



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

RE: 4947833 - OFFICE

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: WADE WILLIS CONST. Project Name: Office Bldg. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Lake City, State: FL

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

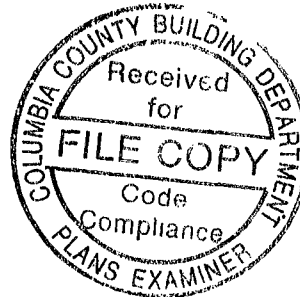
Name: License #:
Address:
City: State:

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: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 9 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T40000953	T01	2/2/26
2	T40000954	T01G	2/2/26
3	T40000955	T02	2/2/26
4	T40000956	T03	2/2/26
5	T40000957	T03G	2/2/26
6	T40000958	T04	2/2/26
7	T40000959	T05	2/2/26
8	T40000960	T06	2/2/26
9	T40000961	T06G	2/2/26

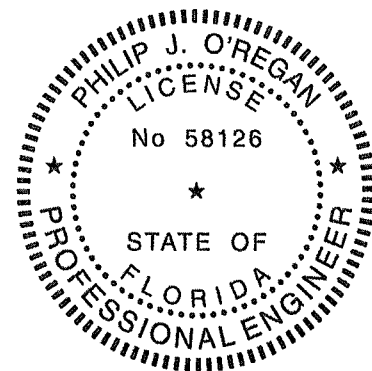


This item has been digitally signed and sealed by O'Regan, Philip, PE on the date adjacent to the seal
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: O'Regan, Philip
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.



Philip J. O'Regan PE No. 58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2, 2026

O'Regan, Philip

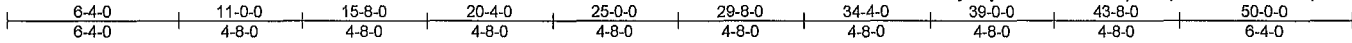
1 of 1

Job 4947833	Truss T01	Truss Type SCISSORS	Qty 34	Ply 1	OFFICE T40000953
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Builders FirstSource (Lake City FL) Lake City FL - 32055,

8.830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06:25 57 2026 Page 1

ID: NcEUs5NxxkwwNoh9?1HTyVxxya1Ni-i?1unRfxZxq3fi2Gp0rOd9SXBQEIXFpL870jzpG2e



Scale = 1/85 1

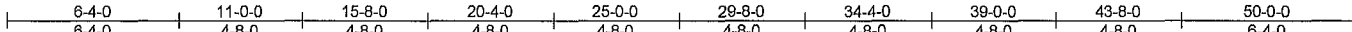
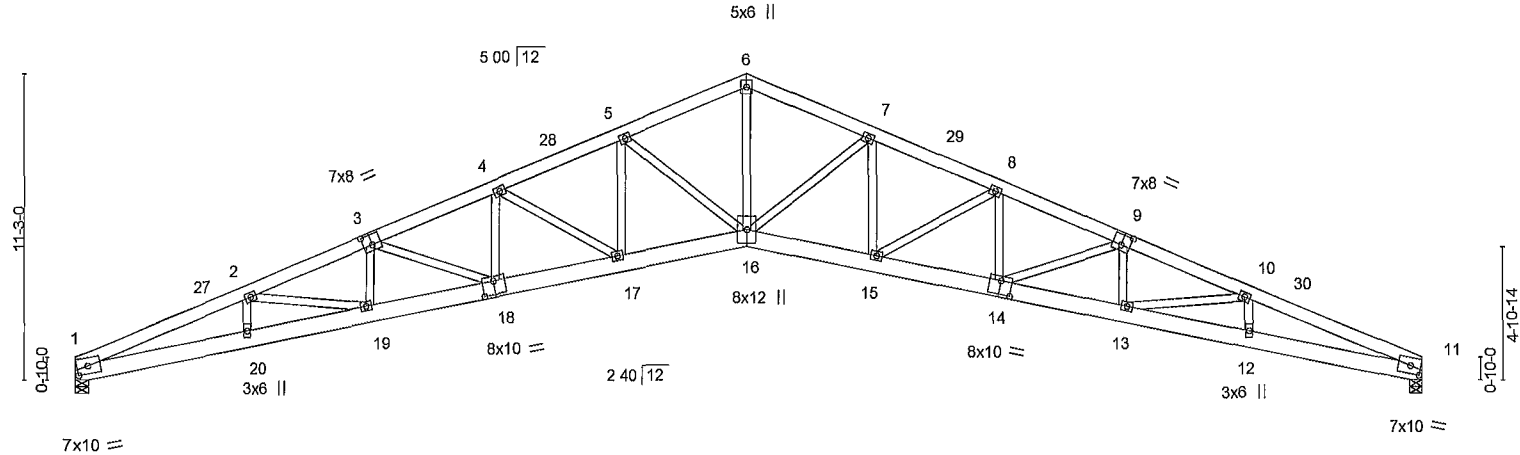


