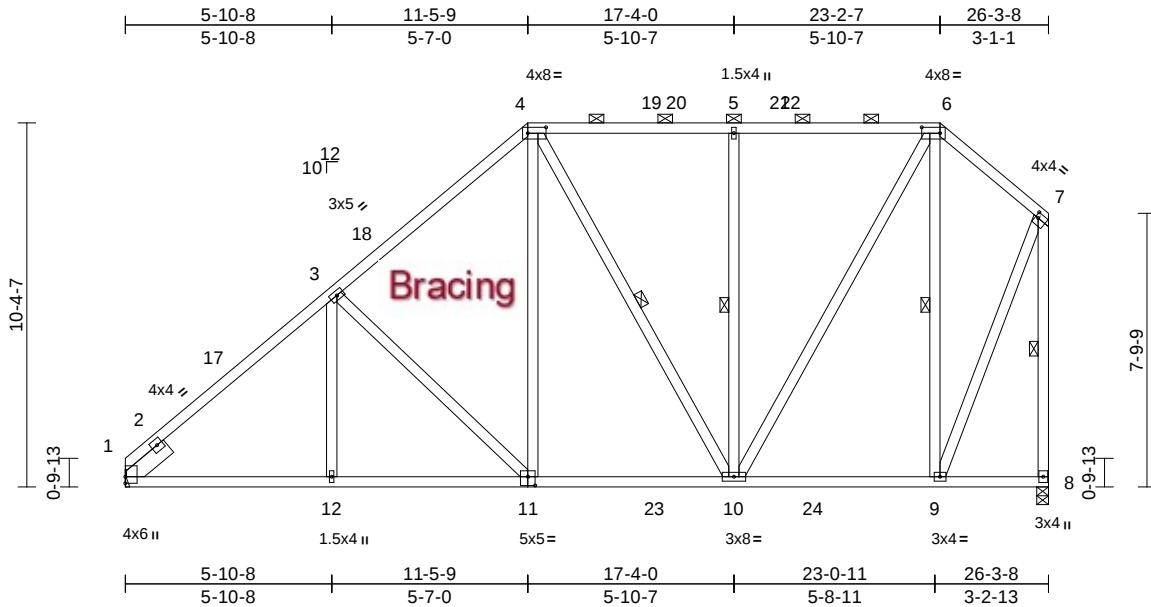
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050264
1224-054 with attic	C05	Piggyback Base	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:65.6												
Plate Offsets (X, Y): [1:Edge,0-0-0], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-1-0,0-1-12], [11:0-2-8,0-3-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.07	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.11	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 207 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-10, 5-10, 6-9, 7-8

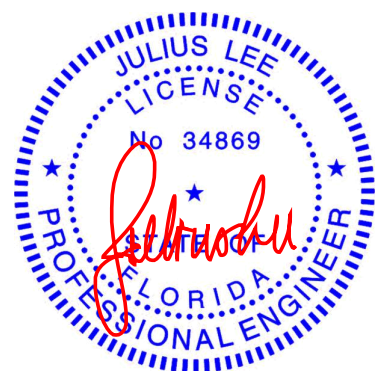
REACTIONS
(size) 1= Mechanical, 8=0-4-0
Max Horiz 1=274 (LC 11)
Max Uplift 8=-3 (LC 12)
Max Grav 1=1200 (LC 17), 8=1217 (LC 17)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-1450/70, 3-4=-1139/136, 4-5=-738/143, 5-6=-738/143, 6-7=-542/178, 7-8=-1183/52
BOT CHORD 1-12=-286/1163, 10-12=-223/1163, 9-10=-99/368, 8-9=-107/118
WEBS 3-12=0/204, 3-11=-405/100, 4-11=0/527, 4-10=-178/52, 5-10=-394/75, 6-10=-51/832, 6-9=-663/149, 7-9=-68/934

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1 15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



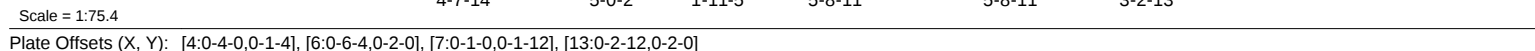
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 14,2025

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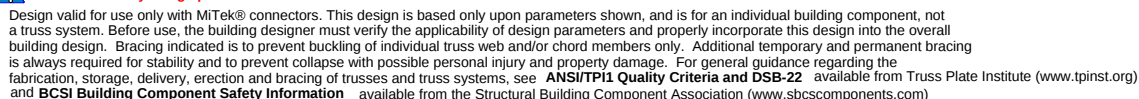
Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55 Page: 1
ID:Rp2Rdd28A39aExz34fSpjzx8Zq-RfC?PsB70Hq3NSqPanL8w3ulTXbGKWCrDci7J4zJC?f



LUMBER		Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
BOT CHORD	2x4 SP No.2	B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;
WEBS	2x4 SP No.2	MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,
BRACING		Zone1 3-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-4 max.): 1-2, 4-6.	15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 zone;
BOT CHORD	Rigid ceiling directly applied. Except:	cantilever left and right exposed ; end vertical left and
1 Row at midpt	3-13	right exposed;C-C for members and forces & MWFRS
WEBS	1 Row at midpt 4-11, 4-10, 5-10, 6-9, 7-8	for reactions shown; Lumber DOL=1.60 plate grip
REACTIONS	(size) 8=0-4-0, 15= Mechanical	DOL=1.60
	Max Horiz 15=262 (LC 11)	3) Building Designer / Project engineer responsible for
	Max Uplift 8=-2 (LC 12)	verifying applied roof live load shown covers rain loading
	Max Grav 8=1203 (LC 17), 15=1160 (LC 17)	requirements specific to the use of this truss component.
FORCES		4) Provide adequate drainage to prevent water ponding.
	(lb) - Maximum Compression/Maximum Tension	5) This truss has been designed for a 10.0 psf bottom
TOP CHORD	1-15=-1089/73, 1-2=-1303/43, 2-3=-1331/95, 3-4=-1297/177, 4-5=-742/156, 5-6=-742/156, 6-7=-544/185, 7-8=-1169/75	chord live load nonconcurrent with any other live loads.
BOT CHORD	14-15=-285/289, 13-14=-273/1435, 12-13=-42/0, 3-13=-212/140, 11-12=-45/36, 9-11=-163/849, 8-9=-106/118	6) * This truss has been designed for a live load of 20.0psf
WEBS	1-14=-67/1584, 2-14=-791/112, 2-13=-472/76, 11-13=-137/954, 4-13=-229/1011, 4-11=-252/126, 4-10=-158/46, 5-10=-394/94, 6-10=-66/815, 6-9=-649/166, 7-9=-87/922	on the bottom chord in all areas where a rectangle
NOTES		3-06-00 tall by 2-00-00 wide will fit between the bottom
1) Unbalanced roof live loads have been considered for this design.		chord and any other members, with BCDL = 10.0psf.
		7) Bearings are assumed to be : Joint 8 SP No.2 .
		8) Refer to girder(s) for truss to truss connections.
		9) Provide mechanical connection (by others) of truss to
		bearing plate capable of withstanding 2 lb uplift at joint 8.
		10) This truss design requires that a minimum of 7/16"
		structural wood sheathing be applied directly to the top
		chord and 1/2" gypsum sheetrock be applied directly to
		the bottom chord.
		11) Graphical purlin representation does not depict the size
		or the orientation of the purlin along the top and/or
		bottom chord.
LOAD CASE(S)		Standard

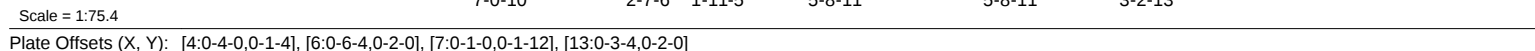


January 14, 2025



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55 Page: 1
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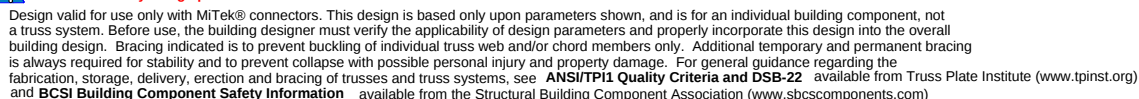


LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
BOT CHORD	2x4 SP No.2	B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;
WEBS	2x4 SP No.2	MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,
BRACING		Zone1 3-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-5 max.): 1-2, 4-6.	15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 zone;
BOT CHORD	Rigid ceiling directly applied. Except:	cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
1 Row at midpt	3-13	DOL=1.60
WEBS	1 Row at midpt 4-11, 4-10, 5-10, 6-9, 7-8	3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
REACTIONS	(size) 8=0-4-0, 15= Mechanical	4) Provide adequate drainage to prevent water ponding.
	Max Horiz 15=258 (LC 11)	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
	Max Grav 8=1201 (LC 17), 15=1159 (LC 18)	6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
FORCES		7) Bearings are assumed to be: Joint 8 SP No.2 .
TOP CHORD	(lb) - Maximum Compression/Maximum Tension	8) Refer to girder(s) for truss to truss connections.
	1-15=-1041/102, 1-2=-1146/68,	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
	2-3=-1298/97, 3-4=-1229/146, 4-5=-745/142,	10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
	5-6=-745/142, 6-7=-545/179, 7-8=-1167/77	
BOT CHORD	14-15=-268/292, 13-14=-248/1244,	
	12-13=-36/0, 3-13=-44/59, 11-12=-23/87,	
	9-11=-167/847, 8-9=-106/118	
WEBS	1-14=-82/1386, 2-14=-632/146,	
	2-13=-535/87, 11-13=-167/873,	
	4-13=-220/896, 4-11=-235/139,	
	4-10=-157/50, 5-10=-392/93, 6-10=-69/813,	
	6-9=-648/168, 7-9=-90/921	

1) Unbalanced roof live loads have been considered for this design.



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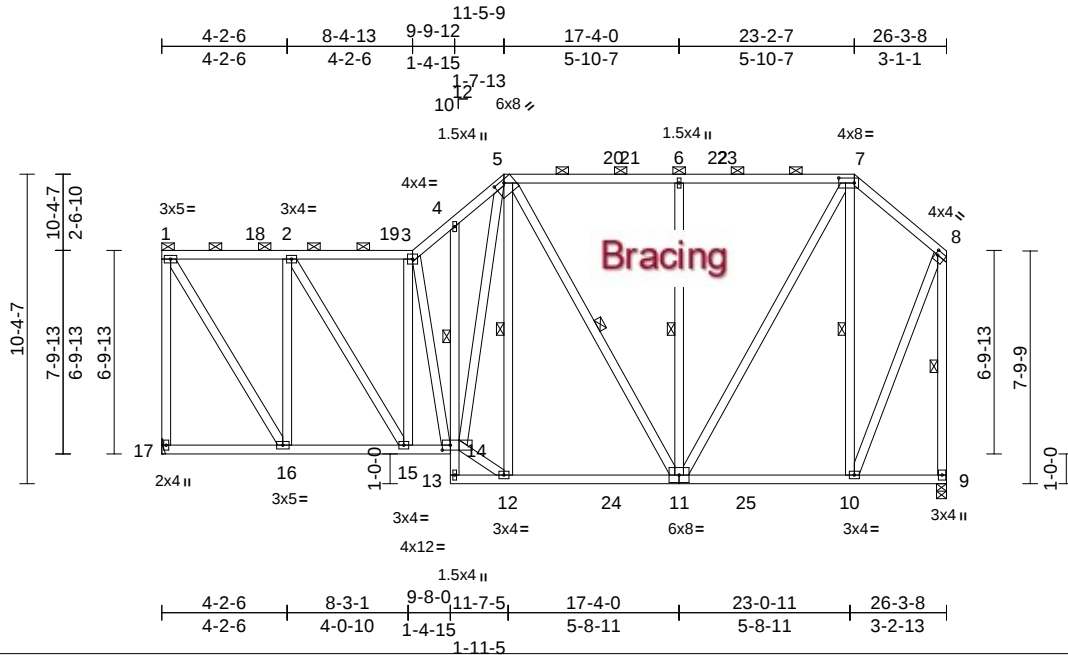
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050267
1224-054 with attic	C08	Piggyback Base	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:55

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Scale = 1:77.2

Plate Offsets (X, Y): [5:0-4-0,0-1-4], [7:0-6-4,0-2-0], [8:0-1-0,0-1-12], [14:0-3-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.06	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.11	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 269 lb	FT = 20%

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, except end verticals, and 2-0-0 oc purlins (5-8-7 max.): 1-3, 5-7.

BOT CHORD Rigid ceiling directly applied. Except:

1 Row at midpt 4-14

WEBS 1 Row at midpt 5-12, 5-11, 6-11, 7-10, 8-9

REACTIONS (size) 9=0-4-0, 17= Mechanical

Max Horiz 17=256 (LC 11)

Max Grav 9=1200 (LC 17), 17=1164 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-1096/87, 1-2=-671/92, 2-3=-1036/77, 3-4=-1257/105, 4-5=-1230/138, 5-6=-748/133, 6-7=-748/133, 7-8=-546/175, 8-9=-1166/76

BOT CHORD 16-17=-283/311, 15-16=-241/744, 14-15=-226/1120, 13-14=-36/0, 4-14=-33/38, 12-13=-26/87, 10-12=-164/845, 9-10=-106/118

WEBS 2-15=-69/729, 3-15=-476/94, 3-14=-498/97, 12-14=-161/871, 5-14=-208/897, 5-12=-230/136, 5-11=-156/48, 6-11=-392/93, 7-11=-67/811, 7-10=-647/167, 8-10=-88/920, 2-16=-861/143, 1-16=-82/1190

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-5-9, Zone2 11-5-9 to 15-8-7, Zone1 15-8-7 to 23-2-7, Zone3 23-2-7 to 26-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearings are assumed to be: , Joint 9 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

January 14,2025

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 the 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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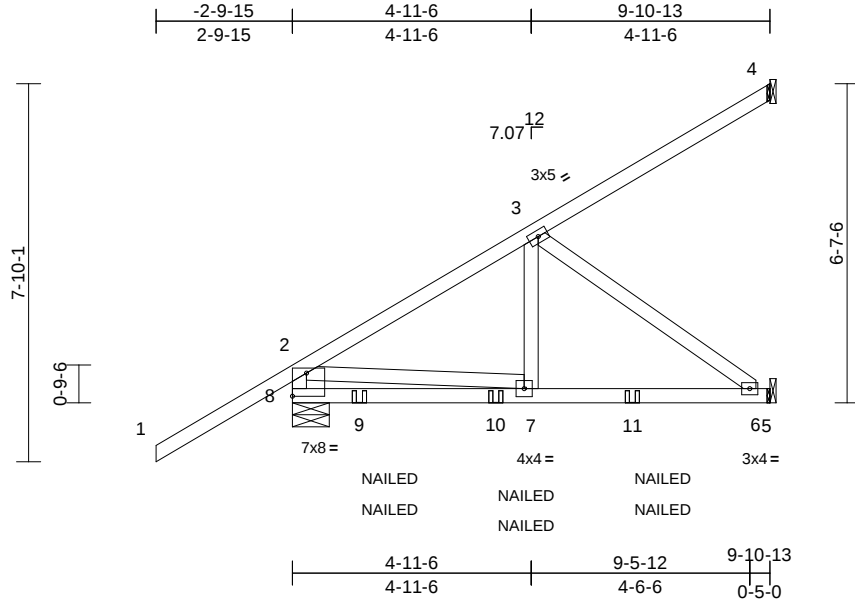
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050268
1224-054 with attic	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

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Scale = 1:47.8

Plate Offsets (X, Y): [8:Edge,0-5-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.11	6-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.16	6-7	>720	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.38	Horz(CT)	-0.01	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 57 lb FT = 20%											

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 6-0-0 oc bracing.

