



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

RE: 6250757 - 2405-A-Tray

MiTek, Inc.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Model: 2405-A-Tray

314-434-1200

Site Information:

Customer Info: Adams Homes-Gainesville

Project Name: The Preserve at Laurel Lake

Lot/Block: 117

Subdivision: The Preserve at Laurel Lake

Address: 120 SW Bellflower Dr. , .

City: Lake City

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2023/TPI2014

Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7-22

Wind Speed: 140 mph

Roof Load: 40.0 psf

Floor Load: 55.0 psf

This package includes 54 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.

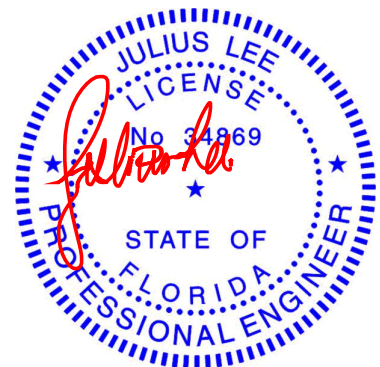
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T36803525	A01	3/27/25	23	T36803547	D01	3/27/25
2	T36803526	A02	3/27/25	24	T36803548	E3	3/27/25
3	T36803527	A03	3/27/25	25	T36803549	E3A	3/27/25
4	T36803528	A03T	3/27/25	26	T36803550	E5	3/27/25
5	T36803529	A04	3/27/25	27	T36803551	E5D	3/27/25
6	T36803530	A05	3/27/25	28	T36803552	E5G	3/27/25
7	T36803531	A06	3/27/25	29	T36803553	E7	3/27/25
8	T36803532	A07	3/27/25	30	T36803554	E7A	3/27/25
9	T36803533	A08	3/27/25	31	T36803555	E7T	3/27/25
10	T36803534	B01	3/27/25	32	T36803556	FL1	3/27/25
11	T36803535	B02	3/27/25	33	T36803557	FL2	3/27/25
12	T36803536	B03	3/27/25	34	T36803558	FL3	3/27/25
13	T36803537	B04	3/27/25	35	T36803559	FL4	3/27/25
14	T36803538	C1	3/27/25	36	T36803560	FL5	3/27/25
15	T36803539	C1D	3/27/25	37	T36803561	FL6	3/27/25
16	T36803540	C3	3/27/25	38	T36803562	FL7	3/27/25
17	T36803541	C3A	3/27/25	39	T36803563	FL8	3/27/25
18	T36803542	C3D	3/27/25	40	T36803564	FL9	3/27/25
19	T36803543	C3T	3/27/25	41	T36803565	FL10	3/27/25
20	T36803544	C5	3/27/25	42	T36803566	FL11	3/27/25
21	T36803545	C5A	3/27/25	43	T36803567	FL11X	3/27/25
22	T36803546	C5T	3/27/25	44	T36803568	FL12	3/27/25

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

Truss Design Engineer's Name: Lee, Julius

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

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



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

March 27, 2025



RE: 6250757 - 2405-A-Tray

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

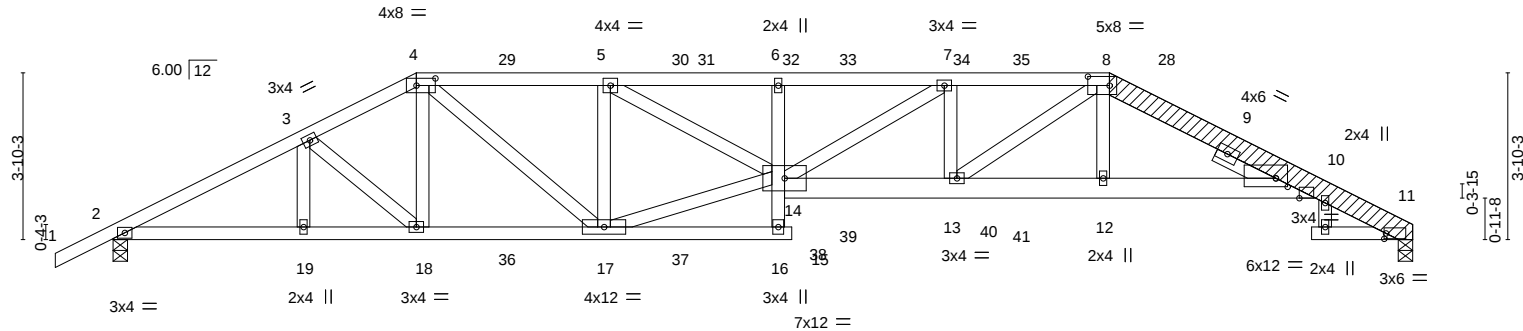
Customer Info: Adams Homes-Gainesville Project Name: The Preserve at Laurel Lake 117 Model: 2405-A-Tray
Lot/Block: 117 Subdivision: The Preserve at Laurel Lake
Address: 120 SW Bellflower Dr. , .
City: Lake City State: FL

No.	Seal#	Truss Name	Date
45	T36803569	FL12X	3/27/25
46	T36803570	FTG1	3/27/25
47	T36803571	H5	3/27/25
48	T36803572	H5D	3/27/25
49	T36803573	H7	3/27/25
50	T36803574	H7T	3/27/25
51	T36803575	V3	3/27/25
52	T36803576	V7	3/27/25
53	T36803577	V11	3/27/25
54	T36803578	V15	3/27/25

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803525
6250757	A01	HIP GIRDER	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:16 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-Btc?XhaUtzHNFYI9JxAWiKcX6L7xBgA5TkY0KdzX1Ff

Scale = 1:53.2



4-4-12	7-0-0	11-4-0	15-6-0	19-4-0	23-0-0	27-8-0	27-10-0	30-0-0
4-4-12	2-7-4	4-4-0	4-2-0	0-2-0	3-8-0	4-8-0	0-2-0	2-2-0
Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [8:0-6-0,0-2-8], [10:0-6-8,Edge], [10:0-3-4,0-2-6], [11:0-0-8,0-1-8]								

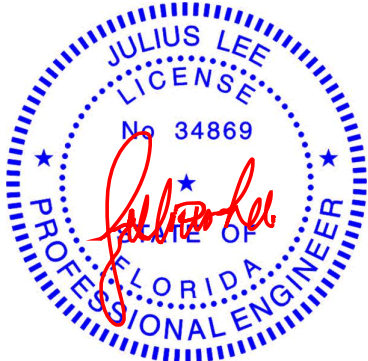
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.30	15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.61	15	>588	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.28	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Wind(LL)	0.29	15	>999	240	Weight: 387 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 8-11: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 10-14: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 14-16
WEBS 2x4 SP No.2	
OTHERS 2x6 SP DSS	
LBR SCAB 8-11 2x6 SP DSS one side	
SLIDER Right 2x4 SP No.2 1-6-0	

REACTIONS.	(size) 11=0-4-0, 2=0-4-0
	Max Horz 2=82(LC 7)
	Max Uplift 11=-558(LC 8), 2=-658(LC 8)
	Max Grav 11=2562(LC 1), 2=2626(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-5194/1212, 3-4=-5024/1221, 4-5=-5754/1369, 5-6=-8307/1890, 6-7=-8393/1903, 7-8=-7795/1732, 8-10=-7027/1541, 10-11=-1138/270
BOT CHORD	2-19=-1026/4589, 18-19=-1026/4589, 17-18=-980/4495, 16-17=-137/731, 6-14=-453/247, 13-14=-1600/7795, 12-13=-1334/6518, 10-12=-1325/6444
WEBS	3-18=-284/176, 4-18=0/650, 4-17=-332/1663, 5-17=-2161/628, 14-17=-1136/5190, 5-14=-615/3011, 7-14=-206/738, 7-13=-806/338, 8-13=-355/1626, 8-12=-148/1289

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs 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.
 - N/A
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



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

March 27,2025

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803525
6250757	A01	HIP GIRDER	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:16 2025 Page 2
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-Btc?XhaUtzHNFYI9JxAWiKcX6L7xBgA5Tky0KdzX1Ff

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=558, 2=658.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 387 lb down and 339 lb up at 7-0-0, 134 lb down and 123 lb up at 9-0-12, 134 lb down and 123 lb up at 11-0-12, 130 lb down and 123 lb up at 13-0-12, 126 lb down and 123 lb up at 15-0-0, 131 lb down and 108 lb up at 16-11-4, 131 lb down and 108 lb up at 18-11-4, and 131 lb down and 108 lb up at 20-11-4, and 297 lb down and 267 lb up at 23-0-0 on top chord, and 351 lb down and 23 lb up at 7-0-0, 89 lb down at 9-0-12, 89 lb down at 11-0-12, 89 lb down at 13-0-12, 89 lb down at 15-0-0, 86 lb down at 16-11-4, 86 lb down at 18-11-4, and 86 lb down at 20-11-4, and 434 lb down and 50 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-4=-60, 4-8=-60, 8-10=-60, 10-11=-82, 16-23=-20, 15-16=-20, 10-14=-20
- Concentrated Loads (lb)
- Vert: 4=-340(B) 8=-250(B) 18=-351(B) 17=-69(B) 5=-121(B) 12=-434(B) 29=-121(B) 30=-121(B) 32=-121(B) 33=-109(B) 34=-109(B) 35=-109(B) 36=-69(B) 37=-69(B) 38=-69(B) 39=-82(B) 40=-82(B) 41=-82(B)

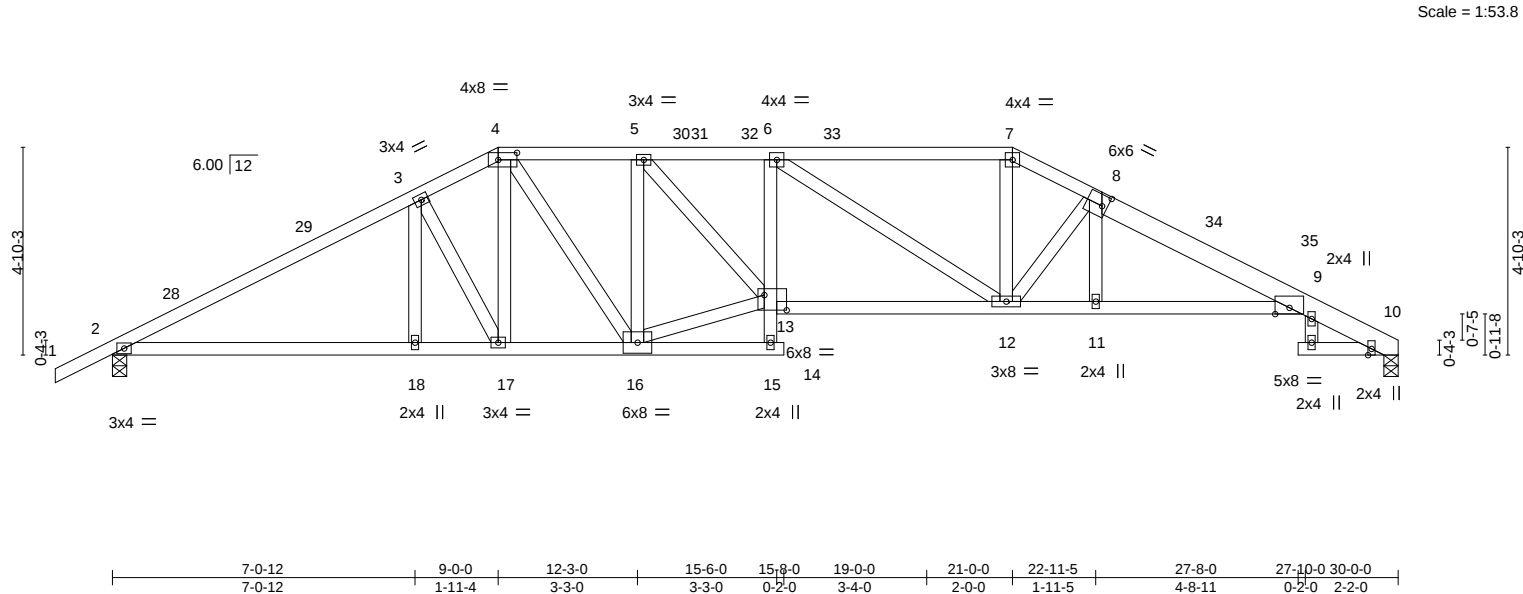
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803526
6250757	A02	HIP	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:17 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-f39Nk1b6eHPEtitMsfhIEY9gvlSsw84EhOias4zX1Fe



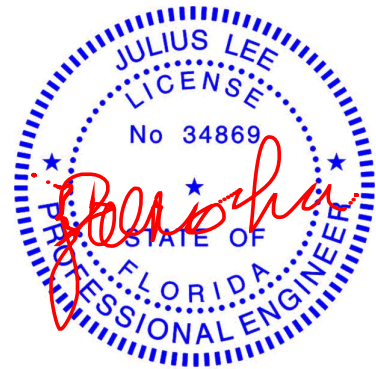
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.84	Vert(LL) -0.28	11-27	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.73	Vert(CT) -0.57	11-27	>628	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.54	Horz(CT) 0.31	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Wind(LL) 0.26	11-27	>999	240	Weight: 173 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 8-10: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 9-13: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 9-7-3 oc bracing. Except: 10-0-0 oc bracing: 13-15
WEBS 2x4 SP No.2	

REACTIONS.	(size) 2=0-4-0, 10=0-4-0
Max Horz 2=102(LC 11)	
Max Uplift 2=-314(LC 12), 10=-246(LC 12)	
Max Grav 2=1278(LC 1), 10=1200(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2183/465, 3-4=-1902/481, 4-5=-1898/473, 5-6=-2618/599, 6-7=-2103/490, 7-8=-2382/532, 8-9=-2815/586, 9-10=-529/134
BOT CHORD	2-18=-343/1882, 17-18=-343/1882, 16-17=-259/1645, 12-13=-444/2663, 11-12=-458/2624, 9-11=-456/2608
WEBS	3-18=0/264, 3-17=-497/175, 4-17=-129/419, 13-16=-294/1918, 5-13=-183/1043, 6-12=-742/144, 7-12=-150/916, 8-12=-845/226, 8-11=-28/284, 5-16=-952/222, 4-16=-96/498

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 21-0-0, Zone2 21-0-0 to 25-2-15, Zone1 25-2-15 to 29-10-0 zone; cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 10=246.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2025

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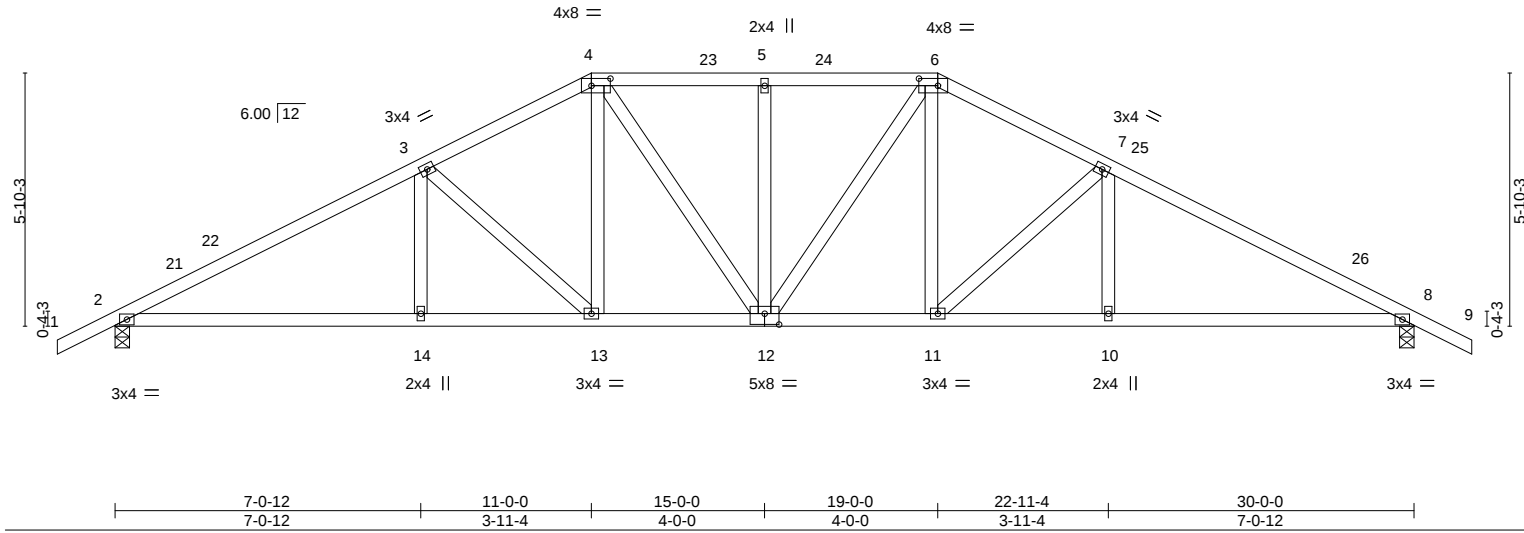
MiTek®

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803527
6250757	A03	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:17 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-f39Nk1b6eHPetitMsfhlEY9kXITJwCvEhOias4zX1Fe
-1-4-0 7-0-12 11-0-0 15-0-0 19-0-0 22-11-4 30-0-0 31-4-0
1-4-0 7-0-12 3-11-4 4-0-0 4-0-0 3-11-4 7-0-12 1-4-0

Scale = 1:53.2



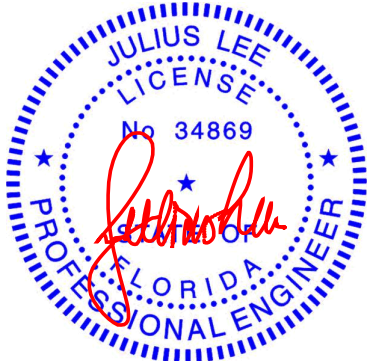
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.10 12 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.21 14-17 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.08 8 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Wind(LL)	0.09 14-17 >999 240				
								Weight: 165 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-4 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-4-0, 8=0-4-0
Max Horz 2=-123(LC 10)
Max Uplift 2=-316(LC 12), 8=-316(LC 12)
Max Grav 2=1280(LC 1), 8=1280(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2183/465, 3-4=-1743/439, 4-5=-1633/445, 5-6=-1633/445, 6-7=-1743/439, 7-8=-2183/465
BOT CHORD 2-14=-309/1882, 13-14=-309/1882, 12-13=-185/1501, 11-12=-194/1501, 10-11=-322/1882, 8-10=-322/1882
WEBS 3-14=0/258, 3-13=-521/172, 4-13=-67/394, 4-12=-62/322, 5-12=-278/134, 6-12=-62/322, 6-11=-67/394, 7-11=-521/172, 7-10=0/258

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-0-0, Zone1 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 31-4-0 zone; cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=316, 8=316.



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

March 27,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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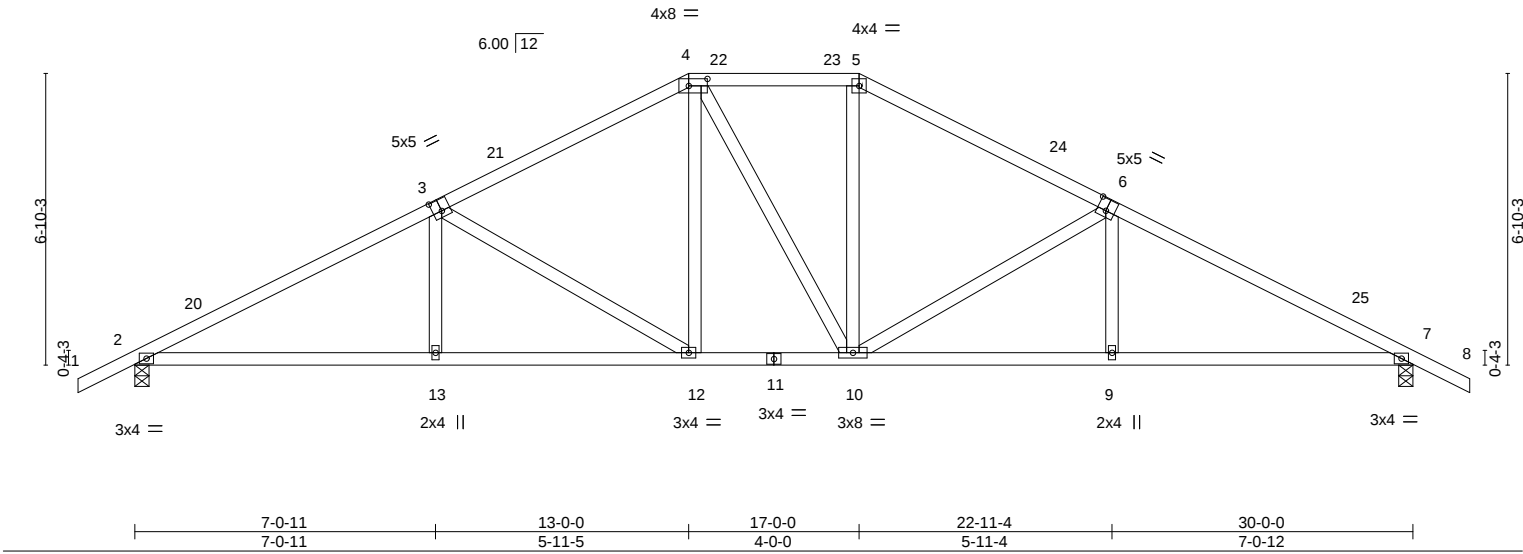
Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803528
6250757	A03T	HIP	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:18 2025 Page 1
ID:P?10H_jlvCs9m_KS0yBlpQyRZGv-7FjlxNckPaX4VsSYQMC_nliqf9oHfdmOw2R7PWzX1Fd



Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803529
6250757	A04	Hip	2	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:18 2025 Page 1
ID:P?10H_jvCs9m_KS0yBipQyRZGv-7FjlxNckPaX4VsSYQMC_nlivW9pmfbLow2R7PWzX1Fd
-1-4-0 7-0-11 13-0-0 17-0-0 22-11-4 30-0-0 31-4-0
1-4-0 7-0-11 5-11-5 4-0-0 5-11-4 7-0-12 1-4-0
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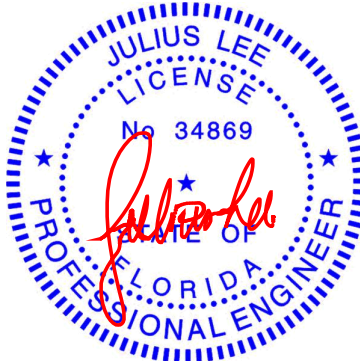
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.53	Vert(LL)	-0.10 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.69	Vert(CT)	-0.21 13-16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL)	0.09 9-19	>999	240	Weight: 158 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size)
Max Horz 2=143(LC 11)	2=0-4-0, 7=0-4-0
Max Uplift 2=-316(LC 12), 7=-316(LC 12)	
Max Grav 2=1280(LC 1), 7=1280(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2192/465, 3-4=-1600/412, 4-5=-1356/413, 5-6=-1601/412, 6-7=-2191/465
BOT CHORD	2-13=-311/1891, 12-13=-312/1888, 10-12=-144/1356, 9-10=-325/1887, 7-9=-324/1891
WEBS	3-13=0/290, 3-12=-634/208, 4-12=-50/423, 5-10=-53/424, 6-10=-633/208, 6-9=0/289

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-0-0, Zone3 13-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 31-4-0 zone; cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=316, 7=316.