Plate Offsets (X,Y)-- [1 0-4-10,0-3-8], [3 0-4-0,0-4-8], [9 0-4-0,0-4-8], [11 0-4-10,0-3-8], [14 0-5-0,0-6-0], [18 0-5-0,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20 0	2-0-0	TC 0 54	In (loc) l/defl L/d	MT20	244/190
TCDL 10 0	Plate Grip DOL 1 25	BC 0 44	Vert(LL) -0 55 16 >999 240		
BCLL 0 0 *	Lumber DOL 1 25	VB 0 75	Vert(CT) -1 11 16 >541 180		
BCDL 10 0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0 58 11 n/a n/a		
	Code FBC2023/TPI2014			Weight. 384 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No 2
BOT CHORD 2x8 SP 2400F 2 OE
WEBS 2x4 SP No 3 *Except*
6-16 2x4 SP No 2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-9 oc purlins
BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing

REACTIONS.

(size) 1=0-5-8, 11=0-5 8
Max Horz 1=174(LC 13)
Max Uplift 1=482(LC 12), 11=482(LC 13)
Max Grav 1=2000(LC 1) 11=2000(LC 1)

FORCES.

(lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-6278/1571, 2-3=-6775/1660, 3-4=-6222/1476, 4-5=-5519/1257, 5-6=-4745/1018,
6-7=-4745/1031, 7-8=-5519/1098, 8-9=-6222/1322, 9-10=-6775/1512, 10-11=-6278/1455
BOT CHORD 1-20=-1568/5748, 19-20=-1593/5854, 18-19=-1597/6360, 17-18=-1344/5814,
16-17=-1062/5154, 15-16=-854/5154, 14-15=-1021/5814, 13-14=-1280/6360,
12-13=-1307/5854, 11-12=-1285/5748
WEBS 6-16=-681/3306 7-16=-955/390, 7-15=-193/635, 8-15=-785/328, 8-14=-117/410,
9-14=-623/273, 10-13=-99/544, 10-12=-454/144, 5-16=-955/386, 5-17=-191/635,
4-17=-785/324, 4-18=-113/410, 3-18=-623/267, 2-19=-67/544, 2-20=-454/159

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph TCDL=4 2psf; BCDL=3 0psf; h=20ft; Cat II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 5-0-0, Zone1 5-0-0 to 25-0-0, Zone2 25-0-0 to 32-0-14, Zone1 32-0-14 to 50-0-0 zone,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 4x5 MT20 unless otherwise indicated
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 482 lb uplift at joint 1 and 482 lb uplift at joint 11

This item has been digitally signed and sealed by O'Regan, Philip, PE on the date indicated here Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2,2026

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

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

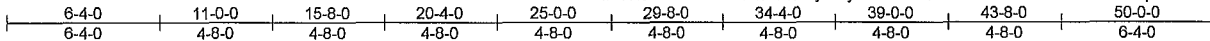
MiTek®
16023 Swingley Ridge Rd.
Chesterfield MO 63017
314.434 1200 / MITek-US.com

Job	Truss	Truss Type	Qty	Ply	OFFICE	T40000954
4947833	T01G	GABLE	2	2	Job Reference (optional)	

Builders FirstSource (Lake City FL) Lake City, FL - 32055,

8 830 s Jan 22 2026 MiTek Industries Inc. Mon Feb 2 06 26 00 2026 Page 1

ID:NcEU5sNxxwwNoh971HTyWxya1NI-7thQXoTXEUKPw7RdxxZY0Gn4qPYeV31F16LgK4zpG2b



Scale = 1/8" = 1'-0"

