



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

RE: 0997-A - Lot 3 Spec

MiTek USA, Inc.

16023 Swingley Ridge Rd  
Chesterfield, MO 63017

**Site Information:**

Customer Info: CJ Custom Carpentry Project Name: Lt3 Spec Model: .  
Lot/Block: . Subdivision: .  
Address: 453 SW Legion Drive, .  
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:

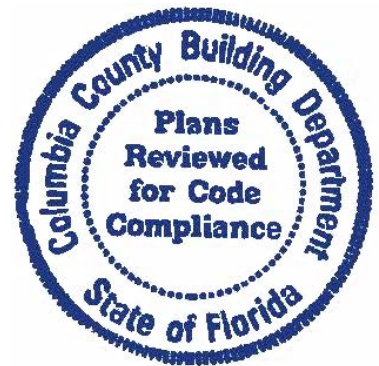
**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.6  
Wind Code: ASCE 7-16 Wind Speed: 140 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 43 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	T30455013	A01E	5/1/23	23	T30455035	B24E	5/1/23
2	T30455014	A02	5/1/23	24	T30455036	B25	5/1/23
3	T30455015	A03	5/1/23	25	T30455037	B26	5/1/23
4	T30455016	A04	5/1/23	26	T30455038	B27G	5/1/23
5	T30455017	A05	5/1/23	27	T30455039	B28E	5/1/23
6	T30455018	A06	5/1/23	28	T30455040	B29G	5/1/23
7	T30455019	A07	5/1/23	29	T30455041	B30C	5/1/23
8	T30455020	A08	5/1/23	30	T30455042	BJ1	5/1/23
9	T30455021	A10	5/1/23	31	T30455043	BJ3	5/1/23
10	T30455022	A11	5/1/23	32	T30455044	BJ5	5/1/23
11	T30455023	A12	5/1/23	33	T30455045	CJ3	5/1/23
12	T30455024	A13	5/1/23	34	T30455046	CJ7	5/1/23
13	T30455025	A14	5/1/23	35	T30455047	EJ1	5/1/23
14	T30455026	A15	5/1/23	36	T30455048	EJ1A	5/1/23
15	T30455027	A16	5/1/23	37	T30455049	EJ3	5/1/23
16	T30455028	A17C	5/1/23	38	T30455050	EJ7	5/1/23
17	T30455029	A18	5/1/23	39	T30455051	EJ7A	5/1/23
18	T30455030	A19	5/1/23	40	T30455052	PB1	5/1/23
19	T30455031	A20	5/1/23	41	T30455053	PB2	5/1/23
20	T30455032	A21C	5/1/23	42	T30455054	PB3	5/1/23
21	T30455033	B22	5/1/23	43	T30455055	PB4	5/1/23
22	T30455034	B23	5/1/23				

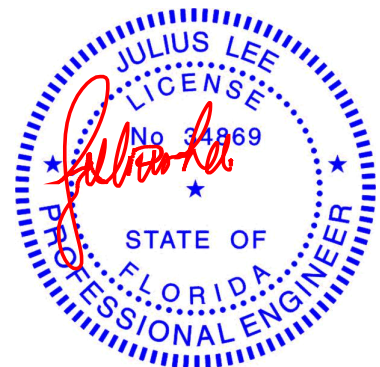


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by 19 Lumber, Inc..

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:

May 2, 2023

Lee, Julius

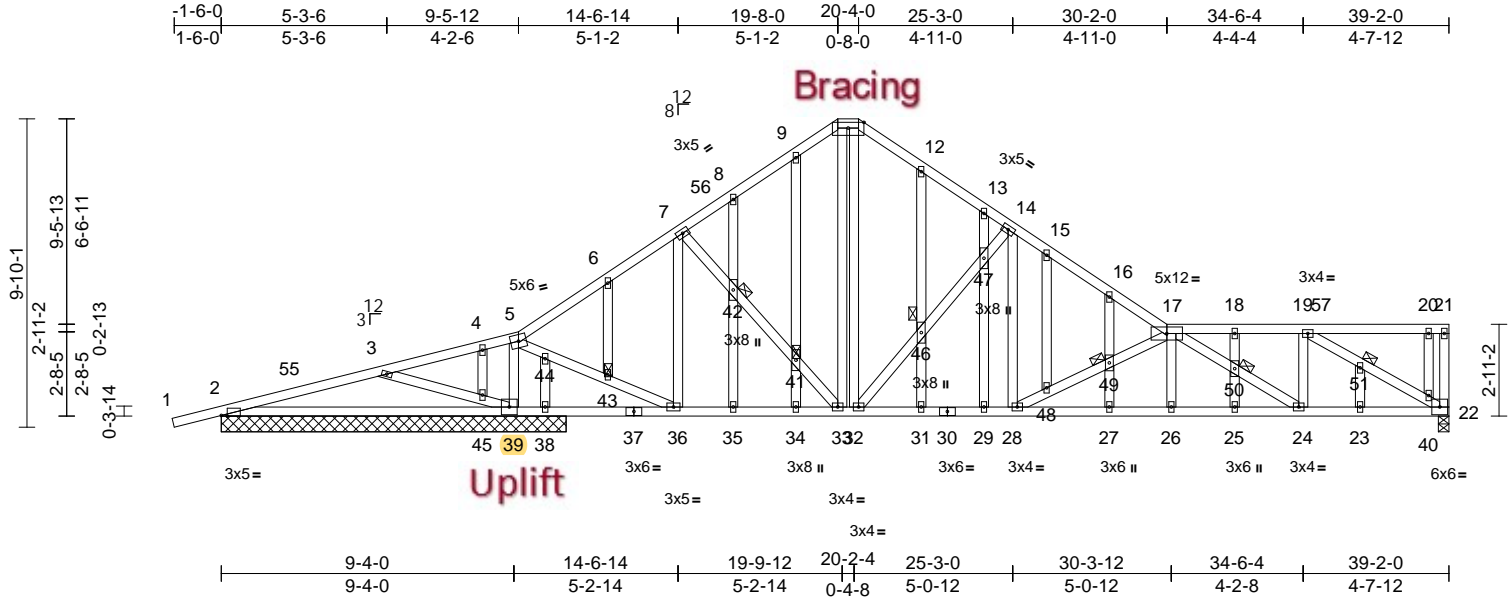
1 of 1

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	T30455013
0997-A	A01E	Roof Special Structural Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:00  
ID:veYU4?oc0WhQpVSVG6dK5fPaEO-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:73.5

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

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	0.58	Vert(LL)	0.20	27-28	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.28	27-28	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	22	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 312 lb FT = 20%											

<b>LUMBER</b>		<b>BOT CHORD</b>		2-39=-346/181, 38-39=-744/485, 36-38=-744/485, 35-36=-318/710, 34-35=-318/710, 33-34=-318/710, 32-33=-317/749, 31-32=-686/1354, 29-31=-686/1354, 28-29=-686/1354, 27-28=-1312/2574, 26-27=-1312/2574, 25-26=-1315/2582, 24-25=-1315/2582, 23-24=-843/1629, 22-23=-843/1629 3-45=-658/455, 39-45=-679/485, 5-39=-1406/753, 5-44=-753/1478, 43-44=-806/1503, 36-43=-758/1454, 7-36=-463/270, 7-42=-132/274, 41-42=-133/258, 33-41=-150/278, 10-33=-313/363, 11-32=-328/421, 32-46=-959/644, 46-47=-936/620, 14-47=-913/606, 17-26=-57/146, 19-51=-1850/927, 40-51=-1846/907, 22-40=-1927/996, 19-24=-284/698, 17-50=-1098/545, 24-50=-1129/557, 14-28=-414/769, 28-48=-1380/743, 48-49=-1381/740, 17-49=-1388/743, 20-40=-154/166, 9-41=-64/109, 34-41=-71/108, 8-42=-65/95, 35-42=-35/64, 6-43=-146/131, 38-44=-95/131, 4-45=-70/94, 12-46=-81/138, 31-46=-36/107, 13-47=0/36, 29-47=-11/59, 15-48=0/20, 16-49=-89/121, 27-49=-77/123, 18-50=-70/70, 25-50=-14/51, 23-51=-10/42		2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1) 2-4-9 to 19-8-0, Exterior(2E) 19-8-0 to 20-4-0, Exterior (2R) 20-4-0 to 24-4-0, Interior (1) 24-4-0 to 39-0-4 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	
TOP CHORD	2x4 SP No.2	<b>WEBS</b>		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.			
BOT CHORD	2x4 SP No.2	<b>JOINTS</b>		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.			
WEBS	2x4 SP No.2	<b>REACTIONS</b>		5) Provide adequate drainage to prevent water ponding.			
OTHERS	2x4 SP No.2	(size) 2=11-0-0, 22=0-4-0, 38=11-0-0, 39=11-0-0, 52=11-0-0		6) All plates are 2x4 MT20 unless otherwise indicated.			
<b>BRACING</b>		Max Horiz 2=431 (LC 11), 52=431 (LC 11)		7) Gable studs spaced at 2-0-0 o.c.			
		Max Uplift 2=-292 (LC 8), 22=-491 (LC 13), 38=-141 (LC 12), 39=-608 (LC 12), 52=-292 (LC 8)		8) This truss has been designed for a 10.6 psf bottom chord live load nonconcurrent with any other live loads.			
		Max Grav 2=300 (LC 23), 22=1115 (LC 1), 38=68 (LC 19), 39=1834 (LC 1), 52=300 (LC 23)					
<b>FORCES</b>		(lb) - Maximum Compression/Maximum Tension					
TOP CHORD	1-2=0/22, 2-3=-244/472, 3-4=-609/869, 4-5=-586/869, 5-6=-766/396, 6-7=-743/483, 7-8=-948/617, 8-9=-914/669, 9-10=-886/729, 10-11=-746/651, 11-12=-899/707, 12-13=-937/618, 13-14=-975/595, 14-15=-1574/908, 15-16=-1637/899, 16-17=-1674/826, 17-18=-1629/836, 18-19=-1629/836, 19-20=-79/75, 20-21=-79/75, 21-22=-35/13	<b>NOTES</b>					
		1) Unbalanced roof live loads have been considered for this design.					

Professional Engineer Seal for Julius Lee, No. 34869, State of Florida. The seal is circular with a blue border containing the text 'PROFESSIONAL ENGINEER' and 'FLORIDA'. Inside the seal, the name 'Julius Lee' is written in red cursive, and the number 'No 34869' is printed in blue.

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

May 2, 2023

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	A01E	Roof Special Structural Gable	1	1	T30455013 Job Reference (optional)

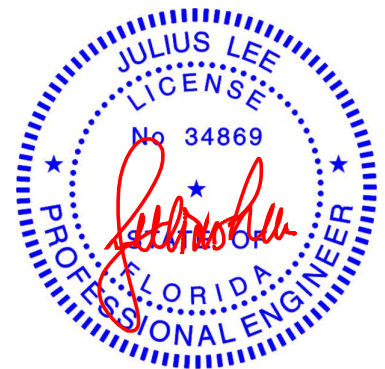
19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:00  
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Page: 2

- 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 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 491 lb uplift at joint 22, 292 lb uplift at joint 2, 608 lb uplift at joint 39, 141 lb uplift at joint 38 and 292 lb uplift at joint 2.

**LOAD CASE(S)** Standard



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

May 2, 2023

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



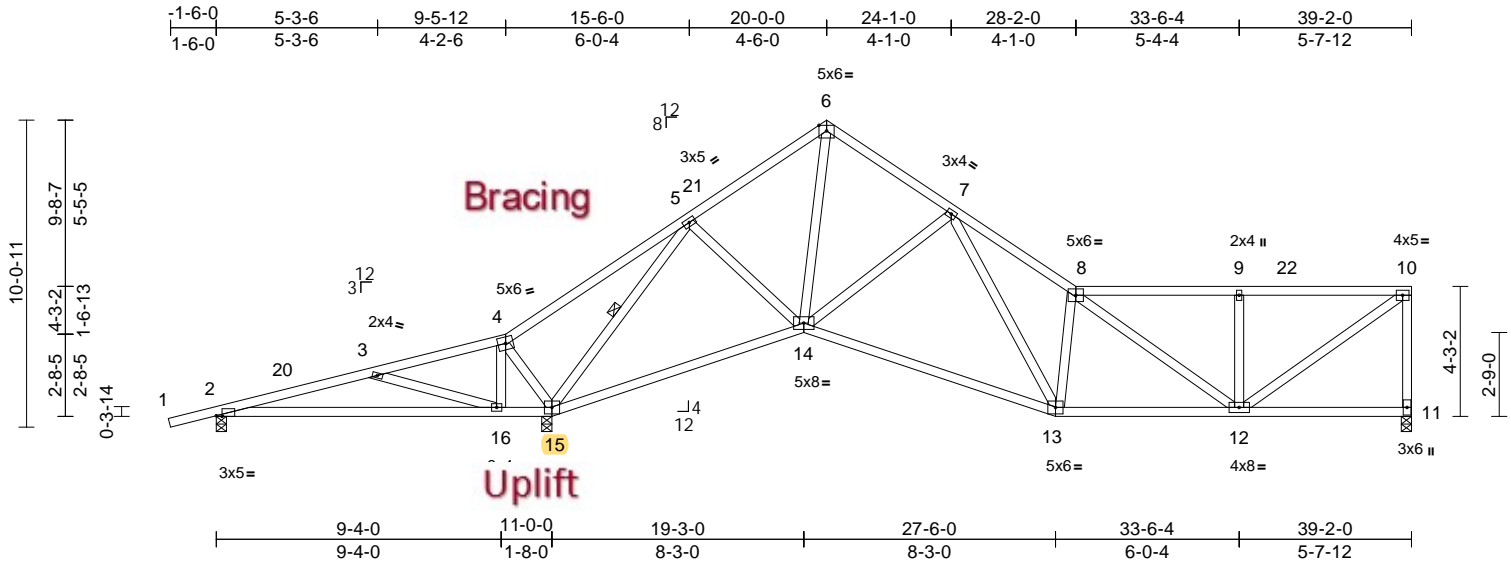
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A02	Roof Special	1	1	Job Reference (optional)	T30455014

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:03  
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Page: 1



Scale = 1:75.5

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

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	0.58	Vert(LL)	-0.19	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.42	13-14	>804	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 223 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 4-2-9 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 5-15

#### REACTIONS

(size) 2=0-4-0, 11=0-4-0, 15=0-4-0  
Max Horiz 2=466 (LC 11)  
Max Uplift 2=-305 (LC 8), 11=-474 (LC 13), 15=-759 (LC 12)  
Max Grav 2=358 (LC 23), 11=1029 (LC 1), 15=1882 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-257/438, 3-4=-539/629, 4-5=-572/1027, 5-6=-1024/657, 6-7=-905/610, 7-8=-1848/1029, 8-9=-1180/654, 9-10=-1180/654, 10-11=-978/544

BOT CHORD 2-16=-283/244, 15-16=-602/420, 14-15=-411/722, 13-14=-733/1257, 12-13=-882/1641, 11-12=-83/84

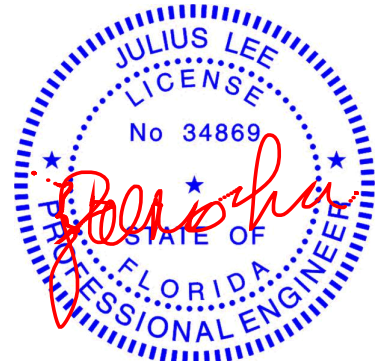
WEBS 3-16=-643/485, 4-16=-77/386, 5-15=-2093/1244, 5-14=-90/471, 6-14=-496/781, 7-14=-619/555, 7-13=-419/720, 8-13=-898/586, 8-12=-574/299, 9-12=-376/327, 10-12=-716/1431, 4-15=-378/235

#### NOTES

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1) 2-4-9 to 20-0-0, Exterior(2R) 20-0-0 to 24-1-0, Interior (1) 24-1-0 to 39-0-4 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 11, 305 lb uplift at joint 2 and 759 lb uplift at joint 15.

LOAD CASE(S) Standard



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Date:

May 2, 2023

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



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Chesterfield, MO 63017

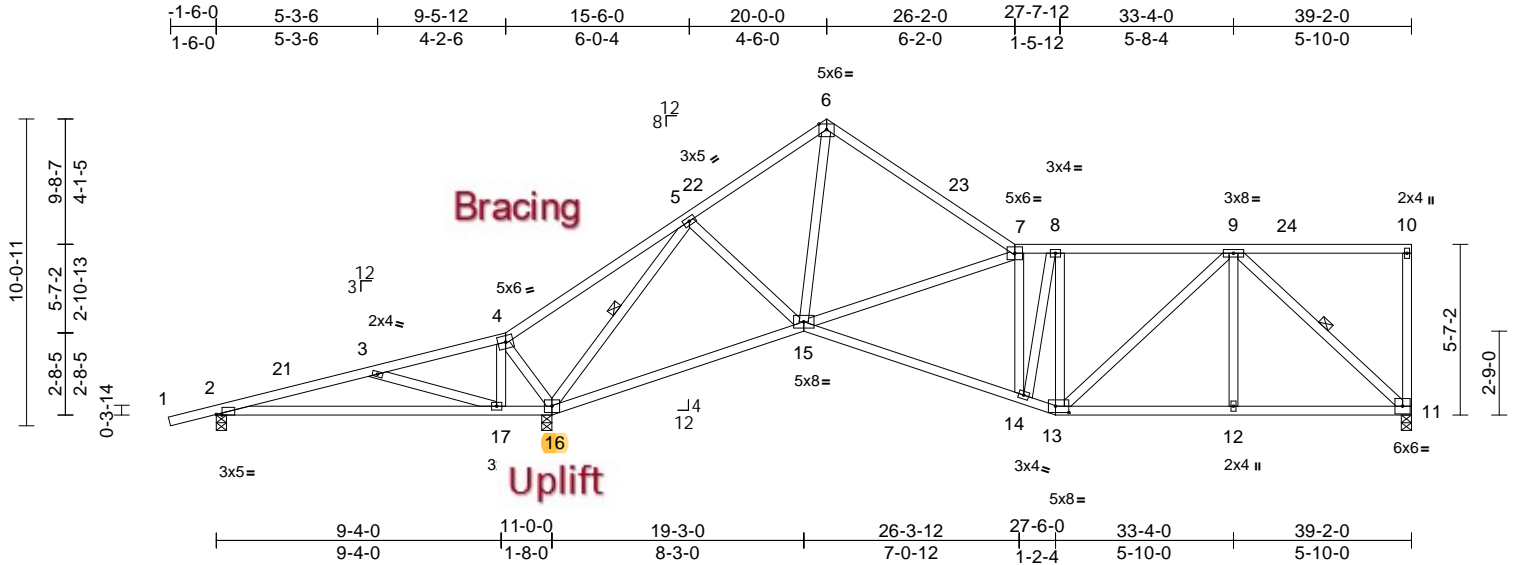


Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A03	Roof Special	1	1	Job Reference (optional)	T30455015

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:75.5

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

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	0.62	Vert(LL)	-0.17	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.36	15-16	>929	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 237 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 4-8-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 5-16, 9-11

**REACTIONS** (size) 2-0-4-0, 11-0-4-0, 16-0-4-0  
Max Horiz 2=493 (LC 11)  
Max Uplift 2=-309 (LC 8), 11=-490 (LC 13), 16=-753 (LC 12)  
Max Grav 2=366 (LC 23), 11=1036 (LC 1), 16=1857 (LC 1)

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

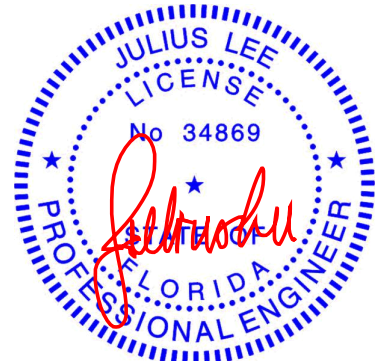
TOP CHORD 1-2=0/22, 2-3=-291/441, 3-4=-561/573, 4-5=-593/956, 5-6=-1049/680, 6-7=-970/602, 7-8=-1390/793, 8-9=-1277/745, 9-10=-123/132, 10-11=-143/125  
BOT CHORD 2-17=-274/276, 16-17=-531/369, 15-16=-532/742, 14-15=-887/1510, 13-14=-772/1361, 12-13=-539/917, 11-12=-539/917  
WEBS 3-17=-640/484, 4-17=-78/381, 5-16=-2044/1284, 5-15=-124/468, 6-15=-429/755, 7-15=-740/570, 7-14=-437/413, 8-14=-306/523, 8-13=-726/419, 9-13=-276/486, 9-12=0/266, 9-11=-1235/635, 4-16=-388/242

#### NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1) 2-4-9 to 20-0-0, Exterior(2R) 20-0-0 to 23-11-0, Interior (1) 23-11-0 to 39-0-4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 490 lb uplift at joint 11, 309 lb uplift at joint 2 and 753 lb uplift at joint 16.