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

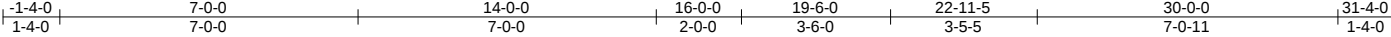
March 27,2025

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803532
6250757	A07	Roof Special	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:20 2025 Page 1

ID:P?10H_JjvCs9m_KSOyB1pQyRZGv-3erWM3d_xCnok9bxYnESSAnBMyTi7UGhNMwETPzX1Fb



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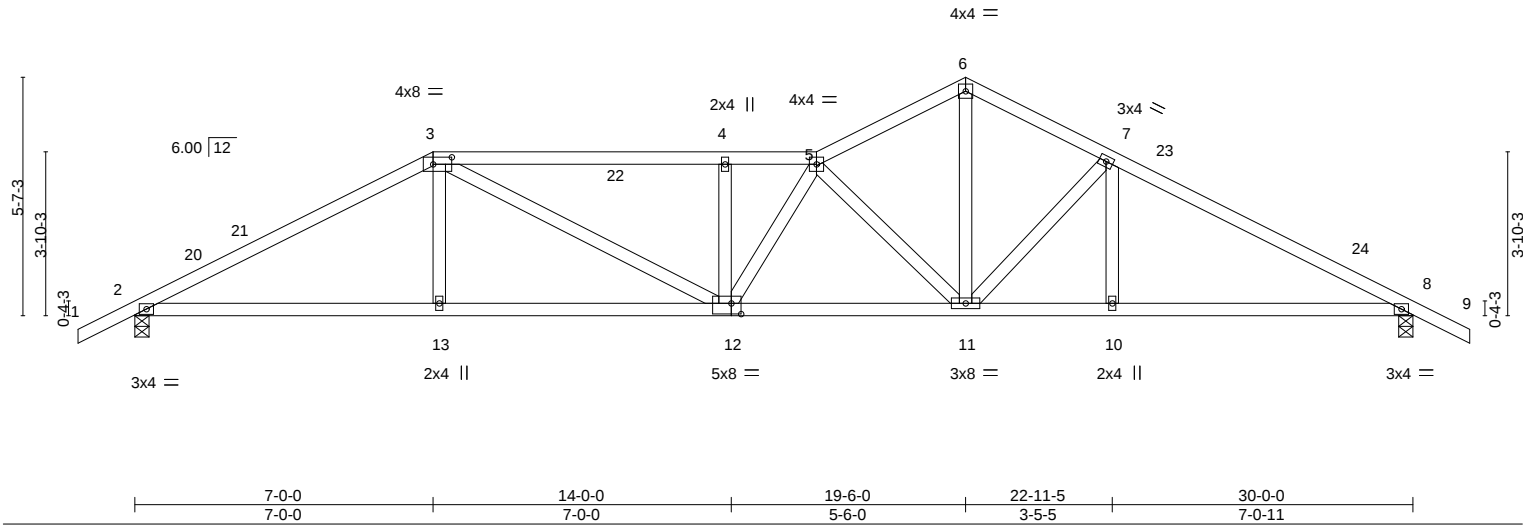


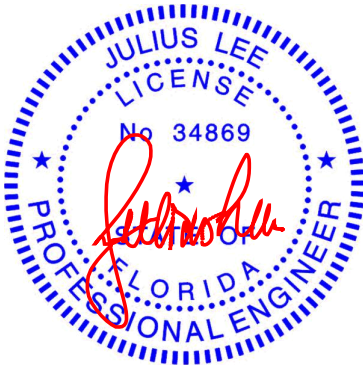
Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [12:0-2-12,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	-0.15 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.32 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.09 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Wind(LL)	0.14 11-12	>999	240	Weight: 150 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-3-15 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS.	(size) 2=0-4-0, 8=0-4-0
	Max Horz 2=118(LC 11)
	Max Uplift 2=-316(LC 12), 8=-316(LC 12)
	Max Grav 2=1280(LC 1), 8=1280(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2173/522, 3-4=-2581/688, 4-5=-2566/680, 5-6=-1761/500, 6-7=-1798/502, 7-8=-2181/523
BOT CHORD	2-13=-342/1866, 12-13=-339/1874, 11-12=-496/2494, 10-11=-373/1879, 8-10=-373/1879
WEBS	3-13=0/306, 3-12=-203/793, 4-12=-372/229, 5-11=-1348/372, 6-11=-342/1368, 7-11=-494/185

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 19-6-0, Zone2 19-6-0 to 23-8-15, Zone1 23-8-15 to 31-4-0 zone; cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=316, 8=316.



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

March 27,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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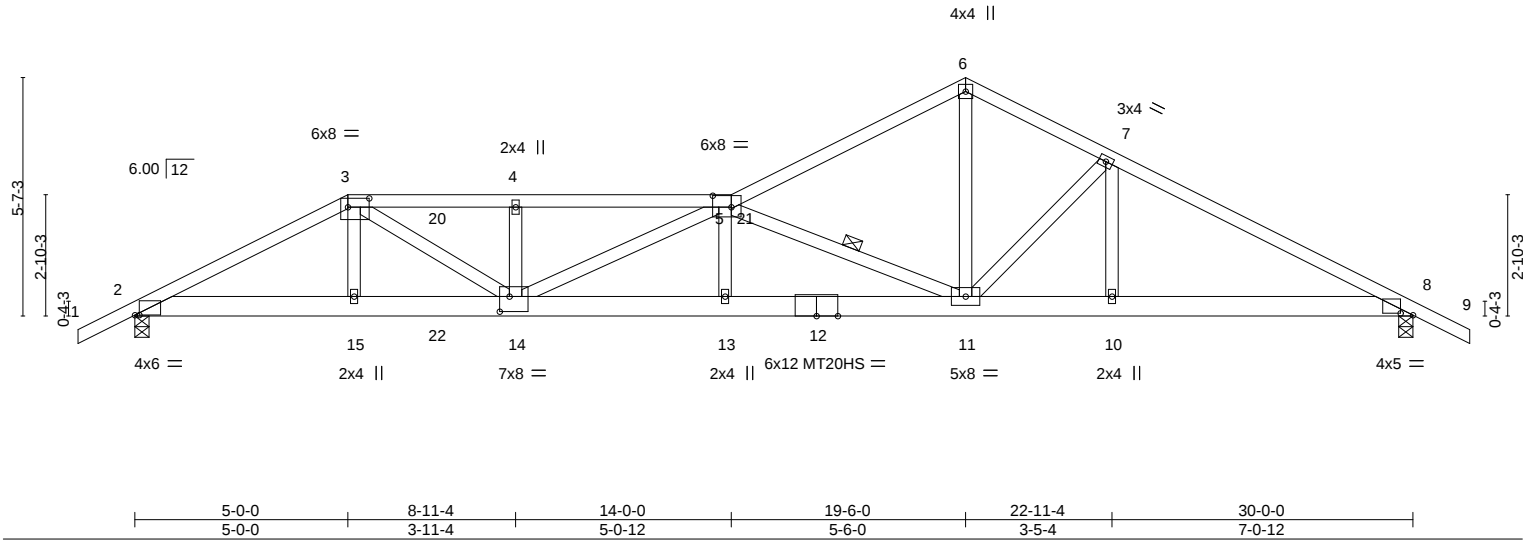
Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803533
6250757	A08	Roof Special Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:21 2025 Page 1
ID:P?10H_JyvCs9m_KS0yBlpQyRZGv-XqPuaPeciVvfMJA75VlhPOKLCMtJsulqc0gn?rzX1Fa

-1-4-0	5-0-0	8-11-4	14-0-0	19-6-0	22-11-4	30-0-0	31-4-0
1-4-0	5-0-0	3-11-4	5-0-12	5-6-0	3-5-4	7-0-12	1-4-0

Scale = 1:54.1



Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803533
6250757	A08	Roof Special Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:21 2025 Page 2
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-XqPuaPeciVvfMJA75VlhPOKLcMtJsulqc0gn?rzX1Fa

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 3=-146(F) 15=-93(F) 14=-1240(F) 20=-65(F) 22=-41(F)

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

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803534
6250757	B01	Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:21 2025 Page 1

ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-XqPuaPeciVvfMJA75VlhPOKS4Mnjs2Mqc0gn?rzX1Fa



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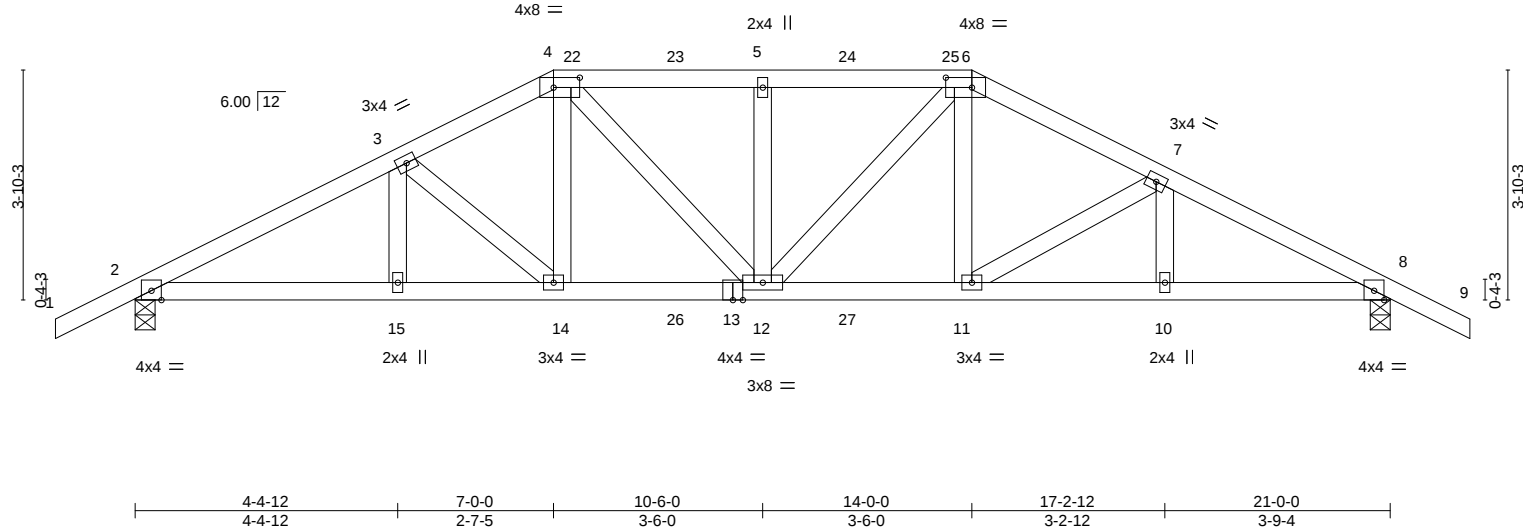


Plate Offsets (X,Y)--	[4:0-5-4,0-2-0], [6:0-5-4,0-2-0]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	-0.13	12	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	-0.26	12-14	>957	240	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.10	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Wind(LL)	0.13	12	>999	240	
								Weight: 113 lb	FT = 20%

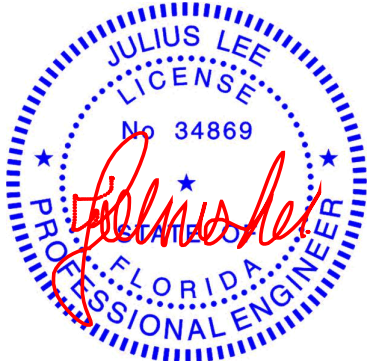
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-13 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-4-0, 8=0-4-0
Max Horz 2=-83(LC 25)
Max Uplift 2=-529(LC 8), 8=-529(LC 8)
Max Grav 2=1915(LC 1), 8=1915(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3667/935, 3-4=-3458/937, 4-5=-3457/947, 5-6=-3457/947, 6-7=-3460/932, 7-8=-3682/933
BOT CHORD 2-15=-743/3228, 14-15=-743/3228, 12-14=-692/3083, 11-12=-689/3087, 10-11=-750/3248, 8-10=-750/3248
WEBS 3-14=-305/149, 4-14=-11/624, 4-12=-148/575, 5-12=-532/315, 6-12=-149/573, 6-11=0/619, 7-11=-308/155

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=529, 8=529.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 391 lb down and 343 lb up at 7-0-0, 135 lb down and 127 lb up at 9-0-12, 135 lb down and 127 lb up at 10-6-0, and 135 lb down and 127 lb up at 11-11-4, and 391 lb down and 343 lb up at 14-0-0 on top chord, and 356 lb down and 22 lb up at 7-0-0, 90 lb down at 9-0-12, 90 lb down at 10-6-0, and 90 lb down at 11-11-4, and 356 lb down and 22 lb up at 13-11-4 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
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25



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

March 27,2025

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803534
6250757	B01	Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:22 2025 Page 2
ID:P?10H_JjvCs9m_KS0yBipQyRZGv-?0zGnlffETp1WzTlJfCGwxbsdqm7ybVczrgPKYHzX1FZ

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 16-19=-20
Concentrated Loads (lb)
Vert: 4=-344(F) 6=-344(F) 14=-356(F) 12=-73(F) 5=-125(F) 11=-356(F) 23=-125(F) 24=-125(F) 26=-73(F) 27=-73(F)

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

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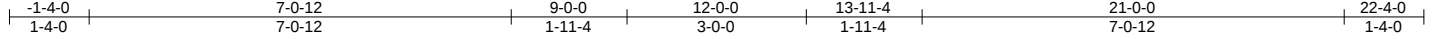
Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803535
6250757	B02	Hip	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:22 2025 Page 1

ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-?0zGnlfETp1WzTJfCGwxbscHmCabVPzrgPKYHzX1FZ

Job Reference (optional)



Scale = 1:38.6

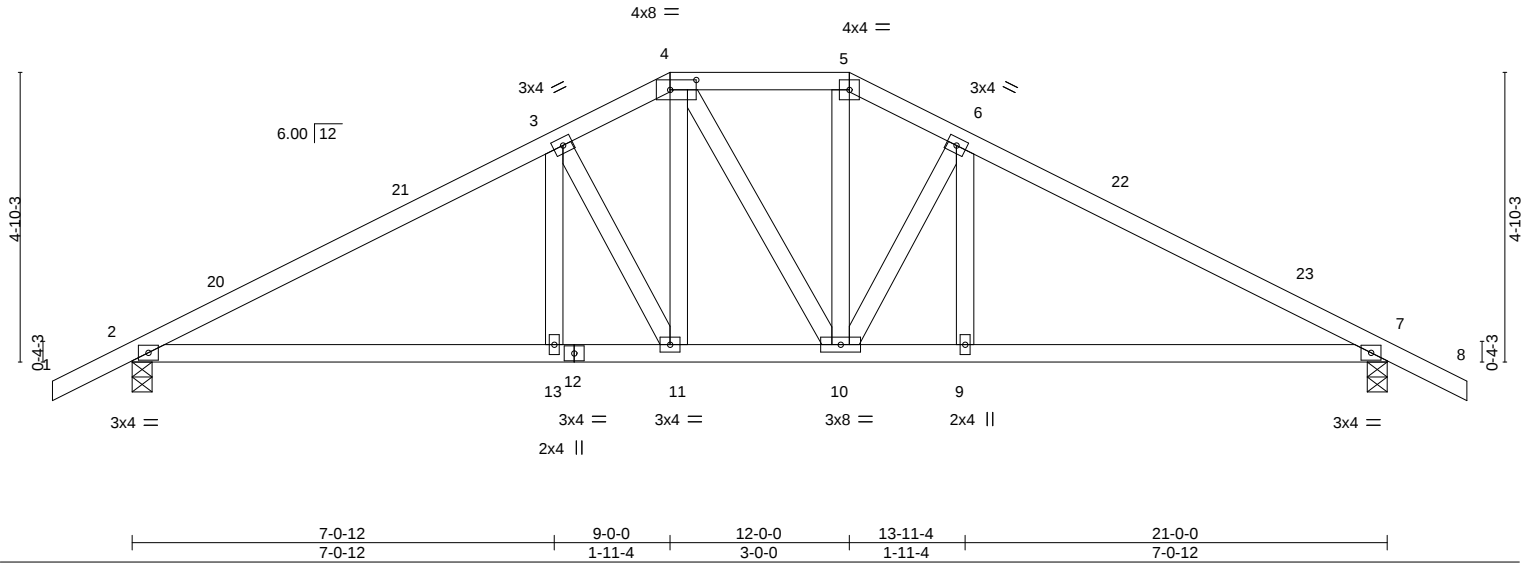


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.07 13-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.17 13-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Wind(LL)	0.07 13-16	>999	240	Weight: 112 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 4-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

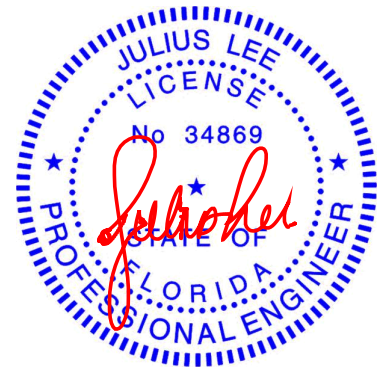
(size) 2=0-4-0, 7=0-4-0
Max Horz 2=103(LC 11)
Max Uplift 2=-240(LC 12), 7=-240(LC 12)
Max Grav 2=920(LC 1), 7=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1397/316, 3-4=-1110/330, 4-5=-938/291, 5-6=-1112/330, 6-7=-1397/316
BOT CHORD 2-13=-173/1180, 11-13=-173/1180, 10-11=-93/935, 9-10=-187/1180, 7-9=-187/1180
WEBS 3-13=0/272, 3-11=-517/179, 4-11=-127/427, 5-10=-116/428, 6-10=-513/178, 6-9=0/267

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCdL=4.2psf; BCdL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone3 9-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 22-4-0 zone; cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=240, 7=240.



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

March 27,2025

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

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803536
6250757	B03	Common	1	1	Job Reference (optional)	

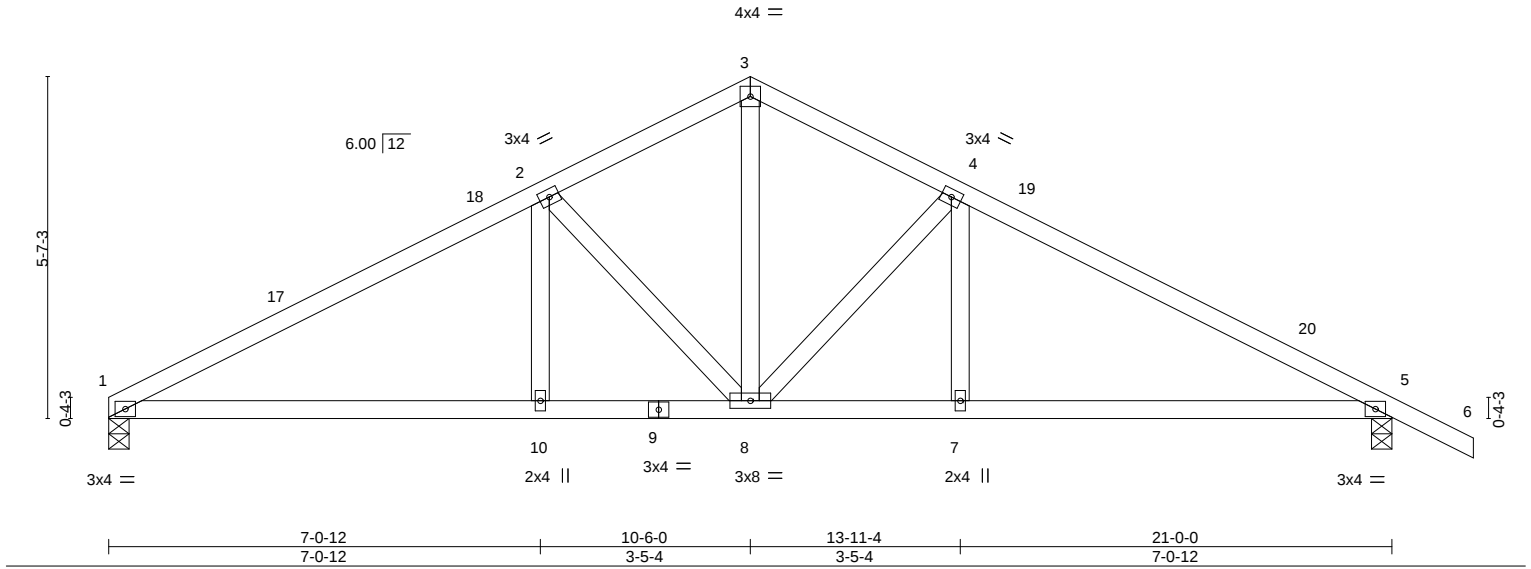
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:23 2025 Page 1

ID:P?10H_JjvCs9m_KS0yBipQyRZGv-UDXe?4gtE79NbdKWDwo9UpPmKAX?KxZ74K9u4jzX1FY

7-0-12	10-6-0	13-11-4	21-0-0	22-4-0
7-0-12	3-5-4	3-5-4	7-0-12	1-4-0

Scale = 1:37.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	Vert(LL)	-0.08 10-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.62	Vert(CT)	-0.18 10-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT)	0.04 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL)	0.09 10-13	>999	240		
							Weight: 100 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 4-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

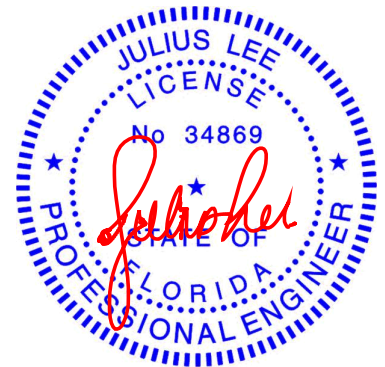
(size) 1=0-4-0, 5=0-4-0
Max Horz 1=-116(LC 10)
Max Uplift 1=-175(LC 12), 5=-242(LC 12)
Max Grav 1=837(LC 1), 5=923(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1409/388, 2-3=-994/352, 3-4=-993/339, 4-5=-1400/369
BOT CHORD 1-10=-227/1192, 8-10=-227/1192, 7-8=-230/1182, 5-7=-230/1182
WEBS 3-8=-248/743, 4-8=-520/207, 4-7=0/271, 2-8=-535/212, 2-10=0/274

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-6-0, Zone2 10-6-0 to 14-8-15, Zone1 14-8-15 to 22-4-0 zone; cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=175, 5=242.



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

March 27,2025

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803537
6250757	B04	Common	2	1	Job Reference (optional)	

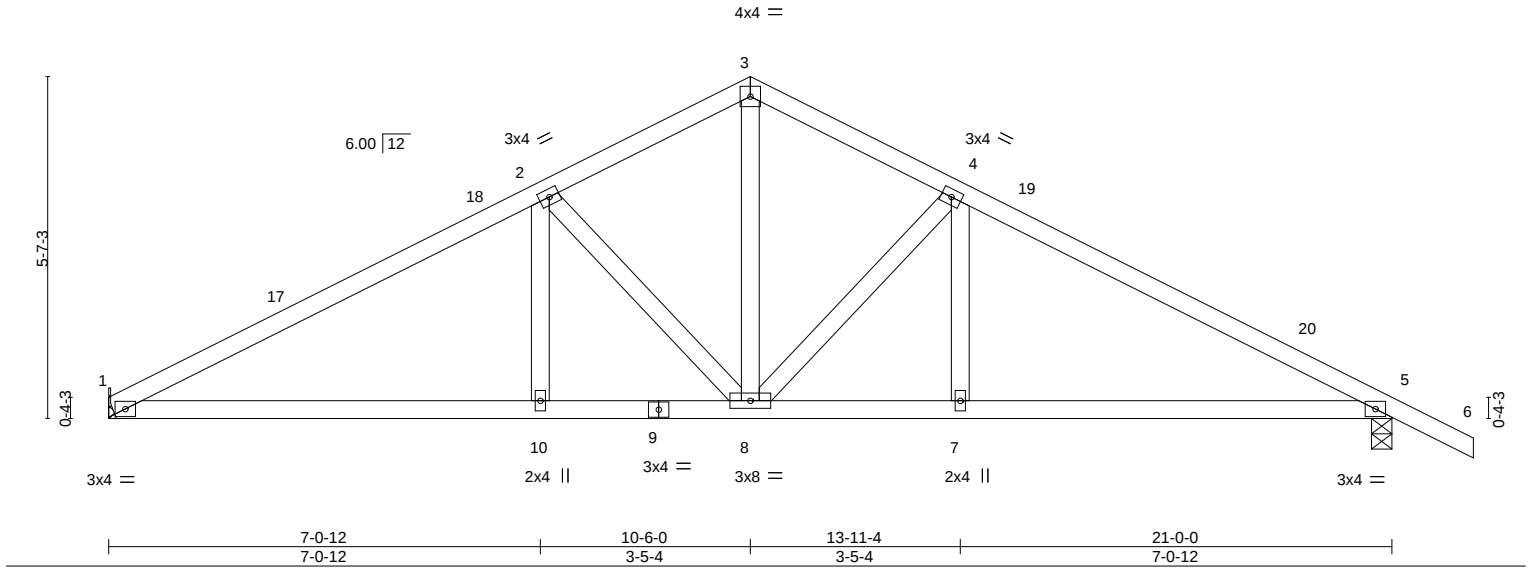
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:23 2025 Page 1

ID:P?10H_JjvCs9m_KS0yBipQyRZGv-UDXe?4gtE79NbdKWDwo9UpPmKAX?KxZ74K9u4jzX1FY

7-0-12	10-6-0	13-11-4	21-0-0	22-4-0
7-0-12	3-5-4	3-5-4	7-0-12	1-4-0

Scale = 1:37.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	Vert(LL)	-0.08 10-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.62	Vert(CT)	-0.18 10-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT)	0.04 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL)	0.09 10-13	>999	240	Weight: 100 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 4-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

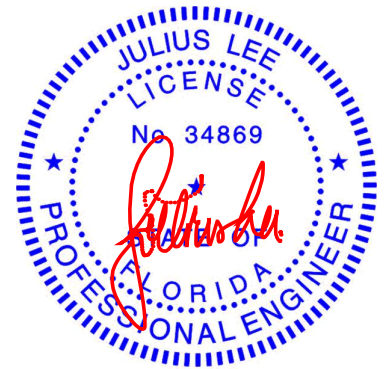
(size) 1=Mechanical, 5=0-4-0
Max Horz 1=-116(LC 10)
Max Uplift 1=-175(LC 12), 5=-242(LC 12)
Max Grav 1=837(LC 1), 5=923(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1409/388, 2-3=-994/352, 3-4=-993/339, 4-5=-1400/369
BOT CHORD 1-10=-227/1192, 8-10=-227/1192, 7-8=-230/1182, 5-7=-230/1182
WEBS 3-8=-248/743, 4-8=-520/207, 4-7=0/271, 2-8=-535/212, 2-10=0/274

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-6-0, Zone2 10-6-0 to 14-8-15, Zone1 14-8-15 to 22-4-0 zone; cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=175, 5=242.