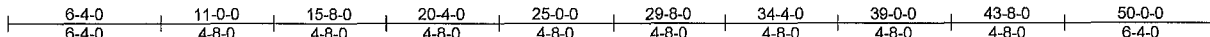
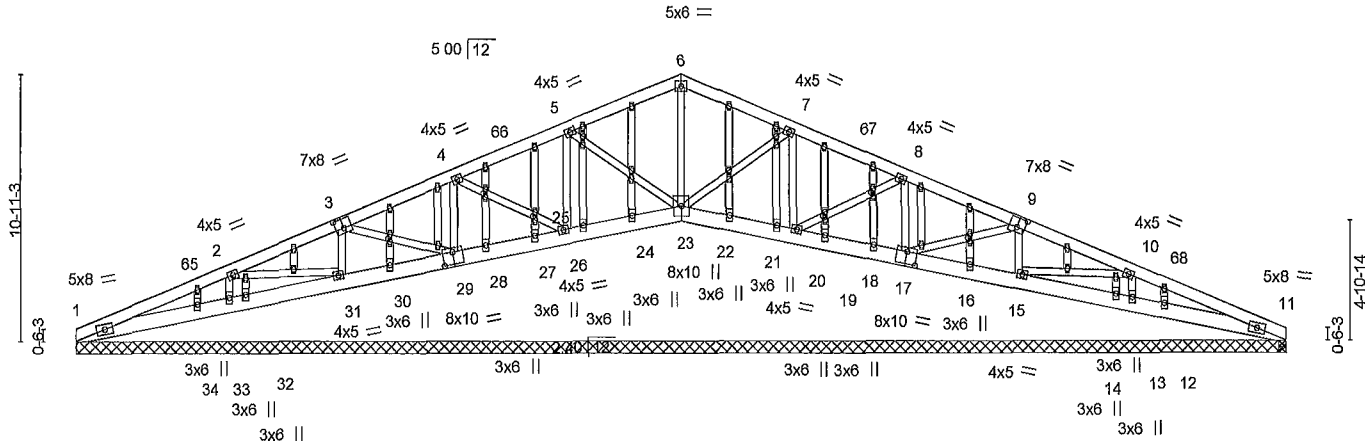


Plate Offsets (X-Y)-- [3 0-4-0,0-4-8], [9 0-4-0,0-4-8], [17 0-5-0,0-6-0], [29 0-5-0,0-6-0], [39 0-1-14,0-1-0], [41 0-1-14,0-1-0], [45 0-1-10,0-1-0], [55 0-1-14,0-1-0], [57 0-1-14,0-1-0], [61 0-1-10,0-1-0]

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 09	Vert(LL)	-0 00	1	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL	1 25	BC 0 01	Vert(CT)	-0 00	1-34	>999	180		
BCLL 0 0 *	Rep Stress Incr	YES	WB 0 04	Horz(CT)	0 00	11	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014		Matrix-S						Weight: 822 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No 2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins
BOT CHORD 2x8 SP 2400F 2 OE	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing
WEBS 2x4 SP No 3	
OTHERS 2x4 SP No 3	

REACTIONS. All bearings 50-0-0
(lb) Max Horz 1=175(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 23, 34, 12, 1, 11 except 20=141(LC 13), 17=123(LC 13), 15=112(LC 13), 13=186(LC 13), 26=147(LC 12), 29=127(LC 12), 31=113(LC 12), 33=196(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 13, 33, 24, 25, 27, 28, 30, 32, 22, 21, 19, 18, 16, 14, 1, 11, 11 except 23=401(LC 1), 20=269(LC 26), 17=303(LC 26), 15=322(LC 26), 26=269(LC 25), 29=303(LC 25), 31=320(LC 25), 34=278(LC 3), 12=267(LC 3)

FORCES. (lb) - Max Comp./Max. Ten - All forces 250 (lb) or less except when shown
BOT CHORD 25-26=-89/258, 24-25=-90/259, 23-24=-91/258
WEBS 6-23=-283/50, 8-17=-262/109, 9-15=-258/115, 10-13=-364/195, 4-29=-262/117, 3-31=-256/120, 2-33=-370/205

- NOTES-**
- 2-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
Bottom chords connected as follows 2x8 - 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
 - Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22 Vult=130mph (3-second gust) Vasd=101mph TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat II, Exp B Encl , GCpi=0 18 MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 5-0-0, Zone1 5-0-0 to 25-0-0, Zone2 25-0-0 to 32-0-14, Zone1 32-0-14 to 49-10-4 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
 - Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated
 - Gable 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