**LOAD CASE(S)** Standard



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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

May 2, 2023

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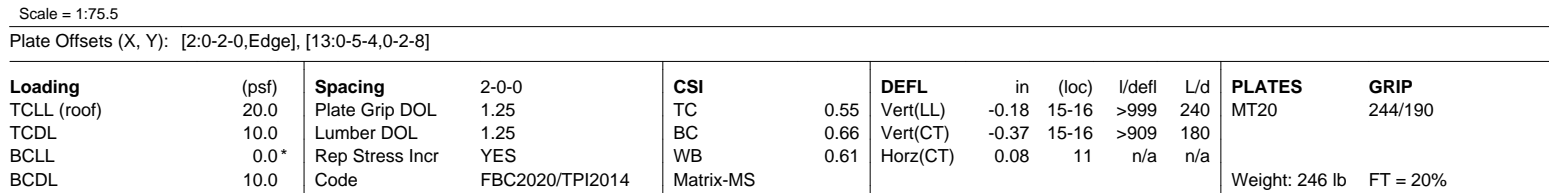
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:04 Page: 1  
ID:1NFxiixGNbhlLlaH81oIShnzPa6S-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWkrCDoI7J4zJC?f



- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Csd: II; Exp C; Enclosed; MWFRS (envelope) exterior  
zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1)  
2-4-9 to 2-0-0, Exterior(2E) 2-0-0-0 to 2-2-0, Interior  
(1) 2-2-0-0 to 3-9-0-4 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) All bearings are assumed to be SP No.2 crushing  
capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 510 lb uplift at  
joint 11, 308 lb uplift at joint 2 and 748 lb uplift at joint  
16.

**NOTES**

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



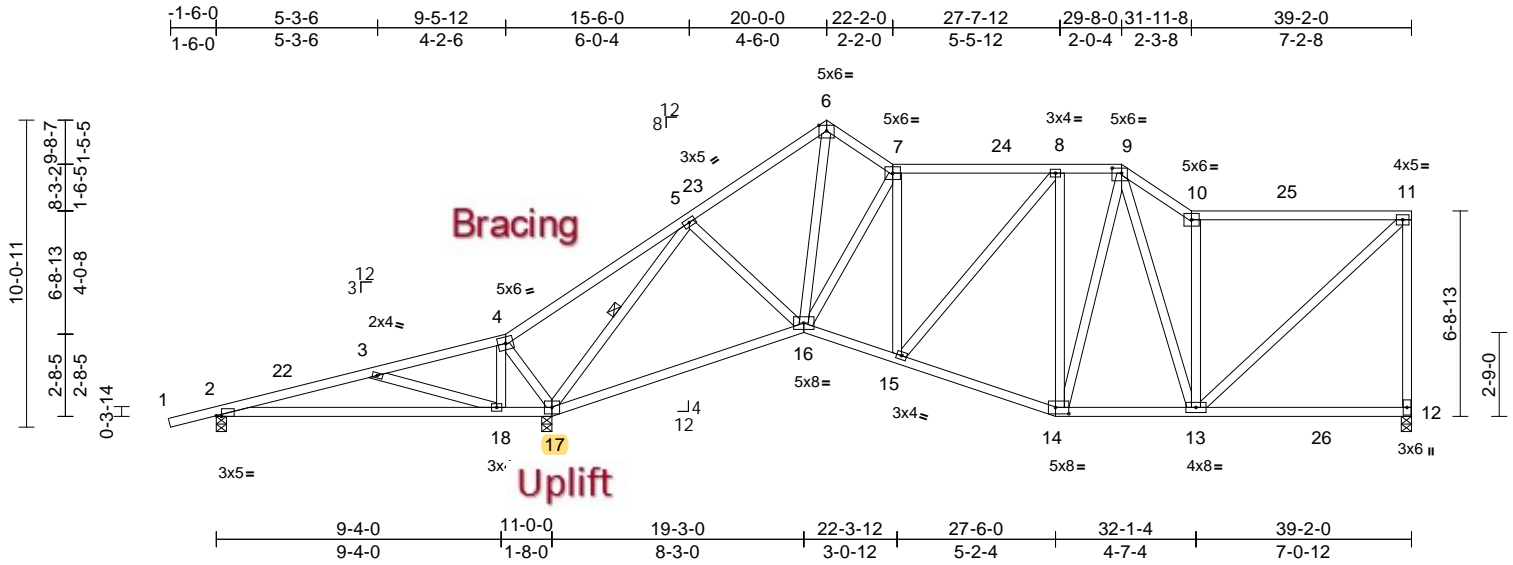
May 2, 2023

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	A05	Roof Special	1	1	T30455017
Job Reference (optional)					

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:04  
ID:MRRRrE4Hh\_EUnJ9uTQyM6zPa3h-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:75.5

Plate Offsets (X, Y): [2:0-2-0,Edge], [9:0-3-12,0-2-0], [14:0-5-4,0-2-8]

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	0.91	Vert(LL)	-0.18	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.37	16-17	>907	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 263 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 3-4-13 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 5-17

#### REACTIONS

(size) 2=0-4-0, 12=0-4-0, 17=0-4-0  
Max Horiz 2=516 (LC 11)  
Max Uplift 2=-306 (LC 8), 12=-507 (LC 13), 17=-749 (LC 12)  
Max Grav 2=378 (LC 23), 12=1148 (LC 2), 17=1949 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-348/432, 3-4=-604/549, 4-5=-634/893, 5-6=-1209/720, 6-7=-1044/683, 7-8=-1096/676, 8-9=-920/628, 9-10=-1179/769, 10-11=-915/553, 11-12=-1004/613  
BOT CHORD 2-18=-278/319, 17-18=-500/331, 16-17=-646/873, 15-16=-802/1277, 14-15=-645/1009, 13-14=-552/848, 12-13=-138/141

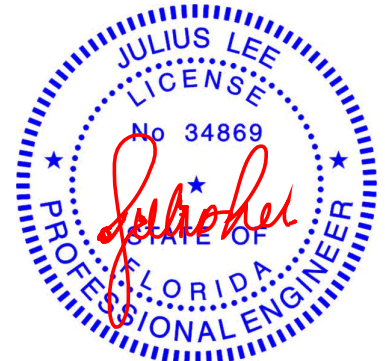
WEBS 3-18=-640/485, 4-18=-79/421, 5-17=-2096/1368, 5-16=-116/513, 6-16=-604/1034, 7-16=-653/477, 7-15=-252/262, 8-15=-226/396, 8-14=-496/462, 10-13=-918/672, 11-13=-639/1216, 9-14=-234/338, 9-13=-263/341, 4-17=-415/243

#### NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1) 2-4-9 to 20-0-0, Exterior(2E) 20-0-0 to 22-2-0, Interior (1) 22-2-0 to 29-8-0, Exterior(2E) 29-8-0 to 31-11-8, Interior (1) 31-11-8 to 39-0-4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 507 lb uplift at joint 12, 306 lb uplift at joint 2 and 749 lb uplift at joint 17.

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:

May 2,2023

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

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

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

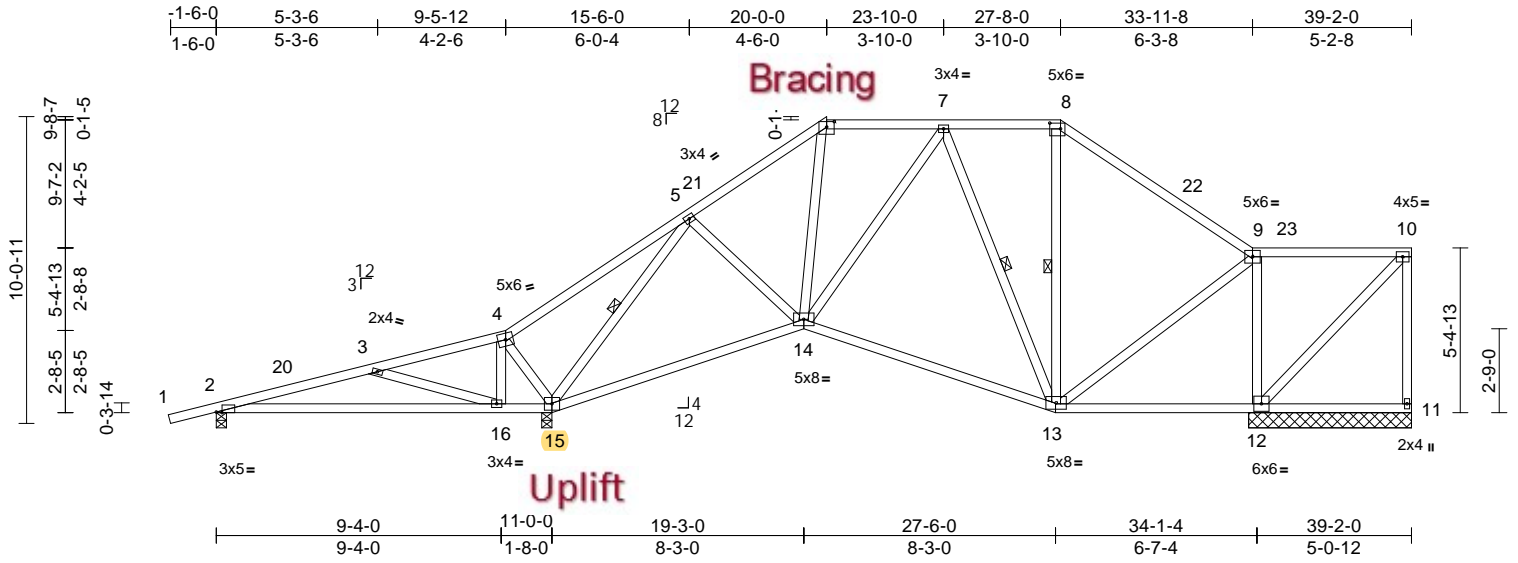
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	T30455018
0997-A	A06	Roof Special	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:05

Page: 1

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Scale = 1:75.5

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

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	0.63	Vert(LL)	-0.16	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.33	13-14	>841	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 243 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.

WEBS 1 Row at midpt 5-15, 8-13, 7-13

**REACTIONS** (size) 2=0-4-0, 11=5-4-0, 12=5-4-0, 15=0-4-0  
Max Horiz 2=485 (LC 11)  
Max Uplift 2=-302 (LC 8), 11=-104 (LC 23), 12=-494 (LC 13), 15=-657 (LC 12)  
Max Grav 2=407 (LC 23), 11=60 (LC 12), 12=1329 (LC 1), 15=1508 (LC 1)

#### FORCES

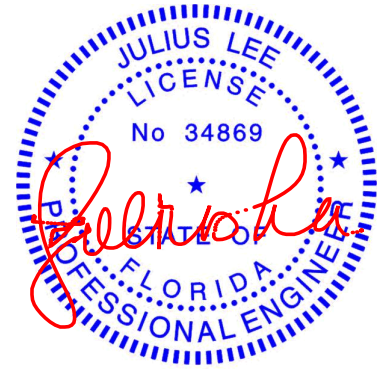
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/22, 2-3=-487/416, 3-4=-374/291, 4-5=-414/638, 5-6=-801/564, 6-7=-574/534, 7-8=-411/469, 8-9=-533/407, 9-10=-213/245, 10-11=-50/139  
BOT CHORD 2-16=-386/429, 15-16=-268/311, 14-15=-498/646, 13-14=-382/545, 12-13=-228/215, 11-12=-113/117  
WEBS 3-16=-633/485, 4-16=-77/382, 5-15=-1489/997, 5-14=-100/277, 6-14=-108/237, 8-13=-79/151, 9-13=-384/648, 9-12=-1000/697, 10-12=-276/224, 7-13=-415/381, 7-14=-138/349, 4-15=-442/276

#### NOTES

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1) 2-4-9 to 20-0-0, Exterior(2R) 20-0-0 to 23-10-0, Interior (1) 23-10-0 to 27-8-0, Exterior(2R) 27-8-0 to 31-7-0, Interior (1) 31-7-0 to 39-0-4 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 11, 302 lb uplift at joint 2, 657 lb uplift at joint 15 and 494 lb uplift at joint 12.

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:

May 2, 2023

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

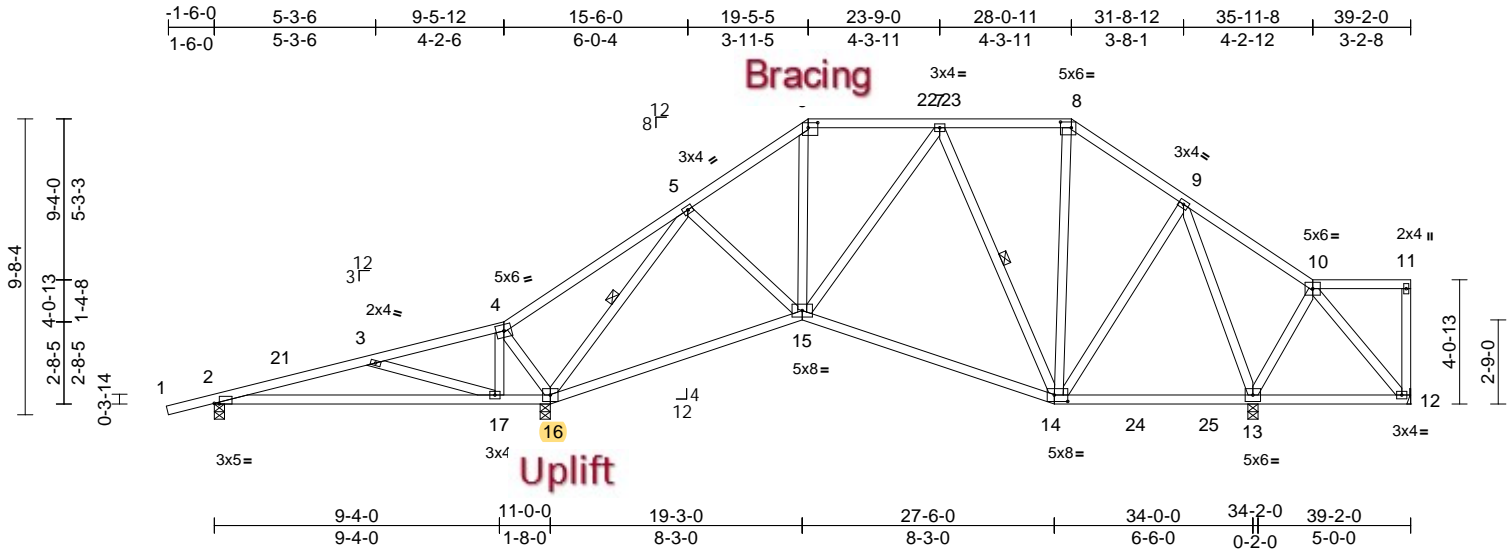


Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	A07	Piggyback Base	1	1	T30455019
Job Reference (optional)					

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:06  
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Page: 1



Scale = 1:75.4

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

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	0.54	Vert(LL)	-0.16	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.33	14-15	>835	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 244 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.

WEBS 1 Row at midpt 5-16, 7-14

REACTIONS	(size) 2=0-4-0, 12= Mechanical, 13=0-4-0, 16=0-4-0
Max Horiz	2=449 (LC 11)
Max Uplift	2=300 (LC 8), 12=80 (LC 23), 13=467 (LC 13), 16=650 (LC 12)
Max Grav	2=409 (LC 25), 12=70 (LC 24), 13=1403 (LC 2), 16=1610 (LC 2)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/22, 2-3=-522/408, 3-4=-318/256, 4-5=-360/639, 5-6=-851/556, 6-7=-638/520, 7-8=-407/461, 8-9=-525/469, 9-10=-197/311, 10-11=-86/92, 11-12=-80/75
BOT CHORD	2-17=-342/427, 16-17=-276/310, 15-16=-406/710, 14-15=-354/624, 13-14=-87/172, 12-13=-136/133
WEBS	3-17=-632/485, 4-17=-77/423, 10-13=-225/246, 9-14=-234/448, 9-13=-1023/671, 10-12=-130/198, 4-16=-476/280, 6-15=-130/296, 5-15=-116/365, 5-16=-1519/935, 7-14=-444/377, 8-14=-73/116, 7-15=-113/345

#### NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1) 2-4-9 to 19-5-5, Exterior(2R) 19-5-5 to 23-4-5, Interior (1) 23-4-5 to 28-0-11, Exterior(2R) 28-0-11 to 31-8-12, Interior (1) 31-8-12 to 39-0-4 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 2 SP No.2 crushing capacity of 565 psi, Joint 16 SP No.2 crushing capacity of 565 psi, Joint 13 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 12, 300 lb uplift at joint 2, 650 lb uplift at joint 16 and 467 lb uplift at joint 13.

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:

May 2, 2023

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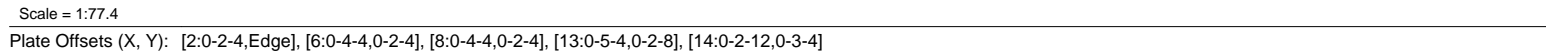
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:06 Page: 1  
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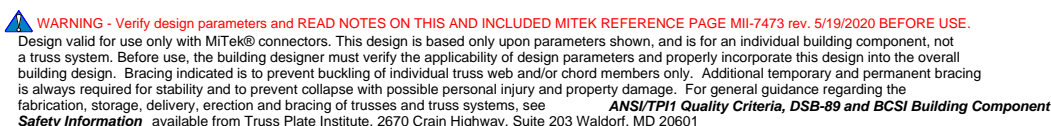


<b>LUMBER</b>		3) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-4-9, Interior (1) 2-4-9 to 19-5-5, Exterior(2R) 19-5-5 to 23-4-5, Interior (1) 23-4-5 to 28-0-11, Exterior(2R) 28-0-11 to 31-11-11, Interior (1) 31-11-11 to 39-0-4 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
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
<b>BRACING</b>		
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 8-13, 7-13, 5-15	
<b>REACTIONS</b>	(size) 2=0-4-0, 11= Mechanical, 12=0-4-0, 15=0-4-0 Max Horiz 2=407 (LC 11) Max Uplift 2=301 (LC 8), 11=53 (LC 8), 12=412 (LC 13), 15=659 (LC 12) Max Grav 2=397 (LC 23), 11=154 (LC 11), 12=1217 (LC 1), 15=1537 (LC 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) 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.
<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension	7) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 15 SP No.2 crushing capacity of 565 psi, Joint 12 SP No.2 crushing capacity of 565 psi. 8) Refer to girder(s) for truss to truss connections. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 2, 659 lb uplift at joint 15, 53 lb uplift at joint 11 and 412 lb uplift at joint 12.
TOP CHORD	1-2=0/22, 2-3=-437/409, 3-4=-311/267, 4-5=-312/665, 5-6=-815/521, 6-7=-597/509, 7-8=-411/487, 10-11=-115/82, 8-9=-570/452, 9-10=-120/199	
BOT CHORD	2-16=-329/395, 15-16=-263/312, 14-15=-344/581, 13-14=-322/588, 12-13=-139/153, 11-12=-54/55	
WEBS	3-16=-642/482, 4-16=-76/383, 9-12=-1049/697, 10-12=-139/163, 9-13=-251/584, 8-13=-29/94, 7-13=-430/361, 4-15=-415/260, 5-15=-1497/834, 6-14=-78/237, 5-14=-116/314, 7-14=-90/337	
	<b>LOAD CASE(S)</b> Standard	

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



May 2, 2023



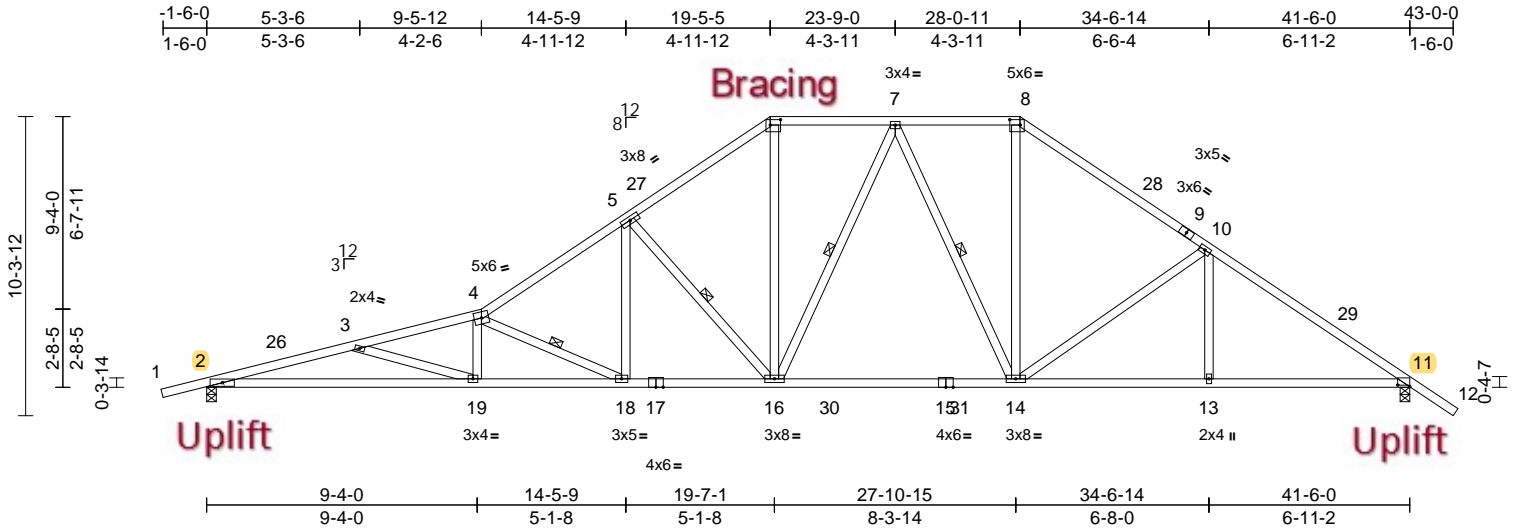
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	A10	Piggyback Base	3	1	T30455021
Job Reference (optional)					

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:79.5

Plate Offsets (X, Y): [6:0-4-4,0-2-4], [8:0-4-4,0-2-4], [11:0-5-0,0-0-10]

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	0.88	Vert(LL)	0.48	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.81	19-22	>611	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 246 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP DSS \*Except\* 15-11:2x4 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 1-9-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 4-2-1 oc bracing.