REACTIONS	(size)	4= Mechanical, 5= Mechanical, 8=0-9-2
	Max Horiz	8=211 (LC 8)
	Max Uplift	4=-41 (LC 8), 5=-232 (LC 8), 8=-320 (LC 8)
	Max Grav	4=121 (LC 1), 5=489 (LC 13), 8=705 (LC 13)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-8=-688/248, 1-2=0/91, 2-3=-639/252, 3-4=-88/48
BOT CHORD	7-8=-363/116, 6-7=-300/525, 5-6=0/0
WEBS	2-7=-221/736, 3-7=-307/385, 3-6=-649/371

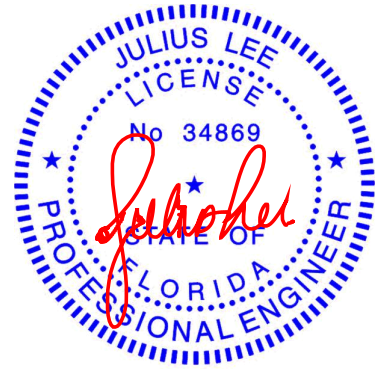
NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 8, 41 lb uplift at joint 4 and 232 lb uplift at joint 5.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 9=128 (F=64, B=64), 10=-75 (F=-38, B=-38), 11=-277 (F=-138, B=-138)



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

January 14,2025

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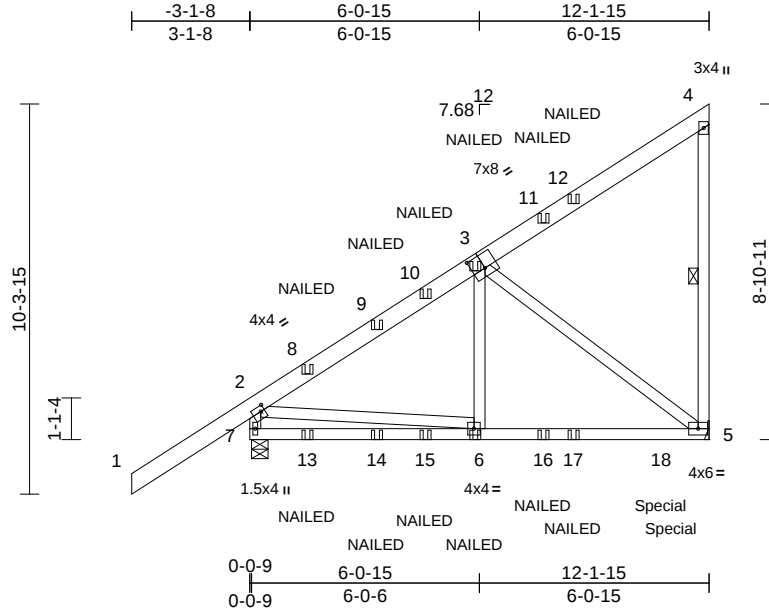
Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	T36050269

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Scale = 1:61

Plate Offsets (X, Y): [2:0-1-4,0-1-12], [3:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TOP CHORD	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.14	5-6	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.24	5-6	>605	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 99 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.1
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 6-0-0 oc bracing.

WEBS 1 Row at midpt 4-5

REACTIONS	(size) 5= Mechanical, 7=0-5-4
	Max Horiz 7=277 (LC 5)
	Max Uplift 5=-359 (LC 5), 7=-191 (LC 8)
	Max Grav 5=1252 (LC 13), 7=827 (LC 14)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-7=-807/227, 1-2=0/106, 2-4=-897/179, 4-5=-197/88
BOT CHORD	6-7=-224/133, 5-6=-225/637

WEBS	2-6=-145/727, 3-6=0/411, 3-5=-753/213
------	---------------------------------------

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.1 .
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 7 and 359 lb uplift at joint 5.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 347 lb down and 91 lb up at 10-10-13, and 304 lb down and 123 lb up at 11-2-2 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-2 (B), 3=-2 (B), 8=37 (F), 11=-67 (F), 12=-54 (B), 14=14 (B), 15=0 (F), 16=-34 (F), 17=-27 (B), 18=-542 (F=-303, B=-239)



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

January 14,2025

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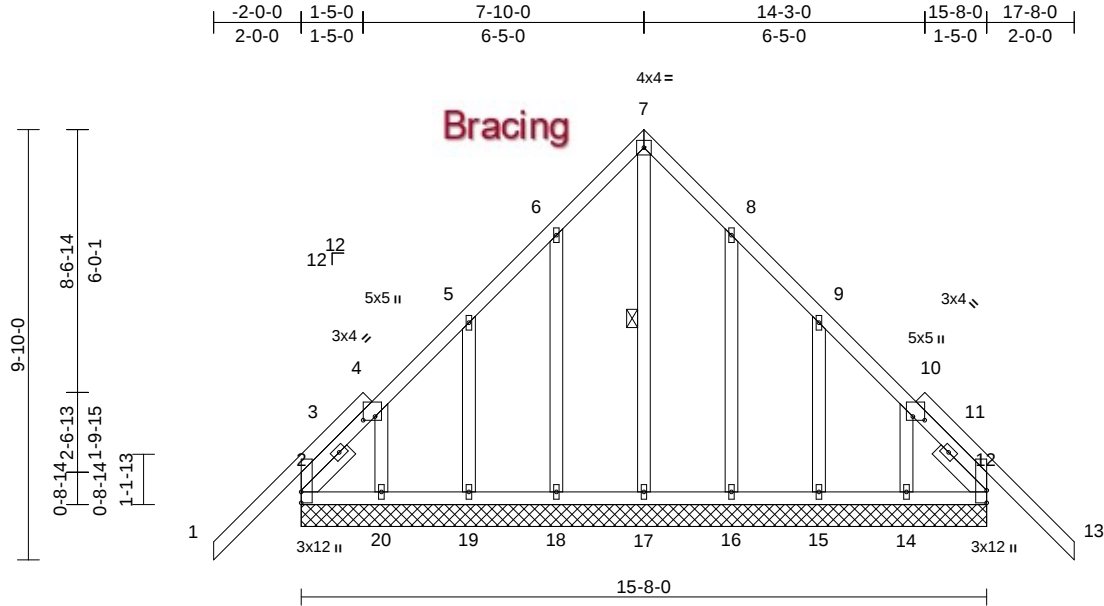
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Job	Truss	Truss Type	Qty	Ply	Holloway	T36050270
1224-054 with attic	D01	Common Supported Gable	1	1	Job Reference (optional)	

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Page: 1



Scale = 1:52.7

Plate Offsets (X, Y): [4:0-1-0,0-3-4], [10:0-1-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 124 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 1-6-0, Right 2x4 SP No.2 -- 1-6-0

WEBS
7-17=-179/53, 6-18=-146/137,
5-19=-135/140, 4-20=-121/106,
8-16=-144/138, 9-15=-139/141,
10-14=-122/107

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-17
REACTIONS (size) 2=15-8-0, 12=15-8-0, 14=15-8-0, 15=15-8-0, 16=15-8-0, 17=15-8-0, 18=15-8-0, 19=15-8-0, 20=15-8-0
Max Horiz 2=197 (LC 11)
Max Uplift 2=-11 (LC 8), 12=-8 (LC 9), 14=-47 (LC 8), 15=-49 (LC 12), 16=-44 (LC 12), 18=-44 (LC 12), 19=-49 (LC 12), 20=-34 (LC 9)
Max Grav 2=273 (LC 1), 12=273 (LC 1), 14=125 (LC 18), 15=181 (LC 18), 16=184 (LC 18), 17=133 (LC 12), 18=186 (LC 17), 19=177 (LC 17), 20=106 (LC 17)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/75, 2-4=-169/129, 4-5=-118/104, 5-6=-110/76, 6-7=-107/177, 7-8=-107/177, 8-9=-70/63, 9-10=-81/55, 10-12=-160/98, 12-13=0/75
BOT CHORD 2-20=-105/261, 19-20=-98/254, 18-19=-98/254, 17-18=-98/254, 16-17=-98/254, 15-16=-98/254, 14-15=-98/254, 12-14=-103/260

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 10) All bearings are assumed to be SP No.2 .
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 8 lb uplift at joint 12, 44 lb uplift at joint 18, 49 lb uplift at joint 19, 34 lb uplift at joint 20, 44 lb uplift at joint 16, 49 lb uplift at joint 15 and 47 lb uplift at joint 14.

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:

January 14,2025

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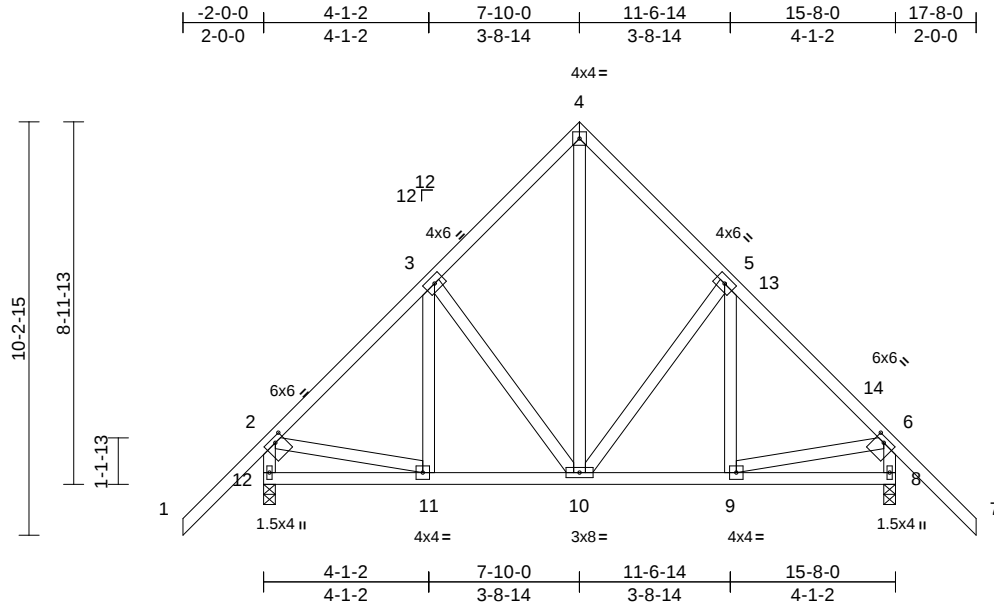
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050271
1224-054 with attic	D02	Common	1	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:57.1

Plate Offsets (X, Y): [2:0-2-12,0-1-8], [6:0-2-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.01	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.02	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 122 lb	FT = 20%

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 6-0-0 oc bracing.

REACTIONS (size) 8=0-3-8, 12=0-3-8
Max Horiz 12=232 (LC 11)
Max Uplift 8=52 (LC 12), 12=52 (LC 12)
Max Grav 8=744 (LC 1), 12=744 (LC 1)

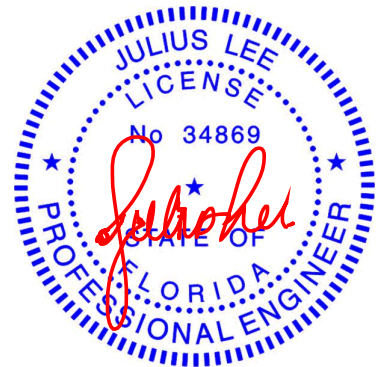
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/91, 2-3=-598/84, 3-4=-460/162, 4-5=-460/139, 5-6=-598/63, 6-7=0/91, 2-12=-706/152, 6-8=-706/162
BOT CHORD 11-12=-188/212, 10-11=0/442, 9-10=0/376, 8-9=-31/143
WEBS 4-10=-121/379, 2-11=-9/395, 6-9=0/395, 3-10=-201/96, 3-11=-13/100, 5-10=-201/134, 5-9=-13/100

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -2-0-0 to 7-10-0, Zone2 7-10-0 to 12-0-15, Zone1 12-0-15 to 17-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 12 and 52 lb uplift at joint 8.

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:

January 14,2025

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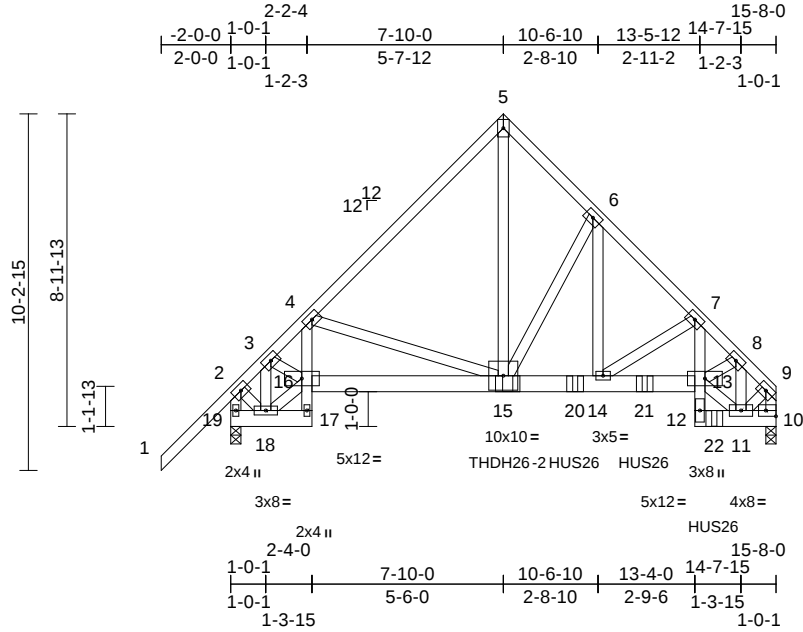
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050272
1224-054 with attic	D03	Roof Special Girder	1	3	Job Reference (optional)	

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

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Scale = 1:66.2

Plate Offsets (X, Y): [10:Edge,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.05	13-14	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.10	13-14	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.08	10	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 407 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 17-4,7-12:2x4 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) 10=0-3-8, 19=0-3-8
	Max Horiz 19=213 (LC 7)
	Max Grav 10=6582 (LC 13), 19=3909 (LC 13)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/91, 2-3=-2592/0, 3-4=-5631/0, 4-5=-5180/0, 5-6=-5104/0, 6-7=-6967/0, 7-8=-9320/0, 8-9=-4632/0, 2-19=-3588/0, 9-10=-6182/0
BOT CHORD	18-19=-66/325, 17-18=0/313, 16-17=0/232, 4-16=0/303, 15-16=0/4285, 14-15=0/4916, 13-14=0/6820, 12-13=0/1514, 7-13=0/2734, 11-12=0/499, 10-11=0/382
WEBS	4-15=-669/42, 5-15=0/6910, 2-18=0/2067, 9-11=0/3804, 3-16=0/2784, 3-18=-3224/0, 16-18=0/1926, 8-13=0/4093, 8-11=-5027/0, 11-13=0/3477, 6-15=-2687/0, 7-14=-2297/0, 6-14=0/3513

NOTES

- 3-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 - 3 rows staggered at 0-5-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 5-15 2x4 - 2 rows staggered at 0-7-0 oc.

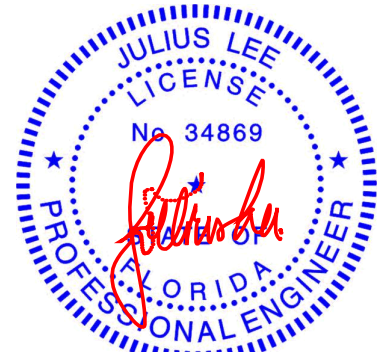
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 7-11-8 from the left end to connect truss(es) to back face of bottom chord.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-10-12 from the left end to 13-10-12 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-5=-60, 5-9=-60, 17-19=-20, 13-16=-20, 10-12=-20

Concentrated Loads (lb)

Vert: 15=-3781 (B), 20=-1140 (B), 21=-1638 (B), 22=-1638 (B)



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

January 14,2025

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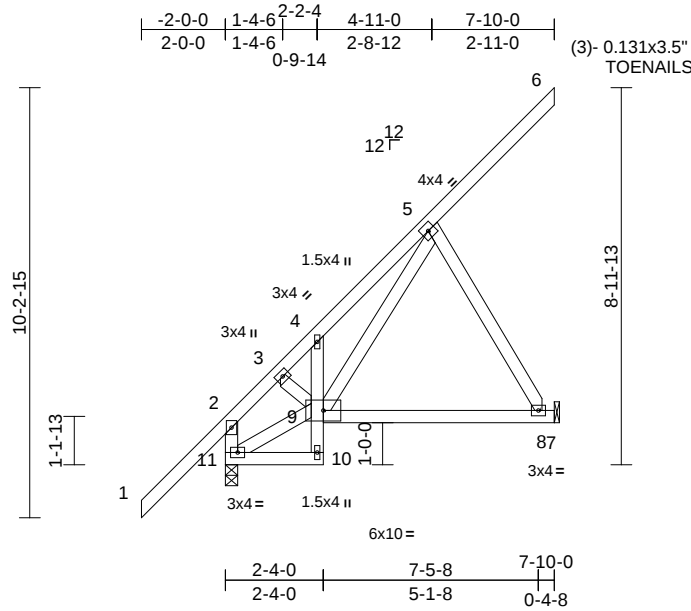
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050273
1224-054 with attic	D04	Jack-Partial	1	1	Job Reference (optional)	

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

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Scale = 1:54.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.09	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 58 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

- Bearings are assumed to be: Joint 11 SP No.1 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 7.

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.

LOAD CASE(S) Standard

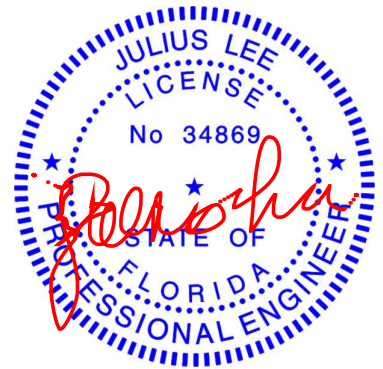
REACTIONS (size) 7= Mechanical, 11=0-3-8
Max Horiz 11=319 (LC 12)
Max Uplift 7=-176 (LC 12)
Max Grav 7=318 (LC 17), 11=452 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-11=-448/100, 1-2=0/91, 2-3=-269/10, 3-4=-226/19, 4-5=-366/0, 5-6=-130/0
BOT CHORD 10-11=-27/13, 9-10=-8/25, 4-9=-271/9, 8-9=-217/172, 7-8=0/0
WEBS 9-11=-295/201, 3-9=0/146, 5-9=-72/330, 5-8=-330/418

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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

January 14,2025

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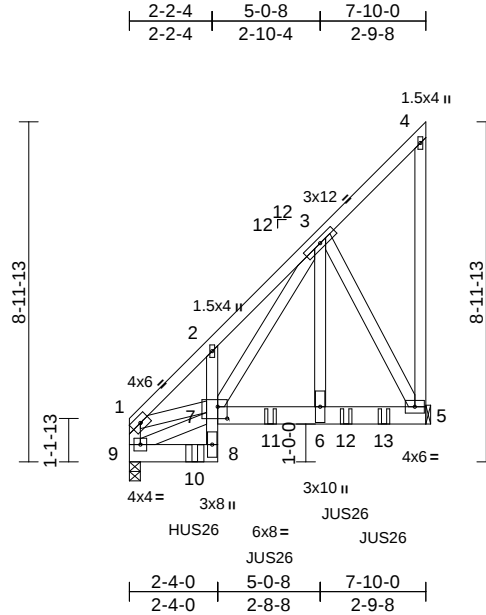
Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	D05	Jack-Closed Girder	1	2	Job Reference (optional)
					T36050274

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

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Scale = 1:60.9											
Plate Offsets (X, Y): [7:0-3-0,0-3-12]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.02	6-7	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.04	6-7	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.02	5	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 155 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 8-2:2x4 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.