Continued on page 2

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2,2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.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 4947833	Truss T01G	Truss Type GABLE	Qty 2	Ply 2	OFFICE T40000954
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Builders FirstSource (Lake City FL), Lake City FL - 32055,

8 830 s Jan 22 2026 MiTek Industries, Inc Mon Feb 2 06 26 00 2026 Page 2
ID NcEUs5NxxwwNoh9?1HTyVvxy1NI-7thQXoTXEUKPw7RdxxZY0Gn4qPYeV31F16LgK4zpG2b

NOTES-

- 10) * 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
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 34, 12, 1, 11 except (jt=lb) 20=141, 17=123, 15=112, 13=186, 26=147, 29=127, 31=113, 33=196
- 12) Studding applied to ply 1(Front)

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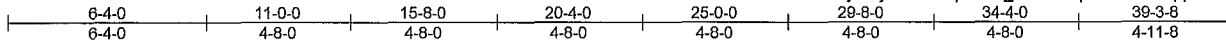
18023 Swingley Ridge Rd.
Chesterfield MO 63017
314.434 1200 / MiTek-US.com

Job 4947833	Truss T02	Truss Type ROOF SPECIAL	Qty 15	Ply 1	OFFICE Job Reference (optional)	T40000955
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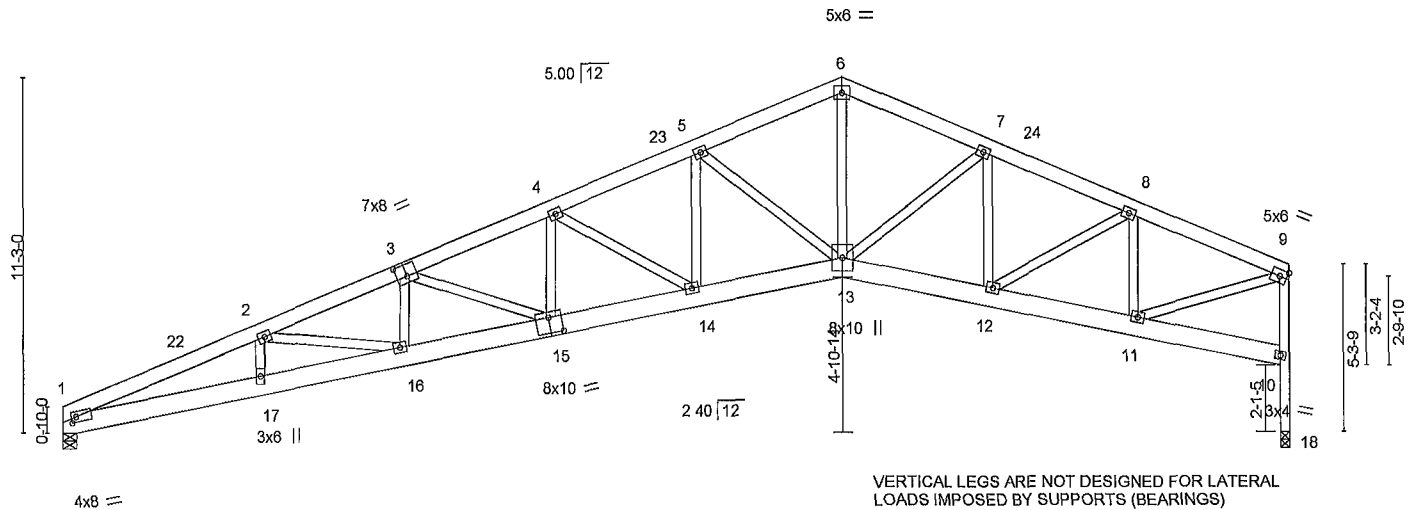
Builders FirstSource (Lake City FL), Lake City, FL 32055

8 830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06 26 01 2026 Page 1

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Scale = 1/32



VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS)