WEBS 1 Row at midpt 4-18, 5-16, 7-16, 7-14

**REACTIONS** (size) 2=0-4-0, 11=0-4-0  
Max Horiz 2=385 (LC 11)  
Max Uplift 2=-726 (LC 12), 11=-634 (LC 13)  
Max Grav 2=1869 (LC 2), 11=1881 (LC 2)

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

TOP CHORD 1-2=0/22, 2-3=-6186/2929, 3-4=-5743/2633,  
4-5=-3661/1793, 5-6=-2588/1403,  
6-7=-2103/1260, 7-8=-1863/1156,  
8-10=-2327/1245, 10-11=-2837/1342,  
11-12=0/53

BOT CHORD 2-19=-2708/5990, 18-19=-2363/5527,  
16-18=-1184/3005, 14-16=-647/2032,  
13-14=-925/2296, 11-13=-925/2296

WEBS 3-19=-509/458, 4-19=-51/397,  
4-18=-2799/1311, 5-18=-541/1328,  
5-16=-1377/849, 6-16=-540/1185,  
7-16=-158/322, 7-14=-515/351,  
8-14=-409/988, 10-14=-721/475,  
10-13=0/272

#### NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 2-7-6, Interior (1) 2-7-6 to 19-5-5, Exterior(2R) 19-5-5 to 23-9-0, Interior (1) 23-9-0 to 28-0-11, Exterior(2R) 28-0-11 to 32-2-8, Interior (1) 32-2-8 to 43-1-0 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, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP DSS crushing capacity of 660 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 726 lb uplift at joint 2 and 634 lb uplift at joint 11.

**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:

May 2,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



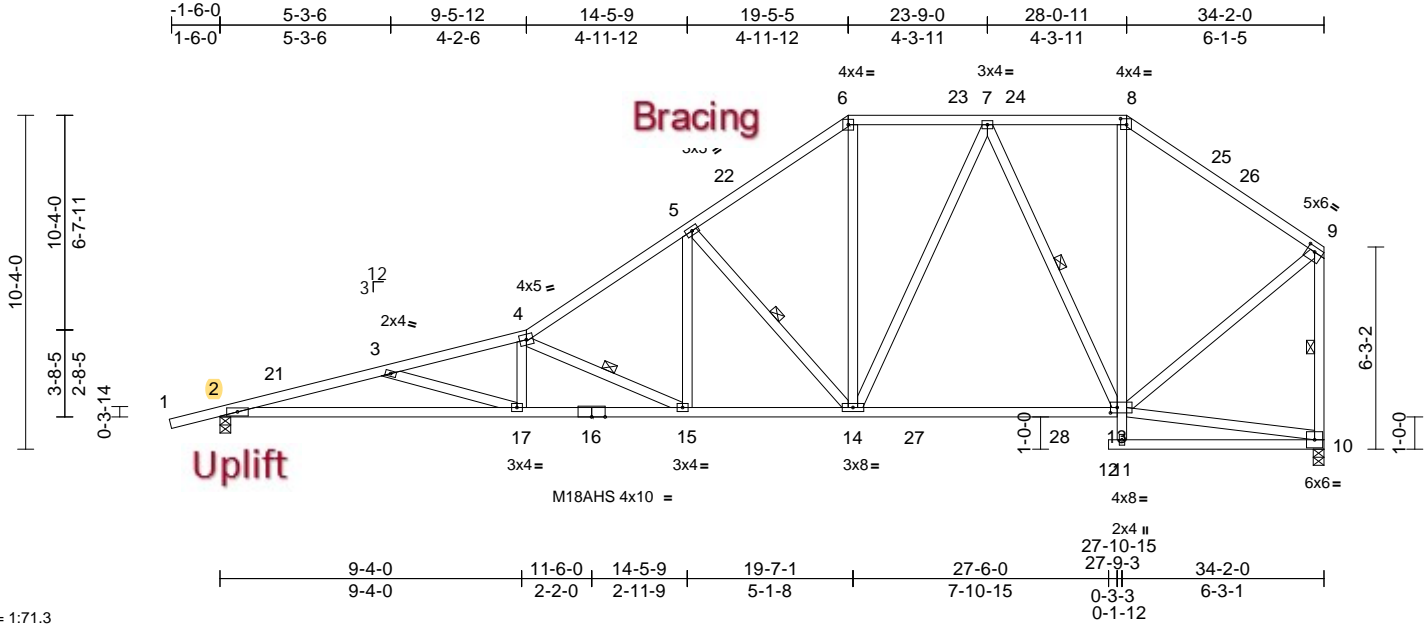
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A11	Piggyback Base	3	1	Job Reference (optional)	T30455022

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:07  
ID:vtcjdKtjRqawMKrZGB8CgzzPUwj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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	0.65	Vert(LL)	0.35	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.61	17-20	>666	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS								
Weight: 231 lb											FT = 20%	

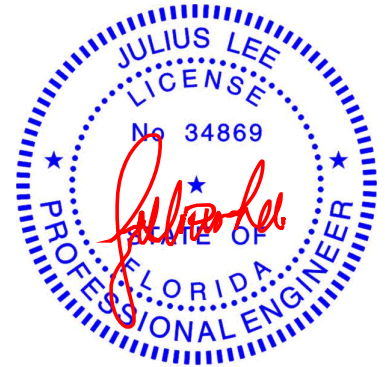
<b>LUMBER</b>		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP DSS *Except* 12-10:2x4 SP No.2	
WEBS	2x4 SP No.2	
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 4-3-14 oc bracing.	
WEBS	1 Row at midpt	4-15, 5-14, 7-13, 9-10
<b>REACTIONS</b>		
(size)	2-0-4-0, 10-0-4-0	
Max Horiz	2=517 (LC 11)	
Max Uplift	2=638 (LC 12), 10=419 (LC 12)	
Max Grav	2=1546 (LC 2), 10=1499 (LC 2)	
<b>FORCES</b>		
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/22, 2-3=4913/2266, 3-4=4446/1973, 4-5=2676/1299, 5-6=1762/982, 6-7=1409/893, 7-8=859/673, 8-9=1103/660, 9-10=1382/792	
BOT CHORD	2-17=2531/4758, 15-17=2173/4261, 14-15=1252/2183, 13-14=679/1178, 11-12=0/0, 10-11=0/24	
WEBS	3-17=533/464, 4-17=53/415, 4-15=2305/1057, 5-15=434/1094, 5-14=1174/732, 6-14=308/728, 7-14=245/656, 7-13=816/432, 11-13=0/132, 8-13=97/373, 10-13=132/130, 9-13=524/1063	

#### NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-6-7 to 1-10-9, Interior (1) 1-10-9 to 19-5-5, Exterior(2R) 19-5-5 to 22-10-5, Interior (1) 22-10-5 to 28-0-11, Exterior(2R) 28-0-11 to 31-5-11, Interior (1) 31-5-11 to 34-0-4 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.
- All plates are MT20 plates 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, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP DSS crushing capacity of 660 psi, Joint 10 SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 638 lb uplift at joint 2 and 419 lb uplift at joint 10.

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:

May 2, 2023

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

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

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

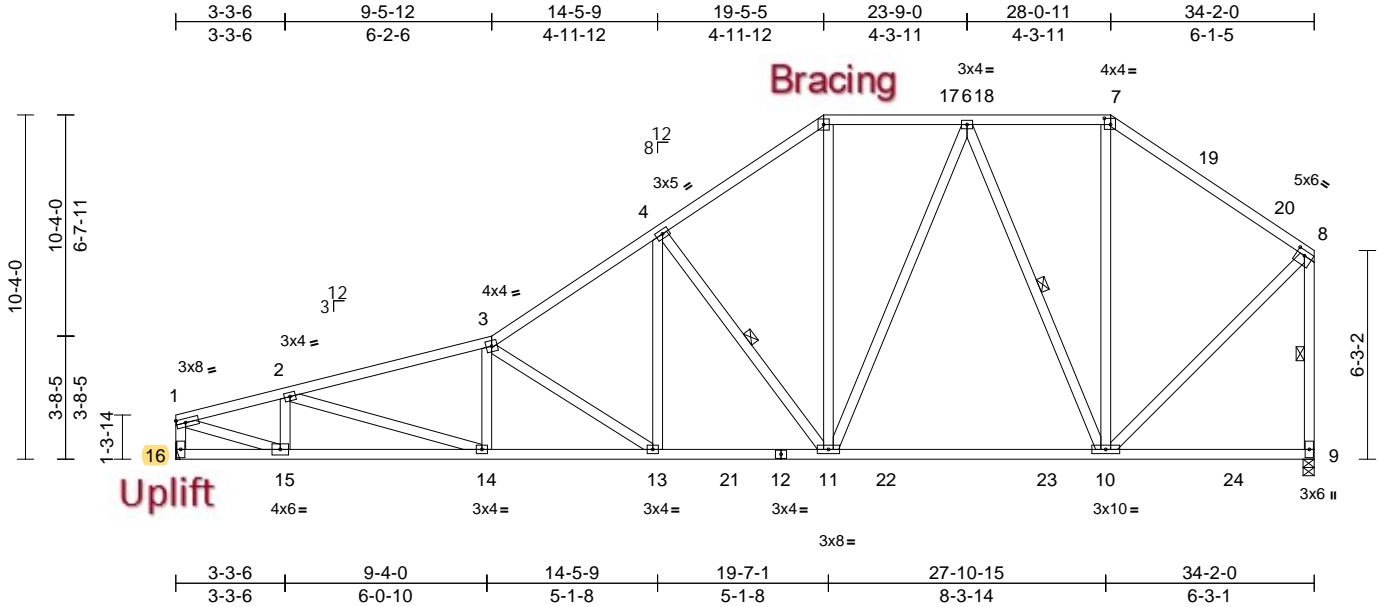


Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A12	Piggyback Base	1	1	Job Reference (optional)	T30455023

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:08  
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Page: 1



Scale = 1:69.2

Plate Offsets (X, Y): [7:0-2-4,0-2-4], [8:Edge,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	0.84	Vert(LL)	-0.23	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.40	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 240 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 or 4-6-7 oc bracing.

WEBS 1 Row at midpt 4-11, 6-10, 8-9

**REACTIONS** (size) 9=0-4-0, 16= Mechanical  
Max Horiz 16=520 (LC 9)  
Max Uplift 9=-427 (LC 12), 16=-563 (LC 12)  
Max Grav 9=1538 (LC 2), 16=1481 (LC 2)

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

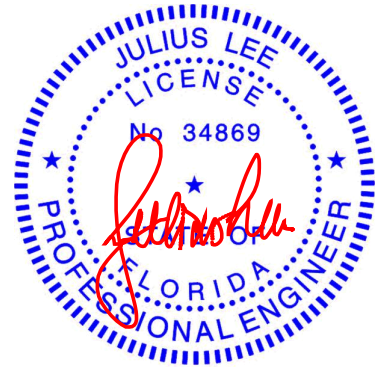
TOP CHORD 1-2=-2468/1145, 2-3=-3154/1474,  
3-4=-2328/1180, 4-5=-1607/968,  
5-6=-1279/882, 6-7=-791/674,  
7-8=-1029/658, 8-9=-1437/807,  
1-16=-1431/689  
BOT CHORD 15-16=-511/358, 14-15=-1502/2383,  
13-14=-1705/3020, 11-13=-1151/1889,  
10-11=-652/1080, 9-10=-123/127  
WEBS 2-15=-640/430, 2-14=-244/756,  
3-14=-46/131, 3-13=-1369/705,  
4-13=-356/931, 4-11=-1033/676,  
5-11=-298/639, 6-11=-254/627,  
6-10=-784/481, 7-10=-89/335,  
8-10=-522/1085, 1-15=-1139/2458

#### NOTES

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 4-1-12 to 7-3-6, Interior (1) 7-3-6 to 23-5-5, Exterior(2R) 23-5-5 to 28-3-5, Interior (1) 28-3-5 to 32-0-11, Exterior(2R) 32-0-11 to 36-10-11, Interior (1) 36-10-11 to 38-0-4 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 9 SP No.2 crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at joint 16 and 427 lb uplift at joint 9.

**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:

May 2,2023

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

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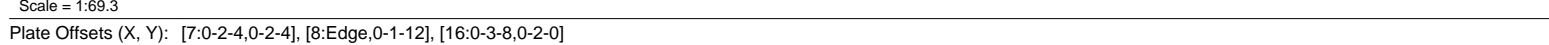
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:08 Page: 1  
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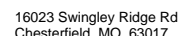
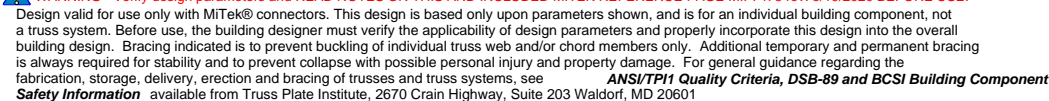


<b>LUMBER</b>		Wind: ASCE 7-16; Vult=140mph (3-second gust)
TOP CHORD	2x4 SP No.2 *Except* 2-3:2x4 SP DSS	Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;
BOT CHORD	2x4 SP No.2	Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior
WEBS	2x4 SP No.2	zone and C-C Exterior(2E) 0-1-12 to 2-11-12, Interior (1)
<b>BRACING</b>		2-11-12 to 19-6-0, Exterior(2R) 19-6-0 to 22-11-0,
TOP CHORD	Structural wood sheathing directly applied or	Interior (1) 22-11-0 to 28-0-0, Exterior(2R) 28-0-0 to
	3-4-10 oc purlins, except end verticals.	31-5-0, Interior (1) 31-5-0 to 34-0-4 zone; cantilever left
BOT CHORD	Rigid ceiling directly applied or 4-7-5 oc	and right exposed ; end vertical left and right
	bracing.	exposed;C-C for members and forces & MWFRS for
WEBS	1 Row at midpt 4-11, 6-10, 8-9	reactions shown; Lumber DOL=1.60 plate grip
<b>REACTIONS</b>		DOL=1.60
	(size) 9=0-4-0, 17= Mechanical	3) Building Designer / Project engineer responsible for
	Max Horiz 17=516 (LC 9)	verifying applied roof live load shown covers rain loading
	Max Uplift 9=425 (LC 12), 17=566 (LC 12)	requirements specific to the use of this truss component.
	Max Grav 9=1538 (LC 2), 17=1481 (LC 2)	4) Provide adequate drainage to prevent water ponding.
<b>FORCES</b>		5) This truss has been designed for a 10.0 psf bottom
	(lb) - Maximum Compression/Maximum	chord live load nonconcurrent with any other live loads.
	Tension	6) * This truss has been designed for a live load of 20.0psf
TOP CHORD	1-17=-1452/673, 1-2=-2138/931,	on the bottom chord in all areas where a rectangle
	2-3=-3158/1420, 3-4=-2324/1142,	3-06-00 tall by 2-00-00 wide will fit between the bottom
	4-5=-1599/937, 5-6=-1272/856,	chord and any other members, with BCDL = 10.0psf.
	6-7=-793/654, 7-8=-1033/638, 8-9=-1434/779	7) Bearings are assumed to be: , Joint 9 SP No.2 crushing
BOT CHORD	16-17=-495/340, 14-16=-1378/2238,	capacity of 565 psi.
	13-14=-1648/3027, 11-13=-1098/1884,	8) Refer to girder(s) for truss to truss connections.
	10-11=-620/1076, 9-10=-123/129	9) Provide mechanical connection (by others) of truss to
WEBS	1-16=-1125/2533, 2-16=-1227/691,	bearing plate capable of withstanding 566 lb uplift at
	2-14=-349/846, 3-14=-66/156,	joint 17 and 425 lb uplift at joint 9.
	3-13=-1380/687, 4-13=-344/934,	
	4-11=-1041/645, 5-11=-281/634,	
	6-11=-254/631, 6-10=-780/448,	
	7-10=-88/336, 8-10=-497/1083	

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



May 2, 2023



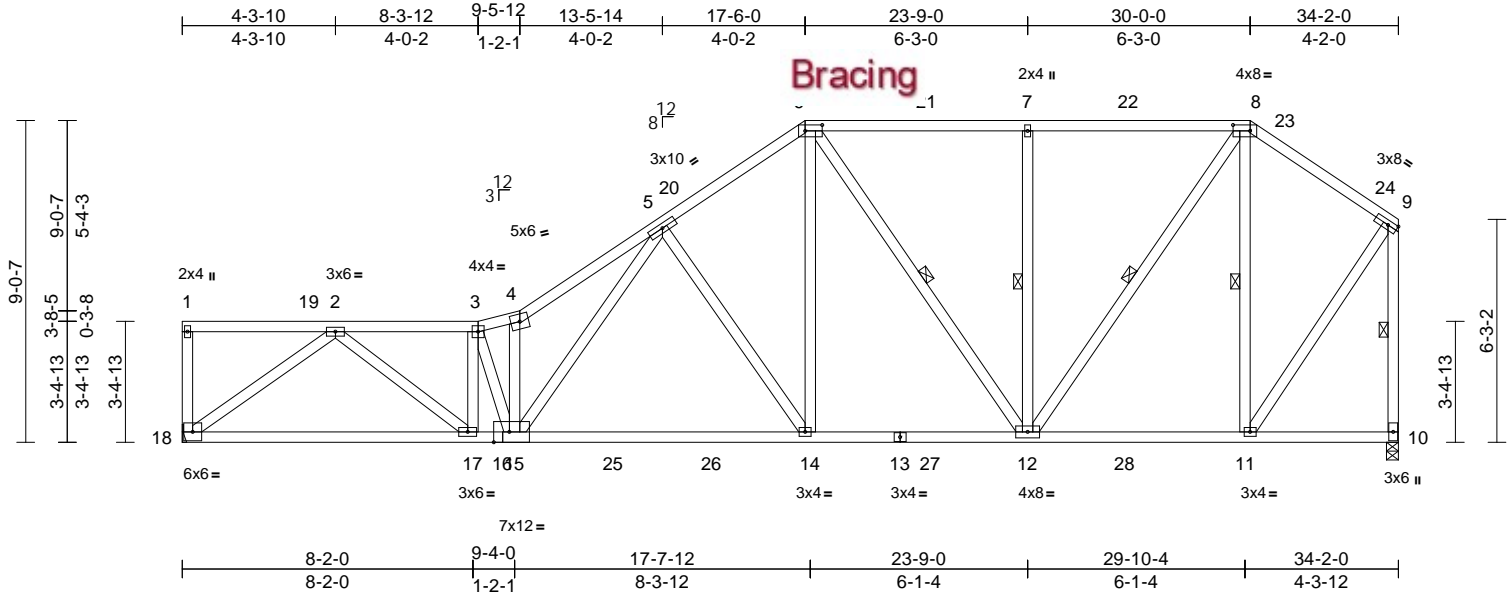
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	T30455025
0997-A	A14	Roof Special	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:09

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Scale = 1:64.7									
Plate Offsets (X, Y): [6:0-5-12,0-2-0], [8:0-5-12,0-2-0], [16:0-5-4,Edge]									
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.25 14-15	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.46 14-15	>877	180
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.06 10	n/a	n/a
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS					
					Weight: 246 lb FT = 20%				

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP DSS \*Except\* 13-10:2x4 SP No.2  
WEBS 2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-9-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-4-7 oc bracing.  
WEBS 1 Row at midpt 6-12, 7-12, 8-12, 8-11, 9-10

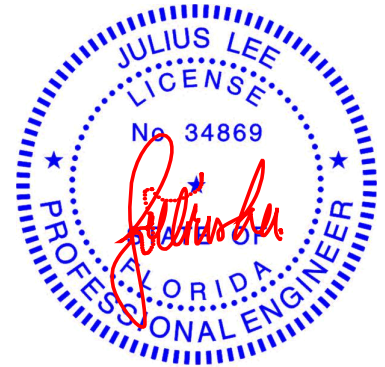
**REACTIONS** (size) 10=0-4-0, 18= Mechanical  
Max Horiz 18=455 (LC 9)  
Max Uplift 10=380 (LC 9), 18=560 (LC 12)  
Max Grav 10=1527 (LC 2), 18=1495 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-18=-110/95, 1-2=-93/78, 2-3=-3038/1289, 3-4=-3169/1362, 4-5=-3770/1717, 5-6=-1871/997, 6-7=-1290/820, 7-8=-1290/820, 8-9=-844/556, 9-10=-1478/766  
BOT CHORD 17-18=-1174/1741, 15-17=-1625/3078, 14-15=-1183/2032, 12-14=-838/1520, 11-12=-393/647, 10-11=-126/139  
WEBS 2-18=-2126/1050, 2-17=-622/1664, 3-17=-855/439, 3-15=-93/117, 4-15=-1378/719, 5-15=-809/1923, 5-14=-936/622, 6-14=-441/1108, 6-12=-499/217, 7-12=-434/369, 8-12=-560/1119, 8-11=-713/528, 9-11=-555/1148

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-6-12, Interior (1) 3-6-12 to 17-6-0, Exterior(2R) 17-6-0 to 20-11-0, Interior (1) 20-11-0 to 30-0-0, Exterior(2R) 30-0-0 to 33-5-0, Interior (1) 33-5-0 to 34-0-4 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 10 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 560 lb uplift at joint 18 and 380 lb uplift at joint 10.