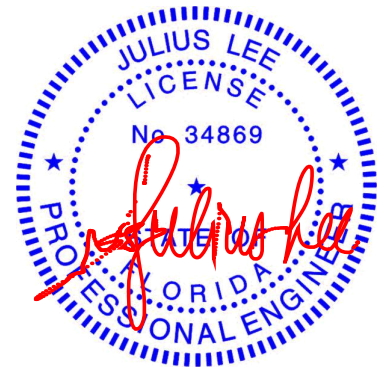
REACTIONS (size) 5= Mechanical, 9=0-3-8
Max Horiz 9=238 (LC 5)
Max Grav 5=2997 (LC 13), 9=2316 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-1942/0, 1-2=-2865/0, 2-3=-2904/0, 3-4=-158/92, 4-5=-78/80
BOT CHORD 8-9=0/66, 7-8=0/935, 2-7=-127/107, 6-7=0/1193, 5-6=0/1193
WEBS 7-9=-285/130, 1-7=0/1991, 3-5=-2418/0, 3-7=0/1801, 3-6=0/2402

- 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, 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.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 9 SP No.2 .
 - Refer to girder(s) for truss to truss connections.
 - Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 1-8-12 from the left end to connect truss(es) to back face of bottom chord.
 - Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-8-12 from the left end to 6-8-12 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 8-9=-20, 5-7=-20
Concentrated Loads (lb)
Vert: 10=-1026 (B), 11=-1020 (B), 12=-1020 (B), 13=-1020 (B)



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

January 14, 2025

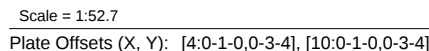
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

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LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -- 1-6-0, Right 2x4 SP No.2
-- 1-6-0

WEBS 7-17=179/53, 6-18=146/137,
5-19=135/140, 4-20=121/106,
8-16=144/138, 9-15=139/141,
10-14=122/107

NOTES

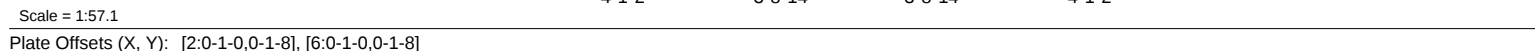
- 1) Nonstandard roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 8 lb uplift at joint 12, 44 lb uplift at joint 18, 49 lb uplift at joint 19, 34 lb uplift at joint 20, 44 lb uplift at joint 16, 49 lb uplift at joint 15 and 47 lb uplift at joint 14.

January 14, 2025

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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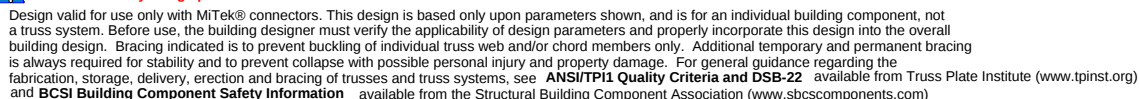


LUMBER		4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x4 SP No.2	5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
BRACING		6) All bearings are assumed to be SP No.2 .
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 12 and 52 lb uplift at joint 8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS	(size)	LOAD CASE(S) Standard
	8=0-3-8, 12=0-3-8	
	Max Horiz 12=-232 (LC 10)	
	Max Uplift 8=-52 (LC 12), 12=-52 (LC 12)	
FORCES	Max Grav 8=744 (LC 1), 12=744 (LC 1)	
	(lb) - Maximum Compression/Maximum Tension	
	TOP CHORD 1-2=0/91, 2-3=-598/52, 3-4=-460/120, 4-5=-460/120, 5-6=-598/52, 6-7=0/91, 2-12=-706/118, 6-8=-706/118	
	BOT CHORD 11-12=-188/212, 10-11=0/442, 9-10=0/376, 8-9=-31/96	
WEBS	2-11=0/395, 6-9=0/395, 3-11=-13/100, 3-10=-201/96, 4-10=-97/379, 5-10=-201/96, 5-9=-13/100	

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone1 zone; cantilever
 left and right exposed ; end vertical left and right
 exposed; C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- 3) Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.

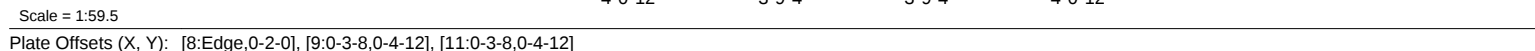


January 14, 2025



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LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 12-2-8-6:2x6 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-0-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	8=0-3-8, 12=0-3-8
Max Horiz	12=-232 (LC 6)
Max Uplift	8=-420 (LC 8), 12=-144 (LC 8)
Max Grav	8=4152 (LC 14), 12=6029 (LC 13)
FORCES	
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/95, 2-3=-6111/88, 3-4=-4822/517, 4-5=-4825/517, 5-6=-4433/443, 6-7=0/95, 2-12=-5425/130, 6-8=-4000/446
BOT CHORD	11-12=-108/630, 10-11=-22/4354, 9-10=-212/3105, 8-9=-6/292
WEBS	3-11=0/1874, 3-10=-1460/0, 4-10=-667/6503, 5-10=-74/557, 5-9=-856/50, 2-11=-2/3877, 6-9=-270/2900
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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-10 2x4 - 1 row at 0-5-0 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.

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 12 and 420 lb uplift at joint 8.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-9-4 from the left end to connect truss(es) to back face of bottom chord.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-9-4 from the left end to 5-9-4 to connect truss(es) to back face of bottom chord.
- Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 7-8-8 from the left end 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

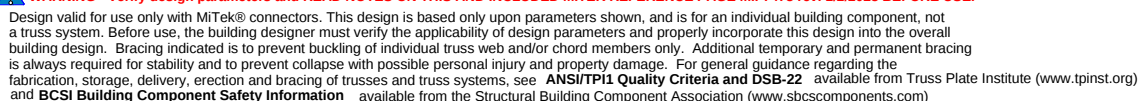
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-7=-60, 8-12=-20
Concentrated Loads (lb)

Vert: 11=-1155 (B), 10=-3991 (B), 13=-1001 (B), 14=-1478 (B)

Julius Lee PE No. 34869
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Date:

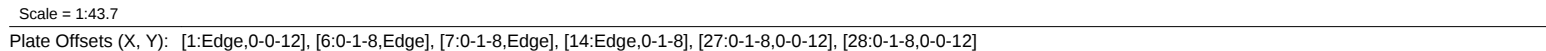


January 14, 2025



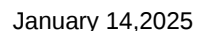
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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 Page: 1
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NOTES

- 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 22 = 11%
- 4) All bearings are assumed to be SP No.1 .



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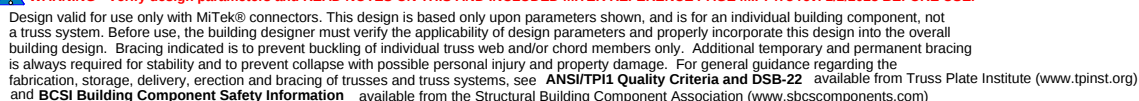
Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57 Page: 1
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LUMBER		2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
OTHERS	2x4 SP No.2	
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2	
BRACING		3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	5) Gable requires continuous bottom chord bearing.
REACTIONS	(size) 2=11-0-0, 10=11-0-0, 12=11-0-0, 13=11-0-0, 14=11-0-0, 15=11-0-0, 16=11-0-0	6) Gable studs spaced at 2-0-0 oc.
	Max Horiz 2=148 (LC 11)	7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
	Max Uplift 2=-45 (LC 12), 10=-45 (LC 12), 12=-18 (LC 8), 13=-54 (LC 12), 15=-54 (LC 12), 16=-8 (LC 9)	8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
	Max Grav 2=250 (LC 1), 10=250 (LC 1), 12=99 (LC 18), 13=194 (LC 18), 14=126 (LC 17), 15=194 (LC 17), 16=91 (LC 3)	9) All bearings are assumed to be SP No.2 .
		10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 15, 8 lb uplift at joint 16, 54 lb uplift at joint 13, 18 lb uplift at joint 12, 45 lb uplift at joint 2 and 45 lb uplift at joint 10.
FORCES		11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/76, 2-3=-115/91, 3-5=-87/74, 5-6=-99/144, 6-7=-100/145, 7-9=-58/42, 9-10=-100/110, 10-11=0/76	
BOT CHORD	2-16=-106/243, 15-16=-99/241, 14-15=-99/241, 13-14=-99/241, 12-13=-99/241, 10-12=-100/241	
WEBS	6-14=-120/30, 5-15=-154/182, 3-16=-167/97, 7-13=-154/182, 9-12=-165/96	



January 14, 2025



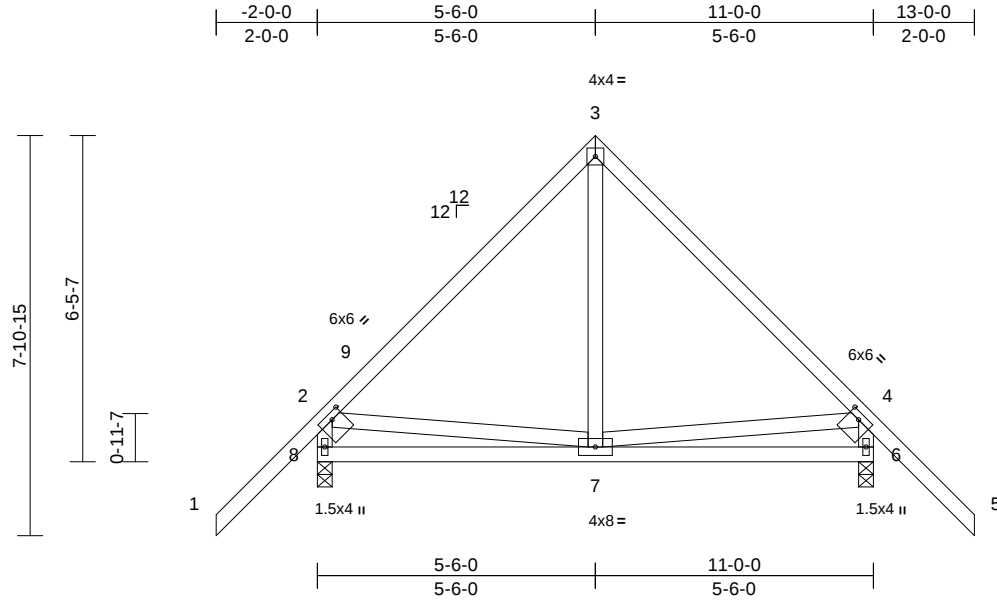
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Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	F03	Common	1	1	Job Reference (optional)	T36050280

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:57
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Page: 1



Scale = 1:45.6

Plate Offsets (X, Y): [2:0-2-12,0-1-8], [4:0-2-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.04	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 74 lb	FT = 20%

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) 6=0-3-8, 8=0-3-8
Max Horiz 8=178 (LC 11)
Max Uplift 6=-102 (LC 12), 8=-102 (LC 12)
Max Grav 6=557 (LC 1), 8=557 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

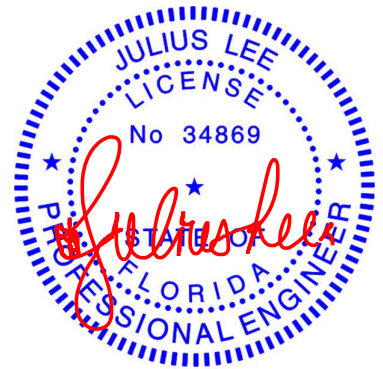
TOP CHORD 1-2=0/91, 2-3=-404/122, 3-4=-404/150, 4-5=0/91, 2-8=-510/280, 4-6=-510/256
BOT CHORD 7-8=-170/315, 6-7=-87/257
WEBS 3-7=0/220, 2-7=-167/315, 4-7=-166/250

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 8 and 102 lb uplift at joint 6.

LOAD CASE(S) Standard



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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

January 14, 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.sbcsccomponents.com)

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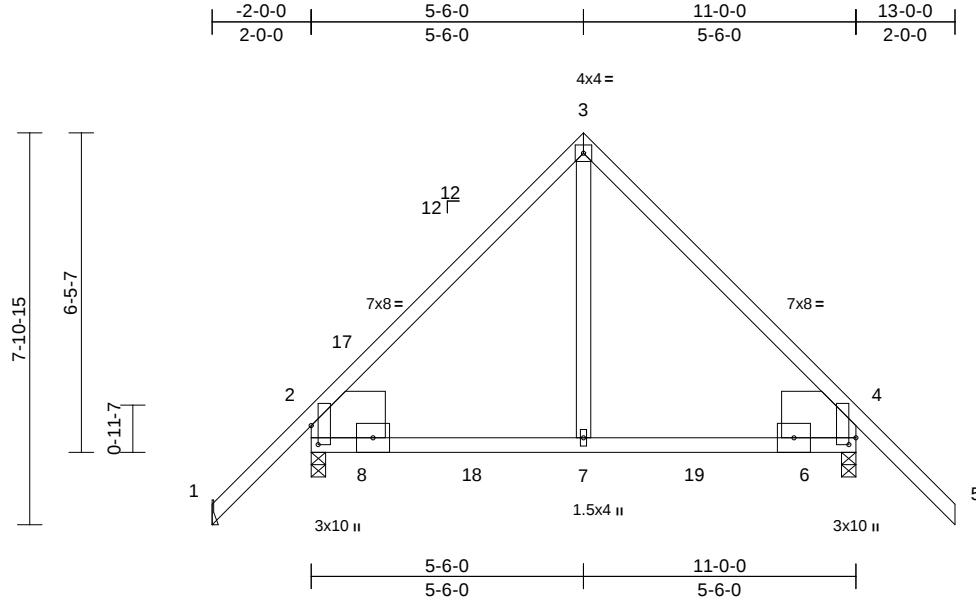
Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	F04	Common	1	1	Job Reference (optional)	T36050281

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

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Scale = 1:46.5

Plate Offsets (X, Y): [2:0-4-10,0-1-11], [4:0-1-10,0-1-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.03	7-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.04	7-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 72 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x12 SP No.2 -- 1-6-0, Right 2x12 SP No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(size) 1= Mechanical, 2=0-3-8, 4=0-3-8
Max Horiz	1=-165 (LC 10)
Max Uplift	1=-142 (LC 10), 4=-53 (LC 12)
Max Grav	1=169 (LC 11), 2=803 (LC 17), 4=627 (LC 18)

FORCES

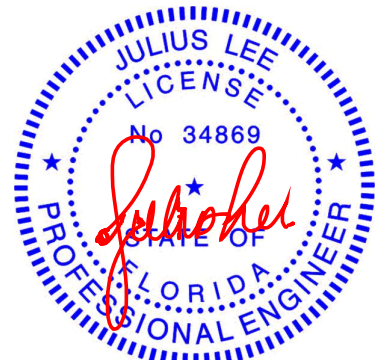
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-217/283, 2-3=-480/104, 3-4=-461/124, 4-5=0/85
BOT CHORD	2-7=-72/306, 4-7=-61/306
WEBS	3-7=-7/295

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-11-4 to 1-0-12, Zone1 1-0-12 to 13-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearings are assumed to be: , Joint 2 SP No.2 , Joint 4 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 1 and 53 lb uplift at joint 4.