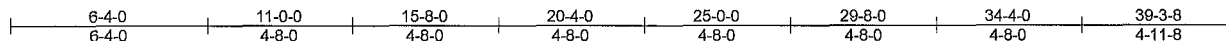


Plate Offsets (X,Y)-- [1 0-1-14,0-2-0], [3 0-4-0,0-4-8], [15 0-5-0,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	In	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1 25	TC 0 80	Vert(LL)	-0 24	15	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL 1 25	BC 0 32	Vert(CT)	-0 48	15	>976	180		
BCLL 0 0 *	Rep Stress incr YES	WB 0 70	Horz(CT)	0 30	18	n/a	n/a		
BCDL 10 0	Code FBC2023/TP12014	Matrix-MS						Weight: 318 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No 2
BOT CHORD 2x8 SP 2400F 2 0E
WEBS 2x4 SP No 3 *Except*
9-18 2x4 SP No 2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing

REACTIONS. (size) 1=0-5-8, 18=0-3-8
Max Horz 1=273(LC 12)
Max Uplift 1=400(LC 12), 18=328(LC 13)
Max Grav 1=1566(LC 1), 18=1566(LC 1)

FORCES. (lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-4764/1352, 2-3=-4916/1395, 3-4=-4283/1199, 4-5=-3531/973, 5-6=-2715/727, 6-7=-2714/741, 7-8=-2617/633, 8-9=-1966/424, 10-18=-1566/328 9-10=-1501/334
BOT CHORD 1-17=-1468/4355, 16 17=-1488/4431 15-16=-1447/4607, 14-15=-1184/3988
13-14=-896/3283, 12-13=-524/2418, 11-12=-375/1812
WEBS 2-17=-302/138, 3-15=-672/278, 4-15=-119/442, 4-14=-819/331, 5-14=-197/661, 5-13=-993/395, 6-13=-459/1762, 7-13=-81/264, 7-12=-384/147, 8-12=-172/696, 8-11=-914/241, 9-11=-380/1842

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp B, Encl GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-11-2, Zone1 3-11-2 to 25-0-0, Zone2 25-0-0 to 30-6-11, Zone1 30-6-11 to 39-1-12 zone 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 4x5 MT20 unless otherwise indicated
 - This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
 - Bearing at joint(s) 1, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=400, 18=328

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA, FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2, 2026

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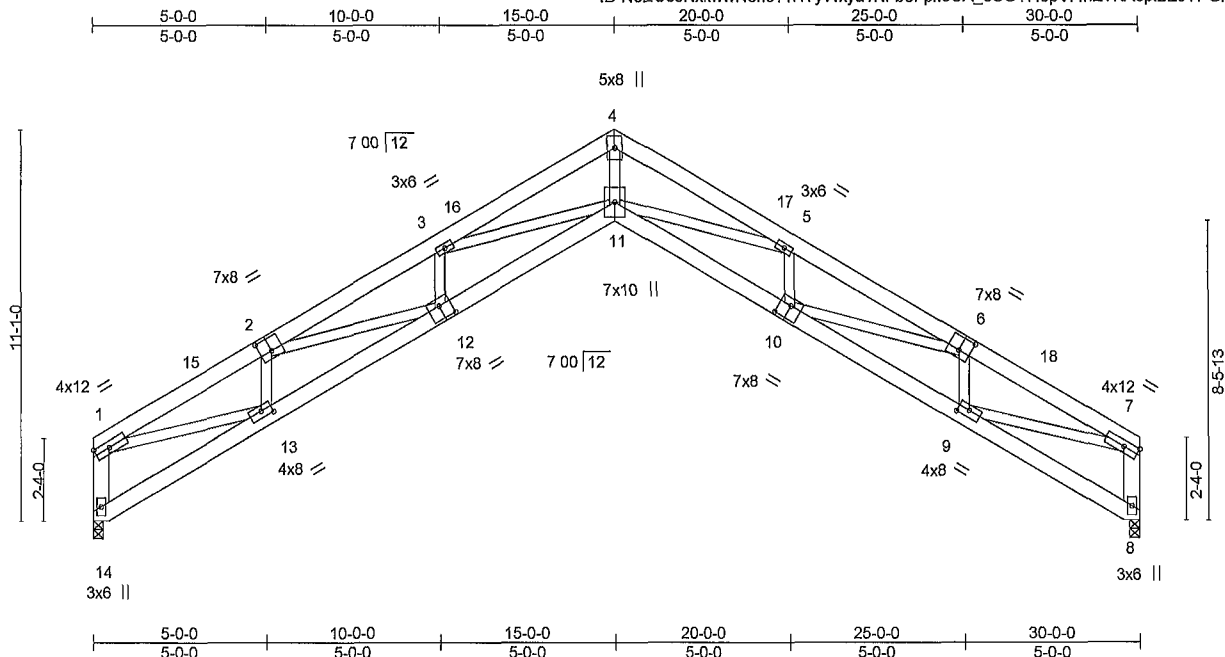
MiTek®
16023 Swingley Ridge Rd
Chesterfield MO 63017
314.434.1200 / MiTek-US.com