**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:

May 2,2023

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

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

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

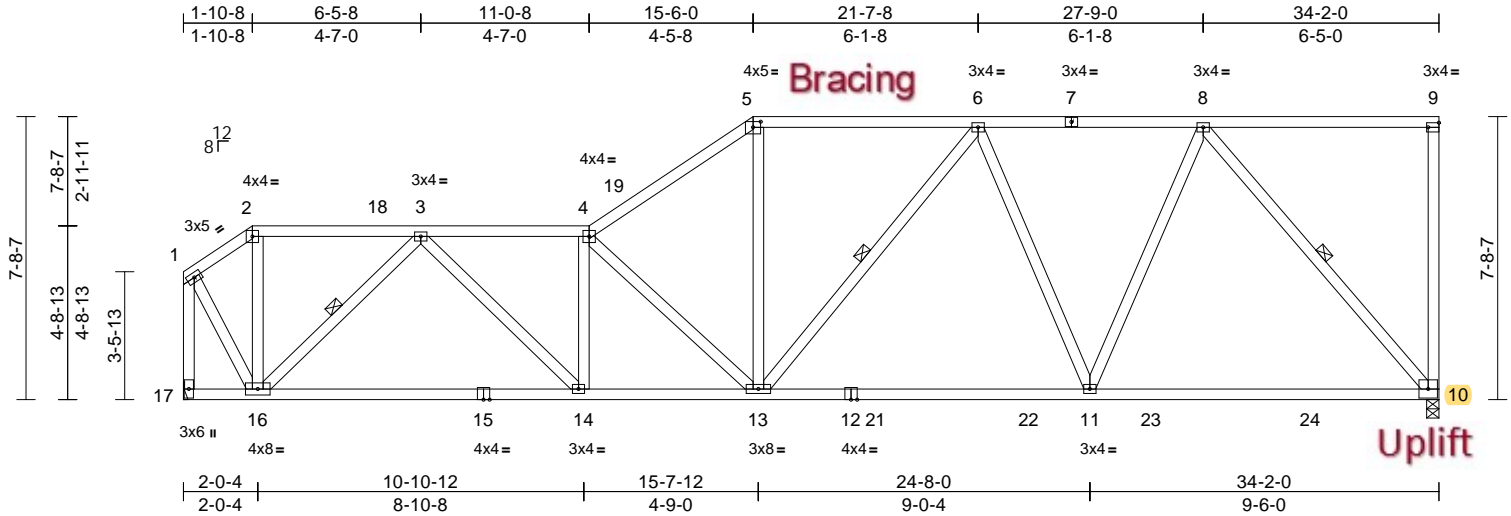
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	A15	Roof Special	1	1	T30455026
					Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:09

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Scale = 1:62.7

Plate Offsets (X, Y): [5:0-2-8,0-1-13], [9:Edge,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	0.57	Vert(LL)	-0.24	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.41	10-11	>996	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 225 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* 12-10:2x4 SP DSS  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-5-15 oc bracing.

WEBS 1 Row at midpt 3-16, 6-13, 8-10

#### REACTIONS

(size) 10=0-4-0, 17= Mechanical  
Max Horiz 17=430 (LC 9)  
Max Uplift 10=-642 (LC 9), 17=-541 (LC 12)  
Max Grav 10=1532 (LC 2), 17=1474 (LC 2)

#### FORCES

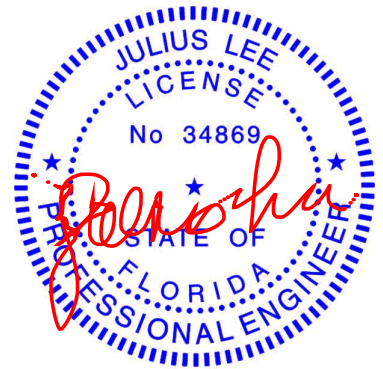
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-782/294, 2-3=-643/275, 3-4=-2500/867,  
4-5=-2118/784, 5-6=-1733/720,  
6-8=-1445/597, 8-9=-175/182,  
9-10=-162/147, 1-17=-1560/505  
BOT CHORD 16-17=-506/437, 14-16=-973/1768,  
13-14=-1137/2519, 11-13=-769/1628,  
10-11=-559/1068  
WEBS 2-16=-47/278, 3-16=-1498/604,  
3-14=-315/1129, 4-14=-569/291,  
4-13=-1116/510, 5-13=-246/883,  
6-13=-143/269, 6-11=-542/362,  
8-11=-237/982, 1-16=-399/1272,  
8-10=-1624/718

#### NOTES

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 4-9-12 to 6-6-8, Exterior(2R) 6-6-8 to 9-11-8, Interior (1) 9-11-8 to 20-2-0, Exterior(2R) 20-2-0 to 23-7-0, Interior (1) 23-7-0 to 38-8-4 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 10 SP DSS crushing capacity of 660 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 642 lb uplift at joint 10 and 541 lb uplift at joint 17.

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:

May 2,2023

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

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017



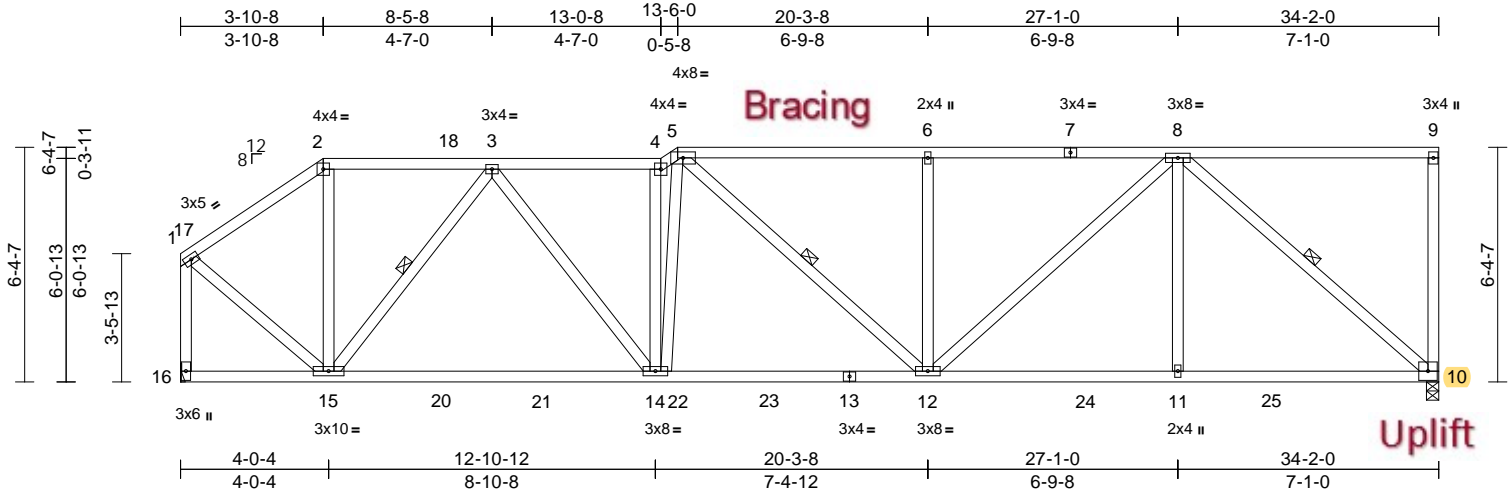
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A16	Roof Special	1	1	Job Reference (optional)	T30455027

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:62.6

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	0.55	Vert(LL)	-0.22	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.41	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 225 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 3-6-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS 1 Row at midpt 3-15, 8-10, 5-12

#### REACTIONS

(size) 10=0-4-0, 16= Mechanical  
Max Horiz 16=339 (LC 9)  
Max Uplift 10=698 (LC 9), 16=545 (LC 9)  
Max Grav 10=1526 (LC 2), 16=1507 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-1173/483, 2-3=-943/439, 3-4=-2133/903, 4-5=-2368/967, 5-6=-2095/936, 6-8=-2095/936, 8-9=-149/153, 9-10=-180/157, 1-16=-1495/552  
BOT CHORD 15-16=-409/362, 14-15=-924/1648, 12-14=-1042/2079, 11-12=-741/1464, 10-11=-741/1464  
WEBS 2-15=-131/434, 3-15=-1158/637, 3-14=-284/797, 4-14=-1104/459, 6-12=-412/353, 8-12=-417/848, 8-11=0/390, 1-15=-458/1209, 8-10=-1919/872, 5-14=-208/830, 5-12=-103/56

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 4-9-12 to 8-2-12, Interior (1) 8-2-12 to 8-6-8, Exterior(2R) 8-6-8 to 11-11-8, Interior (1) 11-11-8 to 18-2-0, Exterior(2R) 18-2-0 to 21-7-0, Interior (1) 21-7-0 to 38-8-4 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) 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) Bearings are assumed to be: Joint 10 SP No.2 crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 698 lb uplift at joint 10 and 545 lb uplift at joint 16.

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:

May 2, 2023

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



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Chesterfield, MO 63017

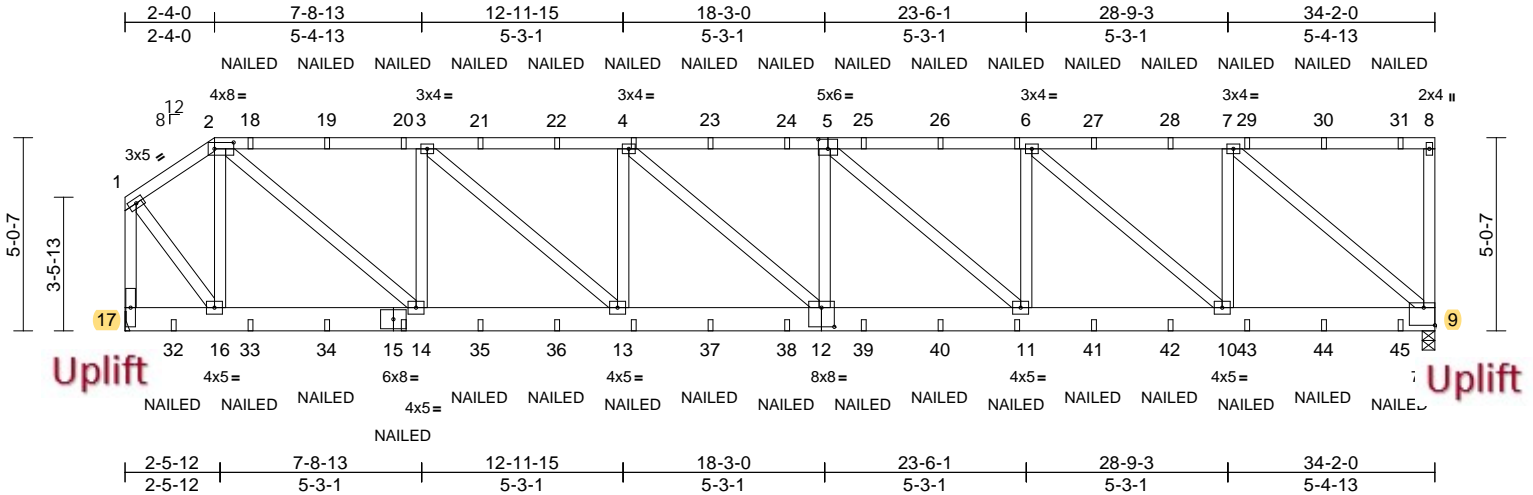
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A17C	Half Hip Girder	1	2	Job Reference (optional)	T30455028

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:60.1

Plate Offsets (X, Y): [2:0-6-0,0-2-0], [5:0-3-0,0-3-0], [9:Edge,0-5-8], [12:0-4-0,0-6-0]

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	0.67	Vert(LL)	0.25	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.25	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.72	Horz(CT)	-0.05	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 534 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 8-11-9 oc bracing.

#### REACTIONS

(size) 9=0-4-0, 17= Mechanical  
Max Horiz 17=263 (LC 5)  
Max Uplift 9=2287 (LC 5), 17=2151 (LC 5)  
Max Grav 9=3227 (LC 17), 17=3177 (LC 18)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-1869/1319, 2-3=-4159/2969, 3-4=-5596/3949, 4-6=-5907/4146, 6-7=-3222/2282, 7-8=-113/101, 8-9=-330/336, 1-17=-3084/2096  
BOT CHORD 16-17=-230/198, 14-16=-1210/1534, 13-14=-3082/4186, 11-13=-4256/5904, 10-11=-3671/5106, 9-10=-2304/3190  
WEBS 2-16=-1651/1298, 1-16=-1770/2569, 7-9=-4156/2935, 3-14=-2027/1685, 2-14=-2510/3522, 3-13=-1354/1907, 4-13=-966/906, 4-12=-302/416, 5-12=0/236, 5-11=-1067/781, 6-11=-507/1001, 6-10=-2543/1816, 7-10=-1134/1961

#### NOTES

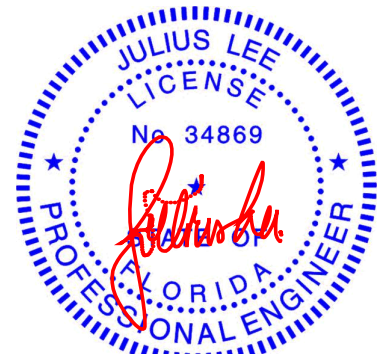
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 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 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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.
- Bearings are assumed to be: , Joint 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2287 lb uplift at joint 9 and 2151 lb uplift at joint 17.
- "NAILED" indicates Girder: 3-16d (0.162" x 3.5") 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: 1-2=-60, 2-8=-60, 9-17=-20  
Concentrated Loads (lb)

Vert: 15=-62 (F), 13=-62 (F), 4=-125 (F), 11=-62 (F), 6=-125 (F), 18=-125 (F), 19=-125 (F), 20=-125 (F), 21=-125 (F), 22=-125 (F), 23=-125 (F), 24=-125 (F), 25=-125 (F), 26=-125 (F), 27=-125 (F), 28=-125 (F), 29=-125 (F), 30=-125 (F), 31=-132 (F), 32=-250 (F), 33=-62 (F), 34=-62 (F), 35=-62 (F), 36=-62 (F), 37=-62 (F), 38=-62 (F), 39=-62 (F), 40=-62 (F), 41=-62 (F), 42=-62 (F), 43=-62 (F), 44=-62 (F), 45=-64 (F)



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

May 2, 2023

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

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Chesterfield, MO 63017

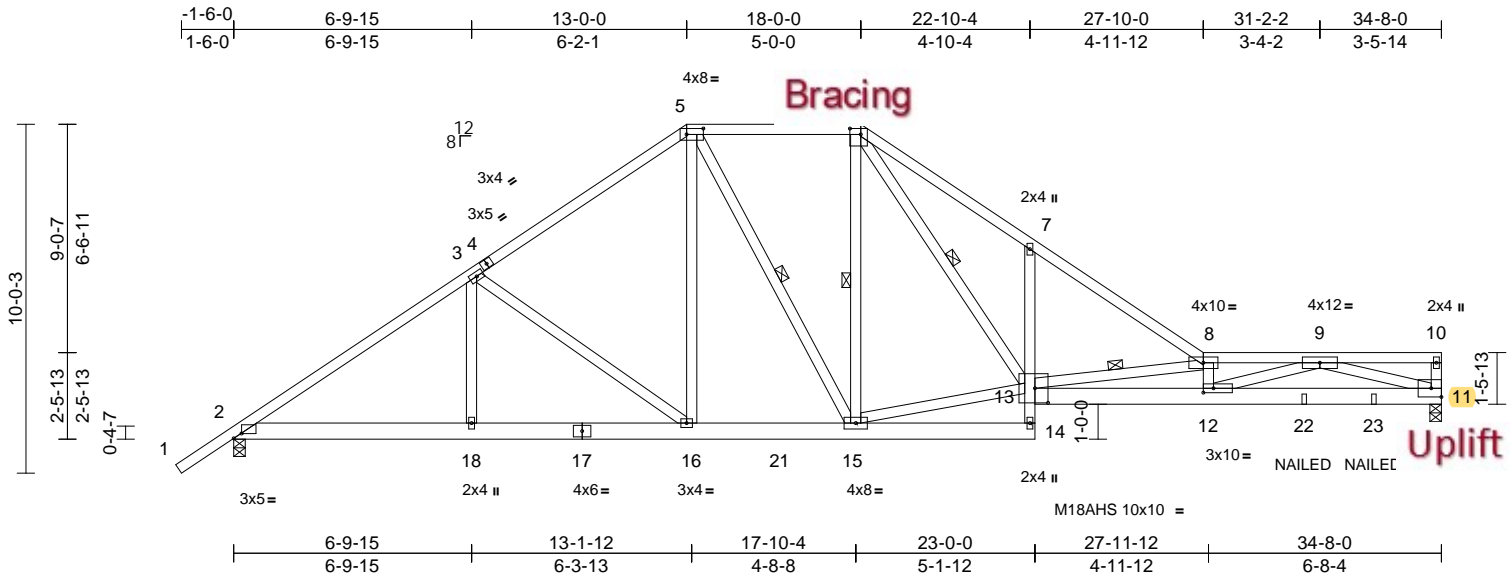
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A18	Roof Special Girder	1	1	Job Reference (optional)	T30455029

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:66.1

Plate Offsets (X, Y): [2:0-2-11,0-1-11], [5:0-5-12,0-2-0], [6:0-3-12,0-2-0], [12:0-3-8,0-1-8], [13:0-4-8,0-5-0]

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	0.97	Vert(LL)	0.48	12-13	>862	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.79	12-13	>527	180	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS								
Weight: 245 lb											FT = 20%	

#### LUMBER

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\* 14-7:2x4 SP No.2,  
 13-11:2x6 SP DSS  
 WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
 1-5-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 5-2-15 oc  
 bracing.