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

March 27,2025

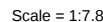
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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ID:P?10H_JjvCs9m_KS0yBIPqYRZGv-UDXe?4gtE79NbdKWDwo9UpPsrAgAk_274K9u4jzX1FY



REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
 Max Horz 2=55(LC 12)
 Max Uplift 3=-1(LC 1), 2=-118(LC 12), 4=-14(LC 1)
 Max Grav 3=11(LC 12), 2=174(LC 1), 4=28(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=118.



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

March 27, 2025



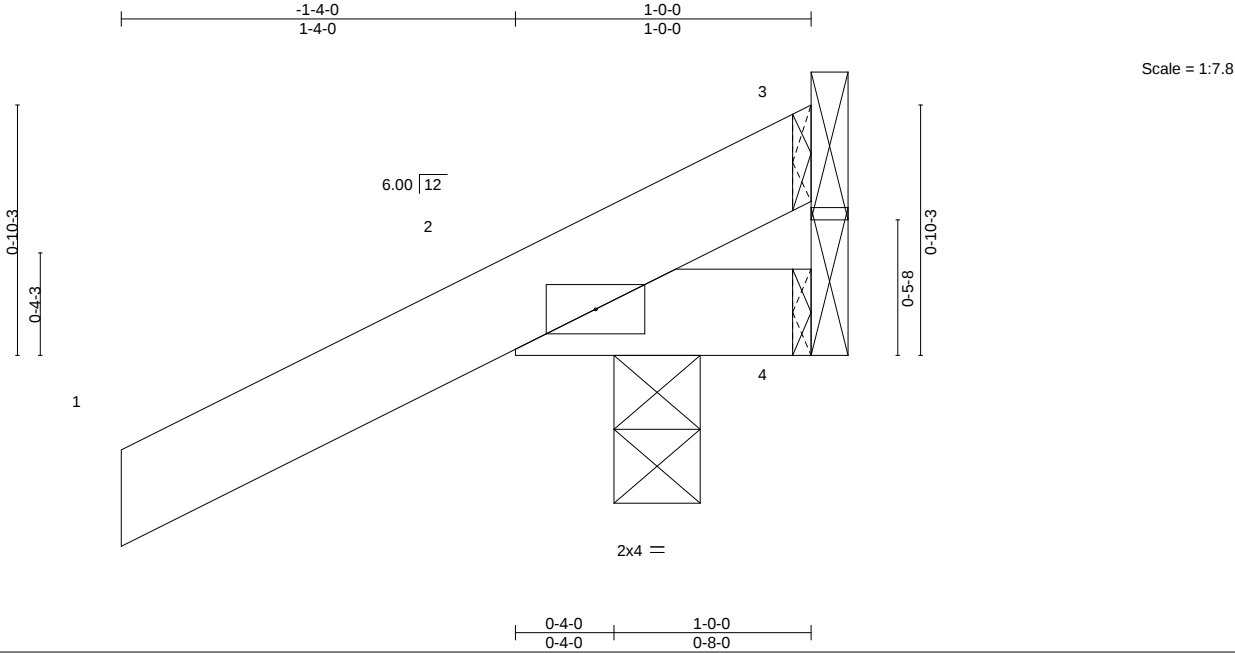
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803539
6250757	C1D	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,
8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:24 2025 Page 1

ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-yP51CQgV?QHEDnvindJO10x1bZ_K3RHGI_uRcAzX1FX



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 3=Mechanical, 4=Mechanical, 2=0-3-8
	Max Horz 2=55(LC 12)
	Max Uplift 3=-42(LC 1), 4=-61(LC 1), 2=-178(LC 12)
	Max Grav 3=39(LC 12), 4=60(LC 12), 2=262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left exposed ; porch left 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=178.



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

March 27,2025

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

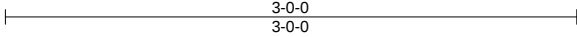
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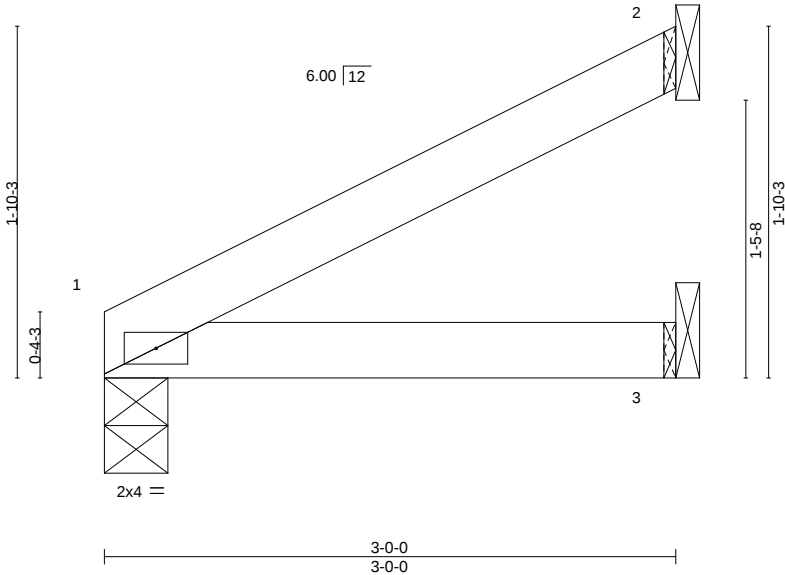
Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803541
6250757	C3A	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,
8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:24 2025 Page 1

ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-yP51CQgV?QHEDnvindJO10x2dZ?F3RHGI_uRcAzX1FX



Scale: 1"=1'



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC	0.10	Vert(LL)	-0.00	3-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	3-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP		Wind(LL)	0.01	3-6	>999	240	Weight: 10 lb	FT = 20%

LUMBER-		BRACING-
TOP CHORD 2x4 SP No.2		TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2		BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-4-0, 2=Mechanical, 3=Mechanical
Max Horz 1=55(LC 12)
Max Uplift 1=-10(LC 12), 2=-42(LC 12)
Max Grav 1=118(LC 1), 2=76(LC 1), 3=54(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 2.



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

March 27,2025

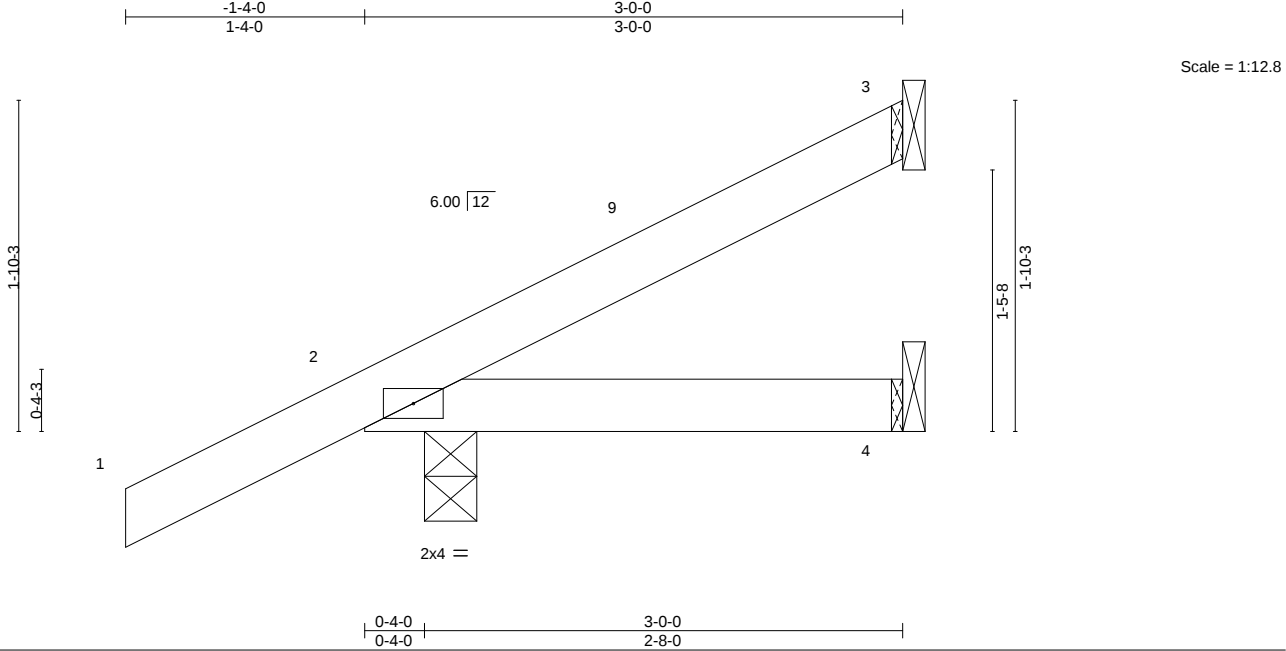
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803542
6250757	C3D	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:25 2025 Page 1
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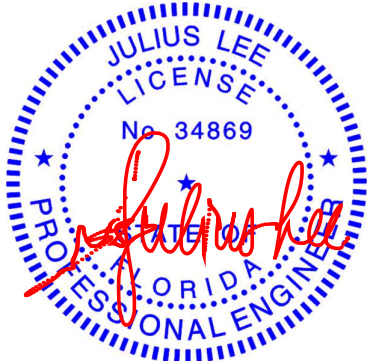
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.17	Vert(LL)	-0.00 5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.13	Vert(CT)	-0.00 5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP	Wind(LL)	0.00 5	>999	240	Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz	2=91(LC 12)
Max Uplift	3=-30(LC 12), 2=-150(LC 12), 4=-13(LC 9)
Max Grav	3=50(LC 1), 2=258(LC 1), 4=39(LC 3)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
---------	--

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; cantilever left exposed; porch left 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=150.



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

March 27,2025

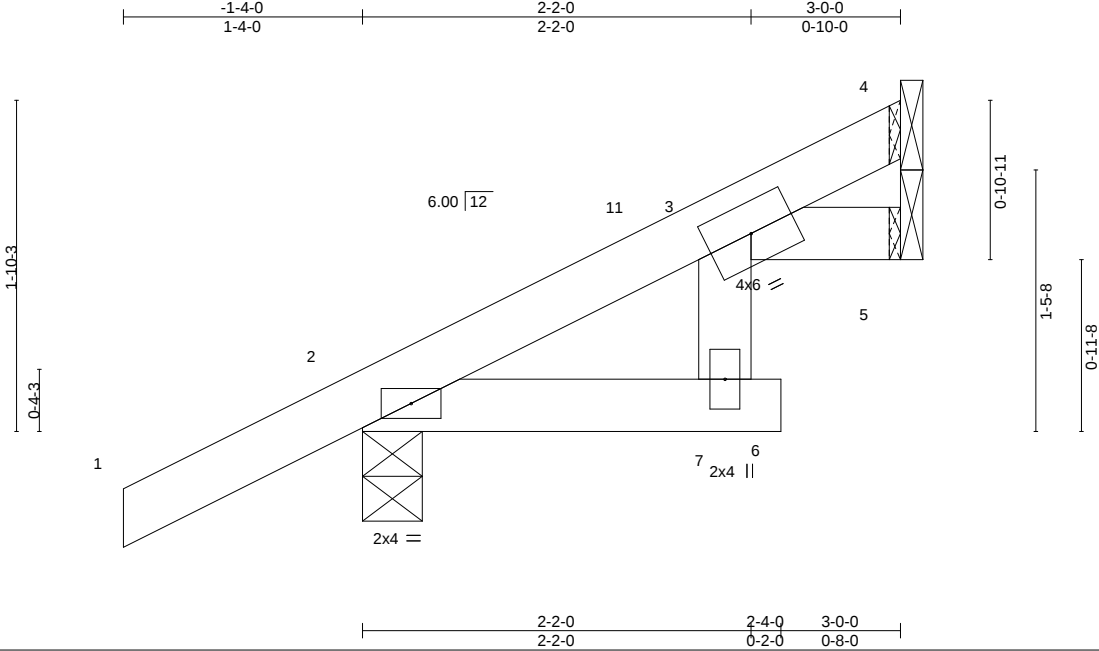
Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803543
6250757	C3T	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:25 2025 Page 1

ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-QbePPmh7mkP5qwUuKKqdZEUCLzLsouXQXee?8czX1FW



Scale = 1:12.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.17	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.08	Vert(CT)	-0.01	7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR	Wind(LL)	0.01	7	>999	240	Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=91(LC 12)
Max Uplift 4=-18(LC 12), 2=-89(LC 12), 5=-1(LC 12)
Max Grav 4=57(LC 1), 2=217(LC 1), 5=51(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2, 5.



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

March 27,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803544
6250757	C5	Corner Jack	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:26 2025 Page 1

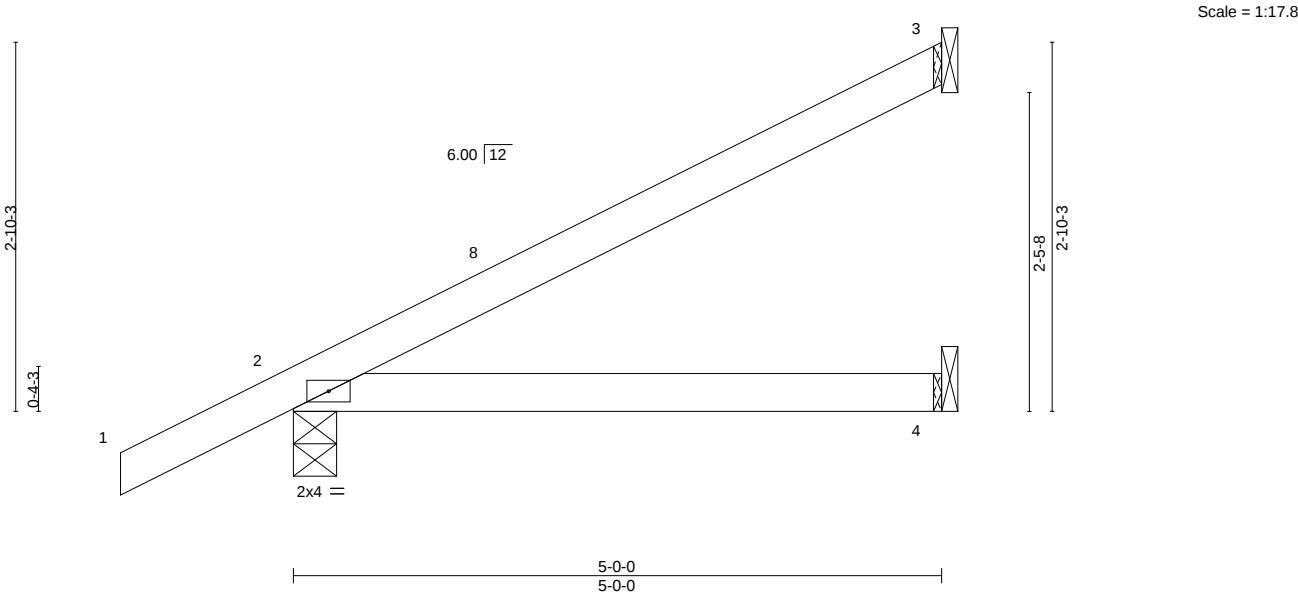
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-1-4-0

1-4-0

5-0-0

5-0-0



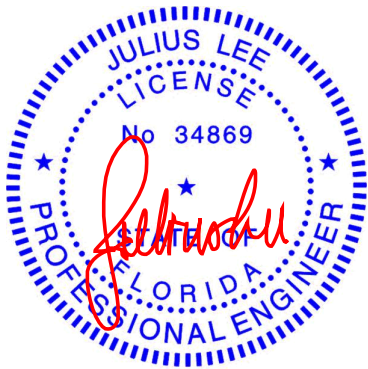
LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.32		Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.28		Vert(CT)	-0.06	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP		Wind(LL)	0.04	4-7	>999	240	Weight: 18 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 3=Mechanical, 2=0-4-0, 4=Mechanical
	Max Horz 2=129(LC 12)
	Max Uplift 3=-69(LC 12), 2=-91(LC 12)
	Max Grav 3=125(LC 1), 2=288(LC 1), 4=90(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

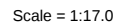
- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2.



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

March 27,2025

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:26 2025 Page 1
ID:P?10H_jivCs9m_KS0yBIPqYZGv-uoCnd6ilX2YyS434u2s6R1KRnCLXLZmINyH2xZ1FV



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0 to 3-0-0, Zone1 3-0-0 to 4-11-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 2.



March 27, 2025



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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803546
6250757	C5T	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:26 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-uoCnd6ilX2YyS434u2Ls6R1J9NdZXLnZmINyh2zX1FV

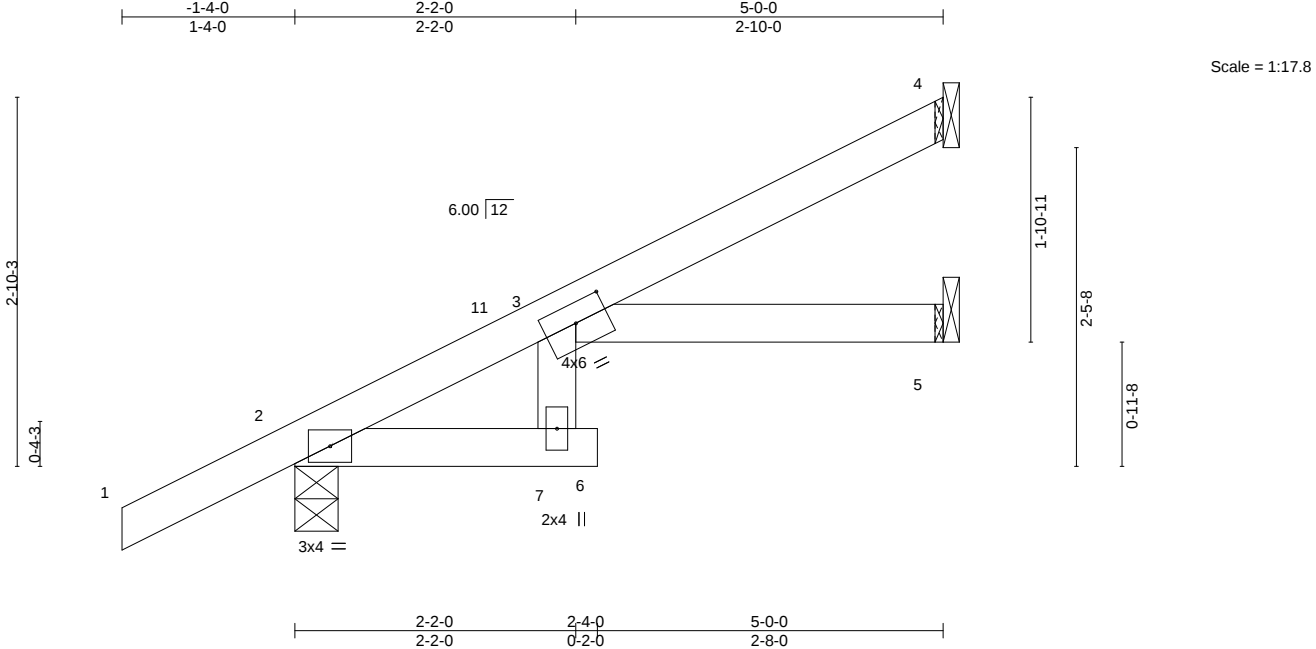


Plate Offsets (X,Y)--		[3:0-3:0,0-1-13]	
LOADING (psf)		SPACING-	2-0-0
TCLL	20.0	Plate Grip DOL	1.25
TCDL	10.0	Lumber DOL	1.25
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	FBC2023/TPI2014
		CSL	
		TC	0.42
		BC	0.31
		WB	0.00
		Matrix-MR	
		DEFL.	
		in (loc)	I/defl
		Vert(LL)	-0.04 6 >999 360
		Vert(CT)	-0.09 6 >679 240
		Horz(CT)	0.04 5 n/a n/a
		Wind(LL)	0.07 6 >804 240
		PLATES	GRIP
		MT20	244/190
		Weight: 20 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=129(LC 12)
Max Uplift 4=-53(LC 12), 2=-89(LC 12)
Max Grav 4=114(LC 1), 2=292(LC 1), 5=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.