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:

January 14, 2025

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

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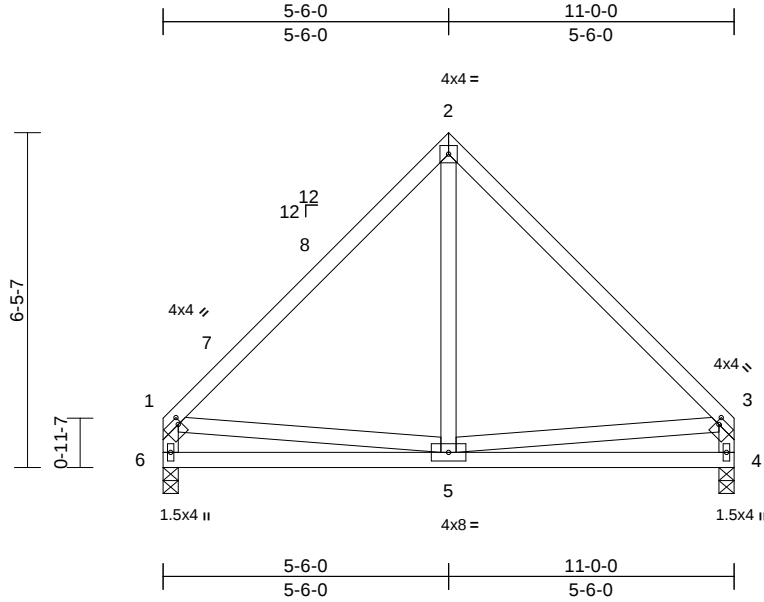
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050282
1224-054 with attic	F05	Common	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58

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Scale = 1:44.4

Plate Offsets (X, Y): [1:0-0-12,0-1-8], [3:0-0-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 66 lb	FT = 20%

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) 4=0-3-8, 6=0-3-8
Max Horiz 6=-133 (LC 10)
Max Grav 4=428 (LC 1), 6=428 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-414/94, 2-3=-414/118, 1-6=-381/117, 3-4=-381/111
BOT CHORD 5-6=-182/260, 4-5=-94/164
WEBS 2-5=0/223, 1-5=-75/203, 3-5=-80/144

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

6) All bearings are assumed to be SP No.2 .

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:

January 14, 2025

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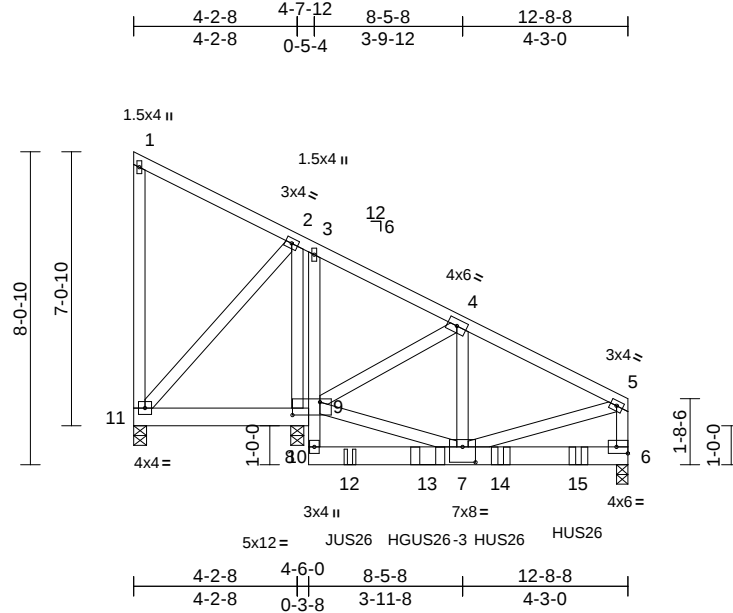
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050283
1224-054 with attic	G01	Roof Special Girder	1	2	Job Reference (optional)	

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

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Page: 1



Scale = 1:59.3

Plate Offsets (X, Y): [6:Edge,0-2-0], [7:0-4-0,0-4-12], [9:0-8-8,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.03	6-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.06	6-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 212 lb FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 3-8:2x4 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 6-0-0 oc bracing.

REACTIONS	(size)	6=0-3-8, 10=0-4-0, 11=0-4-0
	Max Horiz	11=-213 (LC 4)
	Max Uplift	11=-595 (LC 13)
	Max Grav	6=3503 (LC 14), 10=4072 (LC 13), 11=0 (LC 9)

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

TOP CHORD	1-11=-92/37, 1-2=-116/63, 2-3=0/650, 3-4=-6/495, 4-5=-2922/0, 5-6=-2159/0
BOT CHORD	10-11=-488/68, 9-10=-1859/0, 8-9=-33/597, 3-9=-10/228, 7-8=-11/526, 6-7=0/309
WEBS	7-9=0/2155, 4-9=-3428/0, 4-7=0/2958, 5-7=0/2392, 2-10=-1153/0, 2-11=0/713

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 0-5-0 oc, 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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 595 lb uplift at joint 11.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 5-6-12 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HGUS26-3 (20-10d Girder, 6-10d Truss) or equivalent at 7-6-12 from the left end to connect truss(es) to back face of bottom chord.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-5-4 from the left end to 11-5-4 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 9-11=-20, 6-8=-20
Concentrated Loads (lb)
Vert: 12=-367 (B), 13=-1847 (B), 14=-1305 (B), 15=-1305 (B)



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

January 14,2025

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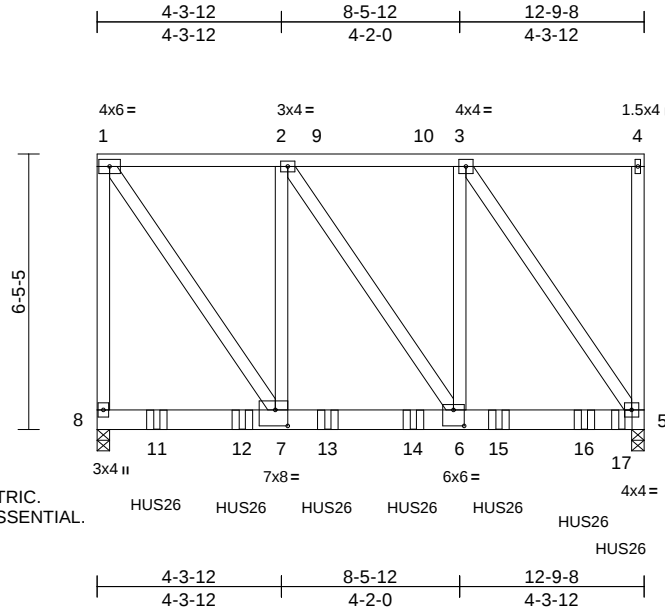
Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	G02	Flat Girder	1	2	Job Reference (optional)	T36050284

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

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Page: 1

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Scale = 1:53.9

Plate Offsets (X, Y): [6:0-3-0,0-4-8], [7:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.04	5-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.08	5-6	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 227 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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=0-3-8, 8=0-3-8
Max Horiz 8=170 (LC 7)
Max Uplift 5=-86 (LC 5)
Max Grav 5=5261 (LC 1), 8=4129 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-3202/24, 1-2=-2141/30, 2-3=-2191/75, 3-4=-80/58, 4-5=-117/28
BOT CHORD 7-8=-136/140, 6-7=-67/2141, 5-6=-86/2191
WEBS 3-5=-3813/80, 2-7=-317/178, 1-7=-7/3733, 2-6=-126/116, 3-6=0/2879

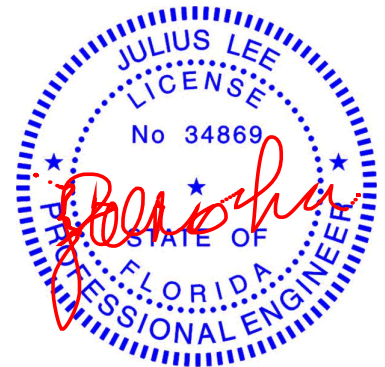
NOTES

- 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 - 3 rows staggered at 0-8-0 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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 5.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-12 from the left end to 12-3-4 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 + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-1201 (B), 12=-1196 (B), 13=-1196 (B),
14=-1196 (B), 15=-1196 (B), 16=-1197 (B), 17=-1207 (B)



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

January 14,2025

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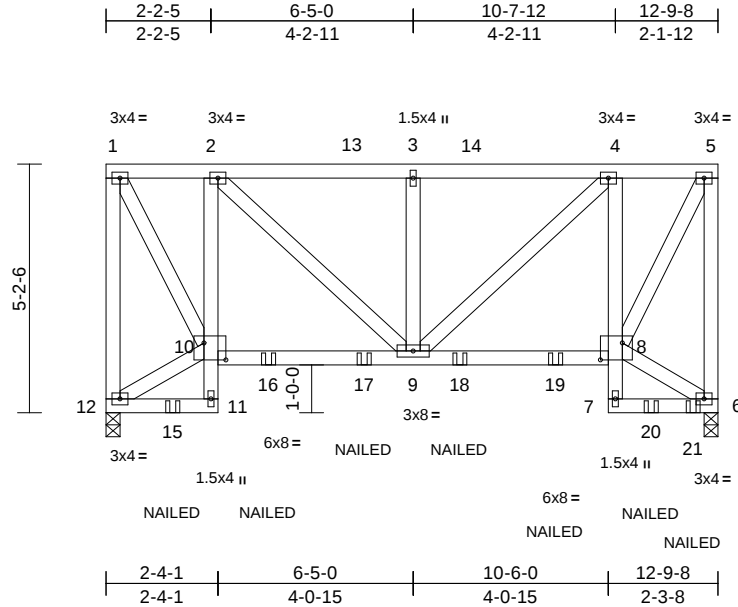
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Job	Truss	Truss Type	Qty	Ply	Holloway	T36050285
1224-054 with attic	G03	Roof Special Girder	1	2	Job Reference (optional)	

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

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Page: 1



Scale = 1:48.2

Plate Offsets (X, Y): [8:0-5-8,0-4-4], [10:0-5-8,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.05	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 209 lb	FT = 20%

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, Except:
6-0-0 oc bracing: 11-12.

REACTIONS (size) 6=0-3-8, 12=0-3-8
Max Horiz 12=137 (LC 4)
Max Uplift 6=123 (LC 5), 12=105 (LC 4)
Max Grav 6=1747 (LC 1), 12=1447 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-1314/108, 1-2=-727/89, 2-3=-1308/97, 3-4=-1308/97, 4-5=-718/67, 5-6=-1353/120
BOT CHORD 11-12=-17/6, 10-11=-13/226, 2-10=-714/114, 9-10=-154/799, 8-9=-99/769, 7-8=-18/291, 4-8=-702/103, 6-7=-6/19
WEBS 10-12=-124/133, 1-10=-105/1443, 2-9=-82/776, 3-9=-260/63, 4-9=-69/756, 6-8=-64/65, 5-8=-136/1478

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 12 and 123 lb uplift at joint 6.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S)

- Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 11-12=-20, 8-10=-20, 6-7=-20
Concentrated Loads (lb)
Vert: 15=-312 (F), 16=-312 (F), 17=-312 (F), 18=-312 (F), 19=-312 (F), 20=-312 (F), 21=-319 (F)



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 14,2025

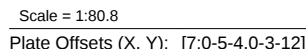
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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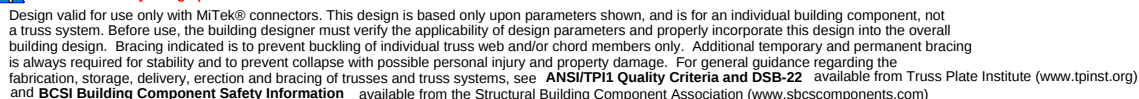
Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:58 Page: 1
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LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 2-5:2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP 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. Except: 10-0-0 oc bracing: 5-7
WEBS	1 Row at midpt 3-4
REACTIONS (size) 4= Mechanical, 8=0-4-0	
	Max Horiz 8=273 (LC 7)
	Max Uplift 4=-362 (LC 5), 8=-467 (LC 4)
	Max Grav 4=1027 (LC 13), 8=1437 (LC 14)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-8=-36/98, 1-2=-98/88, 2-3=-241/126, 3-4=-530/272
BOT CHORD	7-8=-229/313, 5-7=-73/485, 2-7=-312/940, 5-6=0/0, 4-5=-2/4
WEBS	2-8=-1269/404, 4-7=-111/100, 3-7=-284/488

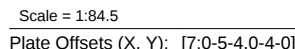
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ID: 2e1sjZ4TouFP1EDOAG0W3zy6x6-RfC?PsB70Hg3NSaPanL8w3uITXbGKWKRCDoi7J4zJC?f



LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 2-5:2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 2-5
WEBS	1 Row at midpt 1-8, 3-4
REACTIONS (size) 4= Mechanical, 8=0-4-0	
	Max Horiz 8=273 (LC 7)
	Max Uplift 4=-432 (LC 5), 8=-432 (LC 4)
	Max Grav 4=637 (LC 13), 8=670 (LC 14)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-8=-34/15, 1-2=-98/88, 2-3=-55/96, 3-4=-505/438
BOT CHORD	7-8=-221/156, 5-7=-169/82, 2-7=-386/484, 5-6=-16/77, 4-5=-27/86
WEBS	2-8=-515/427, 4-7=-177/120, 3-7=-429/489, 6-8=-38/185

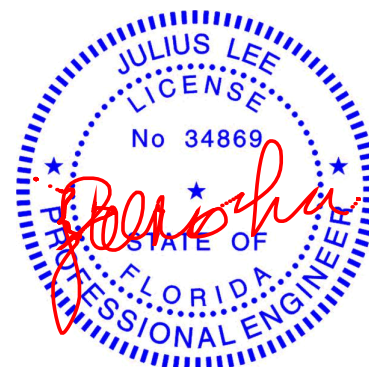
NOTES

- 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: 2x6 - 2 rows staggered at 0-9-0 oc; 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) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; CSDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 8) Bearings are assumed to be: Joint 8 SP No.2 .
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 432 lb uplift at joint
8 and 432 lb uplift at joint 4.
- 11) Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 399
lb down and 133 lb up at 1-7-4 on bottom chord. The
design/selection of such connection device(s) is the
responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 7-8=-50, 5-6=-50, 4-5=-50
Concentrated Loads (lb)
Vert: 7=-337 (F)



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 14, 2025



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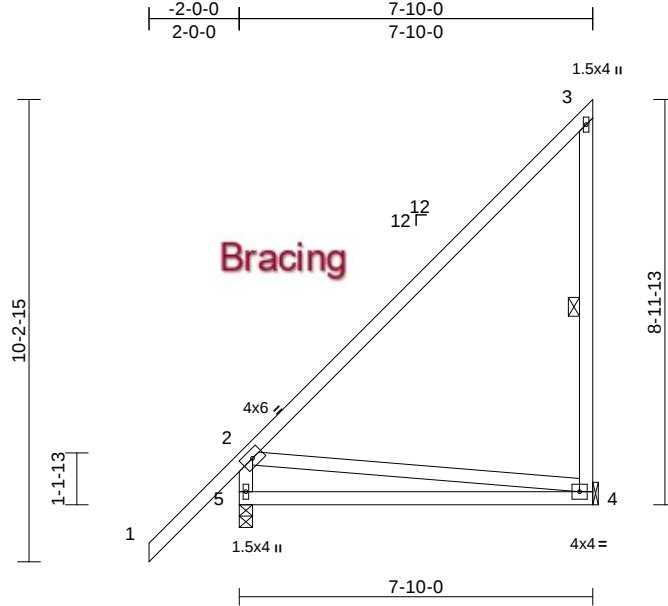
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Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	J01	Jack-Closed	14	1	Job Reference (optional)
					T36050288

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

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Scale = 1:51.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.19	4-5	>466	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.39	4-5	>233	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP SS
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 7-8-7 oc bracing.
WEBS 1 Row at midpt 3-4

REACTIONS

(size) 4= Mechanical, 5=0-3-8
Max Horiz 5=281 (LC 11)
Max Uplift 4=-118 (LC 9), 5=-41 (LC 12)
Max Grav 4=350 (LC 17), 5=449 (LC 1)

FORCES

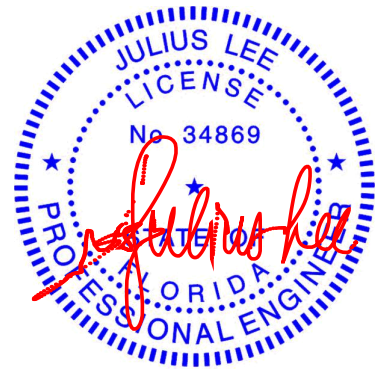
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-373/177, 1-2=0/91, 2-3=-328/273, 3-4=-310/293
BOT CHORD 4-5=-517/321
WEBS 2-4=-231/440

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 5 SP No.2 .

- Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5 and 118 lb uplift at joint 4.
- LOAD CASE(S)** Standard



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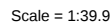
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[illegible]

LOAD CASE(S) Standard



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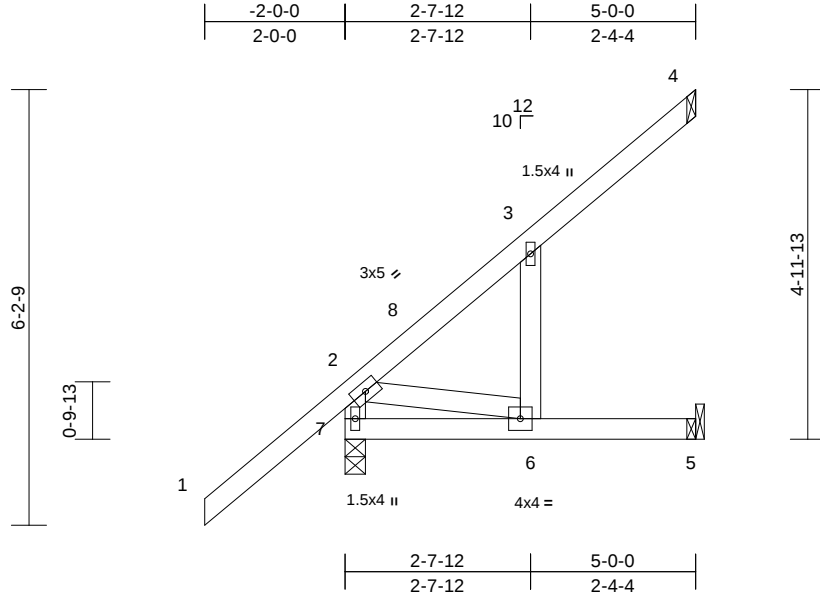
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Job	Truss	Truss Type	Qty	Ply	Holloway	T36050290
1224-054 with attic	J02	Jack-Open	2	1	Job Reference (optional)	

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.15	6-7	>372	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.15	6-7	>380	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 7-2:2x4 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 7=0-3-8
Max Horiz 7=199 (LC 12)
Max Uplift 5=-80 (LC 12), 7=-2 (LC 12)
Max Grav 5=173 (LC 17), 7=349 (LC 1)

FORCES

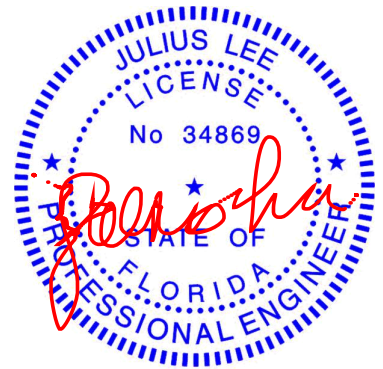
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-192/16, 1-2=0/82, 2-3=-220/97, 3-4=-90/0
BOT CHORD 6-7=-366/106, 5-6=0/0
WEBS 2-6=-109/377, 3-6=-230/285

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 5-0-0 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 2 lb uplift at joint 7
and 80 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 14, 2025

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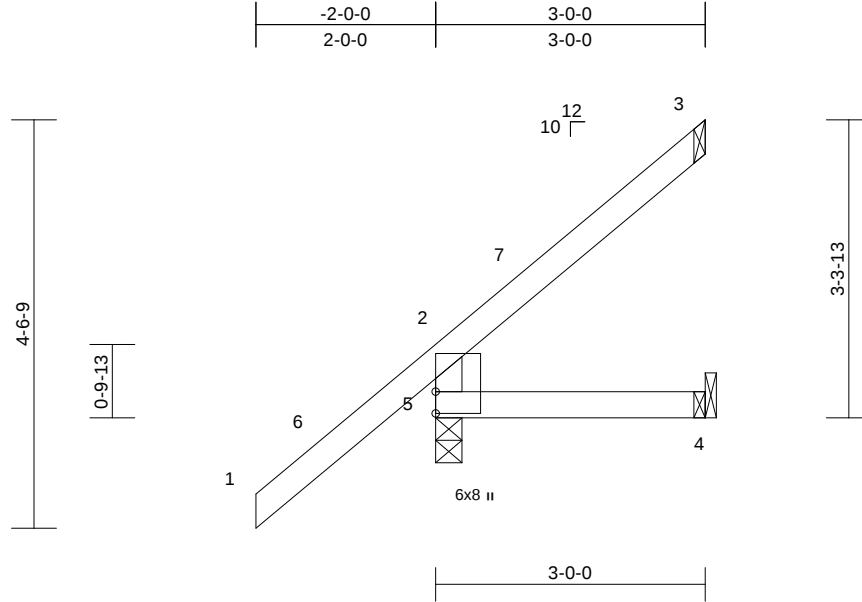
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Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	J03	Jack-Open	2	1	Job Reference (optional)
					T36050291

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

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Scale = 1:25.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.03	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	0.03	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 5 and 83 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

(size) 4= Mechanical, 5=0-3-8
Max Horiz 5=236 (LC 12)
Max Uplift 4=83 (LC 12), 5=92 (LC 12)
Max Grav 4=71 (LC 17), 5=290 (LC 1)

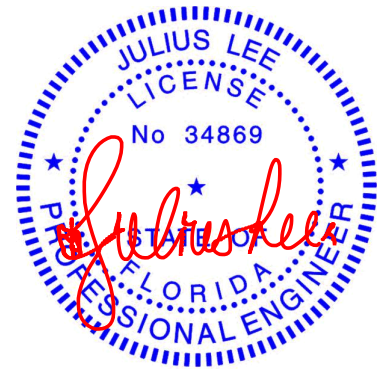
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-300/314, 1-2=0/82, 2-3=-110/0
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 3-0-0 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Bearings are assumed to be: Joint 5 SP No.1 .
- Refer to girder(s) for truss to truss connections.



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

January 14, 2025

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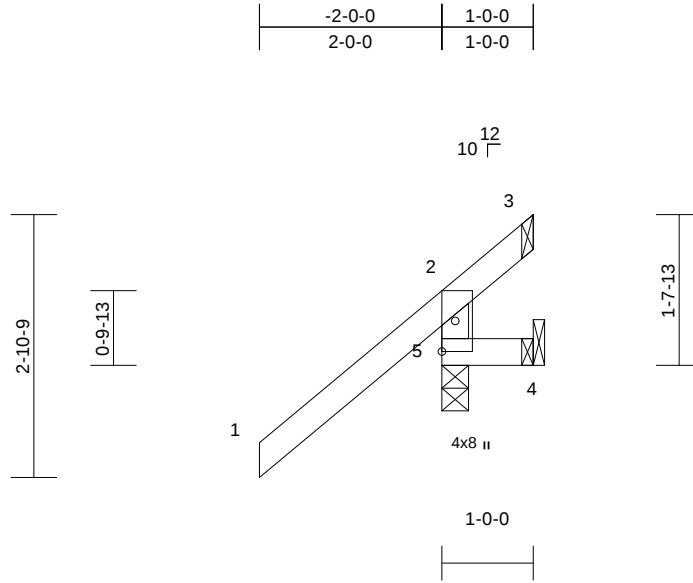
Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	J04	Jack-Open	2	1	T36050292
					Job Reference (optional)

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Scale = 1:25.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 8 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 5 and 130 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

(size) 4= Mechanical, 5=0-3-8
Max Horiz 5=146 (LC 12)
Max Uplift 4=-130 (LC 1), 5=-201 (LC 12)
Max Grav 4=86 (LC 12), 5=327 (LC 1)

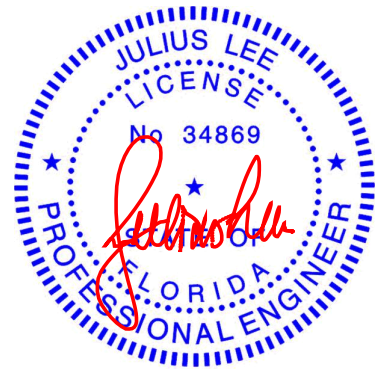
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-180/213, 1-2=0/82, 2-3=-33/0
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 5 SP No.2.
- Refer to girder(s) for truss to truss connections.



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

January 14, 2025

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

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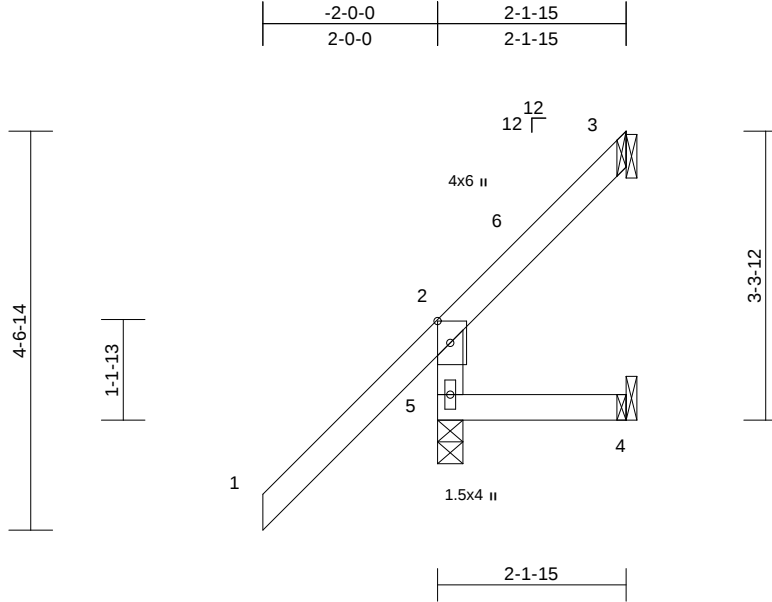
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050293
1224-054 with attic	J05	Jack-Open	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59
ID:k1csjrRmK2WB3nAKbQIPkz7N_-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.4

Plate Offsets (X, Y): [2:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.00	4-5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	4-5	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 13 lb FT = 20%

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 2-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=144 (LC 12)
Max Uplift 3=-24 (LC 9), 4=-4 (LC 9), 5=-36 (LC 12)
Max Grav 3=25 (LC 10), 4=30 (LC 3), 5=278 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

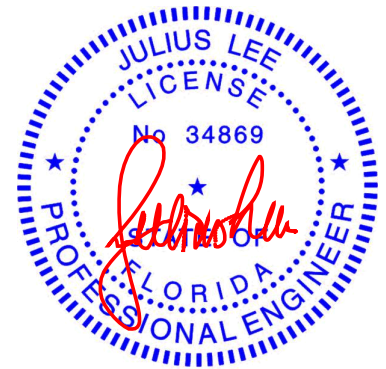
TOP CHORD 2-5=-236/226, 1-2=0/91, 2-3=-76/42
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-1-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5, 24 lb uplift at joint 3 and 4 lb uplift at joint 4.

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:

January 14, 2025

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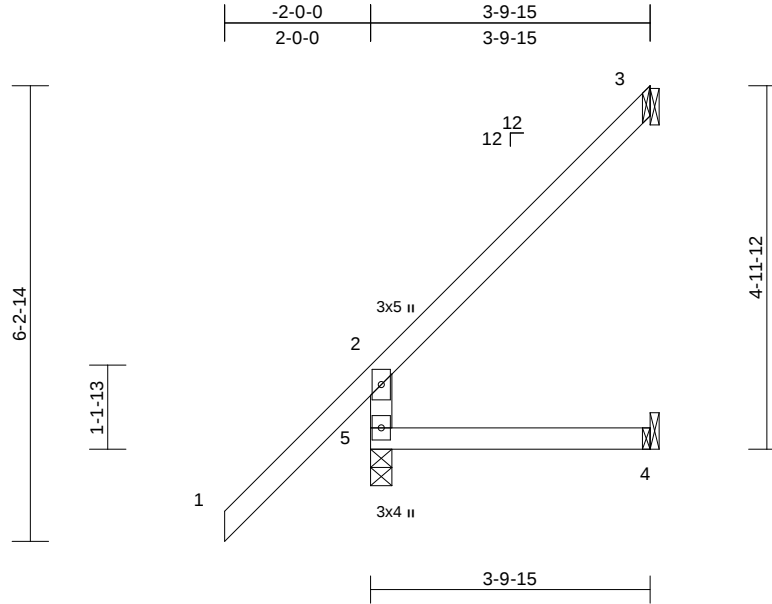
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050294
1224-054 with attic	J06	Jack-Open	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59

Page: 1

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Scale = 1:31.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 19 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 5 and 54 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

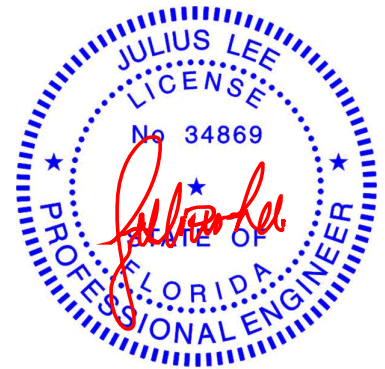
REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=183 (LC 12)
Max Uplift 3=-54 (LC 12), 5=-3 (LC 12)
Max Grav 3=98 (LC 17), 4=65 (LC 3), 5=312 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-268/113, 1-2=0/91, 2-3=-116/100
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



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

January 14, 2025

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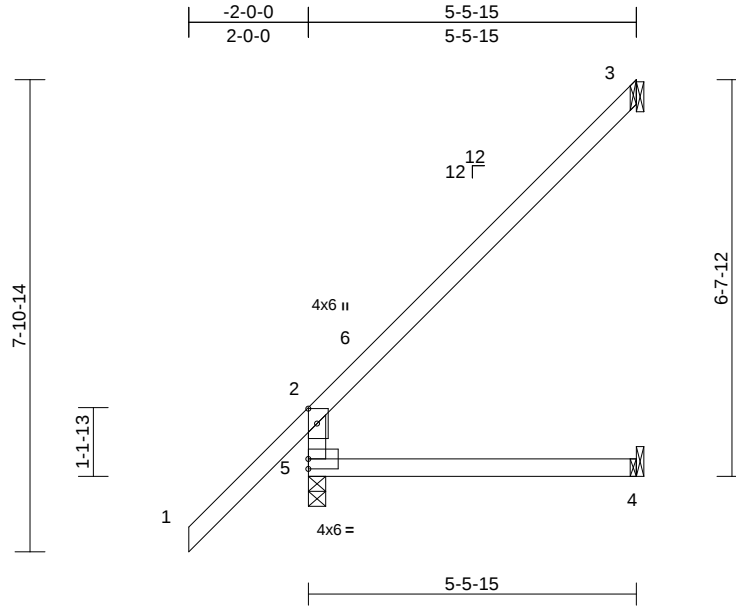
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	J07	Jack-Open	1	1	Job Reference (optional)	T36050295

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59
ID:CDAEwBSO5Me2gxIX97peHxz7Mz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?i

Page: 1



Scale = 1:38.6

Plate Offsets (X, Y): [2:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.07	4-5	>930	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.08	4-5	>822	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.07	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 25 lb	FT = 20%

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-3-8
Max Horiz 5=223 (LC 12)
Max Uplift 3=-85 (LC 12)
Max Grav 3=159 (LC 17), 4=97 (LC 3), 5=366 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

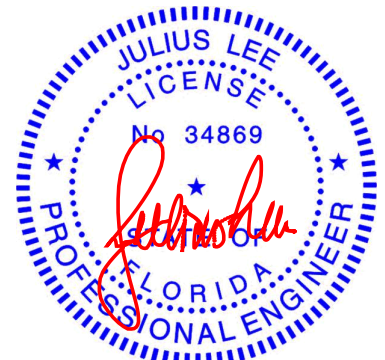
TOP CHORD 2-5=-314/167, 1-2=0/91, 2-3=-197/109
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 5-5-3 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 85 lb uplift at joint
3.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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:

January 14,2025

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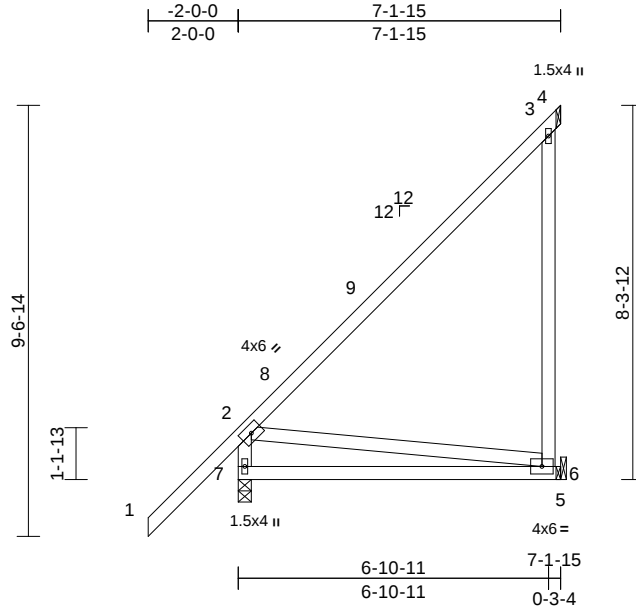
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	J08	Jack-Closed	1	1	Job Reference (optional)
					T36050296

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:19:59
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Page: 1



Scale = 1:51.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.12	6-7	>655	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.25	6-7	>328	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 52 lb	FT = 20%

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 6= Mechanical, 7=0-3-8
Max Horiz 7=260 (LC 9)
Max Uplift 6=-110 (LC 9), 7=-38 (LC 12)
Max Grav 6=325 (LC 17), 7=419 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-351/237, 1-2=0/91, 2-3=-342/252,
3-4=-4/0, 3-6=-291/325

BOT CHORD 6-7=-526/298, 5-6=0/0

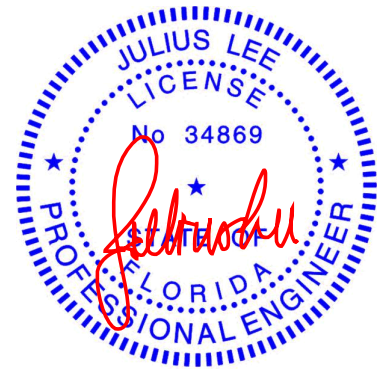
WEBS 2-6=-215/456

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 7-1-15 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 38 lb uplift at joint
7 and 110 lb uplift at joint 6.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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:

January 14, 2025

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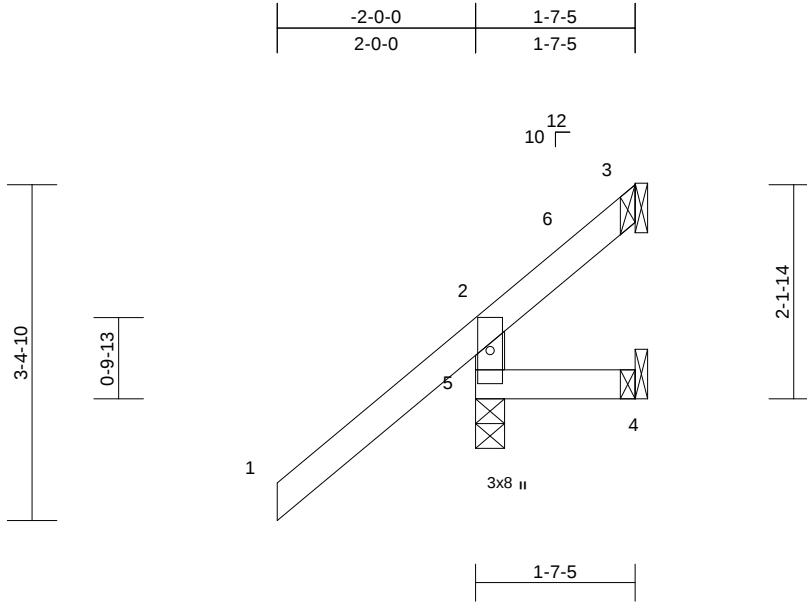
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	J09	Jack-Open	1	1	Job Reference (optional)
					T36050297

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00
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Page: 1



Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 10 lb	FT = 20%

LUMBER

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

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 5, 18 lb uplift at joint 4 and 19 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

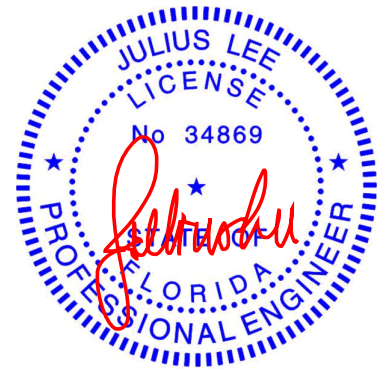
REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=106 (LC 12)
Max Uplift 3=-19 (LC 1), 4=-18 (LC 1), 5=-78 (LC 12)
Max Grav 3=14 (LC 8), 4=17 (LC 3), 5=282 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-235/257, 1-2=0/82, 2-3=-68/27
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 1-7-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 .