WEBS 1 Row at midpt 5-15, 6-15, 6-13, 8-13

**REACTIONS** (size) 2=0-4-0, 11=0-4-0  
 Max Horiz 2=382 (LC 5)  
 Max Uplift 2=573 (LC 8), 11=657 (LC 9)  
 Max Grav 2=1599 (LC 15), 11=1569 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum  
 Tension  
 TOP CHORD 1-2=0/53, 2-3=-2350/750, 3-5=-1814/645,  
 5-6=-1526/679, 6-7=-3280/1399,  
 7-8=-3275/1143, 8-9=-6848/2511,  
 9-10=-254/96, 10-11=-114/87  
 BOT CHORD 2-18=-737/2037, 16-18=-737/2037,  
 15-16=-366/1444, 14-15=-58/183,  
 13-14=0/93, 7-13=-438/444,  
 12-13=-2590/6978, 11-12=-1602/3877  
 WEBS 3-18=0/311, 3-16=-741/461, 5-16=-199/622,  
 5-15=-212/300, 6-15=-372/267,  
 13-15=-292/1375, 6-13=-1031/2111,  
 8-13=-4376/1746, 8-12=-991/459,  
 9-12=-986/3145, 9-11=-3816/1562

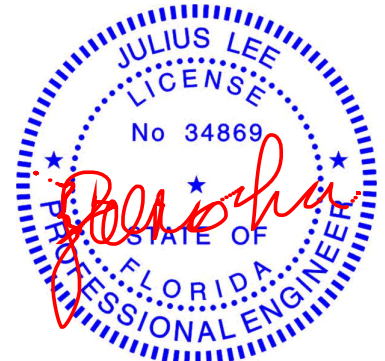
#### NOTES

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

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
 Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
 Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior  
 zone; cantilever left and right exposed; end vertical left  
 and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Bearings are assumed to be: Joint 2 SP No.2 crushing  
 capacity of 565 psi, Joint 11 SP DSS crushing capacity  
 of 660 psi.
- 9) Provide mechanical connection (by others) of truss to  
 bearing plate capable of withstanding 657 lb uplift at  
 joint 11 and 573 lb uplift at joint 2.
- 10) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-  
 nails per NDS guidelines.
- 11) 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: 1-5=-60, 5-6=-60, 6-8=-60, 8-10=-60, 2-14=-20,  
 11-13=-20  
 Concentrated Loads (lb)  
 Vert: 22=-112 (B), 23=-3 (B)



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

May 2,2023

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

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



16023 Swingley Ridge Rd  
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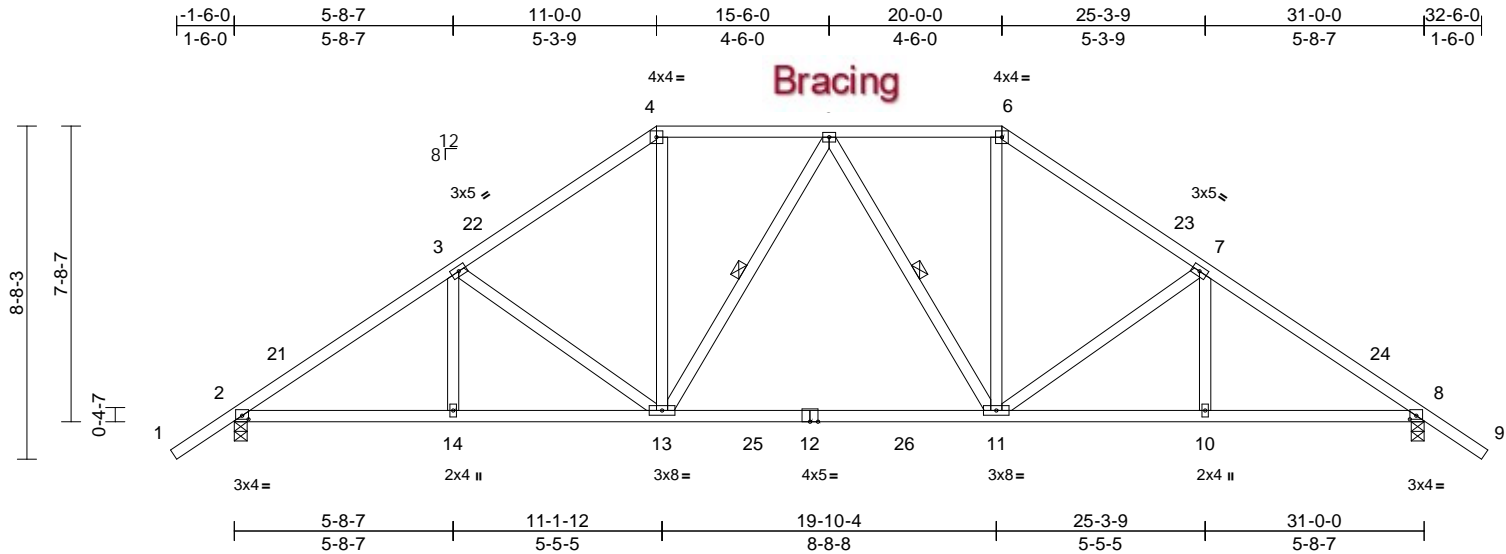
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	A19	Hip	1	1	Job Reference (optional)	T30455030

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:13

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Scale = 1:60

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

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	0.43	Vert(LL)	-0.26	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.44	11-13	>845	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 180 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 3-10-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-8-7 oc bracing.

WEBS 1 Row at midpt 5-13, 5-11

**REACTIONS** (size) 2=0-4-0, 8=0-4-0  
Max Horiz 2=-326 (LC 10)  
Max Uplift 2=-503 (LC 12), 8=-503 (LC 13)  
Max Grav 2=1426 (LC 2), 8=1426 (LC 2)

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

TOP CHORD 1-2=0/53, 2-3=-2067/630, 3-4=-1682/540,  
4-5=-1341/532, 5-6=-1341/532,  
6-7=-1682/540, 7-8=-2067/631, 8-9=0/53

BOT CHORD 2-14=-564/1751, 13-14=-564/1751,  
11-13=-373/1411, 10-11=-361/1667,  
8-10=-361/1667

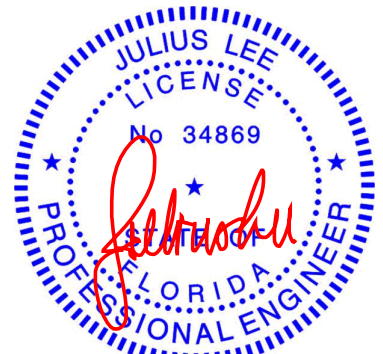
WEBS 3-14=0/196, 3-13=-557/385, 4-13=-148/670,  
5-13=-265/284, 5-11=-265/284,  
6-11=-148/670, 7-11=-558/386, 7-10=0/196

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-6-4, Interior (1) 1-6-4 to 11-0-0, Exterior(2R) 11-0-0 to 15-6-0, Interior (1) 15-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-4-10, Interior (1) 24-4-10 to 32-7-0 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 503 lb uplift at joint 2 and 503 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:

May 2, 2023

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

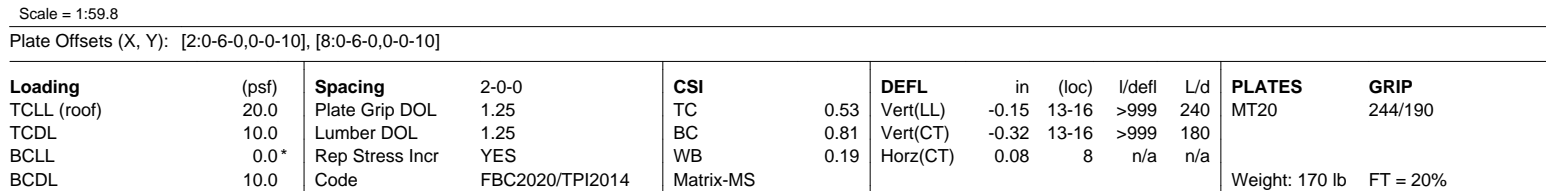
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19 Lumber, Inc., Old Town, FL - 32680, Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:14 Page: 1  
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- 3) Building Designer / Project engineer responsible 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 2 and 475 lb uplift at joint 8.

**LOAD CASE(S)**      Standard

May 2, 2023

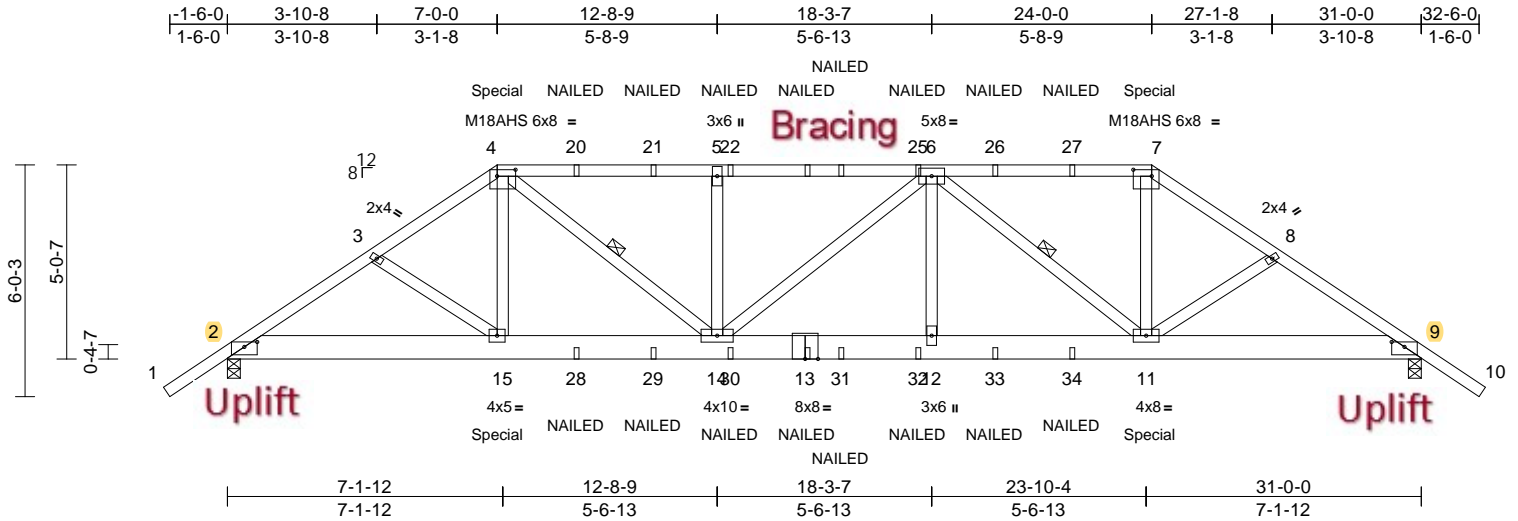
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Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	T30455032
0997-A	A21C	Hip Girder	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:59.8

Plate Offsets (X, Y): [2:0-4-0,0-1-9], [4:0-5-12,0-2-0], [7:0-5-12,0-2-0], [9:0-4-0,0-1-9]

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	0.74	Vert(LL)	0.37	12-14	>999	240	M18AHS 186/179
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.38	12-14	>986	180	MT20 244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.11	9	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 217 lb FT = 20%											

#### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 4-7:2x4 SP DSS  
BOT CHORD 2x8 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 4-5-7 oc bracing.

WEBS 1 Row at midpt 4-14, 6-11

#### REACTIONS

(size) 2=0-4-0, 9=0-4-0  
Max Horiz 2=-223 (LC 6)  
Max Uplift 2=-1850 (LC 8), 9=-1850 (LC 9)  
Max Grav 2=2813 (LC 15), 9=2812 (LC 16)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/53, 2-3=-4671/3154, 3-4=-4517/3098,  
4-5=-5131/3614, 5-6=-5131/3614,  
6-7=-3795/2662, 7-8=-4504/3085,  
8-9=-4658/3141, 9-10=0/53  
BOT CHORD 2-15=-2682/3992, 14-15=-2626/3907,  
12-14=-3594/5313, 11-12=-3594/5313,  
9-11=-2478/3814  
WEBS 4-15=-385/857, 4-14=-1388/1881,  
5-14=-849/866, 6-14=-69/71, 6-12=0/477,  
6-11=-1876/1396, 7-11=-1118/1927,  
3-15=-205/261, 8-11=-203/263

#### NOTES

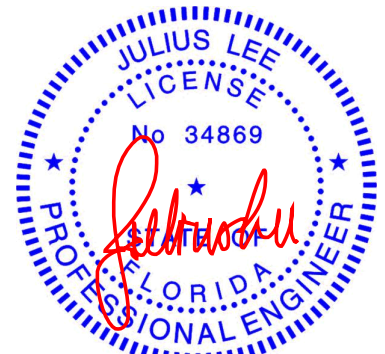
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber 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.
- All plates are MT20 plates 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1850 lb uplift at joint 2 and 1850 lb uplift at joint 9.
- "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 284 lb down and 347 lb up at 7-0-0, and 284 lb down and 347 lb up at 24-0-0 on top chord, and 446 lb down and 257 lb up at 7-0-0, and 446 lb down and 257 lb up at 23-11-4 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: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20  
Concentrated Loads (lb)  
Vert: 4=-184 (B), 7=-184 (B), 13=-62 (B), 15=-349 (B), 11=-349 (B), 20=-125 (B), 21=-125 (B), 22=-125 (B), 23=-125 (B), 24=-125 (B), 25=-125 (B), 26=-125 (B), 27=-125 (B), 28=-62 (B), 29=-62 (B), 30=-62 (B), 31=-62 (B), 32=-62 (B), 33=-62 (B), 34=-62 (B)

"Special" indicates special hanger(s) or other connection device(s) required at location(s) shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.



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

May 2, 2023

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Chesterfield, MO 63017

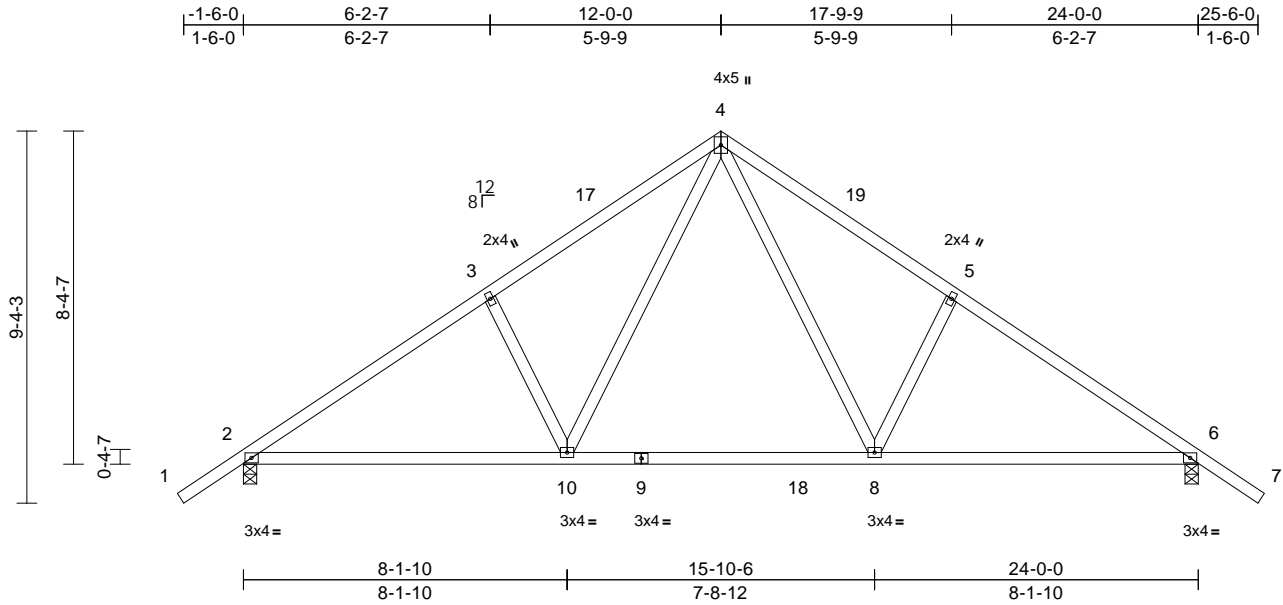
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	B22	Common	7	1	Job Reference (optional)	T30455033

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:57.9

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	0.49	Vert(LL)	-0.13	8-10	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.22	10-13	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
Weight: 123 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 4-3-13 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-3-13 oc bracing.

**REACTIONS** (size) 2=0-4-0, 6=0-4-0  
Max Horiz 2=-350 (LC 10)  
Max Uplift 2=-440 (LC 12), 6=-440 (LC 13)  
Max Grav 2=1216 (LC 19), 6=1216 (LC 20)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/53, 2-3=-1535/514, 3-4=-1451/605,  
4-5=-1451/605, 5-6=-1535/514, 6-7=0/53  
BOT CHORD 2-10=-476/1463, 8-10=-142/934,  
6-8=-281/1246  
WEBS 4-8=-347/793, 5-8=-427/423, 4-10=-347/794,  
3-10=-427/423

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1) 1-5-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 25-7-0 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 440 lb uplift at joint 2 and 440 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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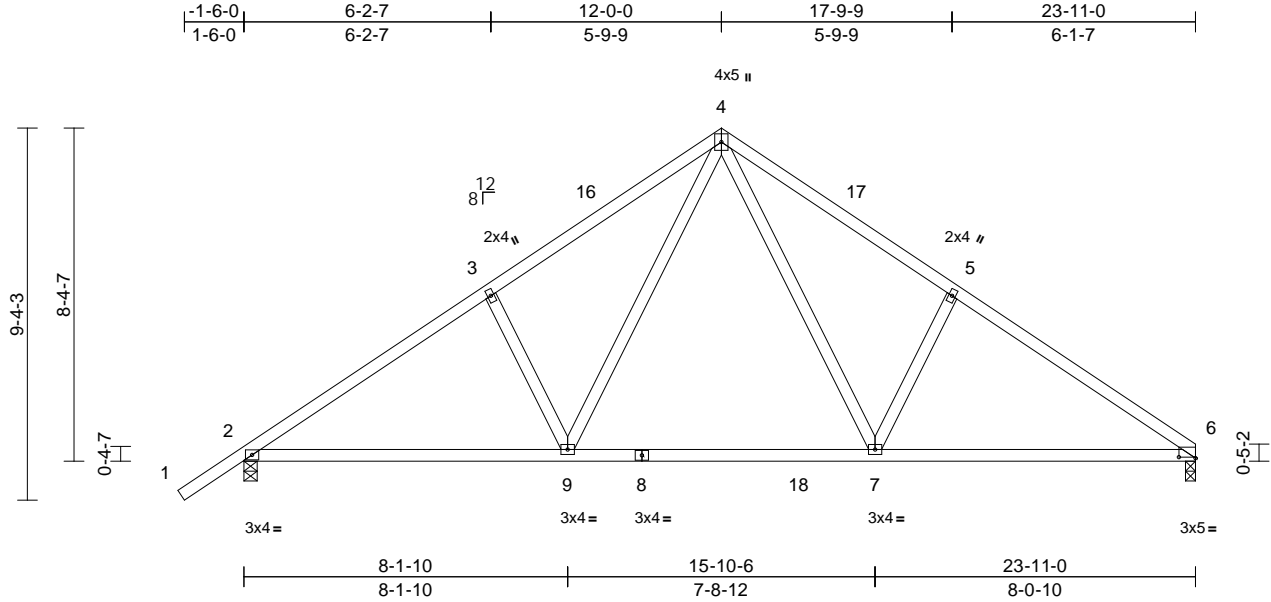
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	B23	Common	4	1	Job Reference (optional)	T30455034

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:57.9

Plate Offsets (X, Y): [6:0-5-0,0-0-5]

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	0.50	Vert(LL)	-0.13	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.21	9-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 120 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 4-3-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.

**REACTIONS** (size) 2=0-4-0, 6=0-3-0  
Max Horiz 2=336 (LC 9)  
Max Uplift 2=440 (LC 12), 6=369 (LC 13)  
Max Grav 2=1214 (LC 19), 6=1113 (LC 20)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/53, 2-3=-1531/516, 3-4=-1447/606,  
4-5=-1448/615, 5-6=-1533/531  
BOT CHORD 2-9=-505/1439, 7-9=-172/909, 6-7=-336/1213  
WEBS 4-7=-357/790, 5-7=-425/428, 4-9=-347/795,  
3-9=-426/423

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1) 1-5-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 23-11-0 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 6 and 440 lb uplift at joint 2.