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

March 27,2025

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

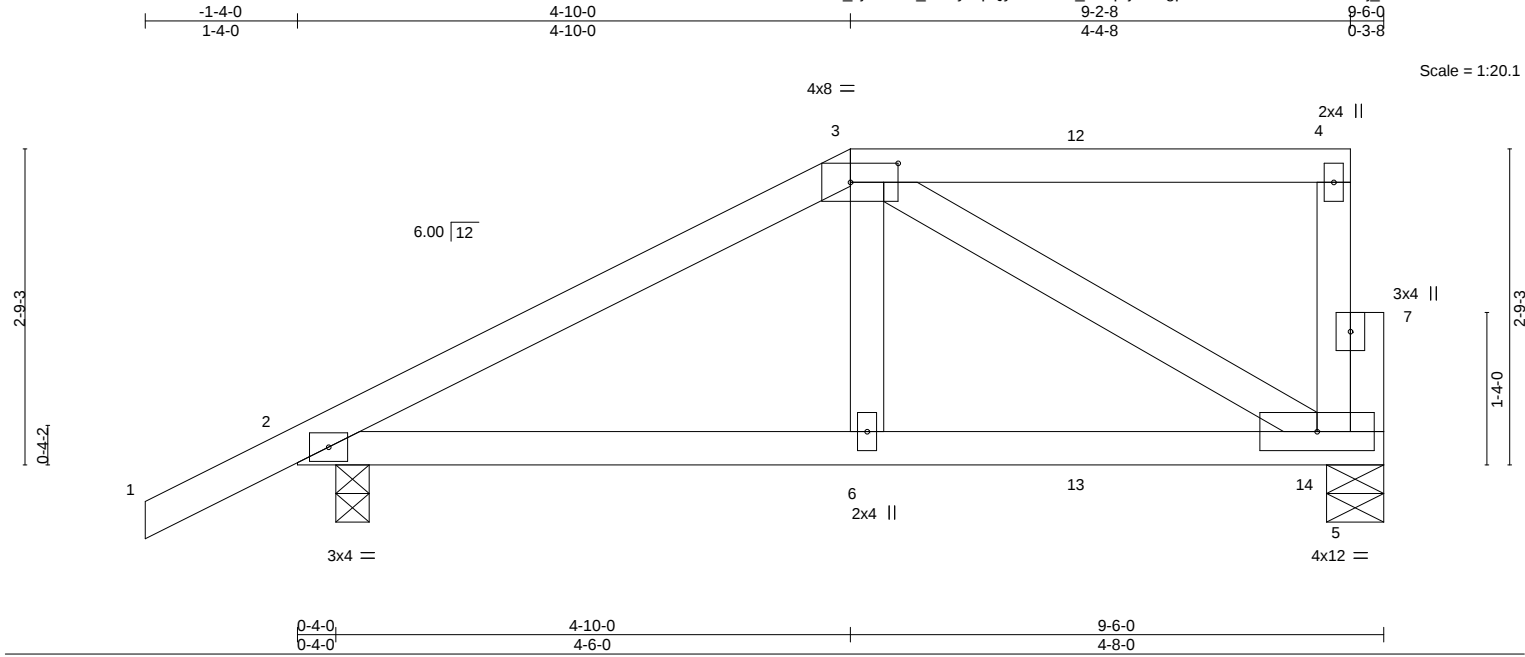
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803547
6250757	D01	Half Hip Girder	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:27 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-M_m9qSjNHLgp4EeHSIs5efZVonzuGm6j_x75DVzX1FU



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	0.03	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.03				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.01				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 46 lb		FT = 20%	

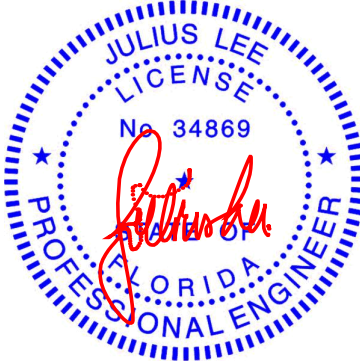
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS.	
(size)	2=0-3-8, 5=0-6-0
Max Horz	2=127(LC 8)
Max Uplift	2=-340(LC 8), 5=-358(LC 8)
Max Grav	2=568(LC 1), 5=548(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-597/331
BOT CHORD	2-6=-324/469, 5-6=-331/478
WEBS	3-6=-126/289, 3-5=-489/344

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch left 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=340, 5=358.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 170 lb up at 4-10-0, and 52 lb down and 87 lb up at 6-10-12, and 73 lb down and 81 lb up at 9-0-12 on top chord, and 140 lb down and 154 lb up at 4-10-0, and 37 lb down and 48 lb up at 6-10-12, and 51 lb down and 41 lb up at 8-10-12 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	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert:	1-3=-60, 3-4=-60, 5-8=-20
Concentrated Loads (lb)	
Vert:	4=-73(F) 6=-76(F) 3=-64(F) 12=-48(F) 13=-20(F) 14=-27(F)



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

March 27,2025

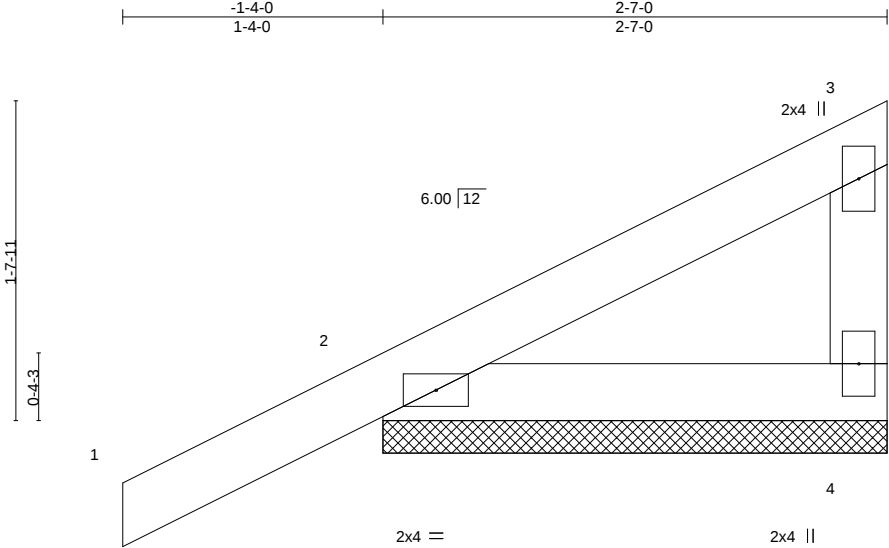
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803548
6250757	E3	Jack-Open Supported Gable	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:27 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-M_m9qSjNHLgp4EeHSIs5efZX?n0cGo1j_x75DVzX1FU



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.22	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=2-7-0, 2=2-7-0
Max Horz 2=81(LC 12)
Max Uplift 4=-11(LC 12), 2=-92(LC 12)
Max Grav 4=76(LC 17), 2=199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever 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 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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

March 27,2025

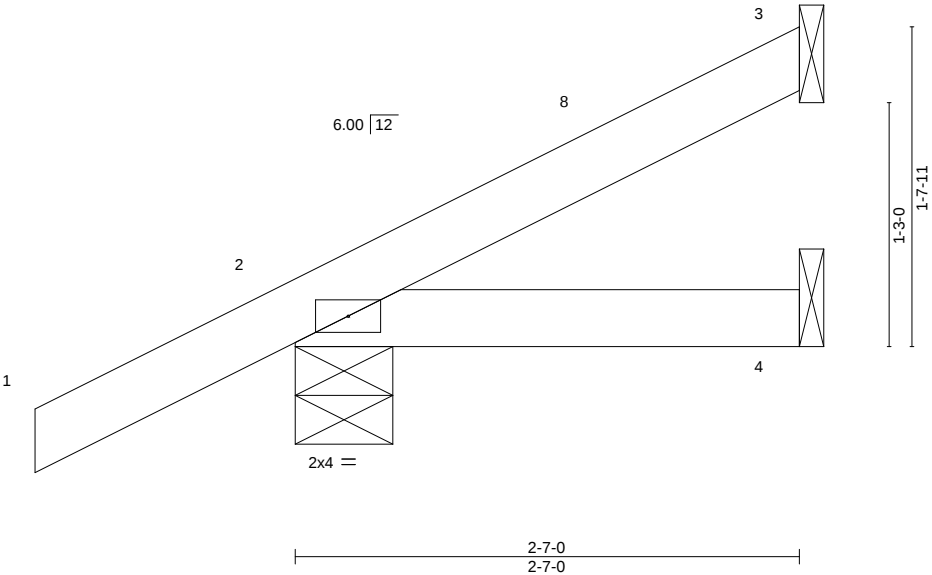
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803549
6250757	E3A	Jack-Open	10	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:28 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-qAKX2oj?2foghOCT0TNKBs6jbBN3?EHsDbsfXzX1FT



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP	Wind(LL)	-0.00	7	>999		
								Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-6-0, 4=Mechanical
Max Horz 2=84(LC 12)
Max Uplift 3=-26(LC 12), 2=-92(LC 12)
Max Grav 3=55(LC 1), 2=202(LC 1), 4=43(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-6-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2.



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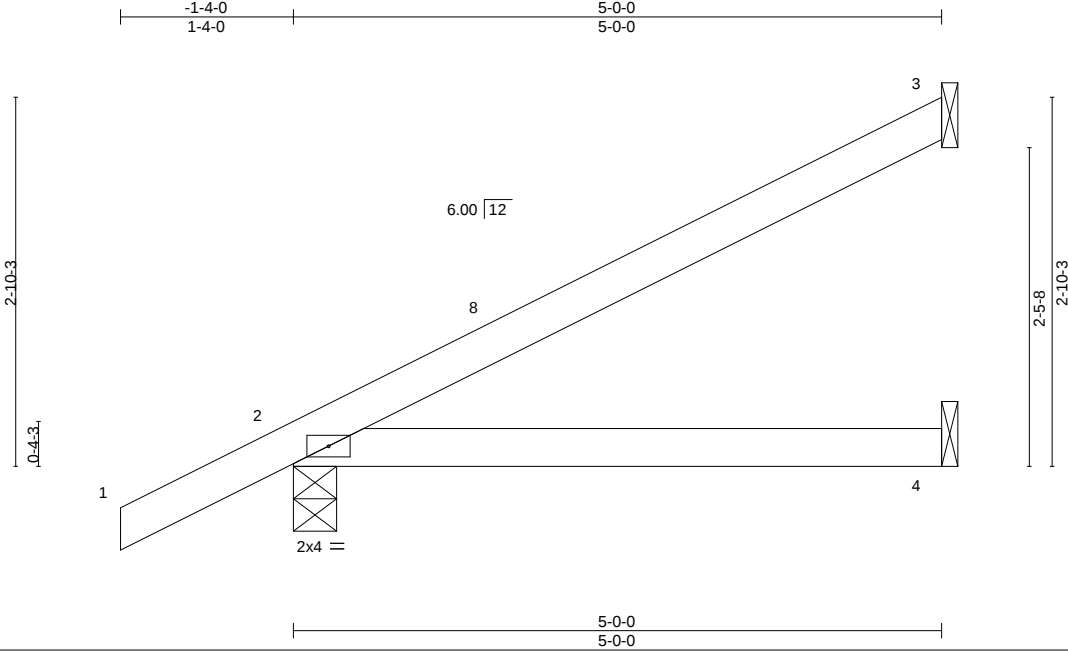
Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803550
6250757	E5	Jack-Open	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:28 2025 Page 1

ID:P?10H_JyvCs9m_KS0yBlpQyRZGv-qAKX2oj?2foghOCT0TNKBs6gCBJS?EHsDbsfXzX1FT



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	-0.06	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP	Wind(LL)	0.04	4-7	>999	240	Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=129(LC 12)
Max Uplift 3=-69(LC 12), 2=-91(LC 12)
Max Grav 3=125(LC 1), 2=288(LC 1), 4=90(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2.



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

March 27,2025

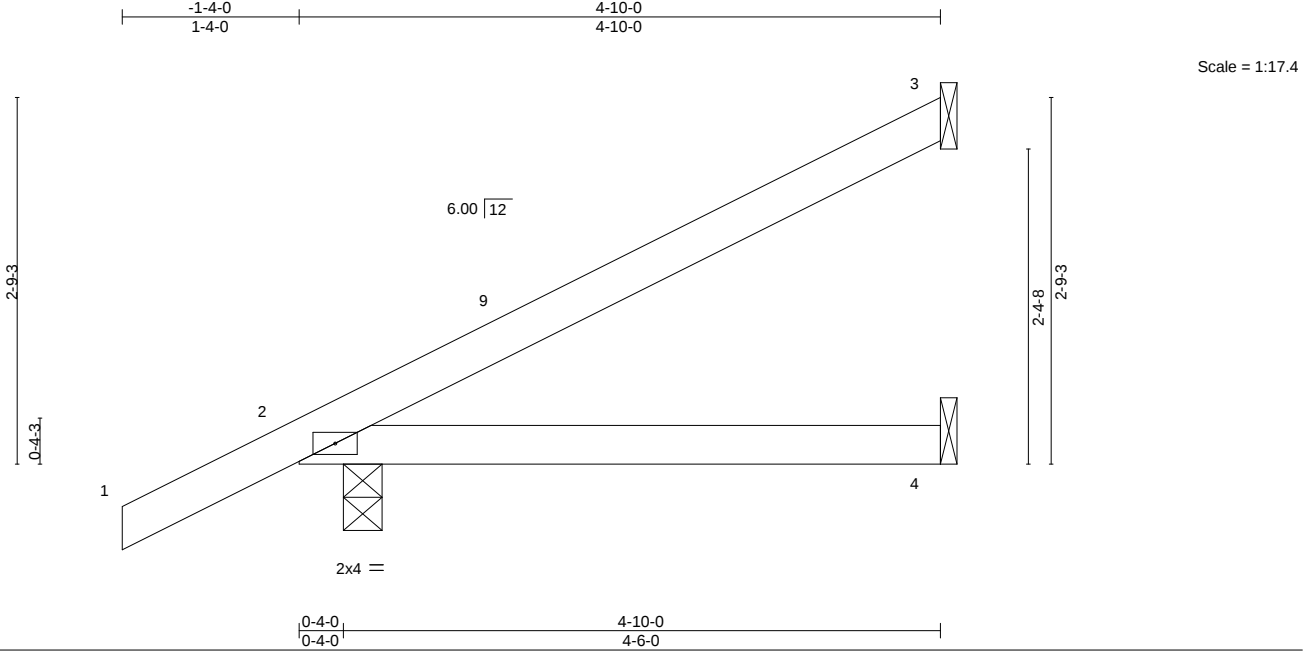
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803551
6250757	E5D	Jack-Open	3	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:28 2025 Page 1
ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-qAKX2oj?2foghOCT0TNKBs6hLBL2?EHsDbsfxzX1FT



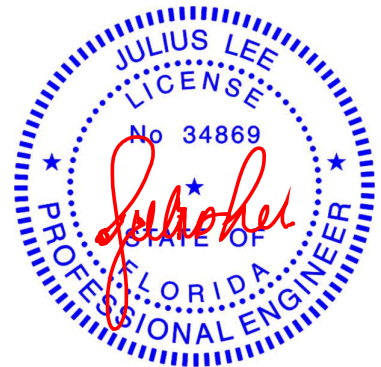
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	-0.01 4-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.03 4-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP	Wind(LL)	0.03 4-8	>999	240	Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
	Max Horz 2=126(LC 12)
	Max Uplift 3=-69(LC 12), 2=-164(LC 12), 4=-28(LC 9)
	Max Grav 3=108(LC 1), 2=313(LC 1), 4=77(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-9-4 zone; cantilever left exposed ; porch left 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=164.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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March 27,2025

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803552
6250757	E5G	Jack-Closed Girder	1	1	5-0-0	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:29 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-INuwF8kepzwXJYnfZAuZk4fuOacDkee?SFcCHNzX1FS

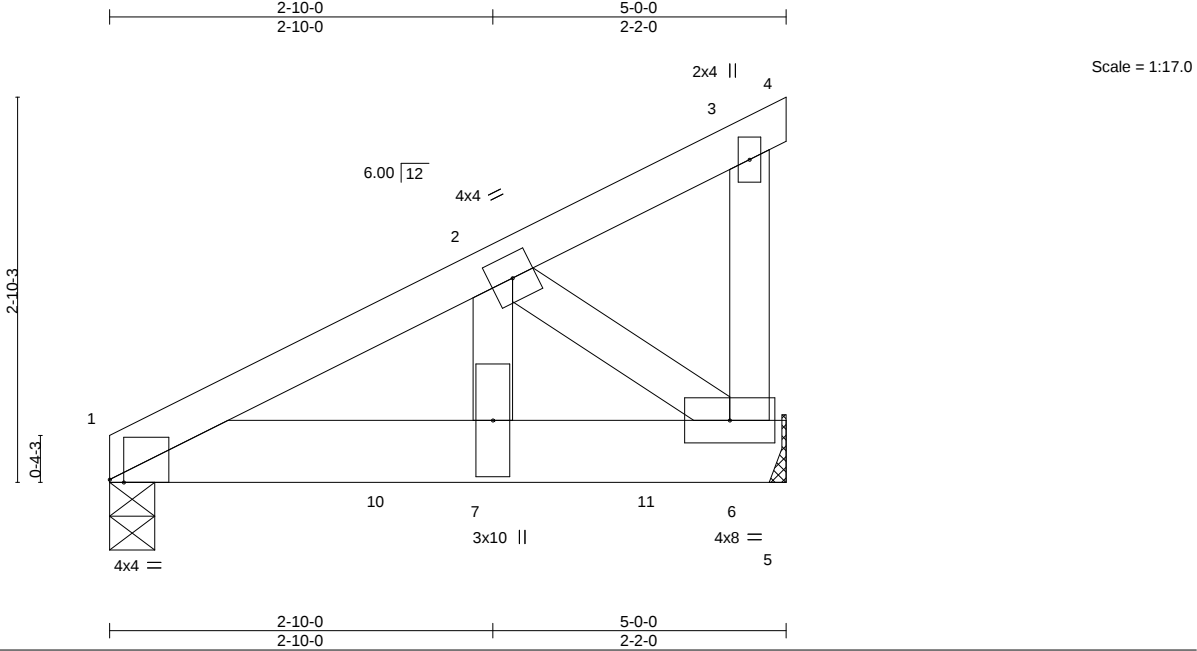


Plate Offsets (X,Y)--		[1:0-1-4,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.16		Vert(LL)	-0.01 7-9	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.50		Vert(CT)	-0.02 7-9	>999	240		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.25		Horz(CT)	0.01 6	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MP		Wind(LL)	0.01 7-9	>999	240	Weight: 28 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=0-4-0, 6=Mechanical
Max Horz 1=92(LC 27)
Max Uplift 1=-148(LC 8), 6=-309(LC 8)
Max Grav 1=765(LC 1), 6=1260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1166/223
BOT CHORD 1-7=-259/1041, 6-7=-259/1041
WEBS 2-7=-223/1105, 2-6=-1284/320

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=148, 6=309.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 817 lb down and 195 lb up at 2-0-12, and 818 lb down and 195 lb up at 4-0-12 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

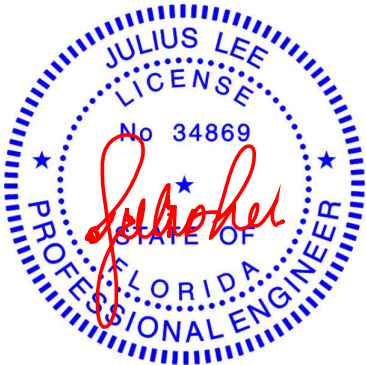
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 1-5=-20

Concentrated Loads (lb)

Vert: 10=-817(F) 11=-818(F)



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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803553
6250757	E7	Jack-Open	5	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:29 2025 Page 1

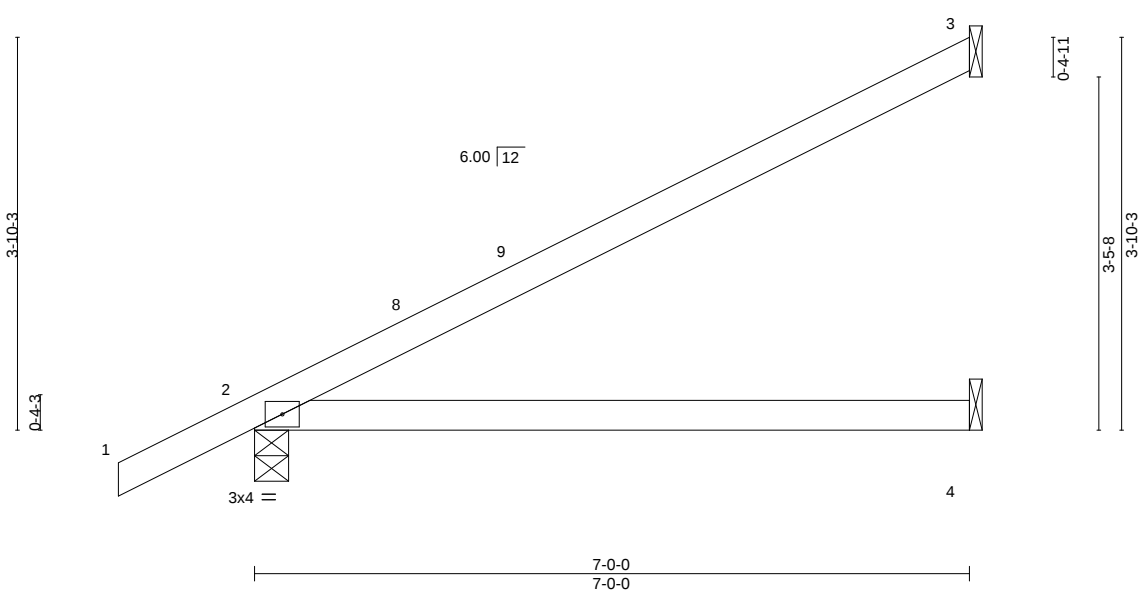
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-1-4-0

1-4-0

7-0-0

7-0-0



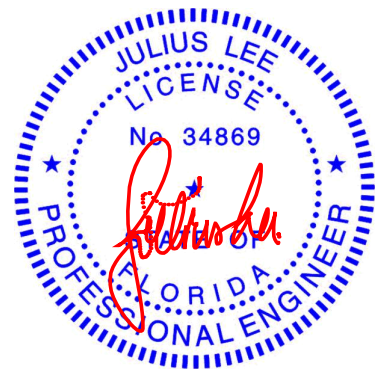
LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.69		Vert(LL)	-0.09	4-7	>886	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.54		Vert(CT)	-0.23	4-7	>361	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS		Wind(LL)	0.14	4-7	>614	240	Weight: 24 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=166(LC 12)
Max Uplift 3=-102(LC 12), 2=-95(LC 12)
Max Grav 3=181(LC 1), 2=365(LC 1), 4=129(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2 except (jt=lb) 3=102.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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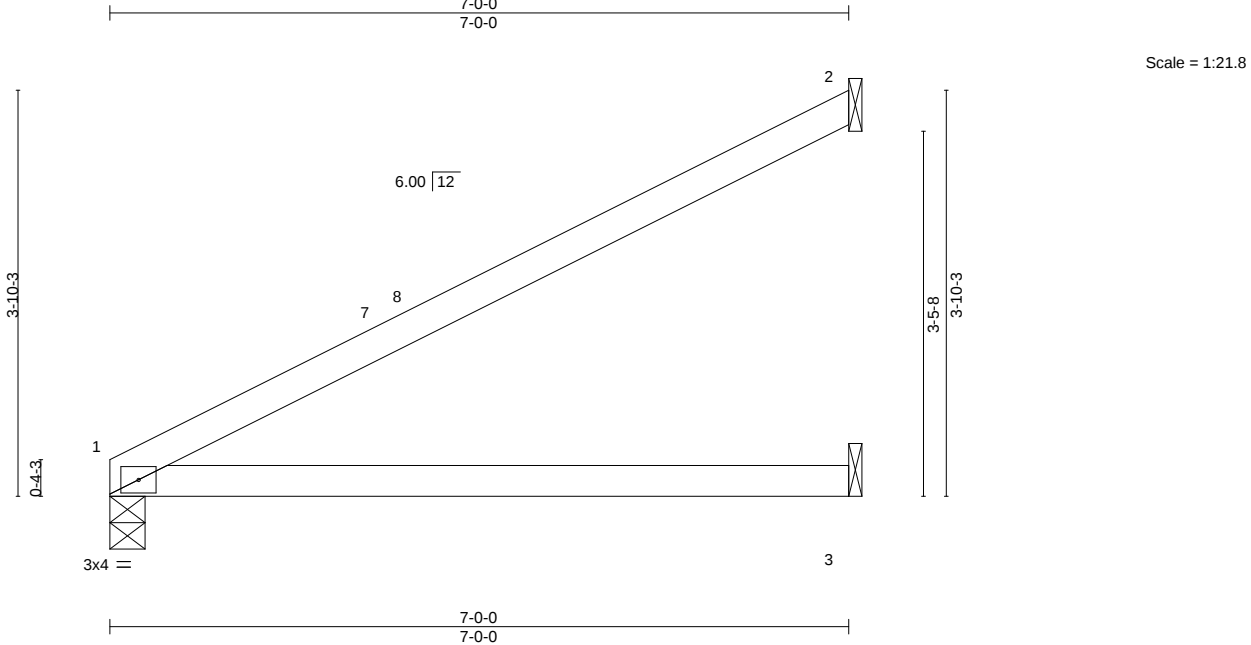
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803554
6250757	E7A	Jack-Open	5	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:30 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-mZSITUIGaG2OxiMs7uQoGHBwT_xdT8n9hvLmqqzX1FR



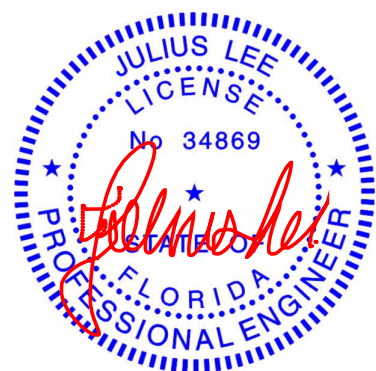
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.11	3-6	>778	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.25	3-6	>333	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Wind(LL)	0.15	3-6	>562	240	Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 1=0-4-0, 2=Mechanical, 3=Mechanical
Max Horz 1=129(LC 12)	
Max Uplift 1=-26(LC 12), 2=-106(LC 12)	
Max Grav 1=278(LC 1), 2=185(LC 1), 3=130(LC 3)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1 except (jt=lb) 2=106.