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

January 14, 2025

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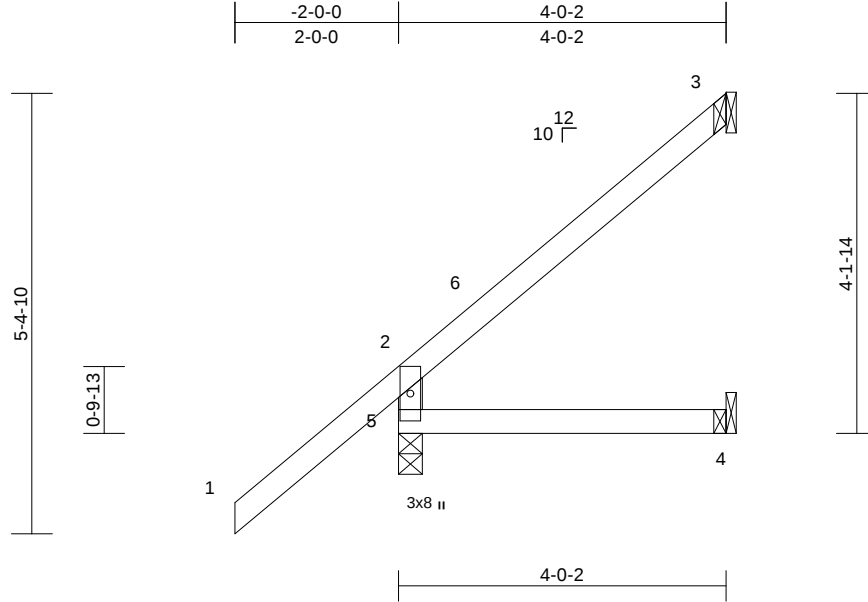
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050298
1224-054 with attic	J10	Jack-Open	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00
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Page: 1



Scale = 1:28.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 19 lb	FT = 20%

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 3= Mechanical, 4= Mechanical,
5=0-3-8
Max Horiz 5=153 (LC 12)
Max Uplift 3=40 (LC 12), 5=28 (LC 12)
Max Grav 3=96 (LC 17), 4=68 (LC 3), 5=317 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-272/206, 1-2=0/82, 2-3=-110/62
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 3-11-6 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 28 lb uplift at joint
5 and 40 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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:

January 14, 2025

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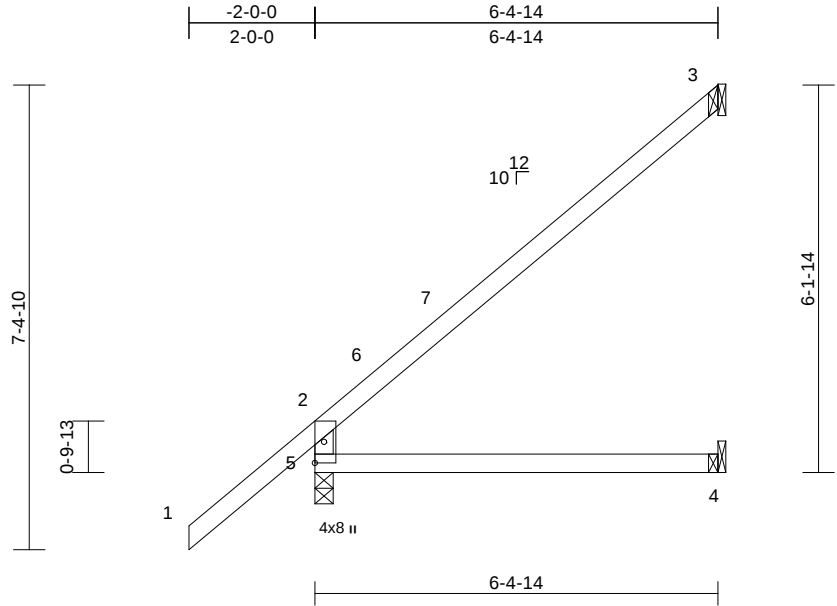
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway
2224-054 with attic	J11	Jack-Open	1	1	Job Reference (optional)
					T36050299

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00
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Scale = 1:36.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.08	4-5	>989	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.14	4-5	>526	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 27 lb	FT = 20%

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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size)	3= Mechanical, 4= Mechanical, 5=0-3-8
	Max Horiz	5=201 (LC 12)
	Max Uplift	3=-74 (LC 12)
	Max Grav	3=176 (LC 17), 4=114 (LC 3), 5=399 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
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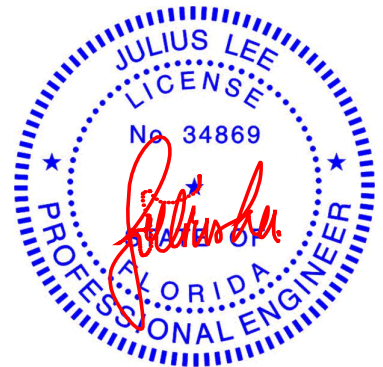
TOP CHORD	2-5=-340/187, 1-2=0/82, 2-3=-170/97
BOT CHORD	4-5=0/0

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-4-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 14,2025

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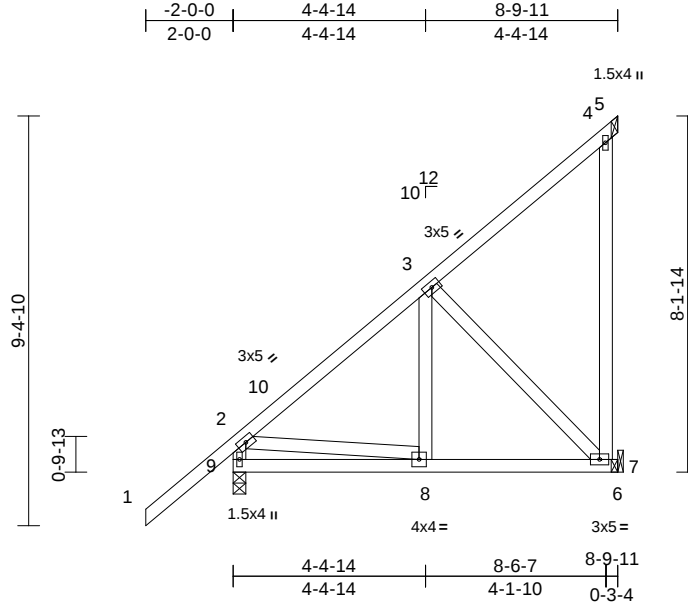
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	J12	Jack-Closed	1	1	Job Reference (optional)
					T36050300

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00
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Page: 1



Scale = 1:52.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.02	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 66 lb	FT = 20%

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 7= Mechanical, 9=0-3-8
Max Horiz 9=253 (LC 11)
Max Uplift 7=-74 (LC 9), 9=-43 (LC 12)
Max Grav 7=374 (LC 17), 9=481 (LC 1)

FORCES

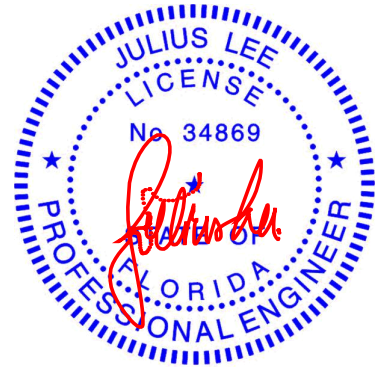
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-448/203, 1-2=0/82, 2-3=-369/52,
3-4=-201/154, 4-5=-3/0, 4-7=-153/172
BOT CHORD 8-9=-480/284, 7-8=-192/282, 6-7=0/0
WEBS 3-7=-290/168, 3-8=0/186, 2-8=-2/291

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 8-9-11 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: Joint 9 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 43 lb uplift at joint
9 and 74 lb uplift at joint 7.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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:

January 14, 2025

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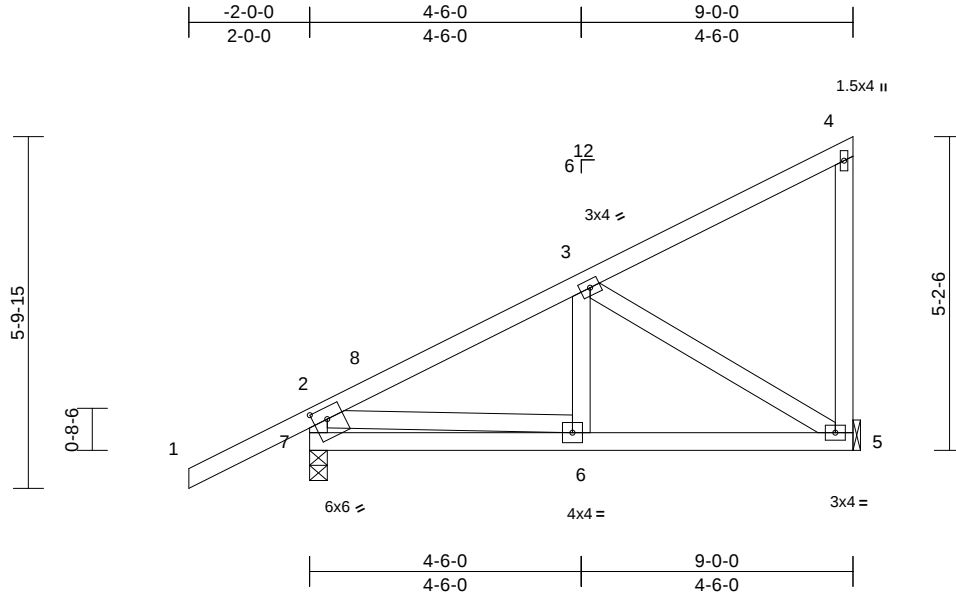
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050301
1224-054 with attic	J16	Jack-Closed	3	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:38.2

Plate Offsets (X, Y): [7-0-2-12-0-2-4]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 56 lb	FT = 20%

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

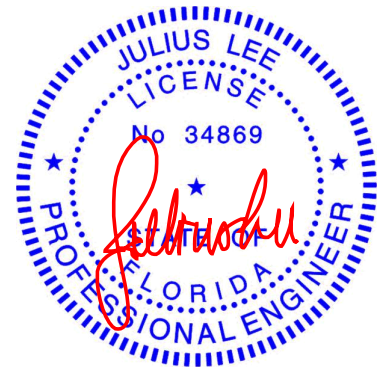
BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5= Mechanical, 7=0-3-8
Max Horiz 7=158 (LC 9)
Max Uplift 5=-11 (LC 9), 7=-53 (LC 12)
Max Grav 5=332 (LC 1), 7=493 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-449/196, 1-2=0/58, 2-3=-406/42, 3-4=-113/82, 4-5=-110/99
BOT CHORD 6-7=-200/279, 5-6=-169/331
WEBS 3-5=-348/133, 3-6=0/174, 2-6=-106/302

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 8-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: Joint 7 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7 and 11 lb uplift at joint 5.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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:

January 14,2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

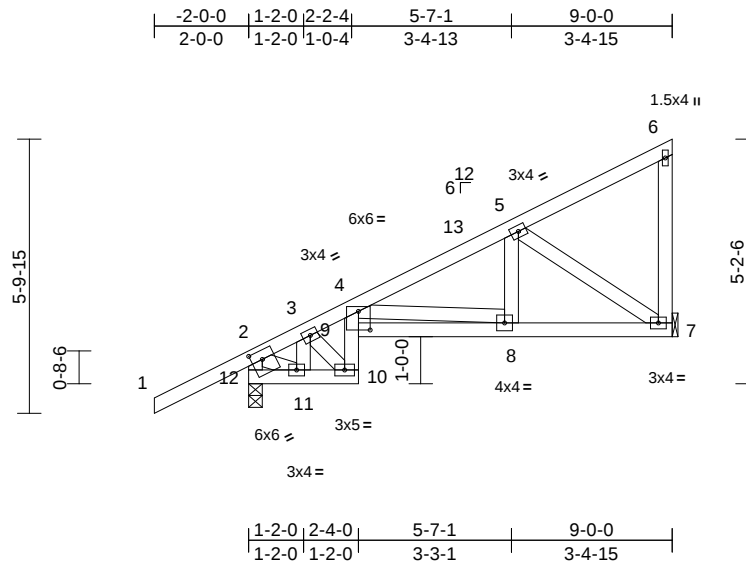
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050302
1224-054 with attic	J18	Jack-Closed	4	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00

Page: 1

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Scale = 1:49

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.03	8-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.05	8-9	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.03	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 56 lb FT = 20%											

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 7= Mechanical, 12=0-3-8

Max Horiz 12=145 (LC 9)
Max Uplift 7=-10 (LC 9), 12=-52 (LC 12)
Max Grav 7=332 (LC 1), 12=493 (LC 1)

FORCES

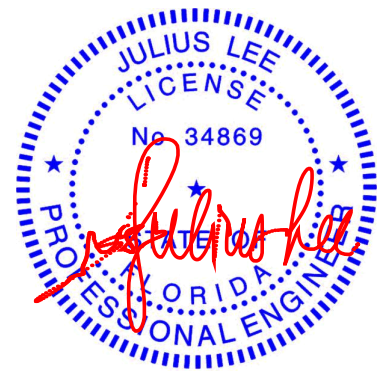
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-12=-447/187, 1-2=0/58, 2-3=-246/0, 3-4=-362/0, 4-5=-419/49, 5-6=-87/62, 6-7=-75/71
BOT CHORD 11-12=-178/156, 10-11=-177/327, 9-10=-67/134, 4-9=-40/144, 8-9=-404/867, 7-8=-181/360
WEBS 5-7=-417/167, 5-8=0/222, 4-8=-514/225, 3-11=-239/60, 2-11=-55/337, 3-10=-86/108

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-2-0, Zone1 1-2-0 to 8-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 12 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 12 and 10 lb uplift at joint 7 .
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 14,2025

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

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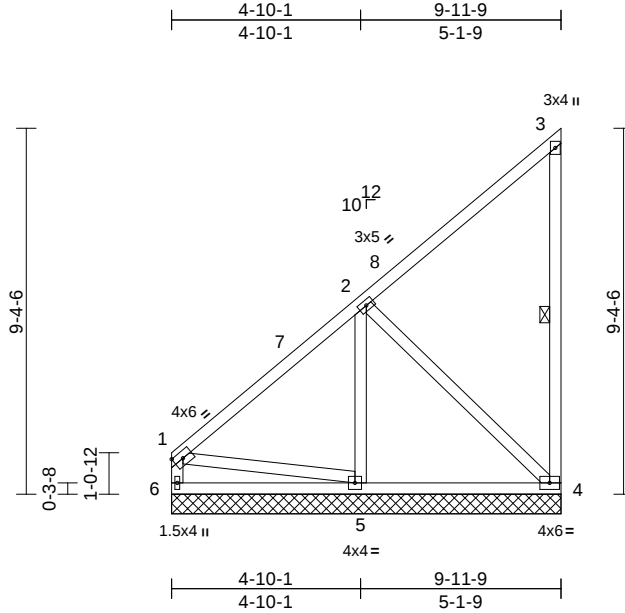
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	M01	Monopitch	1	1	Job Reference (optional)
					T36050303

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00
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Page: 1



Scale = 1:59

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 71 lb	FT = 20%

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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-4

REACTIONS

(size)	4=9-11-9, 5=9-11-9, 6=9-11-9
Max Horiz	6=266 (LC 9)
Max Uplift	4=-127 (LC 9), 5=-2 (LC 12)
Max Grav	4=281 (LC 17), 5=332 (LC 1), 6=246 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

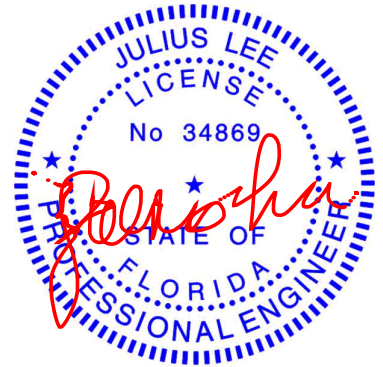
TOP CHORD	1-2=-232/145, 2-3=-202/162, 3-4=-155/160, 1-6=-209/64
BOT CHORD	5-6=-463/398, 4-5=-236/218
WEBS	2-5=-220/66, 2-4=-162/206, 1-5=-183/231

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-5-4 to 3-5-4,
Zone1 3-5-4 to 10-1-5 zone; cantilever left and right
exposed; end vertical left and right exposed; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.