**LOAD CASE(S)** Standard



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

May 2, 2023

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017



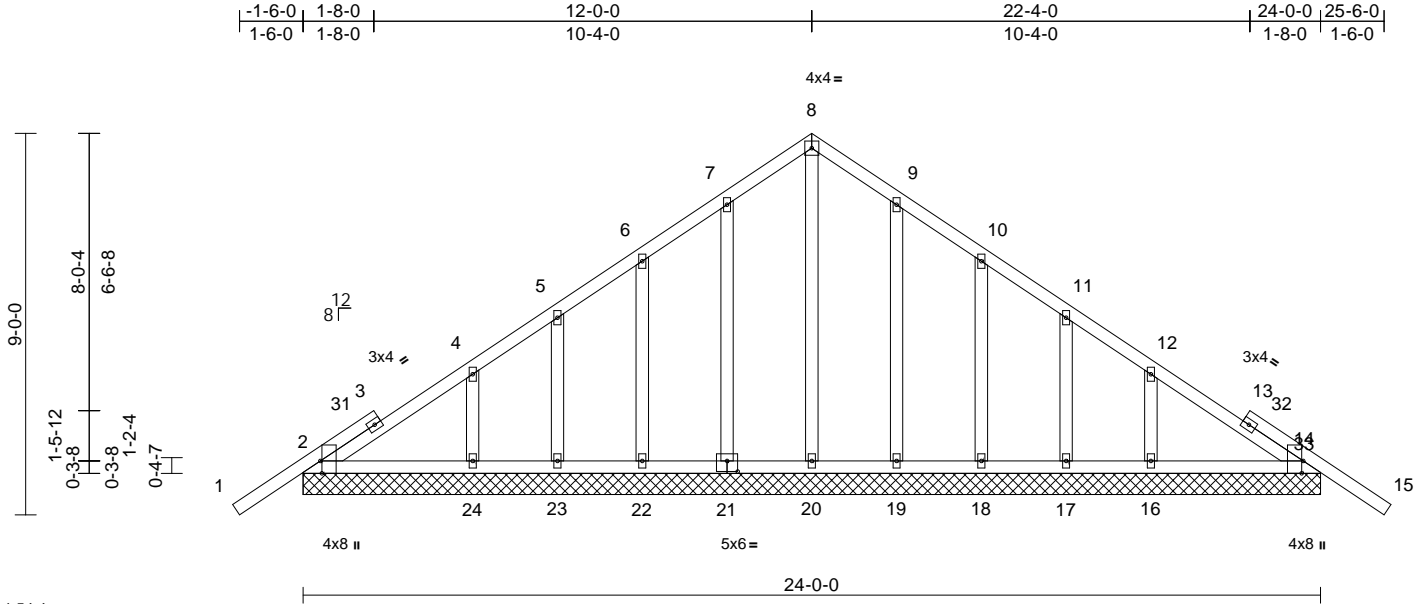
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	T30455035
0997-A	B24E	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:16

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Scale = 1:54.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [14:0-3-8,Edge], [21:0-3-0,0-3-0]

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	0.37	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	14	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
										Weight: 149 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 or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 2=24-0-0, 14=24-0-0, 16=24-0-0, 17=24-0-0, 18=24-0-0, 19=24-0-0, 20=24-0-0, 21=24-0-0, 22=24-0-0, 23=24-0-0, 24=24-0-0, 25=24-0-0, 28=24-0-0

Max Horiz 2=-338 (LC 10), 25=-338 (LC 10)

Max Uplift 2=-68 (LC 13), 14=-67 (LC 13), 16=-198 (LC 13), 17=-110 (LC 13), 18=-144 (LC 13), 19=-131 (LC 13), 21=-135 (LC 12), 22=-141 (LC 12), 23=-114 (LC 12), 24=-188 (LC 12), 25=-68 (LC 13), 28=-67 (LC 13)

Max Grav 2=244 (LC 23), 14=236 (LC 24), 16=318 (LC 20), 17=136 (LC 20), 18=199 (LC 20), 19=193 (LC 20), 20=257 (LC 22), 21=197 (LC 19), 22=196 (LC 19), 23=140 (LC 19), 24=309 (LC 19), 25=244 (LC 23), 28=236 (LC 24)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/53, 2-4=-254/254, 4-5=-166/192, 5-6=-132/169, 6-7=-108/222, 7-8=-137/296, 8-9=-137/296, 9-10=-85/207, 10-11=-28/111, 11-12=-49/74, 12-14=-175/153, 14-15=0/59

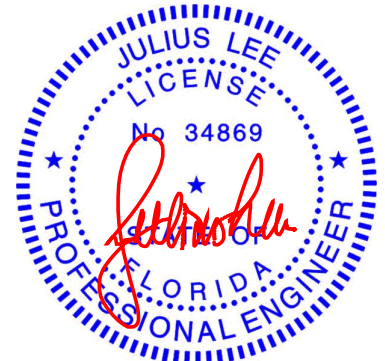
**BOT CHORD** 2-24=-150/271, 23-24=-150/271, 22-23=-150/271, 20-22=-150/271, 19-20=-150/271, 18-19=-150/271, 17-18=-150/271, 16-17=-150/271, 14-16=-150/271  
**WEBS** 8-20=-223/37, 7-21=-159/155, 6-22=-150/161, 5-23=-121/138, 4-24=-231/203, 9-19=-155/152, 10-18=-153/163, 11-17=-118/135, 12-16=-229/209

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-7-0 to 1-5-0, Exterior(2N) 1-5-0 to 12-0-0, Corner(3R) 12-0-0 to 15-0-0, Exterior (2N) 15-0-0 to 25-7-0 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
- 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 2x4 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 2, 67 lb uplift at joint 14, 135 lb uplift at joint 21, 141 lb uplift at joint 22, 114 lb uplift at joint 23, 188 lb uplift at joint 24, 131 lb uplift at joint 19, 144 lb uplift at joint 18, 110 lb uplift at joint 17, 198 lb uplift at joint 16, 68 lb uplift at joint 2 and 67 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:

May 2, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

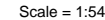
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:16 Page: 1  
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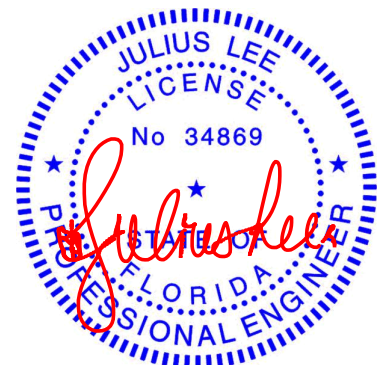


<b>LUMBER</b>	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 4-8-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 8-11-11 oc bracing.
<b>REACTIONS</b>	
(size)	2=0-4-0, 6=0-4-0
Max Horiz	2=-318 (LC 10)
Max Uplift	2=-401 (LC 12), 6=-401 (LC 13)
Max Grav	2=1096 (LC 19), 6=1096 (LC 20)
<b>FORCES</b>	
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/53, 2-3=-1359/455, 3-4=-1285/537, 4-5=-1285/537, 5-6=-1360/456, 6-7=0/53
BOT CHORD	2-10=-418/1299, 8-10=-123/833, 6-8=-245/1107
WEBS	4-8=-307/700, 5-8=-379/376, 4-10=-307/700, 3-10=-379/375

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1) 1-5-0 to 10-9-0, Exterior(2R) 10-9-0 to 13-9-0, Interior (1) 13-9-0 to 23-1-0 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 2 and 401 lb uplift at joint 6.

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:

May 2, 2023



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



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Chesterfield, MO 63017

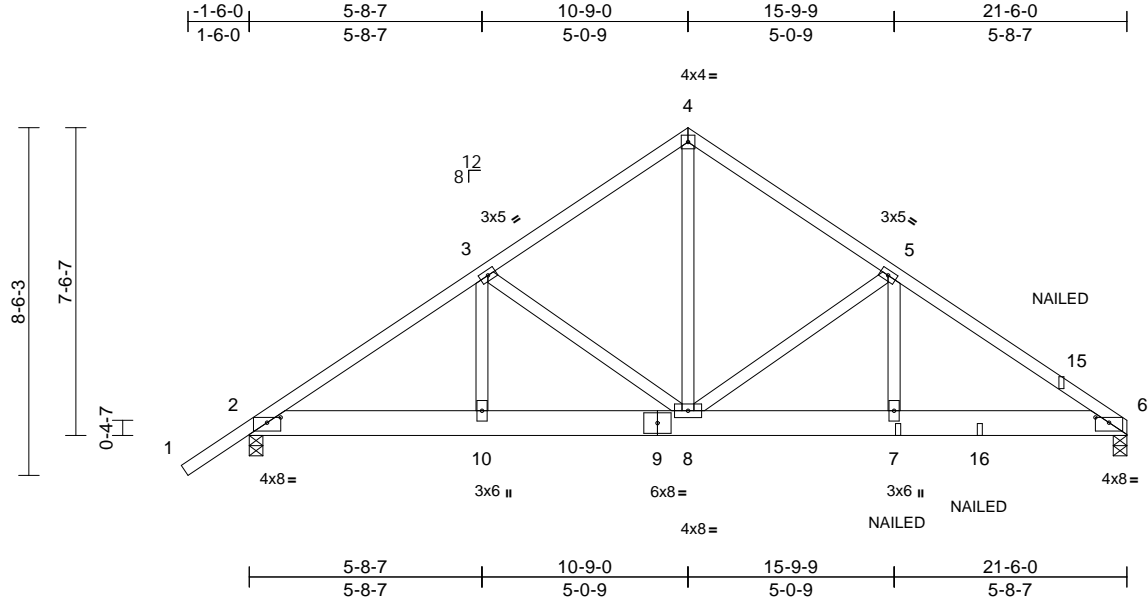


Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	B27G	Common Girder	1	1	Job Reference (optional)	T30455038

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:56.4

Plate Offsets (X, Y): [2:0-4-0,0-1-9], [6:0-4-0,0-1-9]

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	0.44	Vert(LL)	0.05	7-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.07	8-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 145 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size) 2=0-4-0, 6=0-4-0  
Max Horiz 2=304 (LC 5)  
Max Uplift 2=-427 (LC 8), 6=-418 (LC 9)  
Max Grav 2=993 (LC 1), 6=1112 (LC 16)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/53, 2-3=-1348/515, 3-4=-950/457, 4-5=-951/460, 5-6=-1572/607  
BOT CHORD 2-10=-481/1195, 8-10=-481/1195, 7-8=-391/1200, 6-7=-391/1200  
WEBS 4-8=-303/678, 5-8=-759/472, 5-7=-104/431, 3-8=-518/372, 3-10=0/252

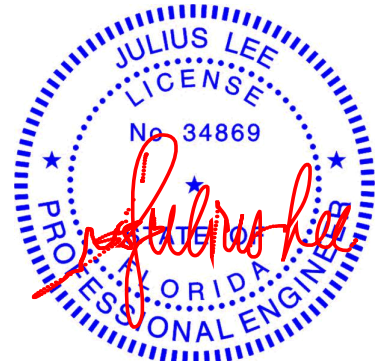
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 418 lb uplift at joint 6 and 427 lb uplift at joint 2.
- "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toenails 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: 1-4=-60, 4-6=-60, 2-6=-20  
Concentrated Loads (lb)  
Vert: 7=-65 (F), 15=-46 (F), 16=-86 (F)



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

May 2, 2023

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

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Chesterfield, MO 63017



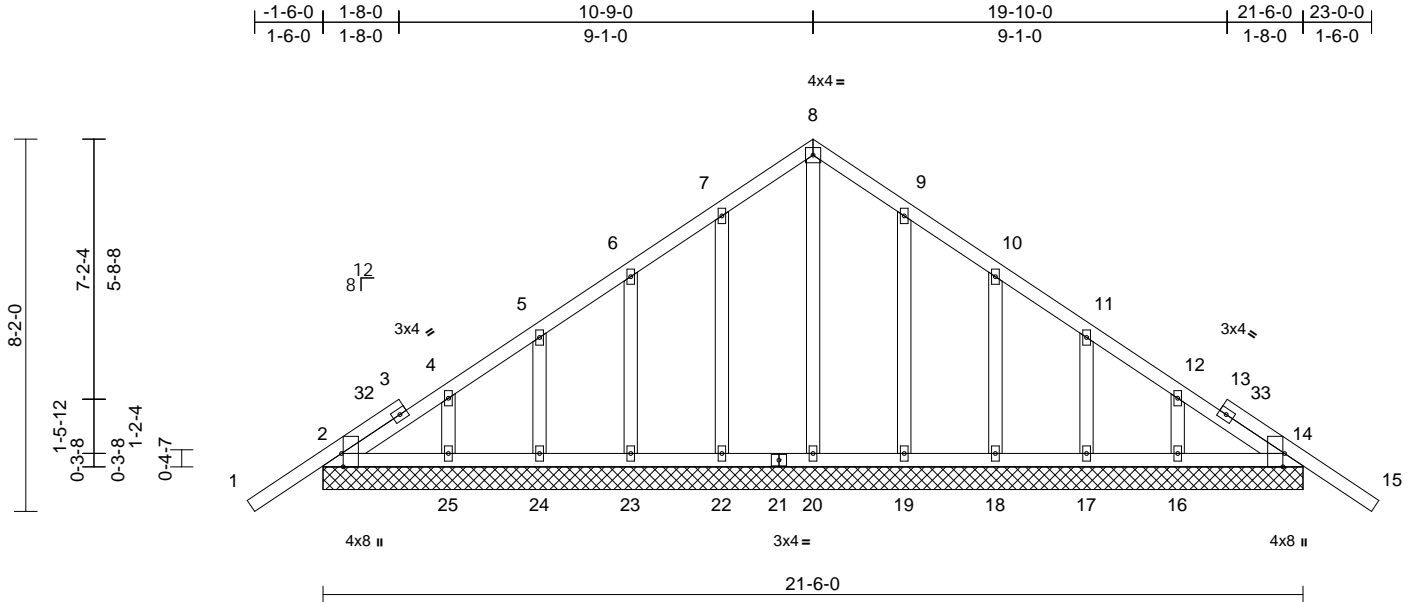
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	B28E	Common Supported Gable	1	1	Job Reference (optional)	T30455039

19 Lumber, Inc., Old Town, FL - 32680,

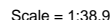
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[illegible]

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP No.2 \*Except\* 10-7:2x8 SP DSS  
WEBS 2x4 SP No.2

TOP CHORD	Structural wood sheathing directly applied or 3-5-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-10-1 oc bracing.

Max Horiz 2=156 (LC 7)  
Max Uplift 2=-2316 (LC 8), 7=-3249 (LC 9)  
Max Grav 2=4328 (LC 1), 7=7150 (LC 2)

Tension

TOP CHORD 1-2=0/53, 2-3=-7539/4104, 3-4=-9636/5327,  
4-5=-9991/5127, 5-6=-8293/3965,  
6-7=-9694/4583, 7-8=0/53

BOT CHORD 2-12=-3432/6213, 11-12=-3441/6233,  
9-11=-5323/9895, 7-9=-3735/8029

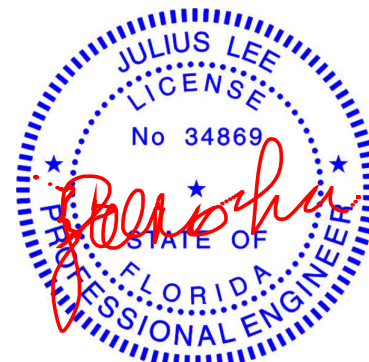
WEBS 3-12=-204/414, 3-11=-2851/4985,  
4-11=-693/586, 6-9=-2449/5182,  
5-9=-2517/1653, 5-10=-991/1669,  
4-10=-571/810

- 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: 2x8 - 3 rows staggered at 0-5-0 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 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior  
zone; 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) All plates are MT20 plates unless otherwise indicated.
- 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) Bearings are assumed to be: Joint 2 SP No.2 crushing  
capacity of 565 psi, Joint 7 SP DSS crushing capacity of  
660 psi.
- 11) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 2316 lb uplift at  
joint 2 and 3249 lb uplift at joint 7.
- 12) Use MiTek THDH28-2 (With 36-16d nails into Girder &  
10-16d nails into Truss) or equivalent at 7-1-9 from the  
left end to connect truss(es) to front face of bottom  
chord.
- 13) 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 9-0-12 from the left end to 17-0-12 to  
connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

1) Dead + Roof Live (balanced): Lumber Increase=1.25,  
Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 3-6=-60, 6-8=-60, 2-7=-20

Vert: 11=-2967 (F), 9=-1335 (F), 16=-1339 (F),  
17=-1335 (F), 18=-1335 (F), 19=-1335 (F)



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

May 2, 2023



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



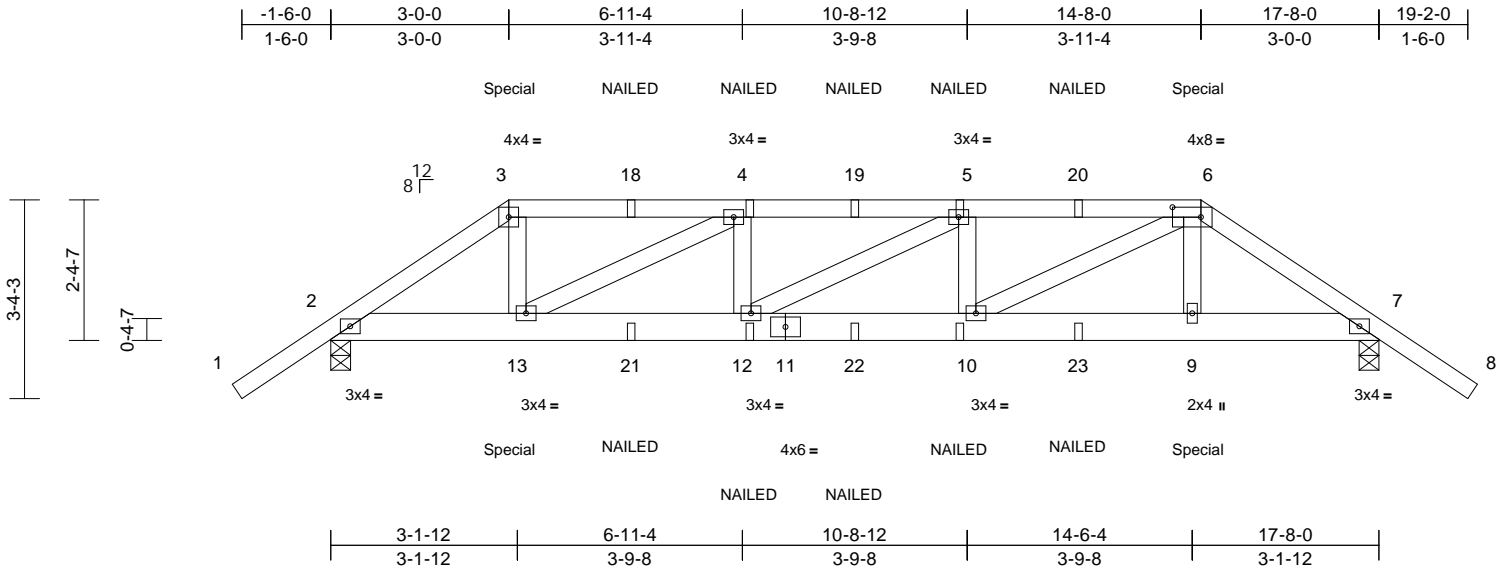
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Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	B30C	Hip Girder	1	1	Job Reference (optional)	T30455041

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:38.8

Plate Offsets (X, Y): [6:0-5-12,0-2-0]

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	0.34	Vert(LL)	0.09	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.10	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 102 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 4-3-1 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-2-9 oc bracing.

#### REACTIONS

(size) 2=0-4-0, 7=0-4-0  
Max Horiz 2=-119 (LC 6)  
Max Uplift 2=-502 (LC 8), 7=-502 (LC 9)  
Max Grav 2=929 (LC 15), 7=929 (LC 16)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 6-7=-1364/758, 7-8=0/53, 3-4=-1129/665, 4-5=-1798/1063, 5-6=-1797/1061, 1-2=0/53, 2-3=-1356/752  
BOT CHORD 2-13=-641/1195, 12-13=-1055/1905, 10-12=-1046/1898, 9-10=-605/1192, 7-9=-607/1177  
WEBS 6-9=-16/222, 3-13=-216/559, 4-13=-776/488, 5-10=-260/272, 6-10=-495/791, 5-12=-16/17, 4-12=0/167

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 502 lb uplift at joint 7 and 502 lb uplift at joint 2.
- "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 137 lb down and 112 lb up at 3-0-0, and 137 lb down and 112 lb up at 14-8-0 on top chord, and 127 lb down and 46 lb up at 3-0-0, and 127 lb down and 46 lb up at 14-7-4 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: 6-8=-60, 3-6=-60, 1-3=-60, 2-7=-20  
Concentrated Loads (lb)  
Vert: 6=-5 (B), 3=-5 (B), 9=-25 (B), 13=-25 (B), 4=-5 (B), 10=-7 (B), 5=-5 (B), 12=-7 (B), 18=-5 (B), 19=-5 (B), 20=-5 (B), 21=-7 (B), 22=-7 (B), 23=-7 (B)



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

May 2,2023

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

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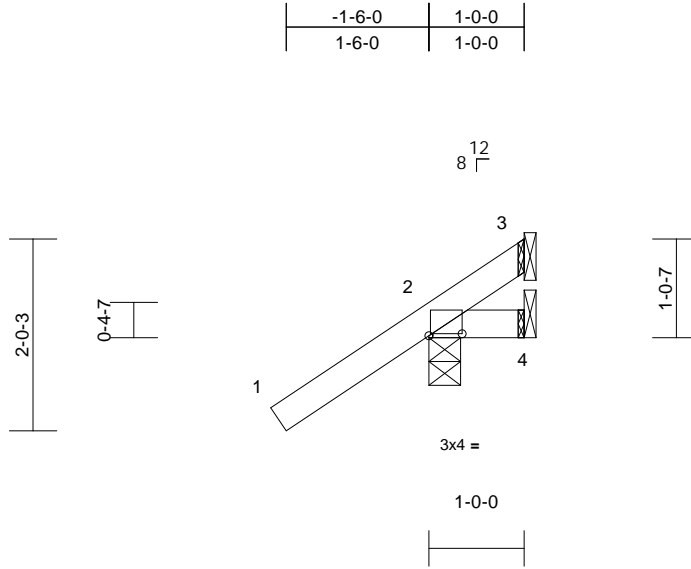
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	BJ1	Corner Jack	8	1	T30455042
					Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:19  
ID:9QfllFkxLzIWfk7hPqqovzPZ6o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.2

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

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	0.38	Vert(LL)	0.00	7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 6 lb FT = 20%

#### LUMBER

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

#### BRACING

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

**REACTIONS** (size) 2=0-4-0, 3= Mechanical, 4= Mechanical  
Max Horiz 2=94 (LC 12)  
Max Uplift 2=-150 (LC 12), 3=-9 (LC 1), 4=-28 (LC 19)  
Max Grav 2=214 (LC 19), 3=15 (LC 16), 4=39 (LC 16)

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

TOP CHORD 1-2=0/53, 2-3=-198/84  
BOT CHORD 2-4=-90/216

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2, 28 lb uplift at joint 4 and 9 lb uplift at joint 3.