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

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803555
6250757	E7T	Jack-Open	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:30 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-mZSITUIGaG2OxiMs7uQoGHBwH_v9T8n9hvLmqqzX1FR

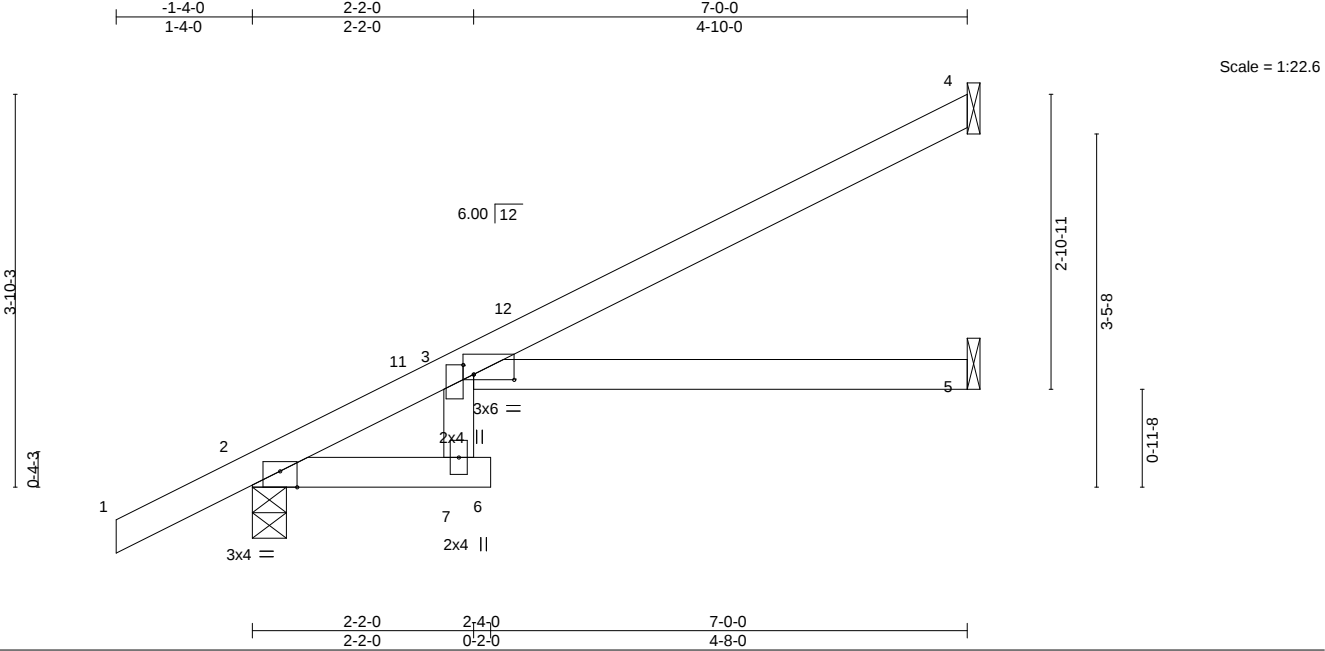


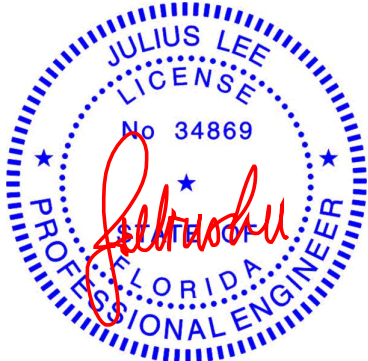
Plate Offsets (X,Y)--		[2:0-2-0,Edge], [3:0-4-12,0-0-10], [3:0-1-2,0-1-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	in	(loc)	I/defl	L/d	MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(LL)	-0.14	3-5	>615	360	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Vert(CT)	-0.29	3-5	>289	240	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR		Horz(CT)	0.13	5	n/a	n/a	
						Wind(LL)	0.19	3-5	>428	240	
										Weight: 26 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=166(LC 12)
Max Uplift 4=87(LC 12), 2=93(LC 12)
Max Grav 4=169(LC 1), 2=369(LC 1), 5=126(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone; cantilever 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
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ID:P?10H JjvCs9m KS0yBtpOyRZGv-Fl0ggpmuLaAEZrx2hbx1pVvk98QJ2CW0lvZ5JMgzX1FQ

Technical drawing of a roof truss (Dachstuhl) showing the structural layout. The drawing includes dimensions: 1.80m for the height, 30m for the length, and 0.18m for the width. The truss is labeled with numbers 1 through 39 and includes various timber specifications such as 2x4, 4x6, 3x6 FP, 6x6, 6x8, 5x6, and 4x6 ||.

LUMBER- TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.2(flat)		BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-24,20-21.
REACTIONS.	(size) 28=0-3-0, 17=0-5-8, 21=0-6-0 Max Grav 28=750(LC 3). 17=683(LC 4). 21=2067(LC 1)	

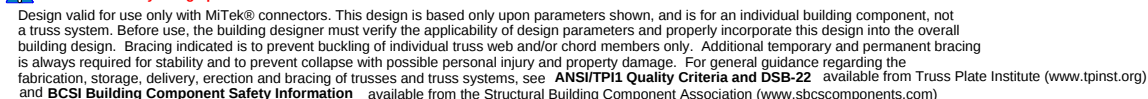
NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Bearing at joint(s) 28, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down at 2-0-0, 94 lb down at 4-0-0, 94 lb down at 6-0-0, 94 lb down at 8-0-0, 94 lb down at 10-0-0, 94 lb down at 12-0-0, 94 lb down at 14-0-0, 72 lb down at 16-0-0, 94 lb down at 17-11-0, 94 lb down at 19-11-0, 94 lb down at 21-11-0, 94 lb down at 23-11-0, and 94 lb down at 25-11-0, and 94 lb down at 27-11-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Ver: 17-28=-10, 1-16=-100
 Concentrated Loads (lb)
 Ver: 10=-14(B) 4=-14(B) 11=-14(B) 13=-14(B) 8=-14(B) 31=-14(B) 32=-14(B) 33=-14(B) 34=-14(B) 35=-14(B) 36=-14(B)
 37=-14(B) 38=-14(B) 39=-14(B)



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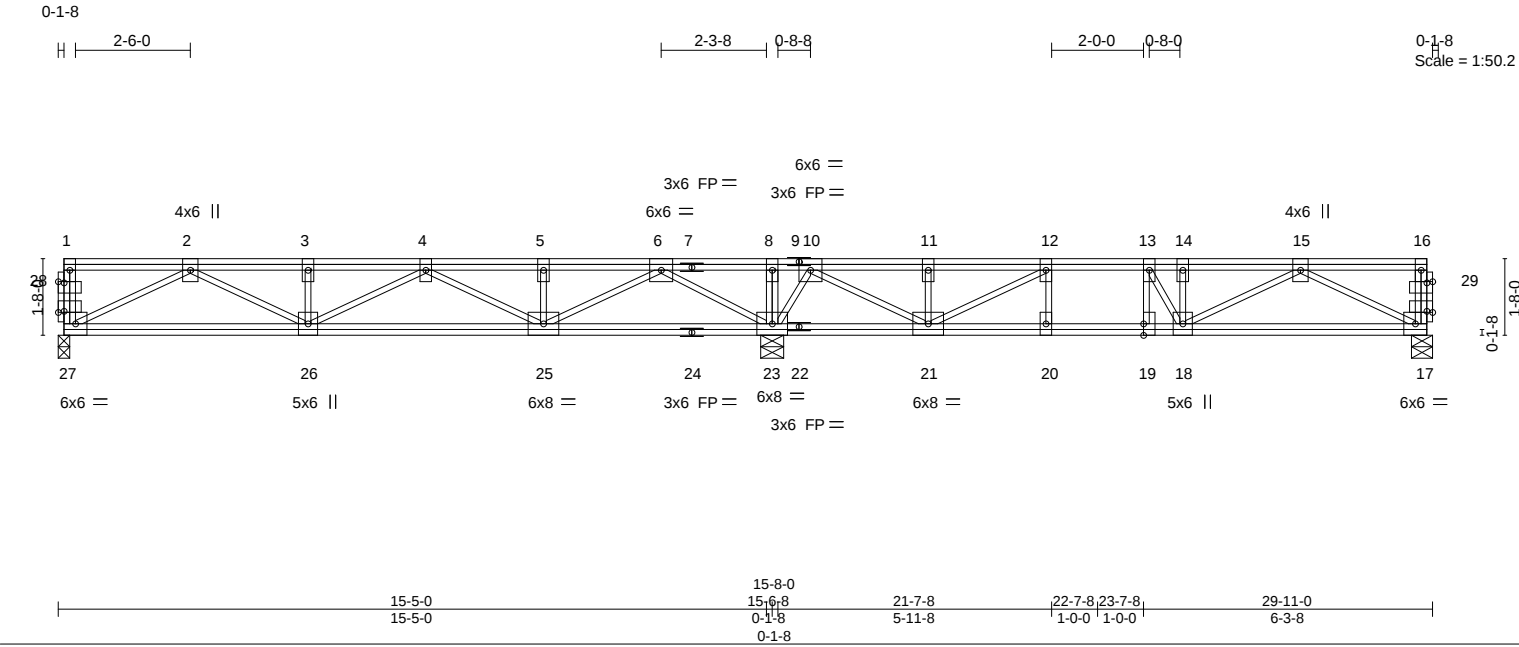


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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803557
6250757	FL2	Floor	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:34 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-fKholromeVYpQJgdMJUkQ7MhObK0PsUkbXJzzbzX1FN



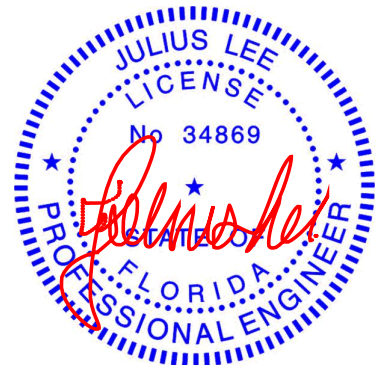
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.34	Vert(LL)	-0.06 25-26	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.40	Vert(CT)	-0.08 25-26	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.02 17	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-S					Weight: 245 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2(flat)	

REACTIONS. (size) 27=0-3-0, 23=0-6-0, 17=0-5-8
Max Grav 27=733(LC 3), 23=1946(LC 1), 17=676(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1706/0, 3-4=-1706/0, 4-5=-1268/118, 5-6=-1268/118, 6-8=0/1587, 8-10=0/1583,
10-11=-695/464, 11-12=-695/464, 12-13=-1422/44, 13-14=-1486/0, 14-15=-1486/0
BOT CHORD 26-27=0/1154, 25-26=0/1723, 23-25=-518/276, 21-23=-1091/0, 20-21=-44/1422,
19-20=-44/1422, 18-19=-44/1422, 17-18=0/1049
WEBS 13-19=-314/0, 2-27=-1295/0, 2-26=0/630, 4-25=-624/0, 5-25=-256/0, 6-25=0/1235,
6-23=-1634/0, 12-21=-1024/0, 11-21=-254/19, 10-21=0/1428, 10-23=-989/0,
15-17=-1177/0, 15-18=-1/499, 14-18=-343/0, 13-18=0/540

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x6 MT20 unless otherwise indicated.
 - 3) Bearing at joint(s) 27, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.



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

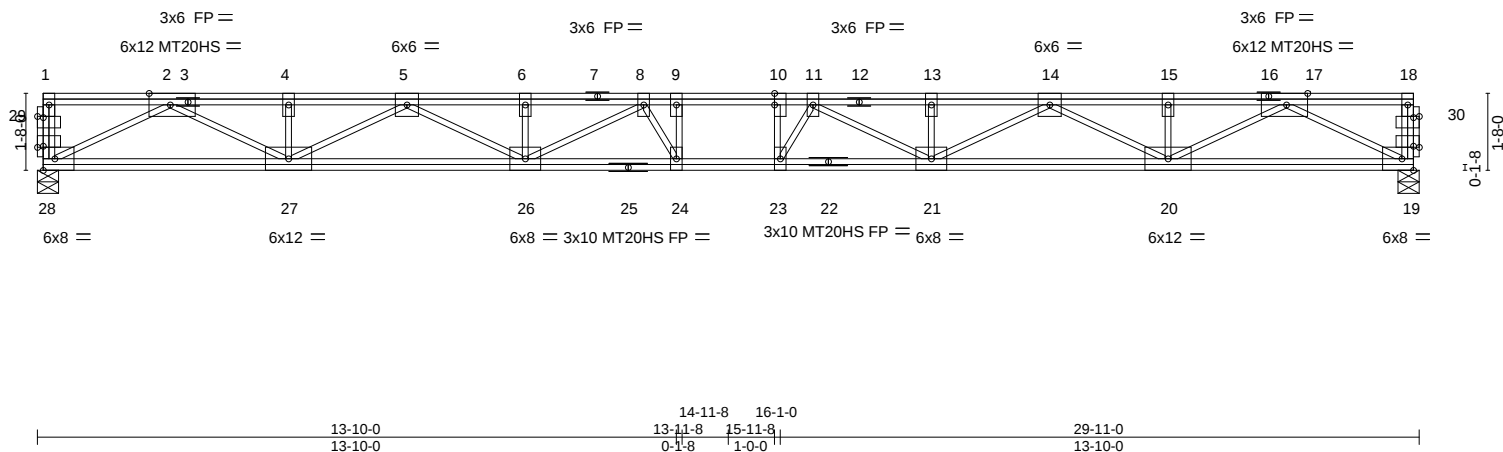
March 27,2025

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:34 2025 Page 1
ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-fkKholromeVYpQJgdMjUkQ7MfSbJLPo3kbXJzzbzX1FN

2-6-0

0-8-8 2-0-0 0-8-8

0-1-8
Scale = 1:49.9



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 5-8-13 oc purlins, except end verticals.
BOT CHORD	2x4 SP M 31 or 2x4 SP SS(flat)		
WEBS	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-4964/0, 4-5=-4964/0, 5-6=-7707/0, 6-8=-7707/0, 8-9=-8392/0, 9-10=-8392/0,
10-11=-8392/0, 11-13=-7707/0, 13-14=-7707/0, 14-15=-4964/0, 15-17=-4964/0

BOT CHORD 27-28=0/2837, 26-27=0/6581, 24-26=0/8316, 23-24=0/8392, 21-23=0/8316, 20-21=0/6581,
19-20=0/2837

WEBS 9-24=-527/276, 10-23=-527/276, 2-28=-3192/0, 2-27=0/2430, 5-27=-1848/0,
5-26=0/1287, 8-26=-938/0, 8-24=-437/779, 17-19=-3192/0, 17-20=0/2430,
14-20=-1848/0, 14-21=0/1287, 11-21=-938/0, 11-23=-437/779

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Bearing at joint(s) 28, 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



March 27, 2025



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

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803559
6250757	FL4	Floor Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:35 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-7WFBWBpOPpgg1TFpwr?zzLvuU?jP8KcuqB3XV1zX1FM

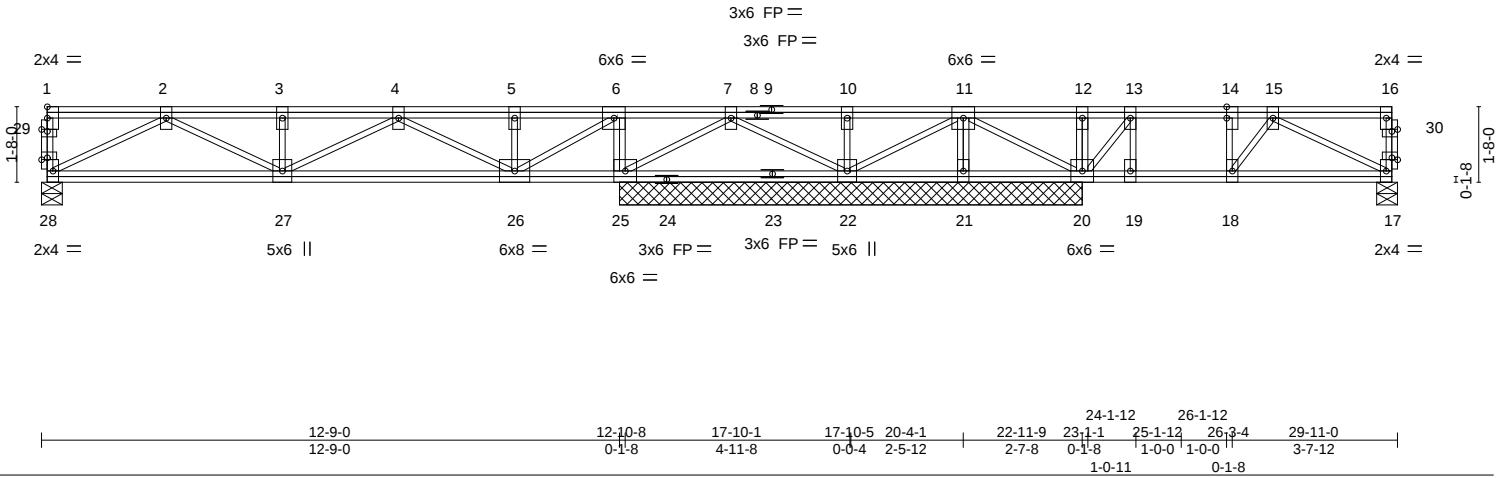
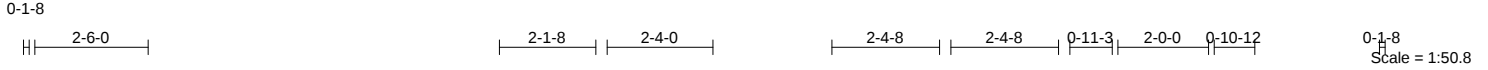


Plate Offsets (X,Y)--		[14:0-3-0,0-0-0], [17:0-1-8,0-0-8], [28:0-1-8,0-0-8], [29:0-1-8,0-0-8], [30:0-1-8,0-0-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	in (loc)	I/defl	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(LL)	-0.03 26-27 >999				
BCLL	0.0	Rep Stress Incr	NO	WB	0.35	Vert(CT)	-0.04 26-27 >999				
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S		Horz(CT)	0.01 17 n/a n/a				
								Weight: 247 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,22-25.
WEBS	2x4 SP No.2(flat)		

REACTIONS. All bearings 10-2-8 except (jt=length) 28=0-5-8, 17=0-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 28=600(LC 5), 17=414(LC 4), 22=453(LC 4), 25=1250(LC 12), 20=402(LC 4), 21=602(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1217/0, 3-4=-1217/0, 4-5=-317/0, 5-6=-317/0, 6-7=0/761, 13-14=-517/0, 14-15=-517/0
BOT CHORD 27-28=0/888, 26-27=0/1005, 25-26=-761/0, 22-25=-394/93, 19-20=0/517, 18-19=0/517, 17-18=0/531
WEBS 6-25=-898/0, 2-28=-1001/0, 2-27=0/375, 4-27=0/251, 4-26=-802/0, 6-26=0/1229, 10-22=-258/0, 7-22=-162/340, 7-25=-601/0, 13-20=-493/0, 15-17=-596/0, 11-21=-579/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x6 MT20 unless otherwise indicated.
 - 3) Bearing at joint(s) 28, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 409 lb down at 20-3-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) 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

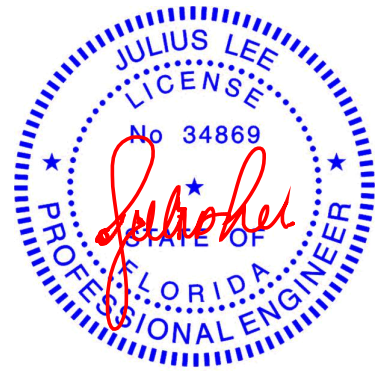
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-28=-10, 1-16=-100

Concentrated Loads (lb)

Vert: 11=-329(F)



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

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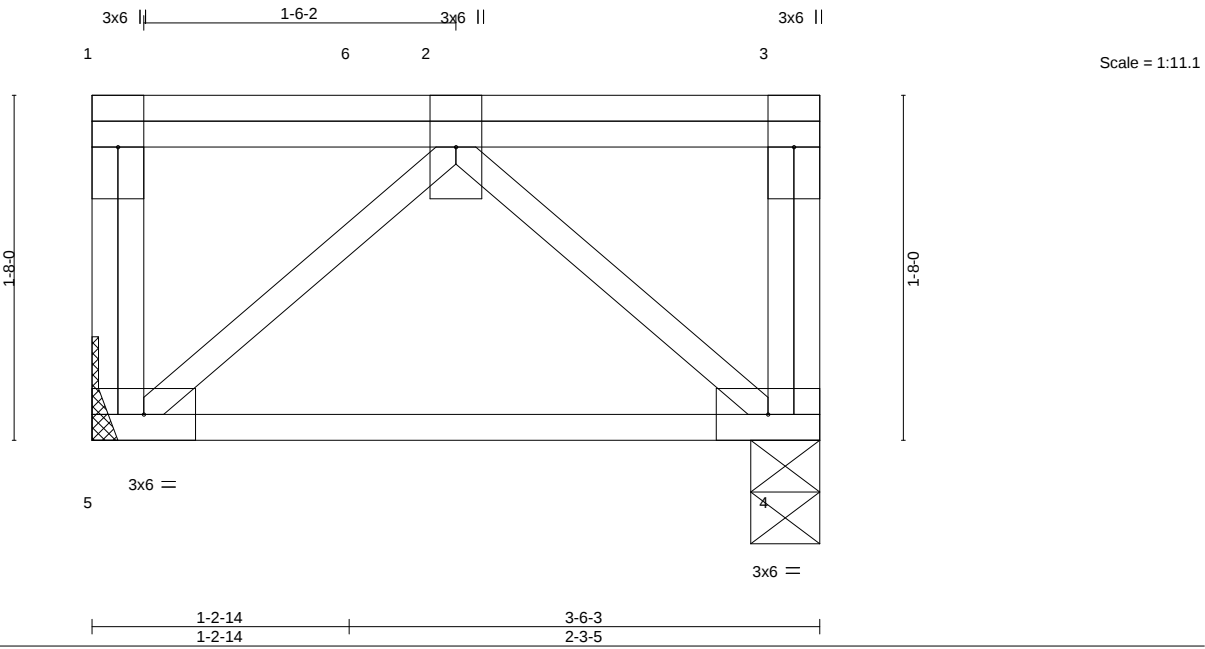
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803560
6250757	FL5	Floor Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:36 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-bjpZjXq1A6oXfdq?U8XCWYR39P4lTrG13ro41TzX1FL



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.19	Vert(LL)	0.00	5	****	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.19	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL 5.0	Code FBC2023/TPI2014		Matrix-P						Weight: 29 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2(flat)	

REACTIONS. (size) 5=Mechanical, 4=0-4-0
Max Grav 5=429(LC 1), 4=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=0/309
WEBS 2-4=-417/0, 2-5=-417/0

- NOTES-
- 1) Refer to girder(s) for truss to truss connections.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 403 lb down at 1-4-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 4) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 6=-403(B)



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

March 27,2025

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803561
6250757	FL6	Floor	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:36 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-bjpZjXq1A6oXfdq?U8XCWYR44P3mtqs13ro41TzX1FL

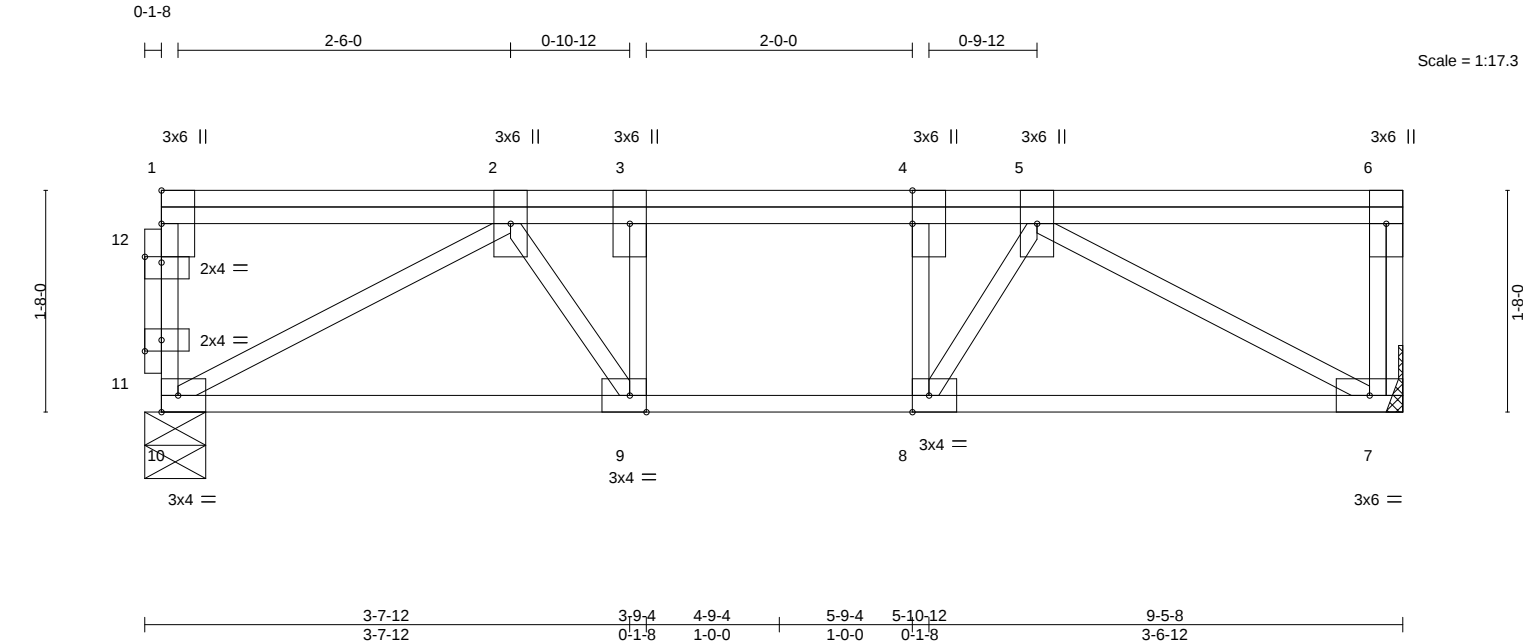


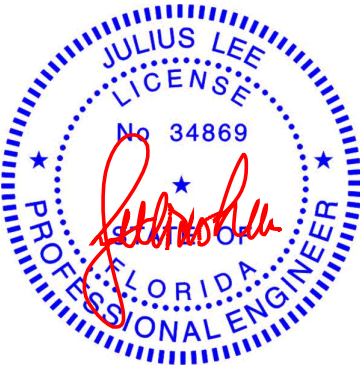
Plate Offsets (X,Y)-- [4:0-3-0,0-0-0], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-0], [12:0-1-8,0-0-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	in (loc)	l/defl	MT20	GRIP
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(LL)	-0.02 9-10 >999		244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Vert(CT)	-0.03 9-10 >999		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S		Horz(CT)	0.01 7 n/a n/a		
								Weight: 66 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2(flat)		