Job 4947833	Truss T03	Truss Type ROOF SPECIAL	Qty 3	Ply 1	OFFICE T40000956
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Builders FirstSource (Lake City FL) Lake City, FL - 32055

8 830 s Jan 22 2026 MiTek Industries Inc. Mon Feb 2 06 26 01 2026 Page 1

ID NcEU55NxxwwNoh971HTyWxya1NI-b3Fpk8UA_oSGYH0pVf4nZTKAopi2EJYPGm5DsXzpG2a



Scale = 1/8\"/>

Plate Offsets (X,Y)-- [2 0-4-0,0-4-8], [6 0-4-0,0-4-8], [9 0-3-12,0-2-4], [10 0-4-0,0-4-8], [12 0-4-0,0-4-8], [13 0-3-12,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20 0	2-0-0	TC 0 33	in (loc) l/defl L/d	MT20	244/190
TCDL 10 0	Plate Grip DOL 1 25	BC 0 77	Vert(LL) -0 38 11 >936 240		
BCLL 0 0 *	Lumber DOL 1 25	WB 0 85	Vert(CT) -0 76 11 >468 180		
BCDL 10 0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0 98 8 n/a n/a		
	Code FBC2023/TPI2014			Weight: 228 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
1-14,7-8 2x6 SP No 2, 4-11 2x4 SP No 1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-0-10 oc bracing

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=-288(LC 8)
Max Uplift 14=-267(LC 12), 8=-267(LC 13)
Max Grav 14=1182(LC 1), 8=1182(LC 1)

FORCES. (lb) - Max Comp /Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-14=-1160/506, 1-2=-2735/1188, 2-3=-4399/1732, 3-4=-4909/1572, 4-5=-4909/1579, 5-6=-4399/1699, 6-7=-2735/1155, 7-8=-1160/496
BOT CHORD 13-14=-317/385 12-13=-1103/2695, 11-12=-1483/4315, 10-11=-1435/4315, 9-10=-1059/2695
WEBS 4-11=-1467/4581, 5-11=-248/799, 5-10=-494/98, 6-10=-392/1438, 6-9=-888/305, 7-9=-935/2242 3-11=0/617 3-12=-476/90, 2 12=-395/1438, 2-13=-888/293, 1-13=-913/2242

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-2 12 to 3-2-12, Zone1 3-2 12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 zone end vertical left and right exposed, porch 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
 - Bearing at joint(s) 14 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=267, 8=267

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2, 2026

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

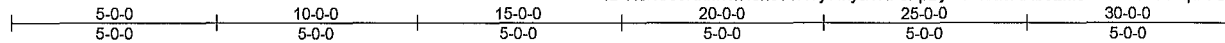
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

Job 4947833	Truss T03G	Truss Type GABLE	Qty 1	Ply 2	OFFICE Job Reference (optional)	T40000957
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Builders FirstSource (Lake City,FL), Lake City, FL 32055

8,830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06 26 02 2026 Page 1
ID=NcEU5NxxkwwNoh9?1HTYWxya1NI-3FpByUVol6a6ARb02Mc05hsO4C77zqUYUQqnOzzpG2Z



Scale = 1/8" = 1'-0"