**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:

May 2,2023

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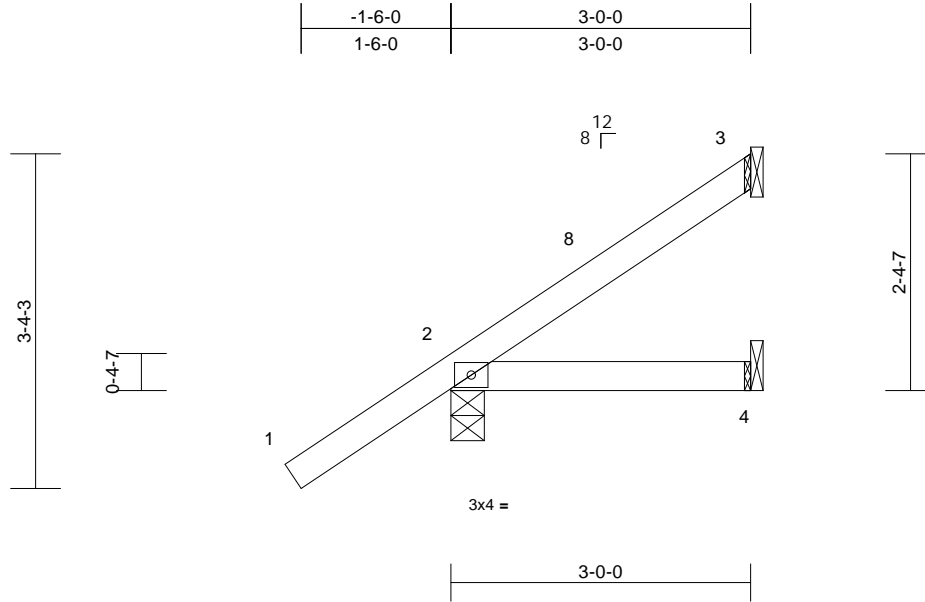


Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	BJ3	Corner Jack	4	1	Job Reference (optional)	T30455043

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:20  
ID:DLz2y5FMie597pJJE7L3L6zPZ6n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:23.1

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	0.33	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

**REACTIONS** (size) 2=0-4-0, 3= Mechanical, 4=  
Mechanical  
Max Horiz 2=173 (LC 12)  
Max Uplift 2=-111 (LC 12), 3=-79 (LC 12)  
Max Grav 2=238 (LC 1), 3=81 (LC 19), 4=50  
(LC 3)

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

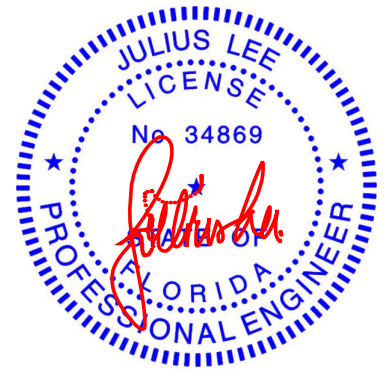
TOP CHORD 1-2=0/53, 2-3=-257/97  
BOT CHORD 2-4=-59/172

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior  
zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1)  
1-5-0 to 2-11-4 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 2 SP No.2 crushing  
capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to  
bearing plate capable of withstanding 79 lb uplift at joint  
3 and 111 lb uplift at joint 2.

**LOAD CASE(S)** Standard



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

May 2, 2023

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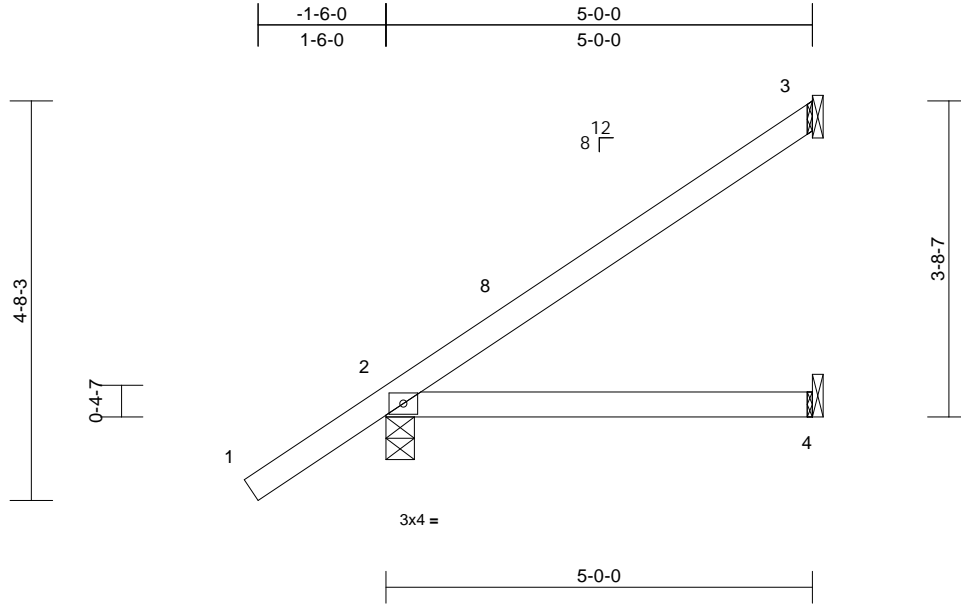
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	BJ5	Corner Jack	4	1	Job Reference (optional)	T30455044

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:20  
ID:DLZ2y5FMie597pJJE7L3L6zPZ6n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:27

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)	0.05	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.07	4-7	>845	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-4-0, 3= Mechanical, 4= Mechanical  
Max Horiz 2=254 (LC 12)  
Max Uplift 2=-113 (LC 12), 3=-150 (LC 12), 4=-3 (LC 12)  
Max Grav 2=308 (LC 1), 3=151 (LC 19), 4=91 (LC 3)

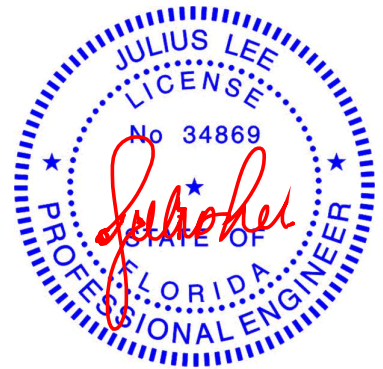
**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/53, 2-3=-321/115  
BOT CHORD 2-4=-32/138

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1) 1-5-0 to 4-11-4 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 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 3, 113 lb uplift at joint 2 and 3 lb uplift at joint 4.
- LOAD CASE(S)** Standard



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

May 2, 2023

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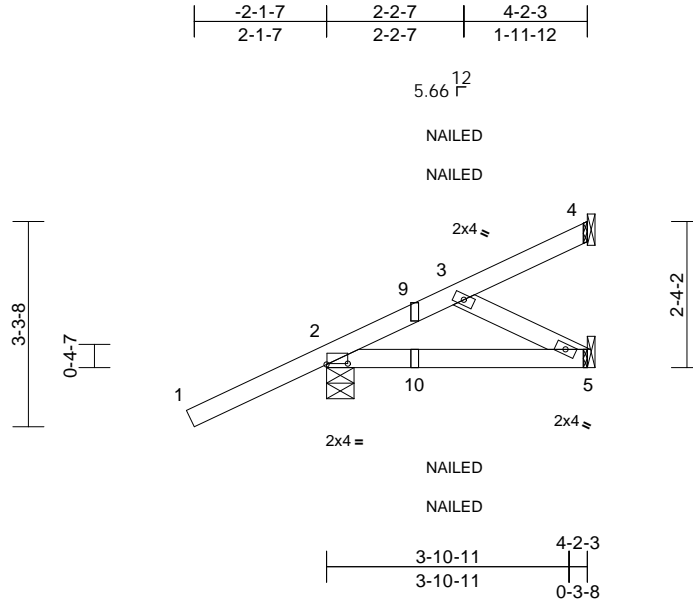
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	CJ3	Diagonal Hip Girder	2	1	T30455045
					Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:20  
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Page: 1



Scale = 1:36.9

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

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	0.36	Vert(LL)	-0.02	5-8	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	5-8	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							
										Weight: 20 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 4-2-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size) 2=0-5-5, 4= Mechanical, 5= Mechanical  
Max Horiz 2=171 (LC 8)  
Max Uplift 2=-209 (LC 8), 4=-80 (LC 24), 5=-47 (LC 19)  
Max Grav 2=249 (LC 1), 4=77 (LC 19), 5=94 (LC 12)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/56, 2-3=-265/244, 3-4=-44/27  
BOT CHORD 2-5=-221/176  
WEBS 3-5=-133/121

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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 2 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 4, 209 lb uplift at joint 2 and 47 lb uplift at joint 5.
- 8) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
- 9) 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: 1-4=-60, 5-6=-20  
Concentrated Loads (lb)  
Vert: 9=60 (F=30, B=30), 10=65 (F=32, B=32)



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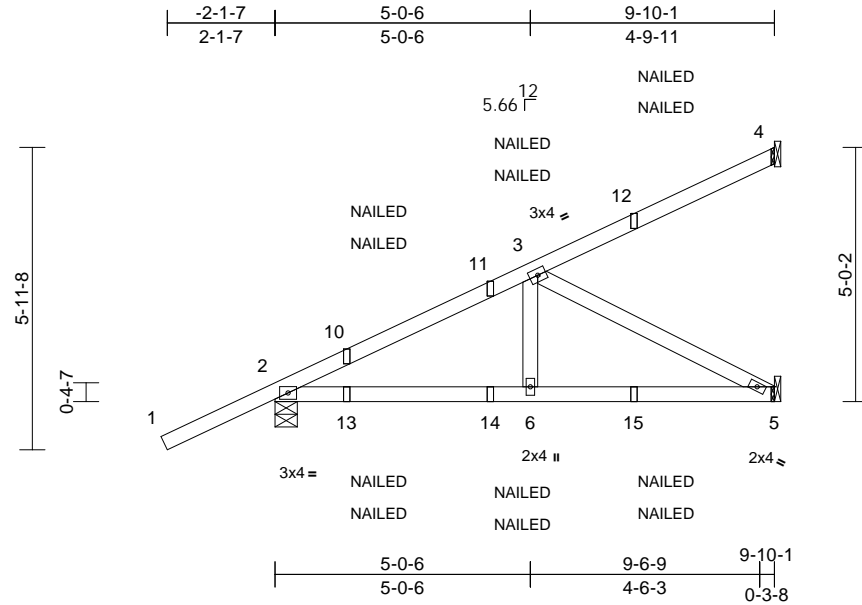
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	CJ7	Diagonal Hip Girder	2	1	Job Reference (optional)	T30455046

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:21

Page: 1

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<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.05	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.07	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 45 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.  
BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.

**REACTIONS** (size) 2=0-5-5, 4= Mechanical, 5= Mechanical  
Max Horiz 2=332 (LC 8)  
Max Uplift 2=-338 (LC 8), 4=-171 (LC 8), 5=-230 (LC 8)  
Max Grav 2=546 (LC 15), 4=144 (LC 1), 5=396 (LC 15)

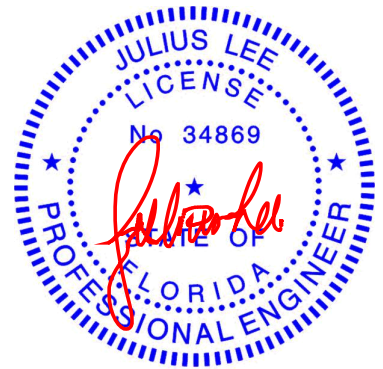
**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/56, 2-3=-879/334, 3-4=-186/49  
BOT CHORD 2-6=-468/651, 5-6=-468/651  
WEBS 3-6=0/251, 3-5=-730/525

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 2 SP No.2 crushing capacity of 565 psi.

- 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 4, 338 lb uplift at joint 2 and 230 lb uplift at joint 5.
  - 8) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
  - 9) 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: 1-4=-60, 5-7=-20  
Concentrated Loads (lb)  
Vert: 10=60 (F=30, B=30), 12=-77 (F=-39, B=-39), 13=65 (F=32, B=32), 14=-3 (F=-2, B=-2), 15=61 (F=-31, B=-31)



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

May 2, 2023

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

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Chesterfield, MO 63017



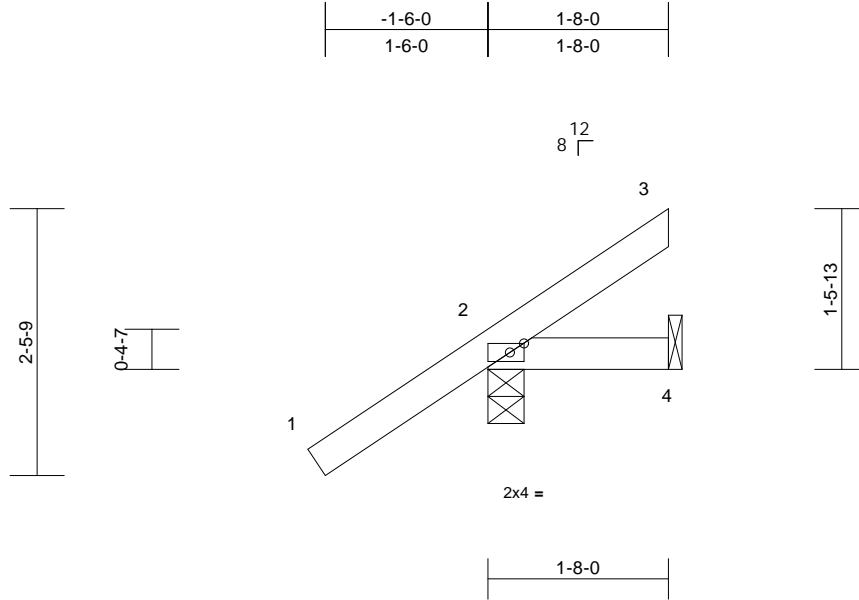
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec
0997-A	EJ1	Jack-Open	1	1	T30455047
					Job Reference (optional)

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:21

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Scale = 1:21.3

Plate Offsets (X, Y): [2:0-1-9,Edge]

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)	0.00	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	4-7	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 8 lb FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-4-0, 4= Mechanical  
Max Horiz 2=114 (LC 12)  
Max Uplift 2=-121 (LC 12), 4=-30 (LC 9)  
Max Grav 2=207 (LC 19), 4=41 (LC 8)

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

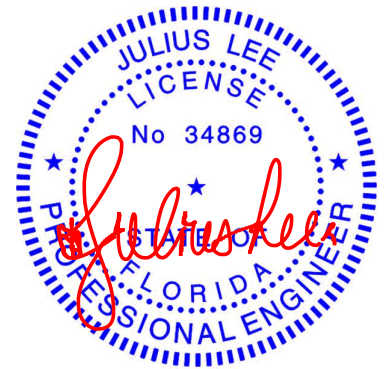
TOP CHORD 1-2=0/53, 2-3=-278/111  
BOT CHORD 2-4=-74/179

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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 2 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2 and 30 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:

May 2,2023

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

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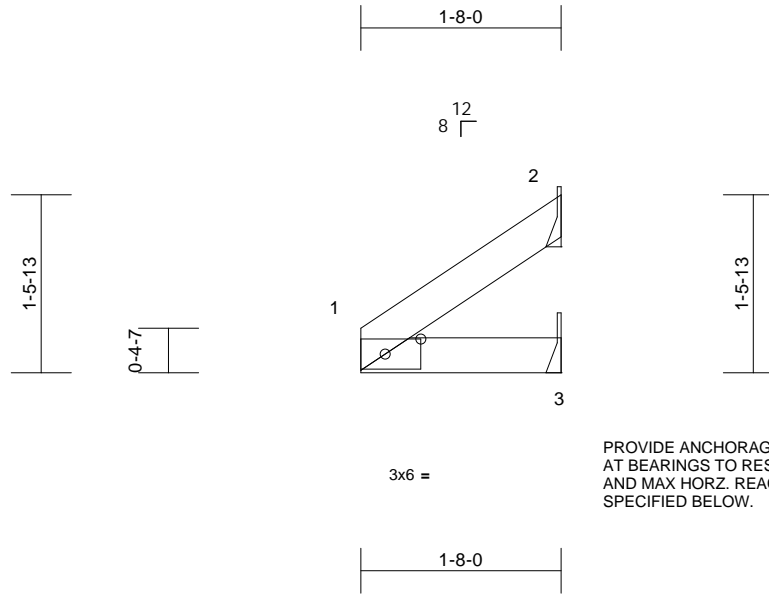
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	EJ1A	Jack-Open	1	1	Job Reference (optional)	T30455048

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:21  
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PROVIDE ANCHORAGE, DESIGNED BY OTHERS,  
AT BEARINGS TO RESIST MAX. UPLIFT  
AND MAX HORZ. REACTIONS  
SPECIFIED BELOW.

Scale = 1:19.2

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

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 6 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
1-8-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc  
bracing.

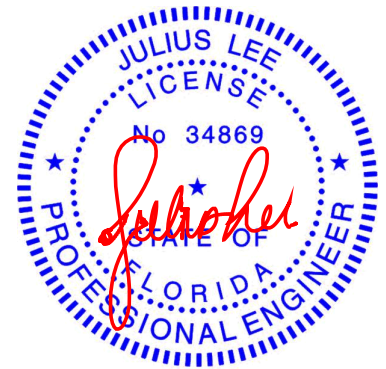
**REACTIONS** (size) 2= Mechanical, 3= Mechanical  
Max Horiz 2=95 (LC 1), 3=95 (LC 1)  
Max Uplift 3=67 (LC 12)  
Max Grav 3=132 (LC 1)

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

TOP CHORD 1-2=-214/98  
BOT CHORD 1-3=-95/303

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior  
zone and C-C Exterior(2E) 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 67 lb uplift at joint  
3.
- 7) Non Standard bearing condition. Review required.



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

May 2, 2023

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Chesterfield, MO 63017

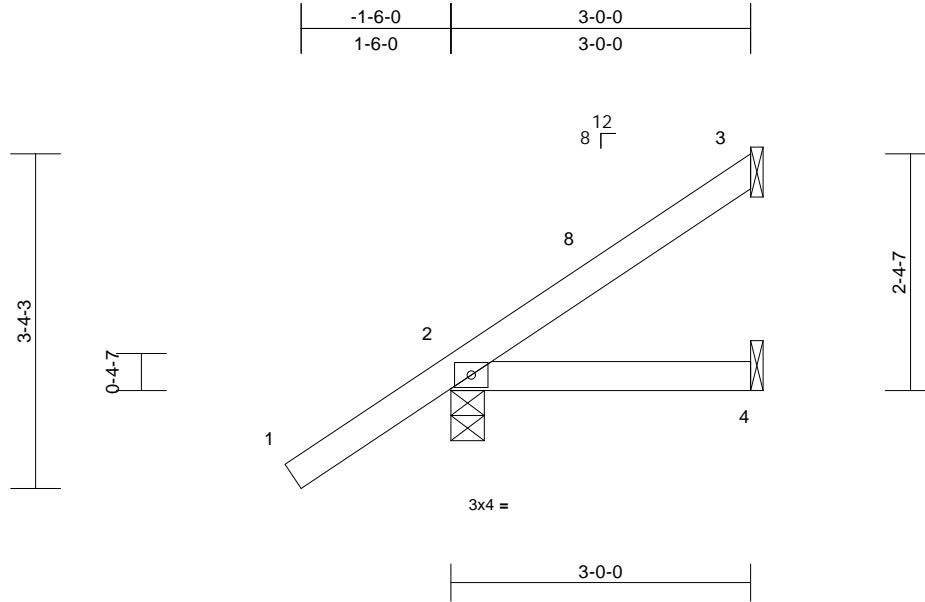
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	EJ3	Jack-Open	7	1	Job Reference (optional)	T30455049

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:22

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Scale = 1:23.1

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	0.33	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

**REACTIONS** (size) 2=0-4-0, 3= Mechanical, 4= Mechanical  
Max Horiz 2=173 (LC 12)  
Max Uplift 2=-111 (LC 12), 3=-79 (LC 12)  
Max Grav 2=238 (LC 1), 3=81 (LC 19), 4=50 (LC 3)

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

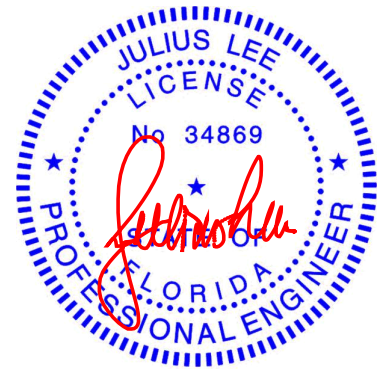
TOP CHORD 1-2=0/53, 2-3=-257/97  
BOT CHORD 2-4=-59/172

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1) 1-5-0 to 2-11-4 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 2 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 3 and 111 lb uplift at joint 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:

May 2, 2023

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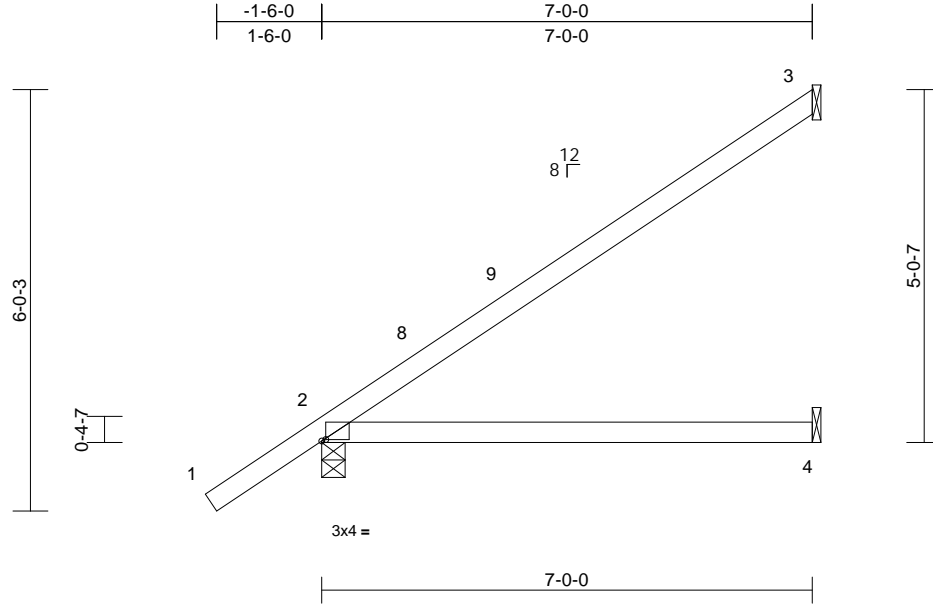
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	EJ7	Jack-Open	26	1	Job Reference (optional)	T30455050

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:32.9

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

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	0.43	Vert(LL)	0.17	4-7	>477	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22	4-7	>376	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%

#### LUMBER

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

#### 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) 2=0-4-0, 3= Mechanical, 4= Mechanical  
Max Horiz 2=334 (LC 12)  
Max Uplift 2=-122 (LC 12), 3=-222 (LC 12), 4=-3 (LC 12)  
Max Grav 2=383 (LC 1), 3=226 (LC 19), 4=125 (LC 3)

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

TOP CHORD 1-2=0/53, 2-3=-411/124  
BOT CHORD 2-4=-86/165

#### NOTES

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1) 1-5-0 to 6-11-4 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 2 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 3, 122 lb uplift at joint 2 and 3 lb uplift at joint 4.