REACTIONS. (size) 7=Mechanical, 10=0-5-8
Max Grav 7=503(LC 1), 10=503(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-753/0, 3-4=-753/0, 4-5=-753/0
BOT CHORD 9-10=0/654, 8-9=0/753, 7-8=0/666
WEBS 4-8=-251/0, 2-10=-755/0, 2-9=0/332, 5-7=-765/0, 5-8=0/335

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



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

March 27,2025

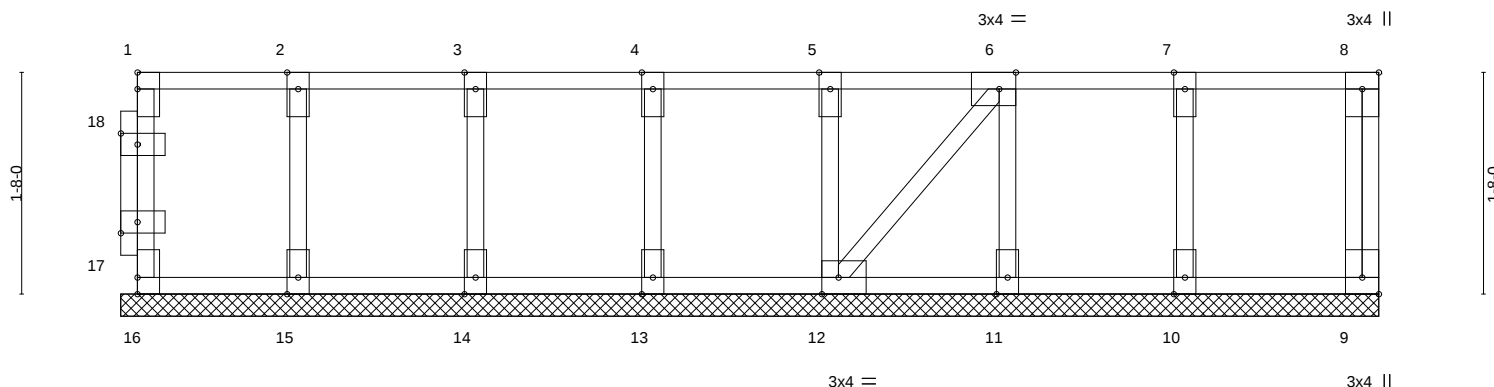
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:36 2025 Page 1
ID:P?10H JivCs9m KS0yBlpQvRZGv-bjpZiXg1A6oXfdq?U8XCWYR5kP6bts13ro41Tz1XFL

Scale = 1:17.3



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 9-5-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	
WEBS	2x4 SP No.2(flat)		
OTHERS	2x4 SP No.2(flat)		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

March 27, 2025

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ID:P?10H Jjvc9sm KS0yBipOyRZGv-3vNxxtgfwQwOHmOC1s2R2m 8wpJZcJdBIVYdawX1FK

A horizontal timeline with three segments. The first segment is labeled '1-9-0', the second '5-9-12', and the third '1-2-8'. Each segment is defined by vertical tick marks at its boundaries.

Technical drawing of a building facade showing a series of columns and beams. The drawing is labeled with numbers 1 through 12 at the top and 13 through 24 at the bottom. Dimensions are given as 1.80 and 2.5. The drawing is divided into sections by vertical lines, with labels "3x4 ||" and "3x4 =" indicating different types of columns or beams. A diagonal line is shown connecting the top of column 9 to the bottom of column 16.

2-0-0	2-1-8	13-0-8
2-0-0	0-1-8	10-11-0

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2(flat)		
OTHERS	2x4 SP No.2(flat)		

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 437 lb uplift at joint 21.
- 6) n/a
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION. Do not erect truss backwards.



March 27, 2025



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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803564
6250757	FL9	Floor	3	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:37 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-3vNxxtqfxQwOHmOC1s2R2m_DupK_cDwBIVYdawzX1FK

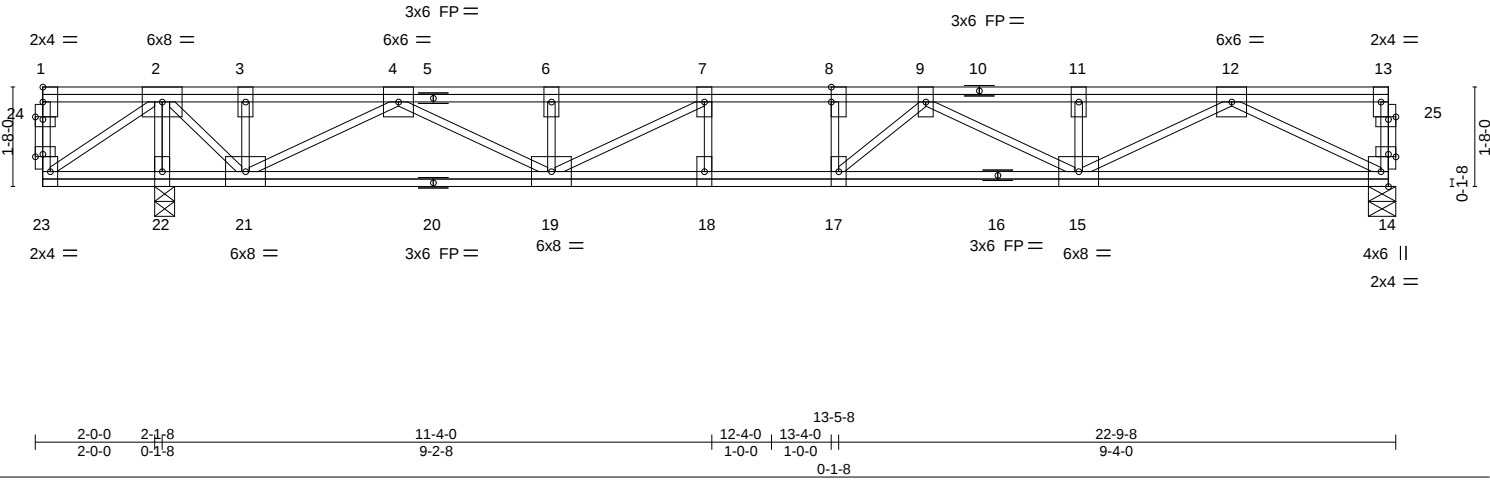
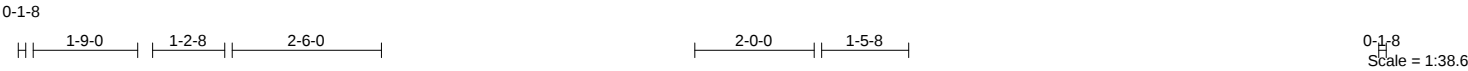


Plate Offsets (X,Y)-- [8:0-3-0,0-0-0], [14:0-1-8,0-0-8], [23:0-1-8,0-0-8], [24:0-1-8,0-0-8], [25:0-1-8,0-0-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.19 17-18 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.25 17-18 >972 240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05 14 n/a n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S				Weight: 186 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-23,21-22.
WEBS 2x4 SP No.2(flat)	
REACTIONS. (size) 14=0-5-8, 22=0-4-0 Max Grav 14=1121(LC 4), 22=1354(LC 1)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1037/0, 3-4=-1037/0, 4-6=-3546/0, 6-7=-3546/0, 7-8=-4030/0, 8-9=-4030/0, 9-11=-3112/0, 11-12=-3112/0
BOT CHORD 19-21=0/2526, 18-19=0/4030, 17-18=0/4030, 15-17=0/3830, 14-15=0/1851
WEBS 8-17=-302/29, 2-22=-1314/0, 7-19=-887/0, 6-19=-313/18, 4-19=0/1177, 4-21=-1721/0, 2-21=0/1493, 12-14=-2091/0, 12-15=0/1440, 11-15=-255/0, 9-15=-820/0, 9-17=-143/619

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



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

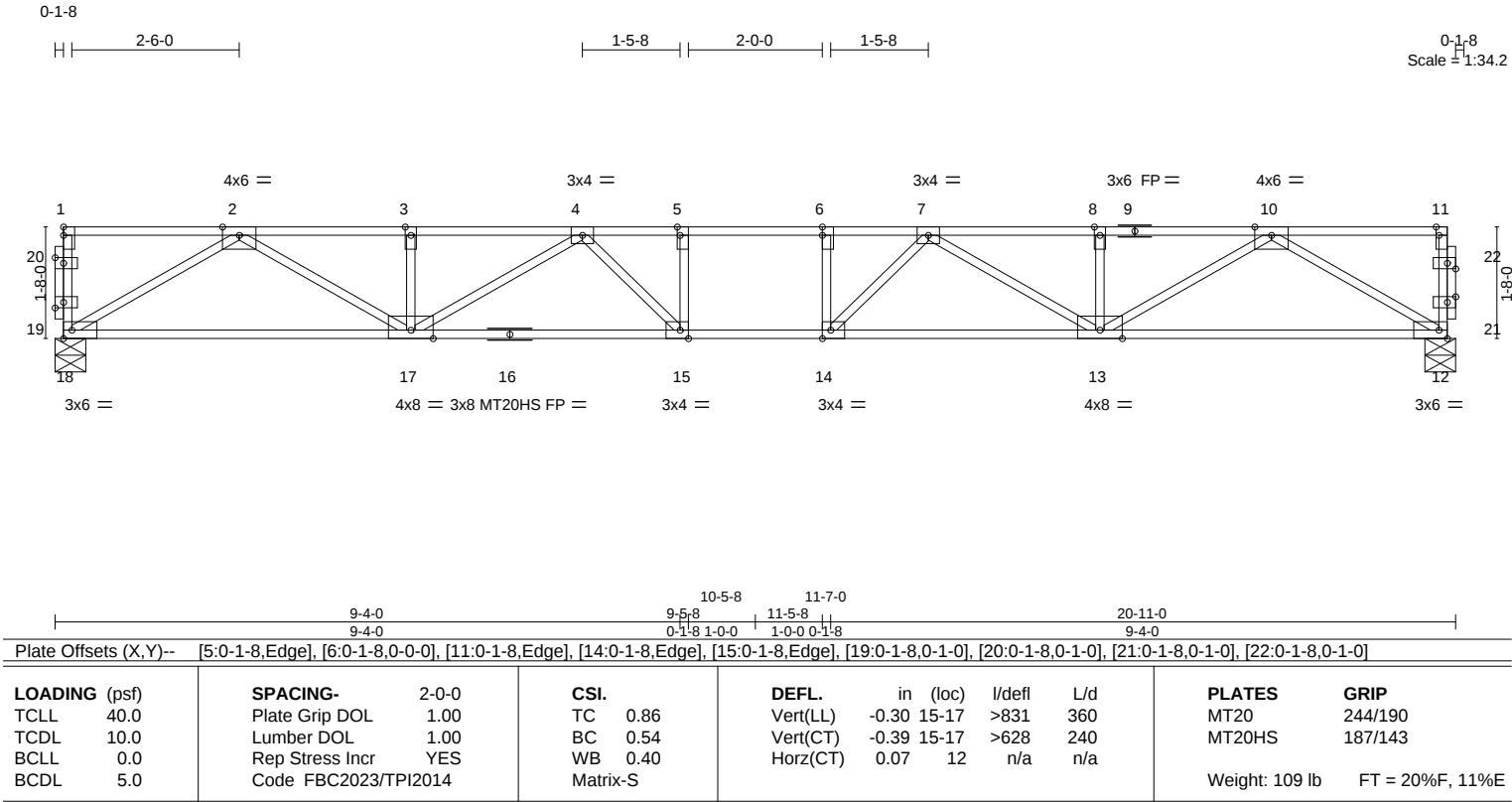
March 27,2025

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803565
6250757	FL10	Floor	5	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:32 2025 Page 1
ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-jyZ2t9nW6ul5A?WEFJSGLiHEpocRxyzS8DqsuizX1FP



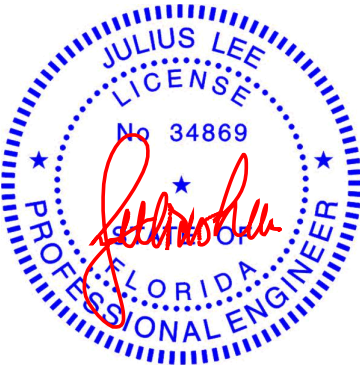
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31 or 2x4 SP SS(flat)
WEBS 2x4 SP No.2(flat)

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

REACTIONS. (size) 12=0-5-8, 18=0-5-8
Max Grav 12=1130(LC 1), 18=1130(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2862/0, 3-4=-2862/0, 4-5=-3736/0, 5-6=-3736/0, 6-7=-3736/0, 7-8=-2862/0, 8-10=-2862/0
BOT CHORD 17-18=0/1671, 15-17=0/3539, 14-15=0/3736, 13-14=0/3539, 12-13=0/1671
WEBS 5-15=-316/7, 6-14=-316/7, 2-18=-1950/0, 2-17=0/1390, 3-17=-254/0, 4-17=-790/0, 4-15=-97/604, 10-12=-1950/0, 10-13=0/1390, 8-13=-254/0, 7-13=-790/0, 7-14=-97/604

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Date:

March 27,2025

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803566
6250757	FL11	Floor	7	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:32 2025 Page 1
ID:P?10H_jjvCs9m_KS0yBlpQyRZGv-jyZ2t9nW6ul5A?WEFJSGLiHMzokFx2GS8DqsuizX1FP

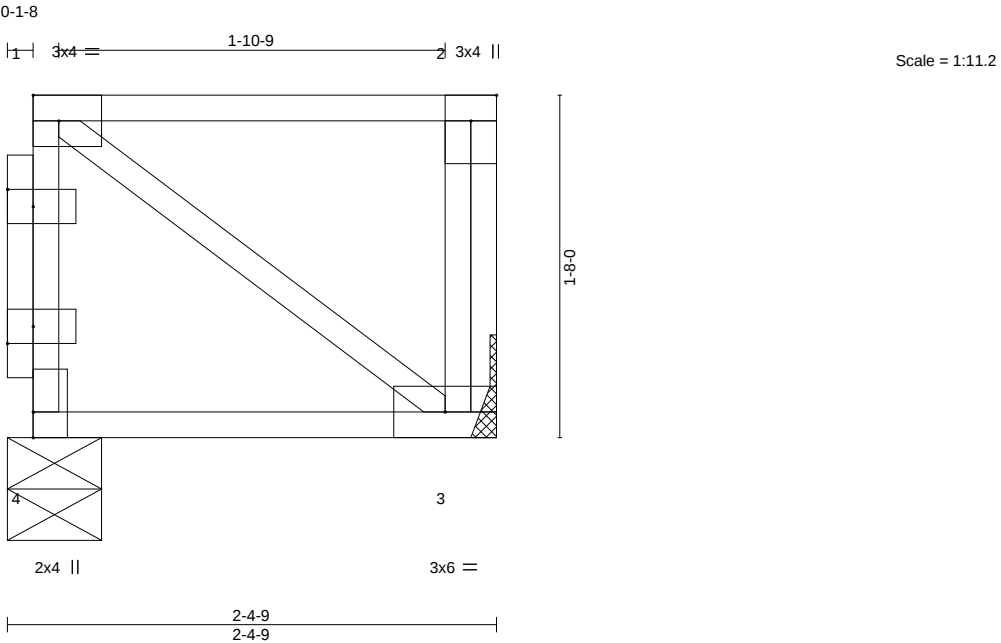


Plate Offsets (X,Y)--		[5:0-1-8,0-1-0], [6:0-1-8,0-1-0]	
LOADING (psf)	SPACING-		2-0-0
	TCLL	40.0	Plate Grip DOL 1.00
	TCDL	10.0	Lumber DOL 1.00
	BCLL	0.0	Rep Stress Incr YES
	BCDL	5.0	Code FBC2023/TPI2014
CSI.		TC	0.34
		BC	0.04
		WB	0.00
		Matrix-P	
DEFL.		in (loc)	I/defl
		Vert(LL)	0.00 4 ****
		Vert(CT)	-0.00 3-4 >999
		Horz(CT)	0.00 3 n/a
		L/d	360
			240
			n/a
			n/a
PLATES		GRIP	
MT20		244/190	
Weight: 18 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-4-9 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2(flat)		

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Grav 4=114(LC 1), 3=114(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

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

3) CAUTION, Do not erect truss backwards.



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Date:

March 27,2025

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803567
6250757	FL11X	Floor Supported Gable	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

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8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:32 2025 Page 1

ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-jyZ2t9nW6u15A?WEFJSGLiHRlokcx20S8DqsuizX1FP

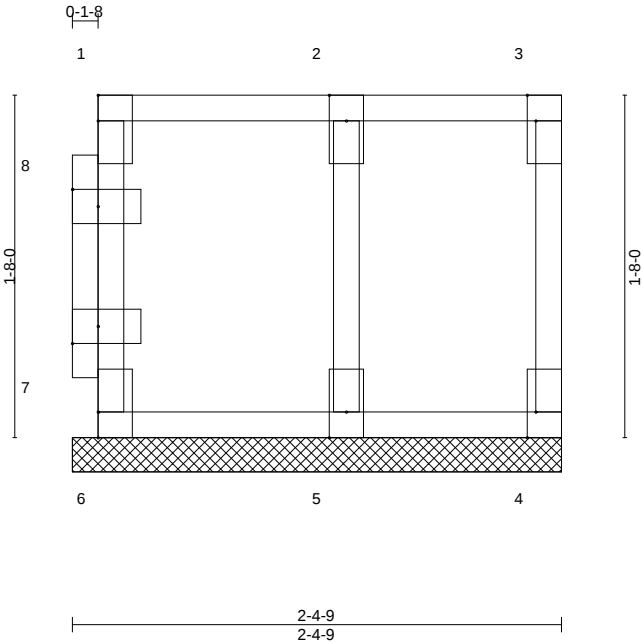


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [7:0-1-8,0-1-0], [8:0-1-8,0-1-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-R				Weight: 15 lb FT = 20%F, 11%E	

LUMBER-				BRACING-			
TOP CHORD	2x4	SP No.2(flat)		TOP CHORD	Structural wood sheathing directly applied or 2-4-9 oc purlins, except end verticals.		
BOT CHORD	2x4	SP No.2(flat)		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		
WEBS	2x4	SP No.2(flat)					
OTHERS	2x4	SP No.2(flat)					

REACTIONS. (size) 6=2-4-9, 4=2-4-9, 5=2-4-9
Max Grav 6=58(LC 1), 4=48(LC 1), 5=129(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) All plates are 2x4 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



Julius Lee PE No. 34869

MiTek Inc. DBA MiTek USA FL Cert 6634

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

March 27,2025

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803568
6250757	FL12	Floor	7	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:32 2025 Page 1
ID:P?10H_jyvCs9m_KS0yBlpQyRZGv-jyZ2t9nW6ul5A?WEFJSGLiHMzokFx2GS8DqsuizX1FP

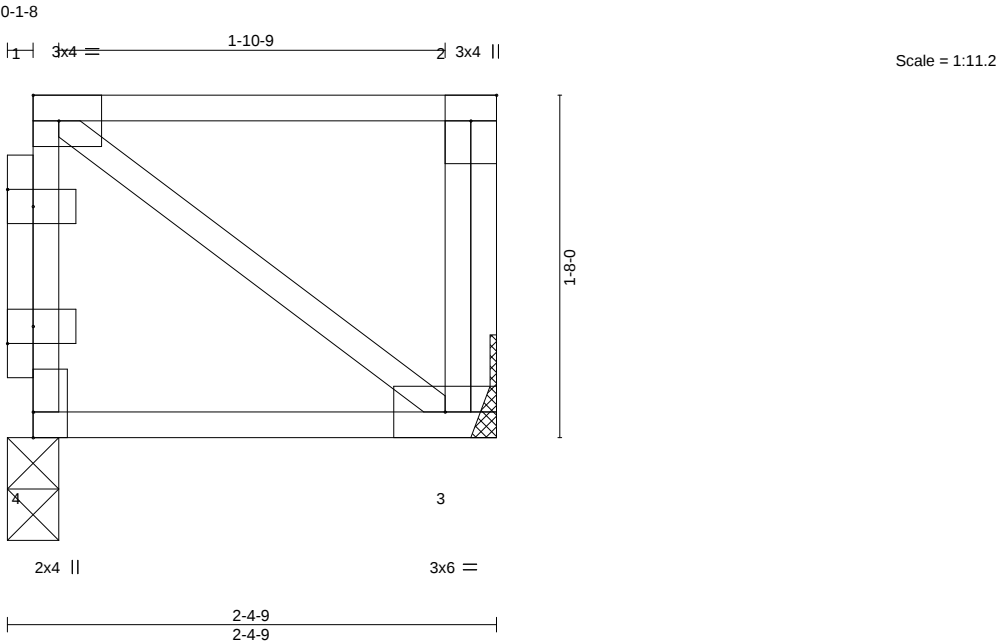


Plate Offsets (X,Y)--		[5:0-1-8,0-1-0], [6:0-1-8,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.34
TCDL 10.0	Lumber DOL	1.00	BC 0.04
BCLL 0.0	Rep Stress Incr	YES	WB 0.00
BCDL 5.0	Code	FBC2023/TPI2014	Matrix-P
DEFL.	in (loc)	I/defl	L/d
Vert(LL)	0.00	4 ****	360
Vert(CT)	-0.00	3-4 >999	240
Horz(CT)	0.00	3 n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 18 lb		FT = 20%F, 11%E	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-4-9 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2(flat)	

REACTIONS. (size) 4=0-3-0, 3=Mechanical
Max Grav 4=114(LC 1), 3=114(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-
- 1) Refer to girder(s) for truss to truss connections.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) CAUTION, Do not erect truss backwards.



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

March 27,2025

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

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803569
6250757	FL12X	Floor Supported Gable	1	1	Job Reference (optional)	

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8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:33 2025 Page 1
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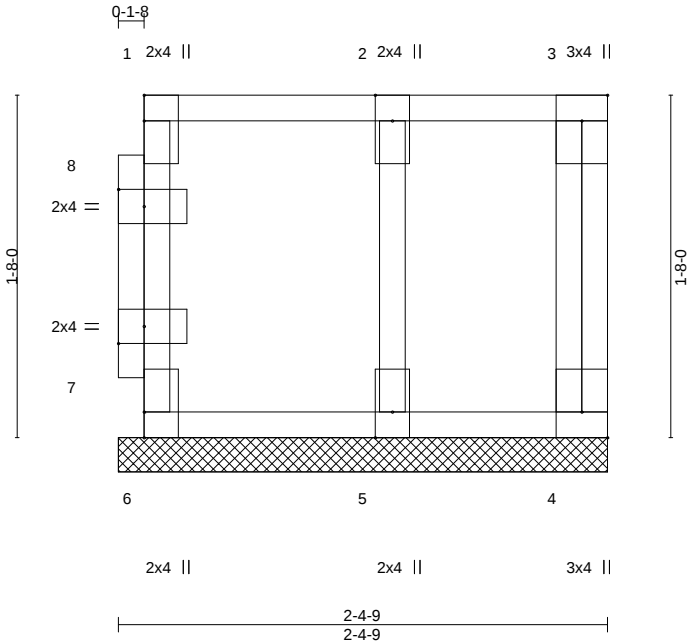


Plate Offsets (X,Y)-- [4:Edge,0-1-8], [7:0-1-8,0-1-0], [8:0-1-8,0-1-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	MT20	GRIP
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a		244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-R				Weight: 17 lb FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-4-9 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2(flat)		
OTHERS	2x4 SP No.2(flat)		

REACTIONS. (size) 6=2-4-9, 4=2-4-9, 5=2-4-9
Max Grav 6=60(LC 1), 4=47(LC 1), 5=120(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



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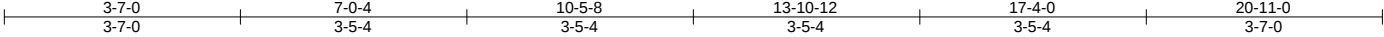
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803570
6250757	FTG1	FLAT GIRDER	1	3	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:39 2025 Page 1
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Scale = 1:35.0

THIS TRUSS IS DESIGNED TO BE
USED FOR ROOF APPLICATION ONLY.