- 6) All bearings are assumed to be SP No.2 .
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 127 lb uplift at joint
4 and 2 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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:

January 14, 2025

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MiTek®

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

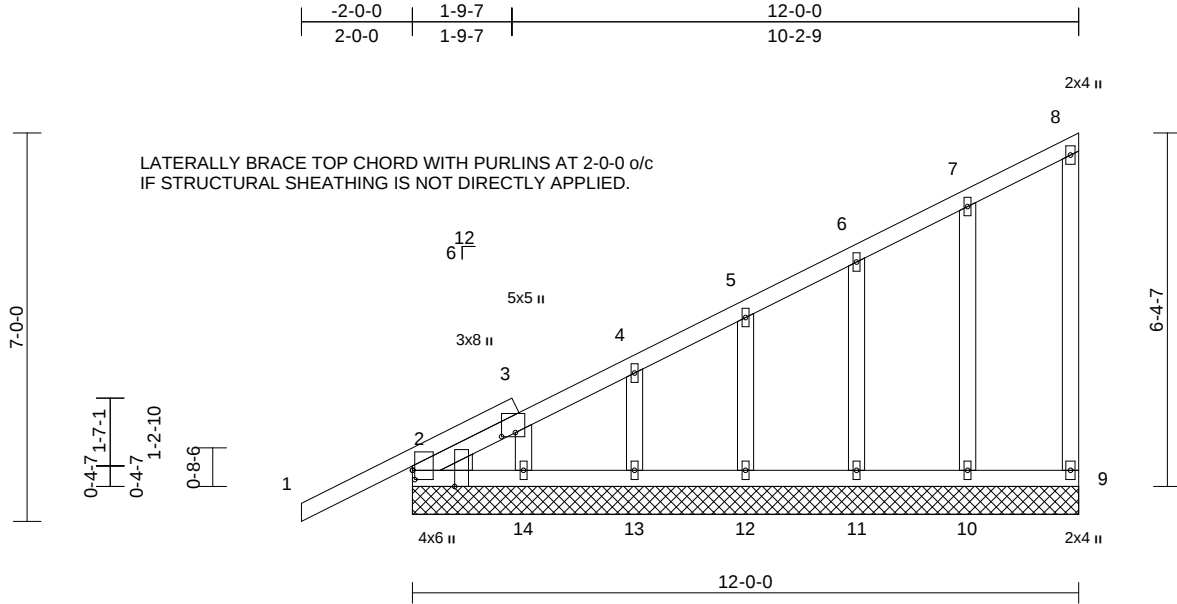
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050304
1224-054 with attic	M02	Monopitch Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00

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Scale = 1:41.5

Plate Offsets (X, Y): [2:0-2-0,0-0-8], [2:0-3-8,Edge], [3:0-0-14,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	9	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
										Weight: 75 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=12-0-0, 9=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0
Max Horiz	2=189 (LC 11)
Max Uplift	2=-51 (LC 12), 9=-19 (LC 9), 10=-14 (LC 12), 11=-11 (LC 12), 12=-11 (LC 12), 13=-13 (LC 12)
Max Grav	2=269 (LC 1), 9=68 (LC 17), 10=166 (LC 1), 11=160 (LC 1), 12=157 (LC 1), 13=171 (LC 1), 14=98 (LC 3)

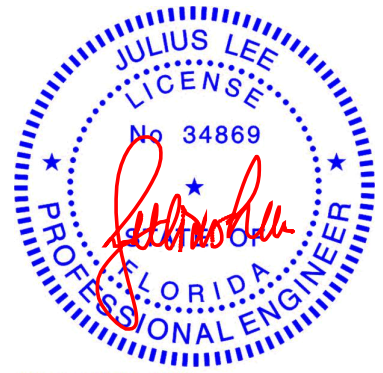
FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/50, 2-3=-362/200, 3-4=-320/178, 4-5=-274/169, 5-6=-215/150, 6-7=-159/137, 7-8=-84/96, 8-9=-46/46
BOT CHORD	2-14=-90/117, 13-14=-88/117, 12-13=-88/117, 11-12=-88/117, 10-11=-88/117, 9-10=-88/117
WEBS	7-10=-130/144, 6-11=-120/121, 5-12=-119/108, 4-13=-126/106, 3-14=-89/79

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 9, 14 lb uplift at joint 10, 11 lb uplift at joint 11, 11 lb uplift at joint 12, 13 lb uplift at joint 13 and 51 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 14,2025

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

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MiTek®

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

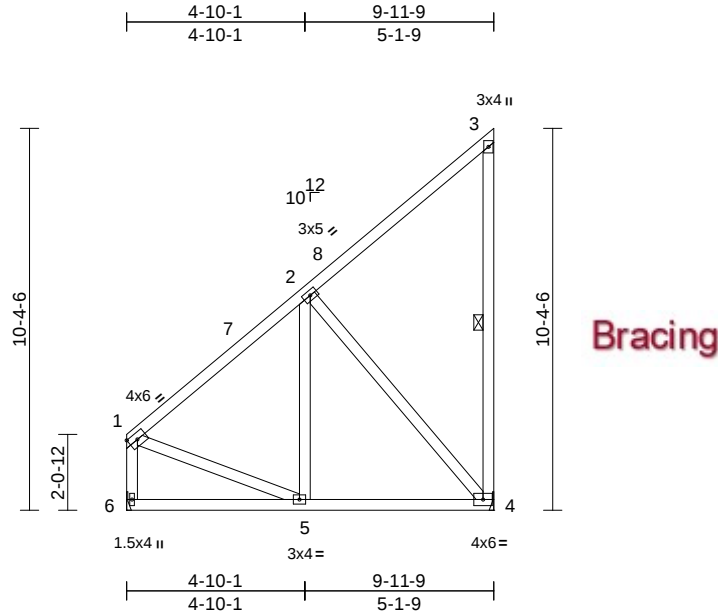
Job	Truss	Truss Type	Qty	Ply	Holloway
1224-054 with attic	M03	Jack-Closed	1	1	T36050305
					Job Reference (optional)

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:00

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 77 lb	FT = 20%

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, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-4

REACTIONS (size) 4= Mechanical, 6= Mechanical
Max Horiz 6=294 (LC 11)
Max Uplift 4=-121 (LC 9)
Max Grav 4=449 (LC 17), 6=422 (LC 18)

FORCES

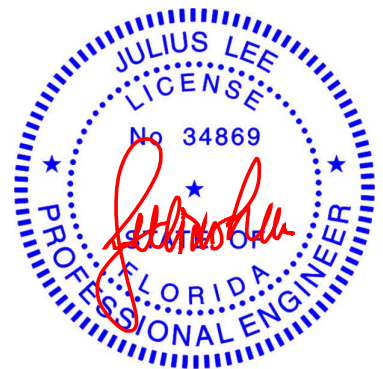
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-386/93, 1-2=-386/79, 2-3=-209/171, 3-4=-158/162
BOT CHORD 5-6=-499/402, 4-5=-243/318
WEBS 1-5=-91/275, 2-5=-1/176, 2-4=-337/227

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 10-1-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

January 14, 2025

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

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MiTek®

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

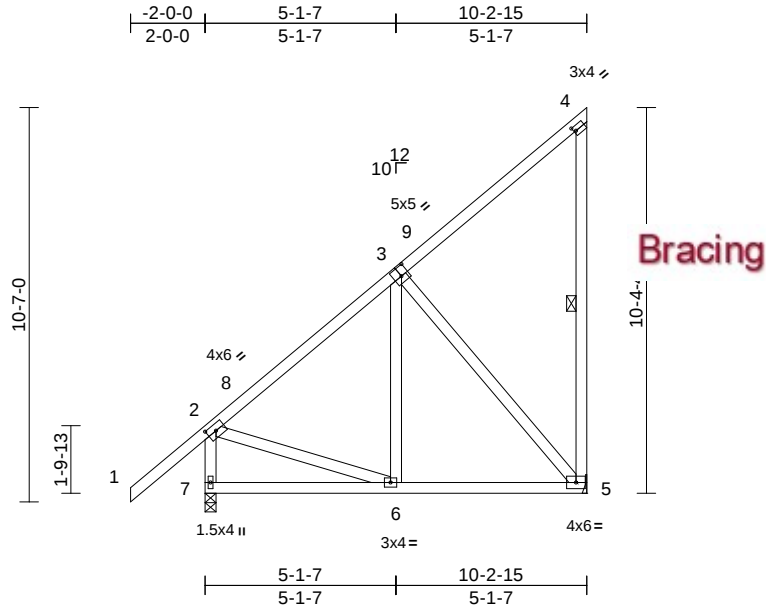
Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	M04	Jack-Closed	4	1	Job Reference (optional)	T36050306

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01

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Scale = 1:61.8

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-2-8,0-3-0], [4:0-0-11,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 82 lb	FT = 20%

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, except end verticals.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-5

REACTIONS (size) 5= Mechanical, 7=0-3-8

Max Horiz 7=317 (LC 9)

Max Uplift 5=-117 (LC 9), 7=-33 (LC 12)

Max Grav 5=445 (LC 17), 7=541 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-496/196, 1-2=0/82, 2-4=-399/169, 4-5=-155/158

BOT CHORD 6-7=-518/400, 5-6=-233/313

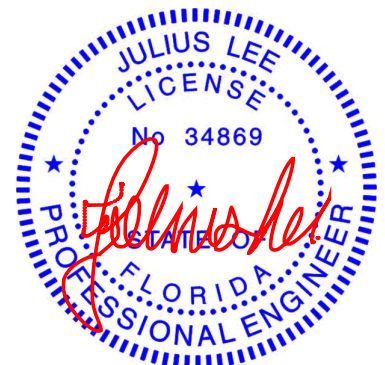
WEBS 2-6=-95/299, 3-6=-1/188, 3-5=-331/214

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
Zone1 1-0-0 to 10-1-3 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.2 .

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 33 lb uplift at joint
7 and 117 lb uplift at joint 5.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

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:

January 14,2025

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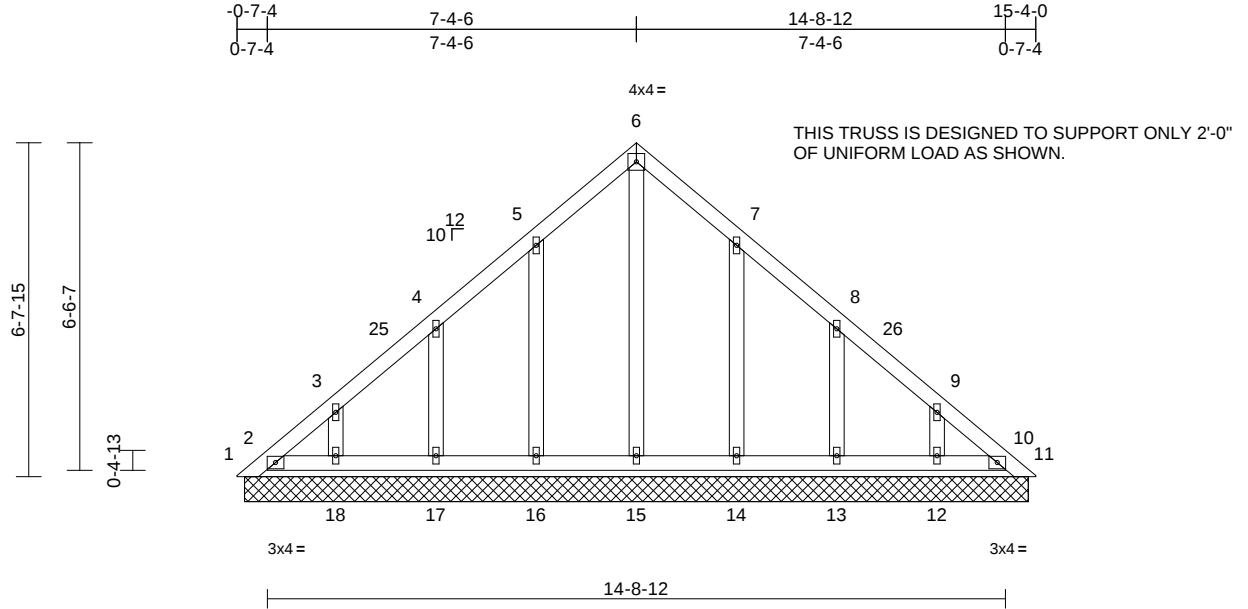
Job	Truss	Truss Type	Qty	Ply	Holloway	
1224-054 with attic	PB01x	Piggyback	1	2	Job Reference (optional)	T36050307

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

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.02	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	11	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
										Weight: 170 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1=15-7-11, 2=15-7-11, 10=15-7-11, 11=15-7-11, 12=15-7-11, 13=15-7-11, 14=15-7-11, 15=15-7-11, 16=15-7-11, 17=15-7-11, 18=15-7-11
Max Horiz	1=128 (LC 11)
Max Uplift	1=-93 (LC 10), 12=-32 (LC 12), 13=-35 (LC 12), 14=-30 (LC 12), 16=-30 (LC 12), 17=-35 (LC 12), 18=-31 (LC 12)
Max Grav	1=97 (LC 11), 2=116 (LC 17), 10=93 (LC 17), 11=7 (LC 17), 12=154 (LC 18), 13=172 (LC 18), 14=173 (LC 18), 15=124 (LC 17), 16=174 (LC 17), 17=172 (LC 17), 18=154 (LC 17)

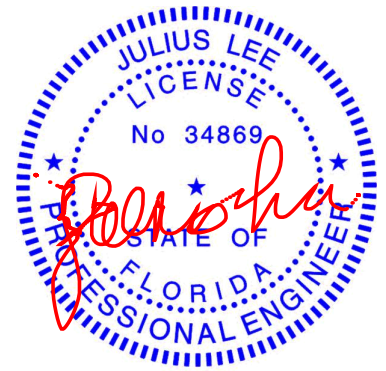
FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-159/168, 2-3=-102/99, 3-4=-106/80, 4-5=-94/68, 5-6=-94/124, 6-7=-94/125, 7-8=-64/69, 8-9=-77/41, 9-10=-103/60, 10-11=-4/18
BOT CHORD	2-18=-53/103, 17-18=-53/103, 16-17=-53/103, 15-16=-53/103, 14-15=-53/103, 13-14=-53/103, 12-13=-53/103, 10-12=-53/103
WEBS	6-15=-99/24, 5-16=-134/105, 4-17=-131/93, 3-18=-114/103, 7-14=-133/106, 8-13=-132/93, 9-12=-113/103

NOTES

- 2-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-8-6 to 3-8-6, Zone1 3-8-6 to 8-5-7, Zone2 8-5-7 to 12-5-7, Zone1 12-5-7 to 16-2-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 16, 35 lb uplift at joint 17, 31 lb uplift at joint 18, 30 lb uplift at joint 14, 35 lb uplift at joint 13, 32 lb uplift at joint 12 and 93 lb uplift at joint 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

January 14, 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 the 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)