**LOAD CASE(S)** Standard



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Date:

May 2, 2023

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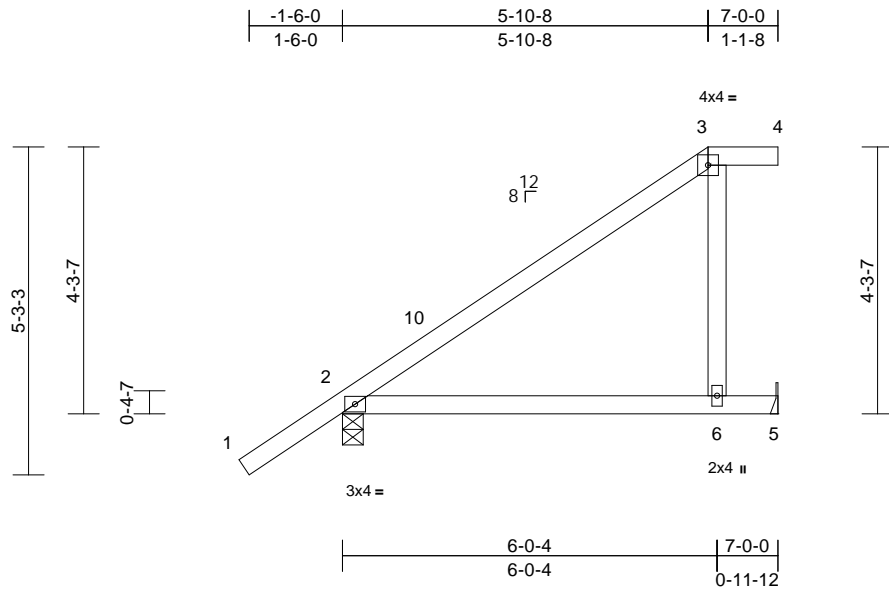


Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	EJ7A	Half Hip	1	1	Job Reference (optional)	T30455051

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:37

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)	0.25	6-9	>331	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.30	6-9	>278	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 31 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.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-4-0, 5= Mechanical  
Max Horiz 2=293 (LC 12)  
Max Uplift 2=-145 (LC 12), 5=-166 (LC 12)  
Max Grav 2=384 (LC 19), 5=274 (LC 19)

#### FORCES

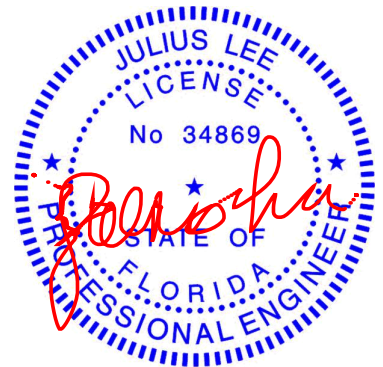
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/53, 2-3=-296/100, 3-4=0/0  
BOT CHORD 2-6=-46/145, 5-6=0/0  
WEBS 3-6=-259/376

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-7-0 to 1-5-0, Interior (1) 1-5-0 to 5-10-8, Exterior(2E) 5-10-8 to 7-0-0 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.
- 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 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 2 and 166 lb uplift at joint 5.

**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:

May 2, 2023

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16023 Swingley Ridge Rd  
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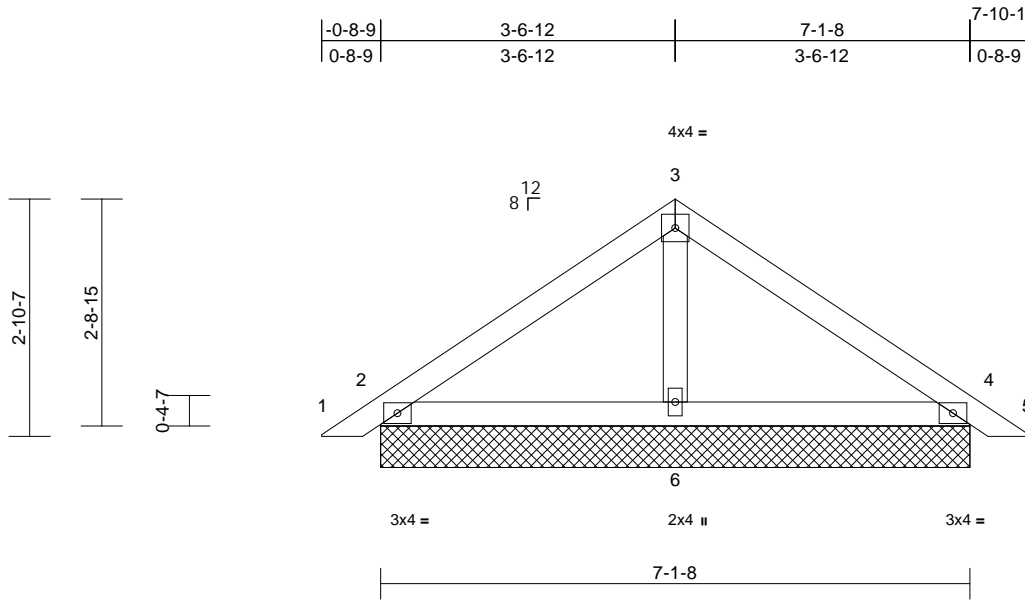
Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	PB1	Piggyback	7	1	Job Reference (optional)	T30455052

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:23

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Scale = 1:27.9

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 29 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 or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

<b>REACTIONS</b>	(size)	2=7-1-8, 4=7-1-8, 6=7-1-8, 7=7-1-8, 11=7-1-8
	Max Horiz	2=-104 (LC 10), 7=-104 (LC 10)
	Max Uplift	2=-103 (LC 12), 4=-117 (LC 13), 6=-55 (LC 12), 7=-103 (LC 12), 11=-117 (LC 13)
	Max Grav	2=193 (LC 1), 4=197 (LC 20), 6=241 (LC 1), 7=193 (LC 1), 11=197 (LC 20)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/16, 2-3=-138/157, 3-4=-138/157, 4-5=0/16
BOT CHORD	2-6=-45/77, 4-6=-39/77
WEBS	3-6=-99/44

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCCL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 4-3-11, Exterior(2R) 4-3-11 to 7-5-9, Interior (1) 7-5-9 to 8-4-0 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

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2, 117 lb uplift at joint 4, 55 lb uplift at joint 6, 103 lb uplift at joint 2 and 117 lb uplift at joint 4.
- 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:

May 2, 2023

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

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

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



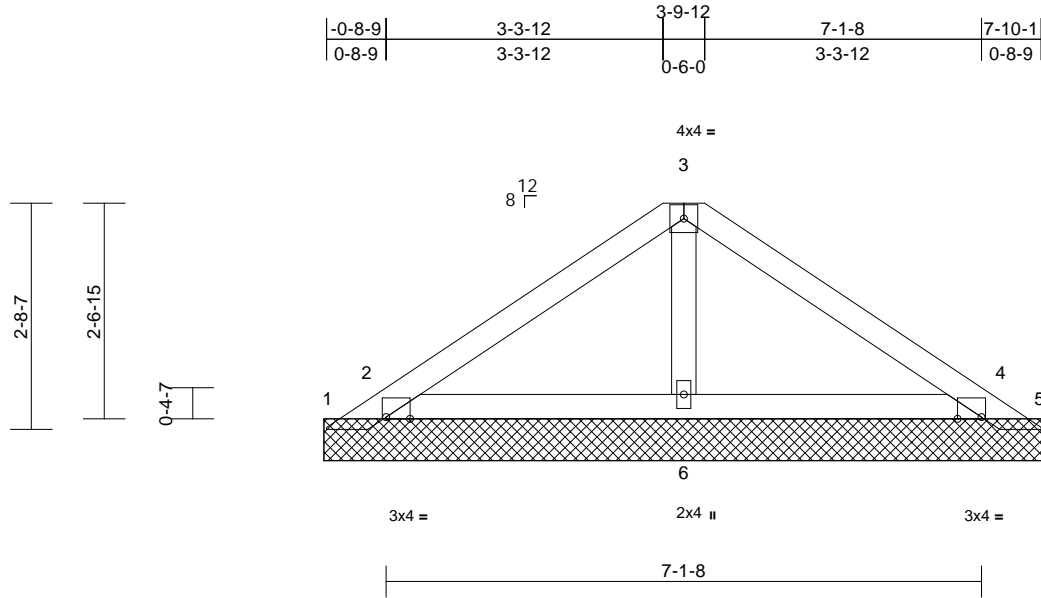
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	PB2	Piggyback	1	1	Job Reference (optional)	T30455053

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:23  
ID:Rh2LQ\_s5gWS3kAGNiTd7IzPUwk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCD0i7J4zJC?f

Page: 1



Scale = 1:27.6

Plate Offsets (X, Y): [2:0-3-7,Edge], [4:0-3-7,Edge]

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							
										Weight: 29 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 or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size) 1=8-7-6, 2=8-7-6, 4=8-7-6,  
5=8-7-6, 6=8-7-6, 7=8-7-6,  
10=8-7-6  
Max Horiz 1=-104 (LC 8)  
Max Uplift 1=-266 (LC 19), 2=-335 (LC 12),  
4=-313 (LC 13), 5=-216 (LC 20),  
6=-28 (LC 12), 7=-335 (LC 12),  
10=-313 (LC 13)  
Max Grav 1=218 (LC 12), 2=496 (LC 19),  
4=451 (LC 20), 5=178 (LC 13),  
6=205 (LC 1), 7=496 (LC 19),  
10=451 (LC 20)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

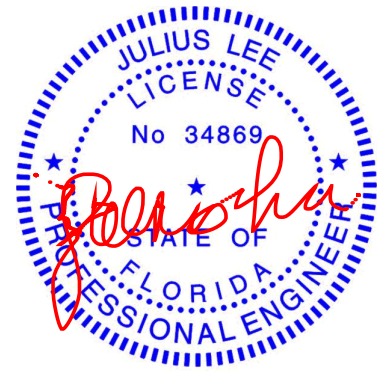
TOP CHORD 1-2=-179/231, 2-3=-137/128, 3-4=-135/128,  
4-5=-142/149  
BOT CHORD 2-6=-106/118, 4-6=-106/118  
WEBS 3-6=-108/56

#### NOTES

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

- Wind: ASCE 7-16; Vult=140mph (3-second gust)  
Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 4-3-11, Exterior(2R) 4-3-11 to 7-5-9, Interior (1) 7-5-9 to 8-4-0 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
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 2, 313 lb uplift at joint 4, 266 lb uplift at joint 1, 216 lb uplift at joint 5, 28 lb uplift at joint 6, 335 lb uplift at joint 2 and 313 lb uplift at joint 4.
- 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:

May 2, 2023

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

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



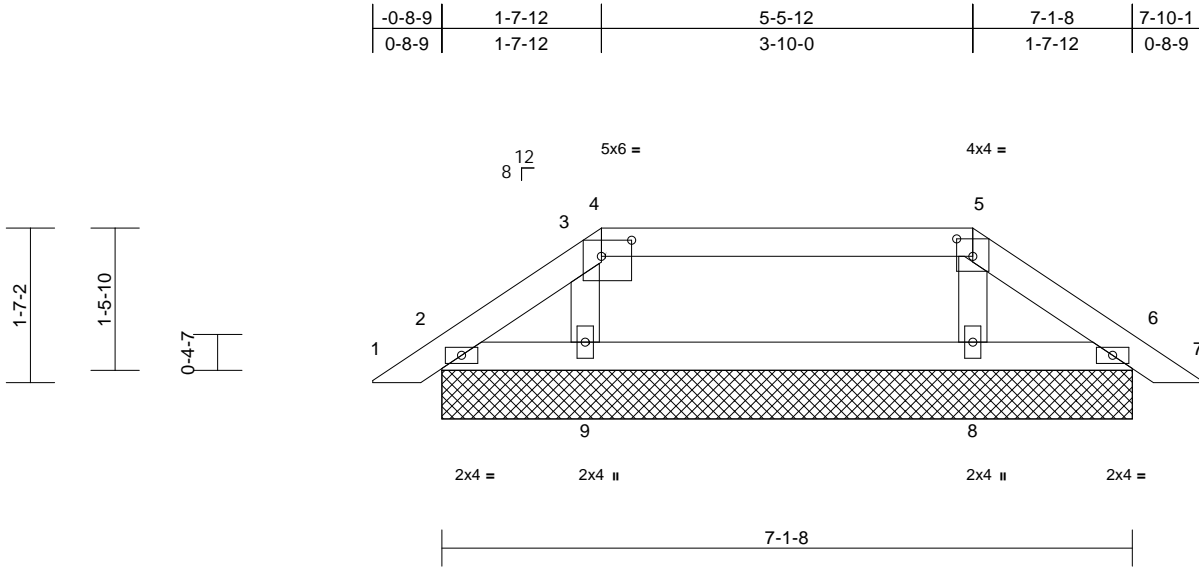
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	T30455054
0997-A	PB3	Piggyback	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:24  
ID:7Ts0\_2NTEIVStH35MglvRmzPZxZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.8

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

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 27 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 or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=7-1-8, 6=7-1-8, 8=7-1-8, 9=7-1-8, 10=7-1-8, 14=7-1-8  
Max Horiz 2=-56 (LC 10), 10=-56 (LC 10)  
Max Uplift 2=-52 (LC 12), 6=-70 (LC 13), 8=-69 (LC 8), 9=-95 (LC 9), 10=-52 (LC 12), 14=-70 (LC 13)  
Max Grav 2=80 (LC 1), 6=99 (LC 24), 8=217 (LC 1), 9=232 (LC 23), 10=80 (LC 1), 14=99 (LC 24)

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

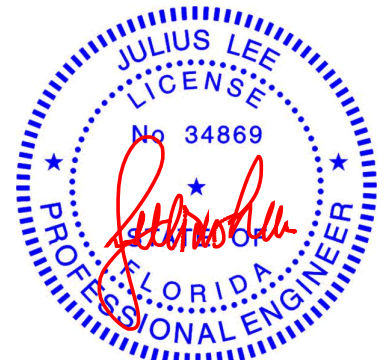
TOP CHORD 1-2=0/16, 2-3=-42/48, 3-4=-105/146, 4-5=-44/79, 5-6=-52/60, 6-7=0/16  
BOT CHORD 2-9=-24/40, 8-9=-24/40, 6-8=-24/40  
WEBS 5-8=-132/140, 3-9=-155/168

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2, 70 lb uplift at joint 6, 69 lb uplift at joint 8, 95 lb uplift at joint 9, 52 lb uplift at joint 2 and 70 lb uplift at joint 6.
- 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:

May 2, 2023

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

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

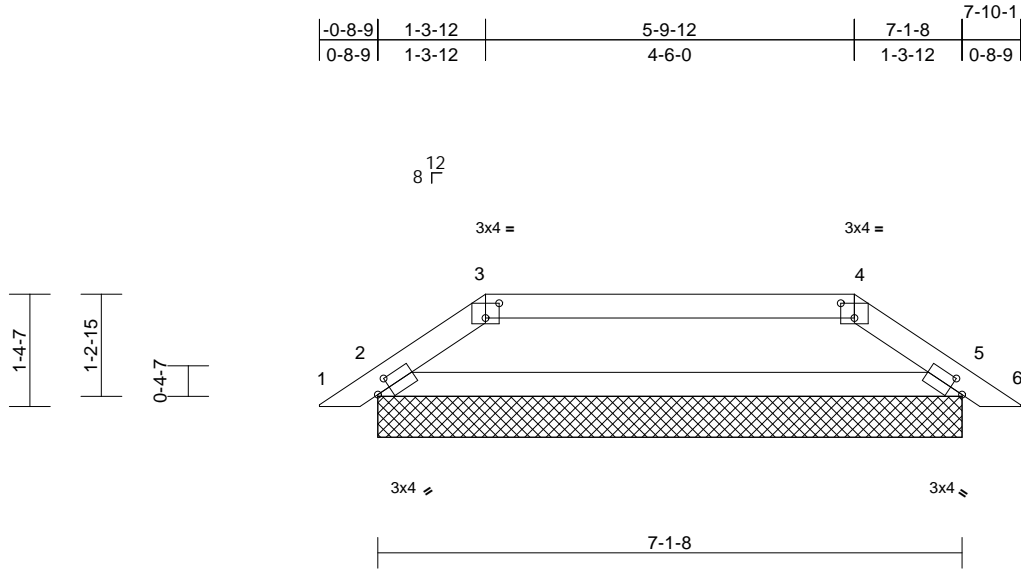


Job	Truss	Truss Type	Qty	Ply	Lot 3 Spec	
0997-A	PB4	Piggyback	1	1	Job Reference (optional)	T30455055

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 01 13:21:24  
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Page: 1



Scale = 1:28.1

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

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	11	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 25 lb FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

#### 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) 2=7-1-8, 5=7-1-8, 7=7-1-8, 11=7-1-8  
Max Horiz 2=-47 (LC 10), 7=-47 (LC 10)  
Max Uplift 2=-110 (LC 9), 5=-106 (LC 8), 7=-110 (LC 9), 11=-106 (LC 8)  
Max Grav 2=313 (LC 1), 5=321 (LC 1), 7=313 (LC 1), 11=321 (LC 1)

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

TOP CHORD 1-2=0/16, 2-3=-440/374, 3-4=-409/347, 4-5=-442/374, 5-6=0/16

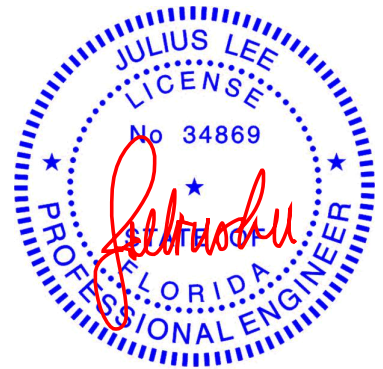
BOT CHORD 2-5=-246/406

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 106 lb uplift at joint 5, 110 lb uplift at joint 2 and 106 lb uplift at joint 5.
- 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:

May 2, 2023

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

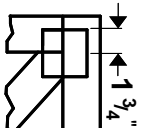
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



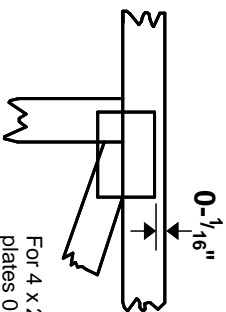
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

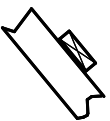
**\* Plate location details available in MITek 20/20 software or upon request.**

## PLATE SIZE

**4 X 4**

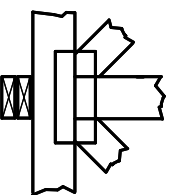
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



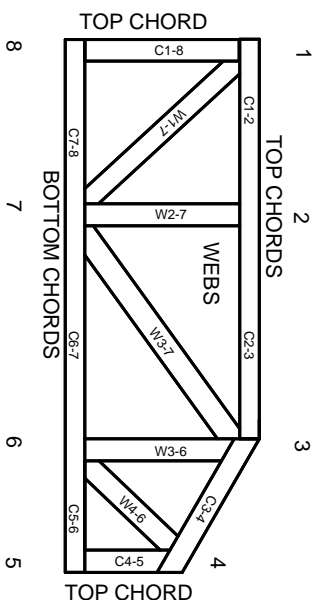
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITEK Engineering Reference Sheet: MII-7473 rev. 5/19/2020



# General Safety Notes

**Failure to Follow Could Cause Property Damage or Personal Injury**

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.