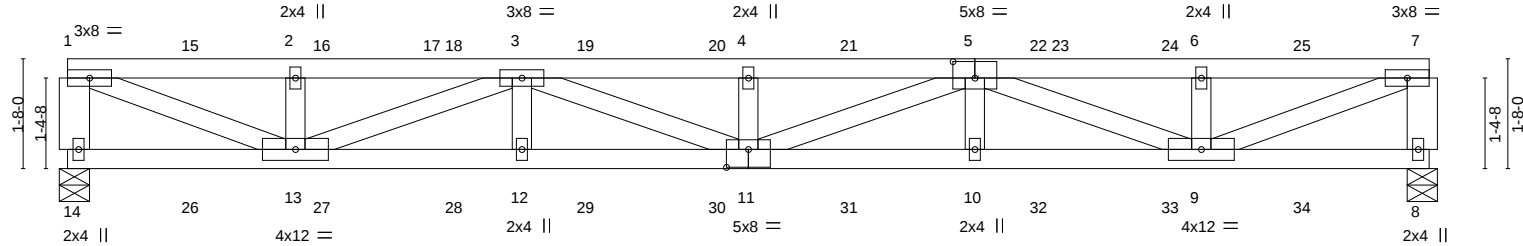


Plate Offsets (X,Y)--	[5:0-4-0,0-3-0], [11:0-4-0,0-3-4]
-----------------------	-----------------------------------

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.59	Vert(LL) -0.19	11	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.49	Vert(CT) -0.52	11	>471	240			
BCLL 0.0 *	Rep Stress Incr NO		WB 0.60	Horz(CT) 0.07	8	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Wind(LL) 0.21	11	>999	240		Weight: 311 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-14,7-8: 2x6 SP No.2	

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Grav 14=3788(LC 1), 8=3789(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-3653/0, 1-2=-7681/0, 2-3=-7681/0, 3-4=-13881/0, 4-5=-13881/0, 5-6=-7684/0,
6-7=-7684/0, 7-8=-3654/0
BOT CHORD 13-14=0/314, 12-13=0/12461, 11-12=0/12461, 10-11=0/12467, 9-10=0/12467, 8-9=0/315
WEBS 1-13=0/7961, 2-13=-1149/0, 3-13=-5149/0, 3-11=0/1529, 4-11=-1128/0, 5-11=0/1523,
5-9=-5152/0, 6-9=-1149/0, 7-9=0/7965

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 5-10 2x4 - 1 row at 0-6-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 43 lb down at 0-2-12, 68 lb down and 37 lb up at 2-0-4, 68 lb down and 37 lb up at 4-0-4, 68 lb down and 37 lb up at 6-0-4, 68 lb down and 37 lb up at 8-0-4, 68 lb down and 37 lb up at 10-0-4, 68 lb down and 37 lb up at 12-0-4, 68 lb down and 37 lb up at 14-0-4, 68 lb down and 37 lb up at 16-10-12, and 68 lb down and 37 lb up at 18-10-12, and 43 lb down at 20-8-4 on top chord, and 16 lb down at 2-0-4, 16 lb down at 4-0-4, 16 lb down at 6-0-4, 16 lb down at 8-0-4, 16 lb down at 10-0-4, 16 lb down at 12-0-4, 16 lb down at 14-0-4, 16 lb down at 16-10-12, and 16 lb down at 18-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Date:

March 27,2025

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LOAD CASE(S) - Standard

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803570
6250757	FTG1	FLAT GIRDER	1	3	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

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ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-0lVhLZsvT1A6W4Ya9H4v7B3UEc0l44eUlp1keozX1FI

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-343, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-43(F) 7=-43(F) 5=-1(F) 10=-5(F) 15=-1(F) 16=-1(F) 18=-1(F) 19=-1(F) 20=-1(F) 21=-1(F) 22=-1(F) 24=-1(F) 25=-1(F) 26=-5(F) 27=-5(F) 28=-5(F) 29=-5(F)
30=-5(F) 31=-5(F) 32=-5(F) 33=-5(F) 34=-5(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-310, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-41(F) 7=-41(F) 5=-1(F) 10=-4(F) 15=-1(F) 16=-1(F) 18=-1(F) 19=-1(F) 20=-1(F) 21=-1(F) 22=-1(F) 24=-1(F) 25=-1(F) 26=-4(F) 27=-4(F) 28=-4(F) 29=-4(F)
30=-4(F) 31=-4(F) 32=-4(F) 33=-4(F) 34=-4(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-257, 8-14=-40
Concentrated Loads (lb)
Vert: 5=-6(F) 10=-3(F) 15=-6(F) 16=-6(F) 18=-6(F) 19=-6(F) 20=-6(F) 21=-6(F) 22=-6(F) 24=-6(F) 25=-6(F) 26=-3(F) 27=-3(F) 28=-3(F) 29=-3(F) 30=-3(F) 31=-3(F)
32=-3(F) 33=-3(F) 34=-3(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-23=-6, 7-23=-24, 8-14=-12
Concentrated Loads (lb)
Vert: 5=0(F) 10=-1(F) 15=0(F) 16=0(F) 18=0(F) 19=0(F) 20=0(F) 21=0(F) 22=0(F) 24=7(F) 25=7(F) 26=-1(F) 27=-1(F) 28=-1(F) 29=-1(F) 30=-1(F) 31=-1(F)
32=-1(F) 33=-1(F) 34=-1(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-17=-24, 7-17=-6, 8-14=-12
Concentrated Loads (lb)
Vert: 5=0(F) 10=-1(F) 15=7(F) 16=7(F) 18=0(F) 19=0(F) 20=0(F) 21=0(F) 22=0(F) 24=0(F) 25=0(F) 26=-1(F) 27=-1(F) 28=-1(F) 29=-1(F) 30=-1(F) 31=-1(F)
32=-1(F) 33=-1(F) 34=-1(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 5=37(F) 15=37(F) 16=37(F) 18=37(F) 19=37(F) 20=37(F) 21=37(F) 22=37(F) 24=37(F) 25=37(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 5=37(F) 15=37(F) 16=37(F) 18=37(F) 19=37(F) 20=37(F) 21=37(F) 22=37(F) 24=37(F) 25=37(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-32, 8-14=-12
Concentrated Loads (lb)
Vert: 5=0(F) 10=-1(F) 15=0(F) 16=0(F) 18=0(F) 19=0(F) 20=0(F) 21=0(F) 22=0(F) 24=0(F) 25=0(F) 26=-1(F) 27=-1(F) 28=-1(F) 29=-1(F) 30=-1(F) 31=-1(F)
32=-1(F) 33=-1(F) 34=-1(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-78, 8-14=-12
Concentrated Loads (lb)
Vert: 5=11(F) 10=-1(F) 15=11(F) 16=11(F) 18=11(F) 19=11(F) 20=11(F) 21=11(F) 22=11(F) 24=11(F) 25=11(F) 26=-1(F)
27=-1(F) 28=-1(F) 29=-1(F) 30=-1(F) 31=-1(F) 32=-1(F) 33=-1(F) 34=-1(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 5=37(F) 15=37(F) 16=37(F) 18=37(F) 19=37(F) 20=37(F) 21=37(F) 22=37(F) 24=37(F) 25=37(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 5=37(F) 15=37(F) 16=37(F) 18=37(F) 19=37(F) 20=37(F) 21=37(F) 22=37(F) 24=37(F) 25=37(F)
- 12) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-211, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-34(F) 7=-34(F) 5=-1(F) 10=-2(F) 15=-1(F) 16=-1(F) 18=-1(F) 19=-1(F) 20=-1(F) 21=-1(F) 22=-1(F) 24=-1(F)
25=-1(F) 26=-2(F) 27=-2(F) 28=-2(F) 29=-2(F) 30=-2(F) 31=-2(F) 32=-2(F) 33=-2(F) 34=-2(F)
- 13) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20
Concentrated Loads (lb)
Vert: 5=28(F) 15=28(F) 16=28(F) 18=28(F) 19=28(F) 20=28(F) 21=28(F) 22=28(F) 24=28(F) 25=28(F)
- 14) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20

Continued on page 3



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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803570
6250757	FTG1	FLAT GIRDER	1	3	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:39 2025 Page 3
ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-0IVhLZsvT1A6W4Ya9H4v7B3UEc0l44eUlp1keozX1FI

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 5=28(F) 15=28(F) 16=28(F) 18=28(F) 19=28(F) 20=28(F) 21=28(F) 22=28(F) 24=28(F) 25=28(F)
- 15) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20
Concentrated Loads (lb)
Vert: 5=28(F) 15=28(F) 16=28(F) 18=28(F) 19=28(F) 20=28(F) 21=28(F) 22=28(F) 24=28(F) 25=28(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20
Concentrated Loads (lb)
Vert: 5=28(F) 15=28(F) 16=28(F) 18=28(F) 19=28(F) 20=28(F) 21=28(F) 22=28(F) 24=28(F) 25=28(F)
- 17) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-155, 8-14=-12
Concentrated Loads (lb)
Vert: 1=-38(F) 7=-38(F) 5=-13(F) 10=-10(F) 15=-13(F) 16=-13(F) 18=-13(F) 19=-13(F) 20=-13(F) 21=-13(F) 22=-13(F) 24=-13(F) 25=-13(F) 26=-10(F) 27=-10(F)
28=-10(F) 29=-10(F) 30=-10(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F)
- 18) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-7=-155, 8-14=-12
Concentrated Loads (lb)
Vert: 1=-38(F) 7=-38(F) 5=-13(F) 10=-10(F) 15=-13(F) 16=-13(F) 18=-13(F) 19=-13(F) 20=-13(F) 21=-13(F) 22=-13(F) 24=-13(F) 25=-13(F) 26=-10(F) 27=-10(F)
28=-10(F) 29=-10(F) 30=-10(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F)
- 19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-343, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-43(F) 7=-43(F) 5=-1(F) 10=-5(F) 15=-1(F) 16=-1(F) 18=-1(F) 19=-1(F) 20=-1(F) 21=-1(F) 22=-1(F) 24=-1(F) 25=-1(F) 26=-5(F) 27=-5(F) 28=-5(F) 29=-5(F)
30=-5(F) 31=-5(F) 32=-5(F) 33=-5(F) 34=-5(F)
- 20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-343, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-43(F) 7=-43(F) 5=-1(F) 10=-5(F) 15=-1(F) 16=-1(F) 18=-1(F) 19=-1(F) 20=-1(F) 21=-1(F) 22=-1(F) 24=-1(F) 25=-1(F) 26=-5(F) 27=-5(F) 28=-5(F) 29=-5(F)
30=-5(F) 31=-5(F) 32=-5(F) 33=-5(F) 34=-5(F)
- 21) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-310, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-41(F) 7=-41(F) 5=-1(F) 10=-4(F) 15=-1(F) 16=-1(F) 18=-1(F) 19=-1(F) 20=-1(F) 21=-1(F) 22=-1(F) 24=-1(F) 25=-1(F) 26=-4(F) 27=-4(F) 28=-4(F) 29=-4(F)
30=-4(F) 31=-4(F) 32=-4(F) 33=-4(F) 34=-4(F)
- 22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-310, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-41(F) 7=-41(F) 5=-1(F) 10=-4(F) 15=-1(F) 16=-1(F) 18=-1(F) 19=-1(F) 20=-1(F) 21=-1(F) 22=-1(F) 24=-1(F) 25=-1(F) 26=-4(F) 27=-4(F) 28=-4(F) 29=-4(F)
30=-4(F) 31=-4(F) 32=-4(F) 33=-4(F) 34=-4(F)
- 23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-23=-6, 7-23=-24, 8-14=-12
Concentrated Loads (lb)
Vert: 1=-12(F) 7=-12(F) 5=-68(F) 10=-16(F) 15=-68(F) 16=-68(F) 18=-68(F) 19=-68(F) 20=-68(F) 21=-68(F) 22=-62(F)
24=-50(F) 25=-50(F) 26=-16(F) 27=-16(F) 28=-16(F) 29=-16(F) 30=-16(F) 31=-16(F) 32=-16(F) 33=-16(F) 34=-16(F)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-17=-24, 7-17=-6, 8-14=-12
Concentrated Loads (lb)
Vert: 1=-12(F) 7=-12(F) 5=-68(F) 10=-16(F) 15=-50(F) 16=-50(F) 18=-62(F) 19=-68(F) 20=-68(F) 21=-68(F) 22=-68(F)
24=-68(F) 25=-68(F) 26=-16(F) 27=-16(F) 28=-16(F) 29=-16(F) 30=-16(F) 31=-16(F) 32=-16(F) 33=-16(F) 34=-16(F)
- 25) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-4(F) 7=-3(F) 5=-10(F) 10=-8(F) 15=-10(F) 16=-10(F) 18=-10(F) 19=-10(F) 20=-10(F) 21=-10(F) 22=-10(F)
24=-10(F) 25=-10(F) 26=-8(F) 27=-8(F) 28=-8(F) 29=-8(F) 30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)
- 26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-4(F) 7=-3(F) 5=-10(F) 10=-8(F) 15=-10(F) 16=-10(F) 18=-10(F) 19=-10(F) 20=-10(F) 21=-10(F) 22=-10(F)
24=-10(F) 25=-10(F) 26=-8(F) 27=-8(F) 28=-8(F) 29=-8(F) 30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)
- 27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-32, 8-14=-12

Continued on page 4

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

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803570
6250757	FTG1	FLAT GIRDER	1	3	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:39 2025 Page 4
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-0lVhLZsvT1A6W4Ya9H4v7B3UEc0l44eUlp1keozX1FI

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 1=-12(F) 7=-12(F) 5=-60(F) 10=-16(F) 15=-60(F) 16=-60(F) 18=-60(F) 19=-60(F) 20=-60(F) 21=-60(F) 22=-60(F) 24=-60(F) 25=-60(F) 26=-16(F) 27=-16(F)
28=-16(F) 29=-16(F) 30=-16(F) 31=-16(F) 32=-16(F) 33=-16(F) 34=-16(F)
- 28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-78, 8-14=-12
Concentrated Loads (lb)
Vert: 1=-12(F) 7=-12(F) 5=-46(F) 10=-16(F) 15=-46(F) 16=-46(F) 18=-46(F) 19=-46(F) 20=-46(F) 21=-46(F) 22=-46(F) 24=-46(F) 25=-46(F) 26=-16(F) 27=-16(F)
28=-16(F) 29=-16(F) 30=-16(F) 31=-16(F) 32=-16(F) 33=-16(F) 34=-16(F)
- 29) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-4(F) 7=-3(F) 5=-10(F) 10=-8(F) 15=-10(F) 16=-10(F) 18=-10(F) 19=-10(F) 20=-10(F) 21=-10(F) 22=-10(F) 24=-10(F) 25=-10(F) 26=-8(F) 27=-8(F)
28=-8(F) 29=-8(F) 30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)
- 30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-227, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-4(F) 7=-3(F) 5=-10(F) 10=-8(F) 15=-10(F) 16=-10(F) 18=-10(F) 19=-10(F) 20=-10(F) 21=-10(F) 22=-10(F) 24=-10(F) 25=-10(F) 26=-8(F) 27=-8(F)
28=-8(F) 29=-8(F) 30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)
- 31) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-3(F) 7=-3(F) 5=-8(F) 10=-8(F) 15=-8(F) 16=-8(F) 18=-8(F) 19=-8(F) 20=-8(F) 21=-8(F) 22=-8(F) 24=-8(F) 25=-8(F) 26=-8(F) 27=-8(F) 28=-8(F) 29=-8(F)
30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)
- 32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-3(F) 7=-3(F) 5=-8(F) 10=-8(F) 15=-8(F) 16=-8(F) 18=-8(F) 19=-8(F) 20=-8(F) 21=-8(F) 22=-8(F) 24=-8(F) 25=-8(F) 26=-8(F) 27=-8(F) 28=-8(F) 29=-8(F)
30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)
- 33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-3(F) 7=-3(F) 5=-8(F) 10=-8(F) 15=-8(F) 16=-8(F) 18=-8(F) 19=-8(F) 20=-8(F) 21=-8(F) 22=-8(F) 24=-8(F) 25=-8(F) 26=-8(F) 27=-8(F) 28=-8(F) 29=-8(F)
30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)
- 34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-322, 8-14=-20
Concentrated Loads (lb)
Vert: 1=-3(F) 7=-3(F) 5=-8(F) 10=-8(F) 15=-8(F) 16=-8(F) 18=-8(F) 19=-8(F) 20=-8(F) 21=-8(F) 22=-8(F) 24=-8(F) 25=-8(F) 26=-8(F) 27=-8(F) 28=-8(F) 29=-8(F)
30=-8(F) 31=-8(F) 32=-8(F) 33=-8(F) 34=-8(F)

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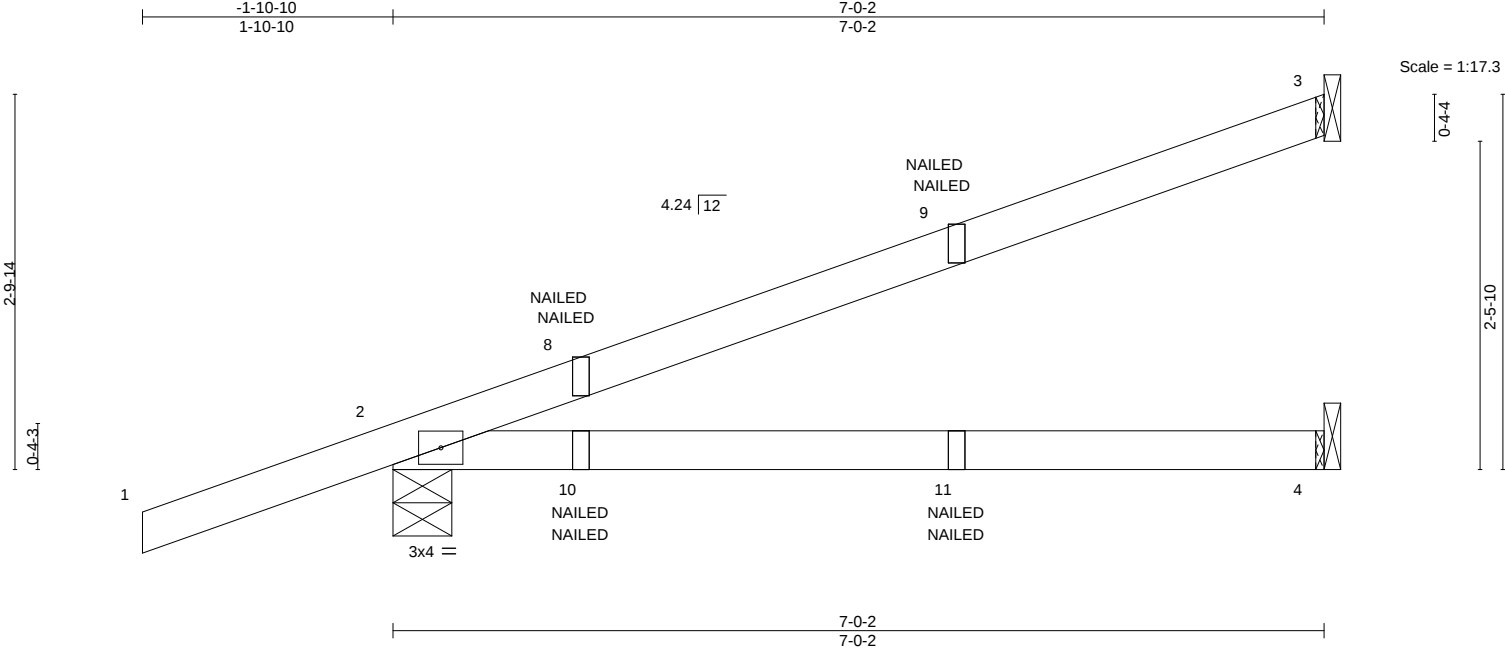
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803571
6250757	H5	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:39 2025 Page 1
ID:P?10H_jyvCs9m_KS0yBlpQyRZGv-0IVhLZsvT1A6W4Ya9H4v7B3TBc_N4D?Ulp1keozX1FI



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.66		Vert(LL)	-0.10	4-7	>861	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.58		Vert(CT)	-0.23	4-7	>368	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00		Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS		Wind(LL)	-0.09	4-7	>915	240	Weight: 25 lb	FT = 20%

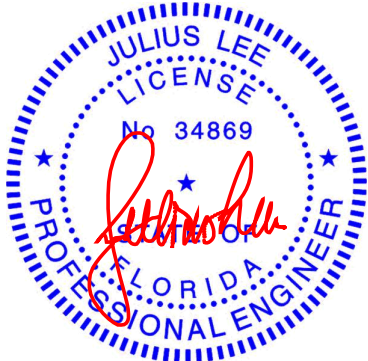
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 3=Mechanical, 2=0-5-5, 4=Mechanical
	Max Horz 2=128(LC 8)
	Max Uplift 3=-75(LC 8), 2=-72(LC 8)
	Max Grav 3=166(LC 1), 2=345(LC 31), 4=128(LC 3)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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 3-6-0 tall by 2-0-0 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 75 lb uplift at joint 3 and 72 lb uplift at joint 2.
 - 7) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
 - 8) 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 (plf)	
Vert: 1-3=-60, 4-5=-20	
Concentrated Loads (lb)	
Vert: 8=117(F=58, B=58) 11=-10(F=-5, B=-5)	



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

March 27,2025

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803572
6250757	H5D	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:40 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-UU24ZutXELIz8E7nj_b8gOci_0Otpghd_TmHAEzX1FH



Scale = 1:17.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.40	Vert(LL) -0.01	8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.02	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Horz(CT) -0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI0214	Matrix-MS	Wind(LL) 0.02	6-7	>999	240	Weight: 30 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) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=124(LC 8)
Max Uplift 4=50(LC 8), 2=330(LC 8), 5=81(LC 5)
Max Grav 4=101(LC 19), 2=386(LC 31), 5=111(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left exposed; porch left 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4, 330 lb uplift at joint 2 and 81 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 127 lb up at 1-4-15, 85 lb down and 127 lb up at 1-4-15, and 24 lb down and 39 lb up at 4-2-15, and 24 lb down and 39 lb up at 4-2-15 on top chord, and 78 lb down and 89 lb up at 1-4-15, 78 lb down and 89 lb up at 1-4-15, and 26 lb up at 4-2-15, and 26 lb up at 4-2-15 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 (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 12=84(F=42, B=42) 14=91(F=46, B=46) 15=15(F=7, B=7)



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

March 27,2025

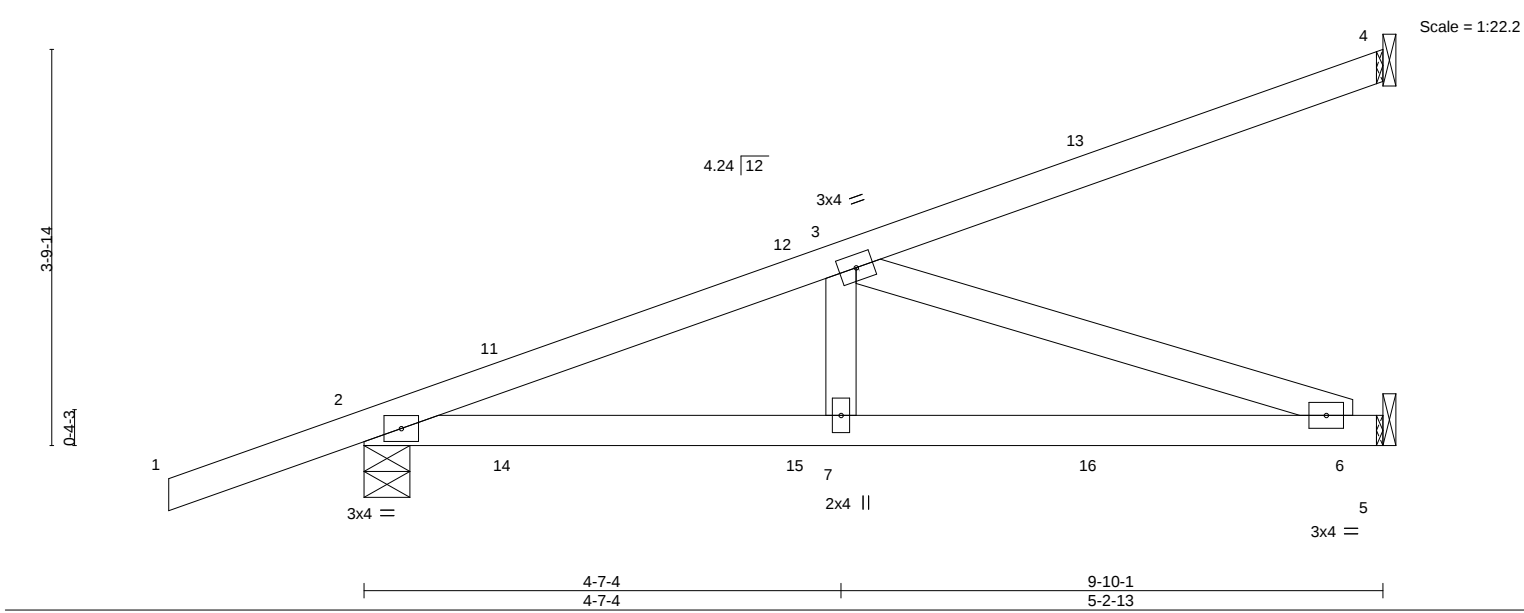
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MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803573
6250757	H7	Diagonal Hip Girder	3	1		

Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,
8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:40 2025 Page 1
ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-UU24ZutXELiz8E7nj_b8gOcfP0K1paFd_TmHAEzX1FH
9-10-1
5-2-13



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.63	Vert(LL)	-0.05	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.62	Vert(CT)	-0.12	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.38	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL)	-0.03	7-10	>999	240	Weight: 43 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 2=0-5-5, 5=Mechanical
Max Horz 2=166(LC 8)
Max Uplift 4=-178(LC 8), 2=-89(LC 8), 5=-14(LC 8)
Max Grav 4=304(LC 1), 2=482(LC 31), 5=317(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/71
BOT CHORD 2-7=-133/746, 6-7=-133/746
WEBS 3-7=0/289, 3-6=-788/140

- NOTES-**
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 4, 89 lb uplift at joint 2 and 14 lb uplift at joint 5.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 59 lb up at 1-4-15, 68 lb down and 59 lb up at 1-4-15, 79 lb down and 47 lb up at 4-2-15, 79 lb down and 47 lb up at 4-2-15, 109 lb down and 91 lb up at 7-0-14, and 109 lb down and 91 lb up at 7-0-14, and 141 lb down and 117 lb up at 9-9-5 on top chord, and 29 lb down and 14 lb up at 1-4-15, 29 lb down and 14 lb up at 1-4-15, 15 lb down at 4-2-15, 15 lb down at 4-2-15, and 36 lb down at 7-0-14, and 36 lb down at 7-0-14 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

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

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 4=-141(B) 11=117(F=58, B=58) 13=-81(F=-40, B=-40) 15=-10(F=-5, B=-5) 16=-66(F=-33, B=-33)



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

March 27,2025

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803574
6250757	H7T	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:41 2025 Page 1
ID:P?10H_JjvCs9m_KS0yB1pQyRZGv-ygcSmEt9_fRqIOizGh6NDc9mjQdUY37mC7WrhjzX1FG

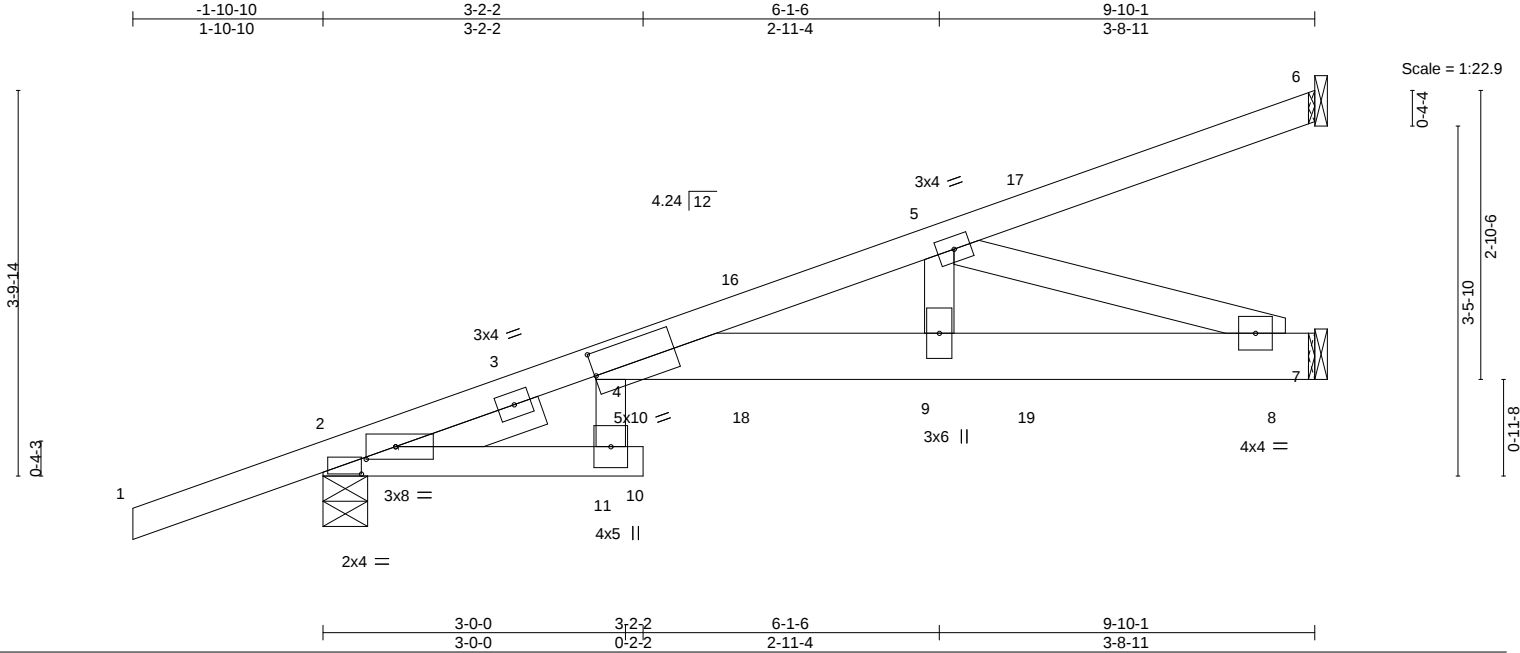


Plate Offsets (X,Y)--		[2:0-3-8,0-1-8], [2:0-4-1,0-3-4], [4:0-0-3,0-2-11]	
LOADING (psf)		SPACING-	CSI.
TCLL	20.0	2-0-0	TC 0.85
TCDL	10.0	Plate Grip DOL 1.25	BC 0.80
BCLL	0.0 *	Lumber DOL 1.25	WB 0.28
BCDL	10.0	Rep Stress Incr NO	Matrix-MS
		Code FBC2023/TPI2014	
		DEFL.	PLATES
		in (loc) l/defl L/d	GRIP
		Vert(LL) -0.13 4 >914 360	MT20 244/190
		Vert(CT) -0.29 4 >392 240	
		Horz(CT) 0.13 7 n/a n/a	
		Wind(LL) 0.13 4 >915 240	
			Weight: 50 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP M 31 or 2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied or 5-11-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SP No.2 *Except* 4-7: 2x6 SP No.2	BOT CHORD	
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 1-6-0		

REACTIONS. (size) 6=Mechanical, 2=0-5-5, 7=Mechanical
Max Horz 2=167(LC 8)
Max Uplift 6=-121(LC 8), 2=-104(LC 8), 7=-41(LC 8)
Max Grav 6=225(LC 1), 2=501(LC 31), 7=380(LC 1)

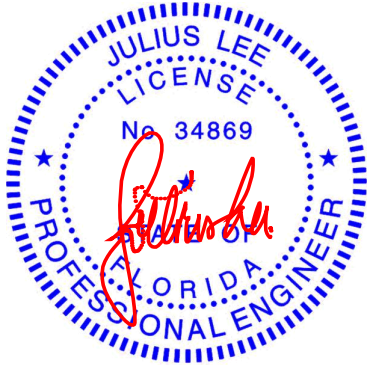
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-13=-609/0, 4-5=-1140/141
BOT CHORD 4-11=-16/409, 4-9=-204/1071, 8-9=-204/1080
WEBS 5-9=0/410, 5-8=-1140/216

NOTES-

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 6, 104 lb uplift at joint 2 and 41 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 59 lb up at 1-4-15, 70 lb down and 59 lb up at 1-4-15, 77 lb down and 33 lb up at 4-2-15, 77 lb down and 33 lb up at 4-2-15, 106 lb down and 77 lb up at 7-0-14, and 106 lb down and 77 lb up at 7-0-14, and 129 lb down and 101 lb up at 9-9-5 on top chord, and 29 lb down and 14 lb up at 1-4-15, 29 lb down and 14 lb up at 1-4-15, 19 lb down and 17 lb up at 4-2-15, 19 lb down and 17 lb up at 4-2-15, and 47 lb down at 7-0-14, and 47 lb down at 7-0-14 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 (plf)
Vert: 1-4=-60, 4-6=-60, 11-12=-20, 10-11=-20, 4-7=-20



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

March 27,2025

Continued on page 2

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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. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803574
6250757	H7T	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:41 2025 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-129(F) 13=117(F=58, B=58) 17=-58(F=-29, B=-29) 18=-38(F=-19, B=-19) 19=-95(F=-47, B=-47)

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

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803575
6250757	V3	Valley	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:42 2025 Page 1
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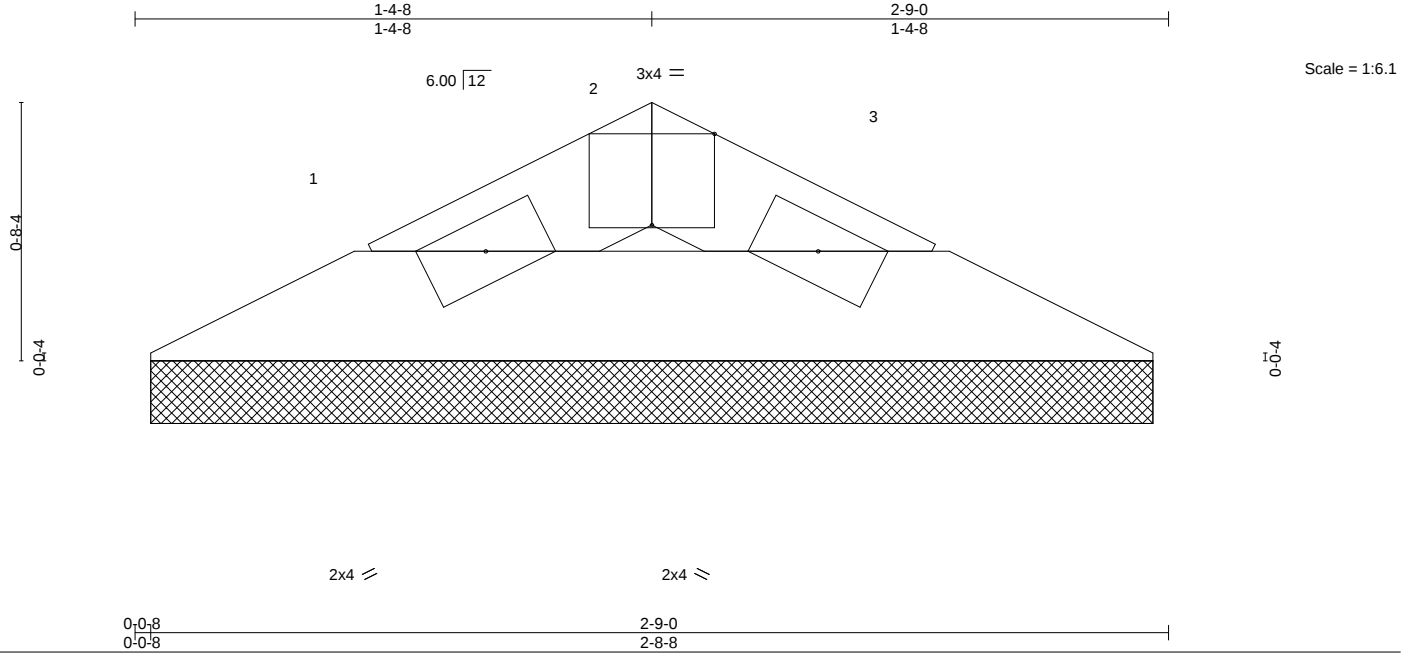


Plate Offsets (X,Y)--		[2-0-2-0,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P						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 2-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-8-0, 3=2-8-0
Max Horz 1=-8(LC 10)
Max Uplift 1=-13(LC 12), 3=-13(LC 12)
Max Grav 1=60(LC 1), 3=60(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever 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.
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

March 27,2025

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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803576
6250757	V7	Valley	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:43 2025 Page 1
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3-4-8

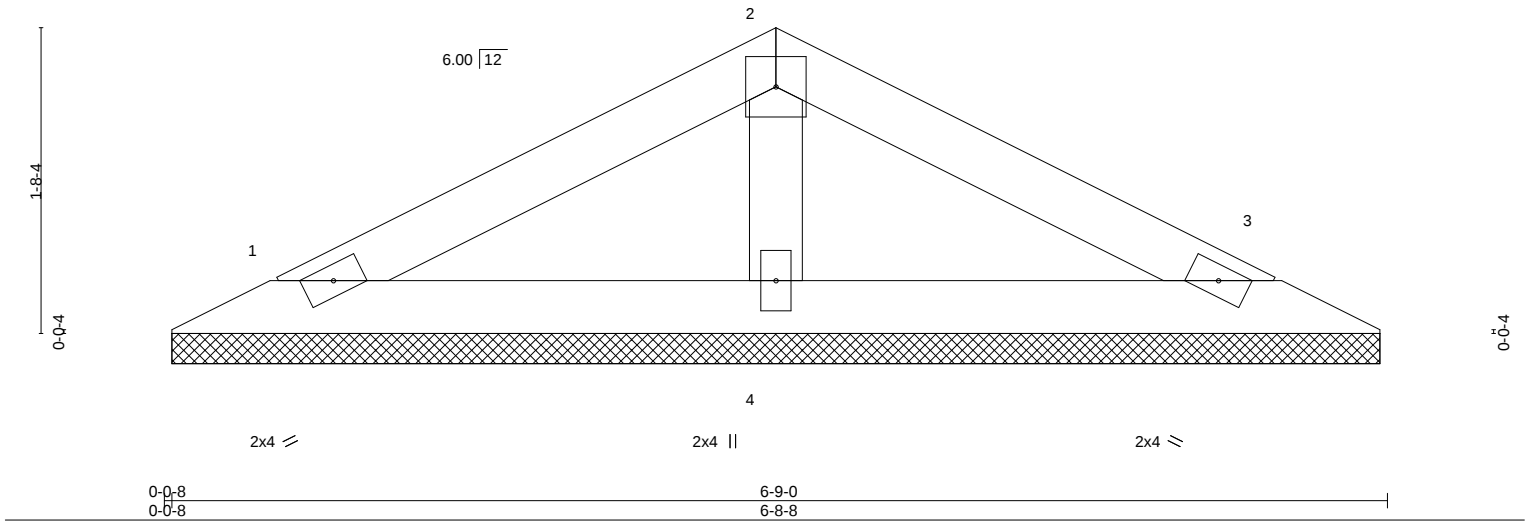
3-4-8

6-9-0

3-4-8

4x4 =

Scale = 1:12.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=6-8-0, 3=6-8-0, 4=6-8-0
Max Horz 1=-27(LC 10)
Max Uplift 1=-28(LC 12), 3=-28(LC 12), 4=-37(LC 12)
Max Grav 1=101(LC 23), 3=101(LC 24), 4=240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever 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.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

March 27,2025

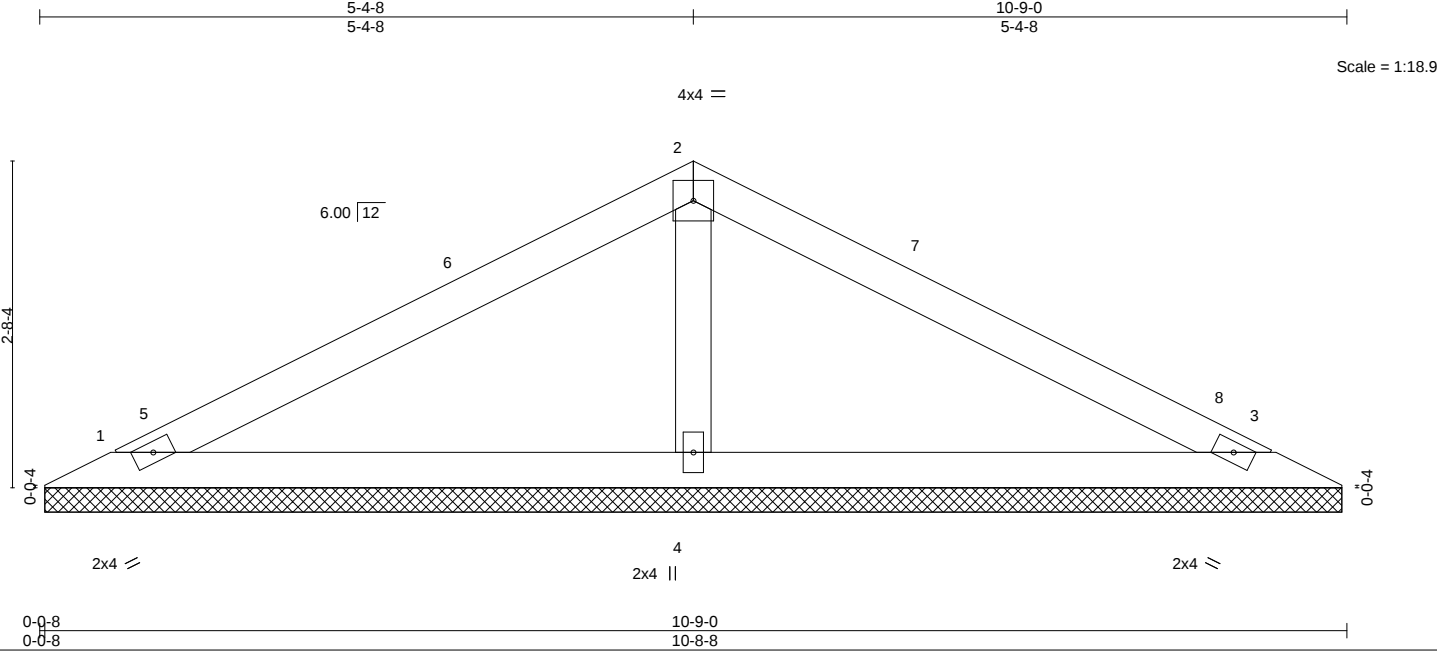
Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803577
6250757	V11	Valley	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:41 2025 Page 1

ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-ygcSmEt9_fRqlOizGh6NDc9vMQmQY7umC7WjhZx1FG



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.29		Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.22		Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04		Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 35 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. (size) 1=10-8-0, 3=10-8-0, 4=10-8-0
Max Horz 1=-47(LC 10)
Max Uplift 1=-49(LC 12), 3=-49(LC 12), 4=63(LC 12)
Max Grav 1=174(LC 23), 3=174(LC 24), 4=415(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-276/225

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 5-4-8, Zone2 5-4-8 to 9-7-7, Zone1 9-7-7 to 10-1-7 zone; cantilever 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.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 49 lb uplift at joint 3 and 63 lb uplift at joint 4.



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

March 27,2025

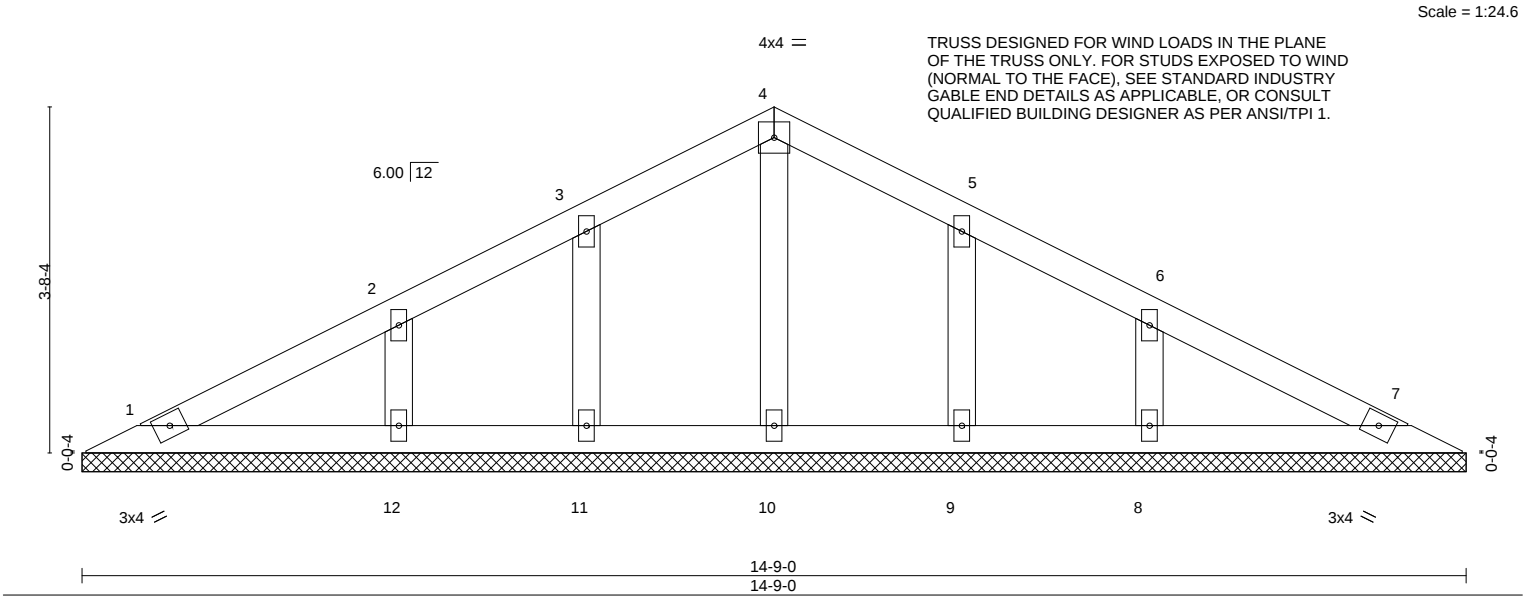
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2405-A-Tray	T36803578
6250757	V15	GABLE	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Mar 11 2025 MiTek Industries, Inc. Wed Mar 26 14:59:42 2025 Page 1
ID:P?10H_JjvCs9m_KS0yBlpQyRZGv-QtAq_aunlyZhNYH9qPdclph7Wq9HHalwRnFOF7zX1FF
7-4-8 7-4-8 14-9-0 7-4-8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 59 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 14-9-0.
(lb) - Max Horz 1=-67(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 12, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-7-9 to 3-4-8, Zone1 3-4-8 to 7-4-8, Zone2 7-4-8 to 11-4-8, Zone1 11-4-8 to 14-1-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 12, 9, 8.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2025

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

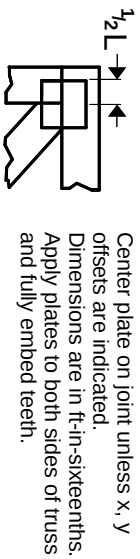
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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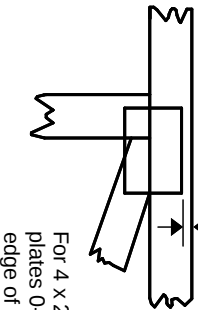
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

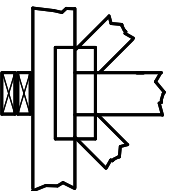
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

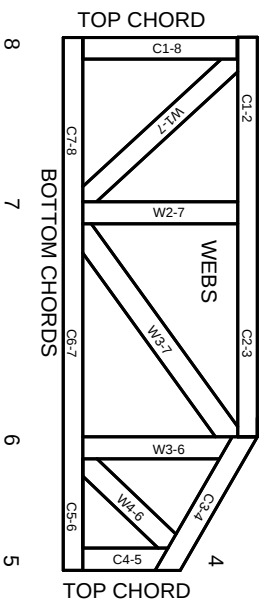
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.