MiTek®

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

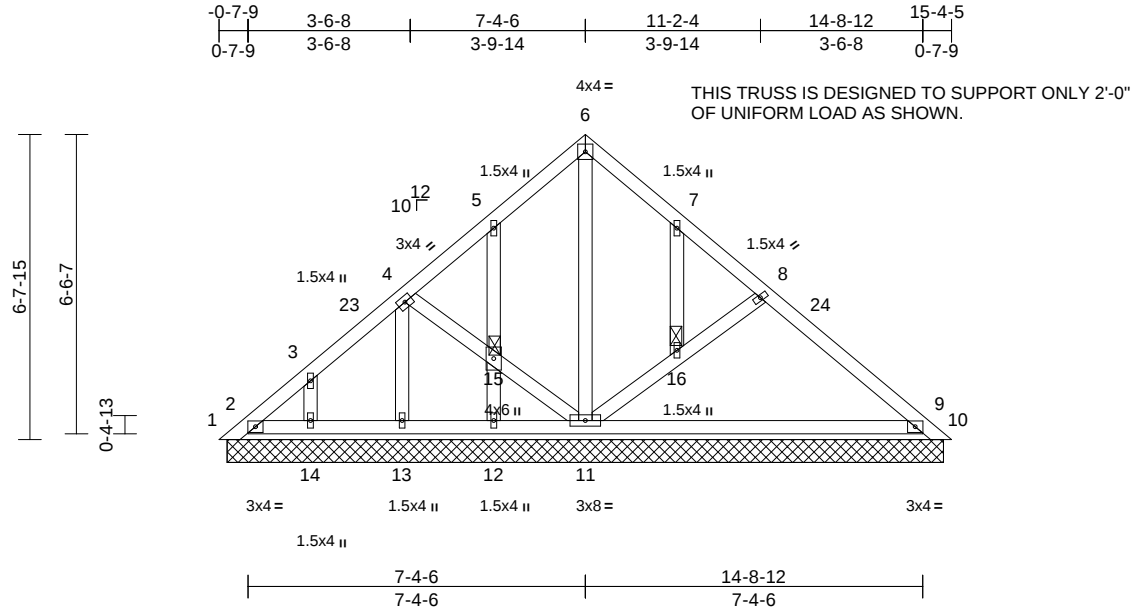
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050308
1224-054 with attic	PB02	Piggyback	1	2	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01

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Scale = 1:50.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	20	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
										Weight: 182 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 15, 16

REACTIONS	(size)	1=15-7-11, 2=15-7-11, 9=15-7-11, 10=15-7-11, 11=15-7-11, 12=15-7-11, 13=15-7-11, 14=15-7-11
Max Horiz	1=128 (LC 11)	
Max Uplift	1=93 (LC 10), 2=-1 (LC 11), 10=-421 (LC 3), 11=-2 (LC 12), 12=-49 (LC 12), 14=-32 (LC 12)	
Max Grav	1=96 (LC 11), 2=124 (LC 17), 9=663 (LC 3), 10=-61 (LC 12), 11=458 (LC 1), 12=109 (LC 17), 13=148 (LC 23), 14=151 (LC 17)	

FORCES

(lb) - Maximum Compression/Maximum Tension

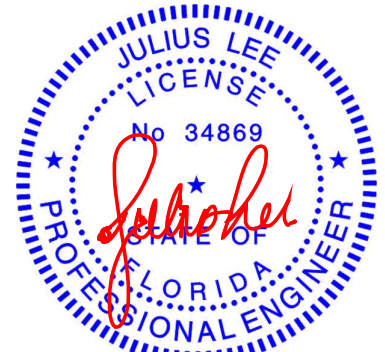
TOP CHORD	1-2=-159/169, 2-3=-85/84, 3-4=-93/64, 4-5=-58/72, 5-6=-45/74, 6-7=-31/73, 7-8=-58/41, 8-9=-234/61, 9-10=-5/281
BOT CHORD	2-14=-58/71, 13-14=-58/71, 12-13=-57/71, 11-12=-57/71, 9-11=-239/143
WEBS	6-11=-176/0, 11-16=-216/146, 8-16=-192/125, 4-15=-66/88, 11-15=-67/89, 5-15=-122/95, 12-15=-121/93, 4-13=-94/0, 3-14=-116/101, 7-16=-40/36

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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-8-3 to 3-8-3, Zone1 3-8-3 to 8-5-7, Zone2 8-5-7 to 12-4-12, Zone1 12-4-12 to 16-2-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 2 lb uplift at joint 11, 49 lb uplift at joint 12, 32 lb uplift at joint 14, 93 lb uplift at joint 1, 421 lb uplift at joint 10 and 1 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

January 14, 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 the 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)

MiTek®

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

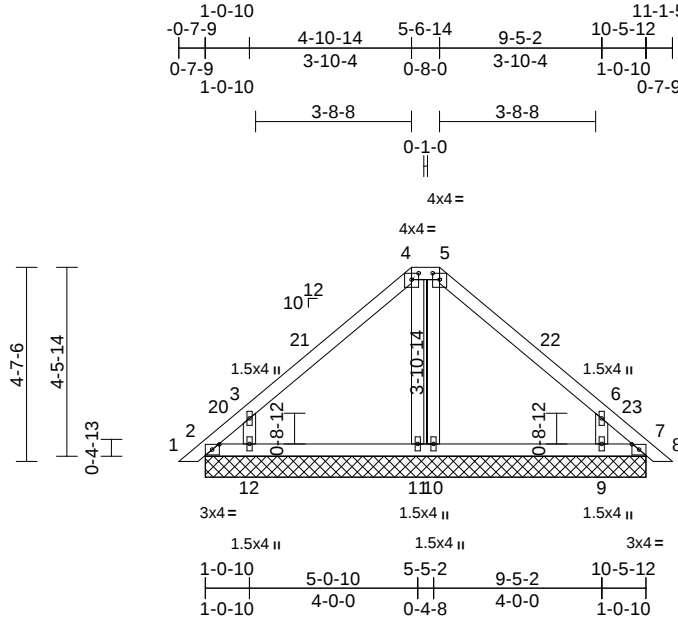
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050309
1224-054 with attic	PB03	Piggyback	1	1	Job Reference (optional)	

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

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Scale = 1:54.8

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [4:0-2-0,0-1-13], [5:0-2-0,0-1-13], [7:0-2-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	17	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 52 lb FT = 20%											

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.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS	(size)	2=10-5-12, 7=10-5-12, 9=10-5-12, 10=10-5-12, 11=10-5-12, 12=10-5-12
	Max Horiz	2=-89 (LC 10)
	Max Uplift	2=-61 (LC 10), 7=-39 (LC 11), 9=-60 (LC 12), 11=-6 (LC 9), 12=-60 (LC 12)
	Max Grav	2=42 (LC 9), 7=32 (LC 8), 9=301 (LC 18), 10=201 (LC 24), 11=201 (LC 23), 12=303 (LC 17)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/15, 2-3=-100/96, 3-4=-118/82, 4-5=-55/106, 5-6=-111/87, 6-7=-101/72, 7-8=0/15
BOT CHORD	2-12=-28/71, 11-12=-28/71, 10-11=-27/71, 9-10=-24/71, 7-9=-24/71
WEBS	4-11=-152/35, 5-10=-152/24, 3-12=-258/228, 6-9=-258/228

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 5-6-7, Zone3 5-6-7 to 6-2-7, Zone2 6-2-7 to 10-5-6, Zone1 10-5-6 to 11-6-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2, 39 lb uplift at joint 7, 6 lb uplift at joint 11, 60 lb uplift at joint 12, 60 lb uplift at joint 9, 61 lb uplift at joint 2 and 39 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

January 14, 2025

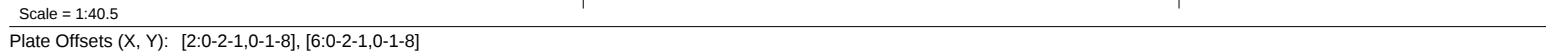
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:01 Page: 1
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LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=10-5-12, 6=10-5-12, 8=10-5-12,
9=10-5-12, 10=10-5-12
Max Horiz 2=-93 (LC 10)
Max Uplift 2=-46 (LC 10), 6=-27 (LC 11),
8=-59 (LC 12), 10=-59 (LC 12)
Max Grav 2=72 (LC 18), 6=58 (LC 17), 8=299
(LC 18), 9=256 (LC 1), 10=300 (LC
17)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/15, 2-3=-102/90, 3-4=-134/100,
4-5=-130/105, 5-6=-107/62, 6-7=0/15
BOT CHORD 2-10=-24/82, 9-10=-24/82, 8-9=-24/82,
6-8=-24/82
WEBS 4-9=-169/13, 3-10=-257/244, 5-8=-256/244

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12,
 Zone1 3-2-12 to 5-10-7, Zone2 5-10-7 to 9-10-7, Zone1
 9-10-7 to 11-6-3 zone; cantilever left and right exposed ;
 end vertical left and right exposed;C-C for members and
 forces & MWFRS for reactions shown; Lumber
 DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss
 only. For studs exposed to wind (normal to the face),
 see Standard Industry Gable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2, 27 lb uplift at joint 6, 59 lb uplift at joint 10, 59 lb uplift at joint 8, 46 lb uplift at joint 2 and 27 lb uplift at joint 6.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 14, 2025



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16023 Swingley Ridge Rd.
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314.434.1200 / MiTek-US.com

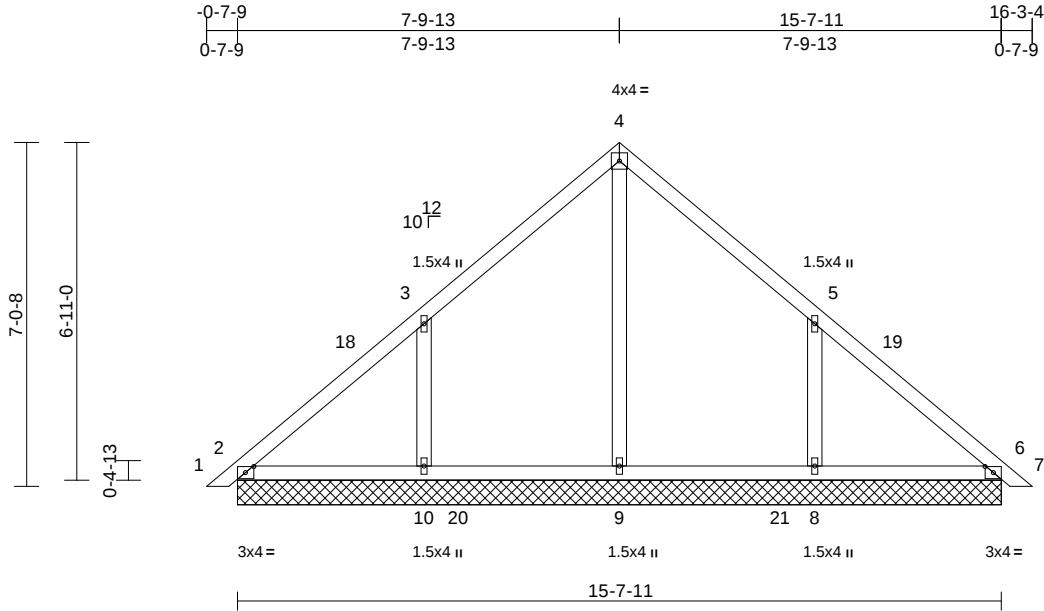
Job	Truss	Truss Type	Qty	Ply	Holloway	T36050311
1224-054 with attic	PB05	Piggyback	24	1	Job Reference (optional)	

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

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Scale = 1:47.2

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [6:0-2-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
										Weight: 74 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=15-7-11, 6=15-7-11, 8=15-7-11,
9=15-7-11, 10=15-7-11
Max Horiz 2=-136 (LC 10)
Max Uplift 8=-76 (LC 12), 10=-76 (LC 12)
Max Grav 2=213 (LC 18), 6=193 (LC 17),
8=469 (LC 18), 9=324 (LC 17),
10=470 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-152/93, 3-4=-159/132,
4-5=-148/134, 5-6=-122/53, 6-7=0/15
BOT CHORD 2-10=-36/91, 9-10=-36/91, 8-9=-36/91,
6-8=-36/91

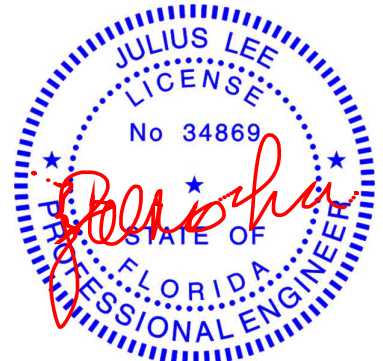
WEBS 4-9=-137/0, 3-10=-286/182, 5-8=-286/182

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 8-5-7, Zone2 8-5-7 to 12-5-7, Zone1 12-5-7 to 16-8-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 10 and 76 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

January 14,2025

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.sbcsccomponents.com)

MiTek®

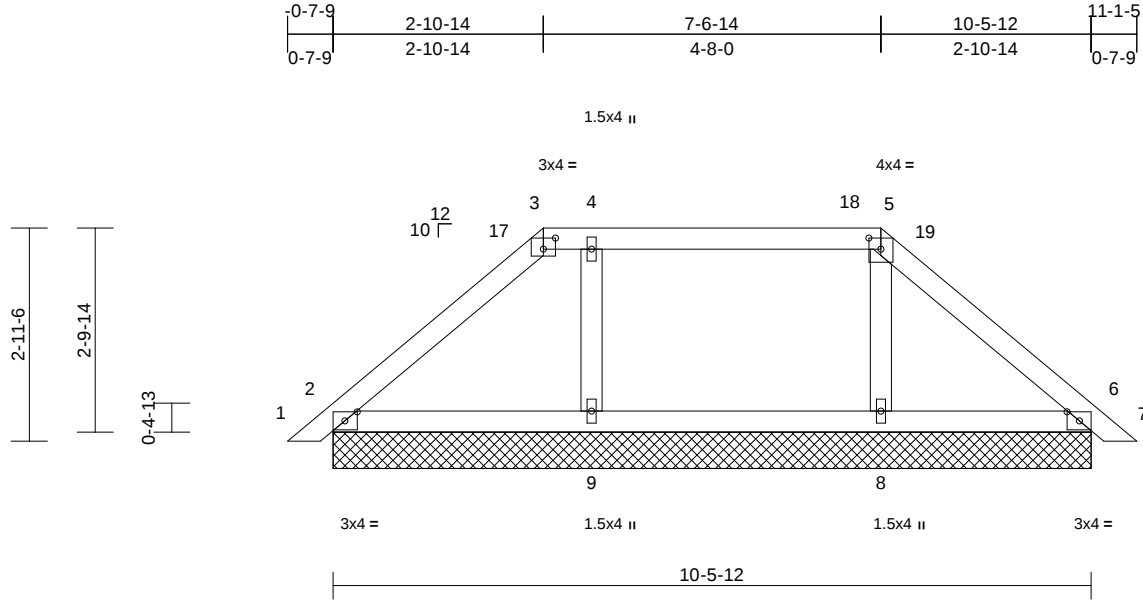
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Holloway	T36050312
1224-054 with attic	PB06	Piggyback	1	1	Job Reference (optional)	

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

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Tue Jan 14 09:20:02
ID:zdU3QH1WP1jdNOSWxkDHWz8Zh-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwCRD0i7J4zJC?f

Page: 1



Scale = 1:31.9

Plate Offsets (X, Y): [2:0-2-1,0-1-8], [3:0-2-0,0-1-13], [5:0-2-0,0-1-13], [6:0-2-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
										Weight: 43 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	2=10-5-12, 6=10-5-12, 8=10-5-12, 9=10-5-12
Max Horiz	2=-55 (LC 10)
Max Uplift	2=-22 (LC 12), 6=-24 (LC 12), 8=-17 (LC 8), 9=-7 (LC 9)
Max Grav	2=169 (LC 1), 6=154 (LC 1), 8=304 (LC 24), 9=323 (LC 23)

FORCES

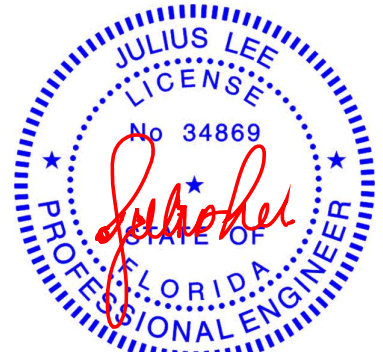
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/15, 2-3=-90/75, 3-4=-62/97, 4-5=-62/96, 5-6=-99/69, 6-7=0/15
BOT CHORD	2-9=-18/70, 8-9=-18/70, 6-8=-18/70
WEBS	5-8=-217/62, 4-9=-229/64

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 3-6-7, Zone2 3-6-7 to 7-9-6, Zone1 7-9-6 to 8-2-7, Zone3 8-2-7 to 11-6-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2, 24 lb uplift at joint 6, 17 lb uplift at joint 8, 7 lb uplift at joint 9, 22 lb uplift at joint 2 and 24 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

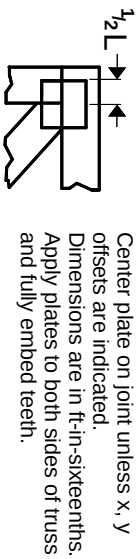
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall 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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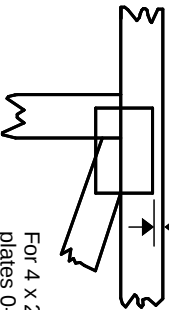
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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.

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

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

PLATE SIZE

4 X 4

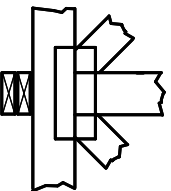
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

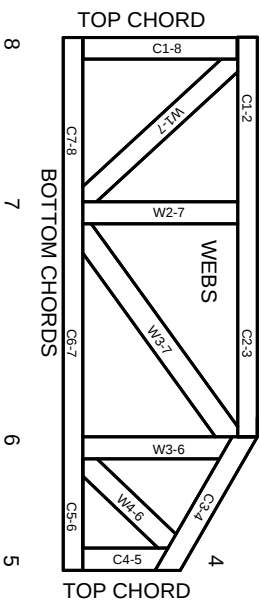
Industry Standards:

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

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

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.