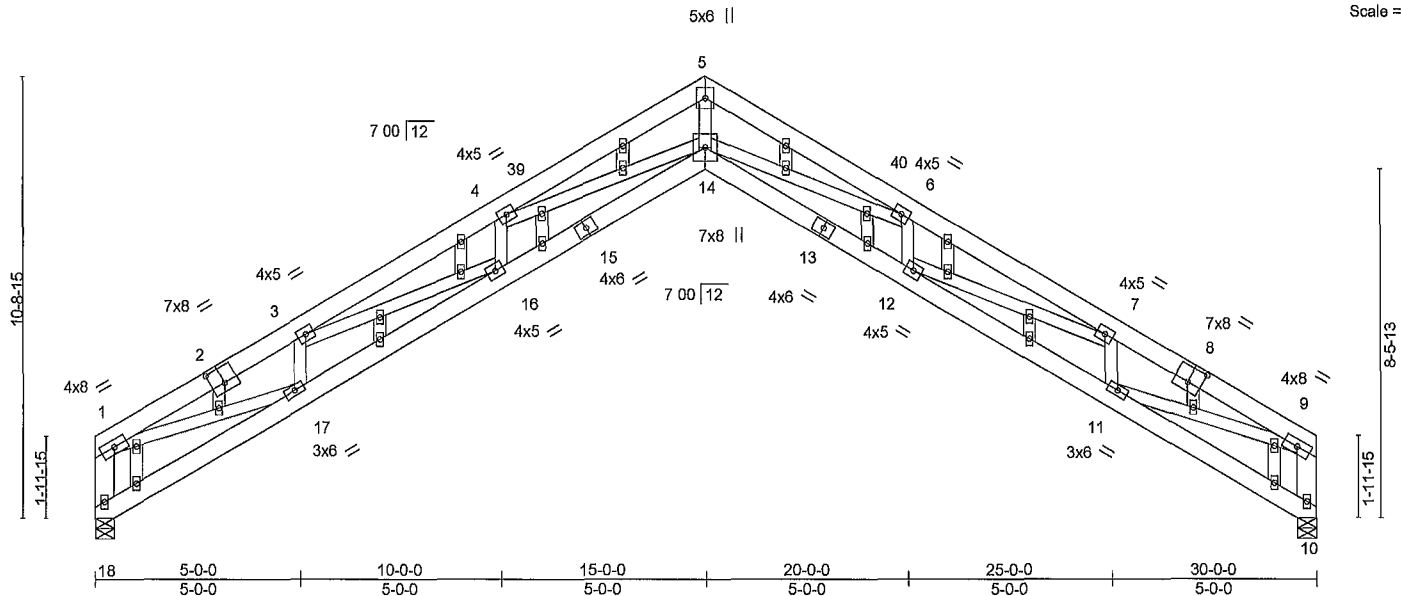


Plate Offsets (X,Y)-- [2 0-4-0,0-4-8], [8 0-4-0,0-4-8]

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 17	Vert(LL)	-0 27	14	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL	1 25	BC 0 47	Vert(CT)	-0 54	14	>655	180		
BCLL 0 0 *	Rep Stress Incr	YES	WB 0 62	Horz(CT)	0 69	10	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014		Matrix-MS						Weight 466 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
1-18,9-10 2x6 SP No 2, 5-14 2x4 SP No 2
OTHERS 2x4 SP No 3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

(size) 18=0-5-8, 10=0-5-8
Max Horz 18=-276(LC 8)
Max Uplift 18=-268(LC 12), 10=-268(LC 13)
Max Grav 18=1182(LC 1), 10=1182(LC 1)

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

TOP CHORD 1-18=-1175/506, 1-3=-3240/1374, 3-4=-5204/1989, 4-5=-5815/1782, 5-6=-5815/1791,
6-7=-5204/1957, 7-9=-3240/1350, 9-10=-1175/499
BOT CHORD 17-18=-321/394, 16-17=-1246/3091, 14-16=-1728/5059, 12-14=-1679/5059,
11-12=-1207/3091
WEBS 5-14=-1671/5477, 6-14=-289/1001, 6-12=-461/99, 7-12=-489/1838, 7-11=-827/276,
9-11=-1094/2671, 4-14=0/782 4-16=-455/99, 3-16=-498/1838, 3-17=-827/269,
1-17=-1077/2671

NOTES-

- 2-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.
Bottom chords connected as follows 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
- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf, BCDL=3 0psf; h=20ft, Cat II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 zone, end vertical left and right exposed, porch left and right exposed C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated
- Gable 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

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2,2026

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Job -	Truss	Truss Type	Qty	Ply	OFFICE	T40000957
4947833	T03G	GABLE	1	2	Job Reference (optional)	

- NOTES-**
- 11) Bearing at joint(s) 18, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=268, 10=268
 - 13) Studding applied to ply 1(Front)

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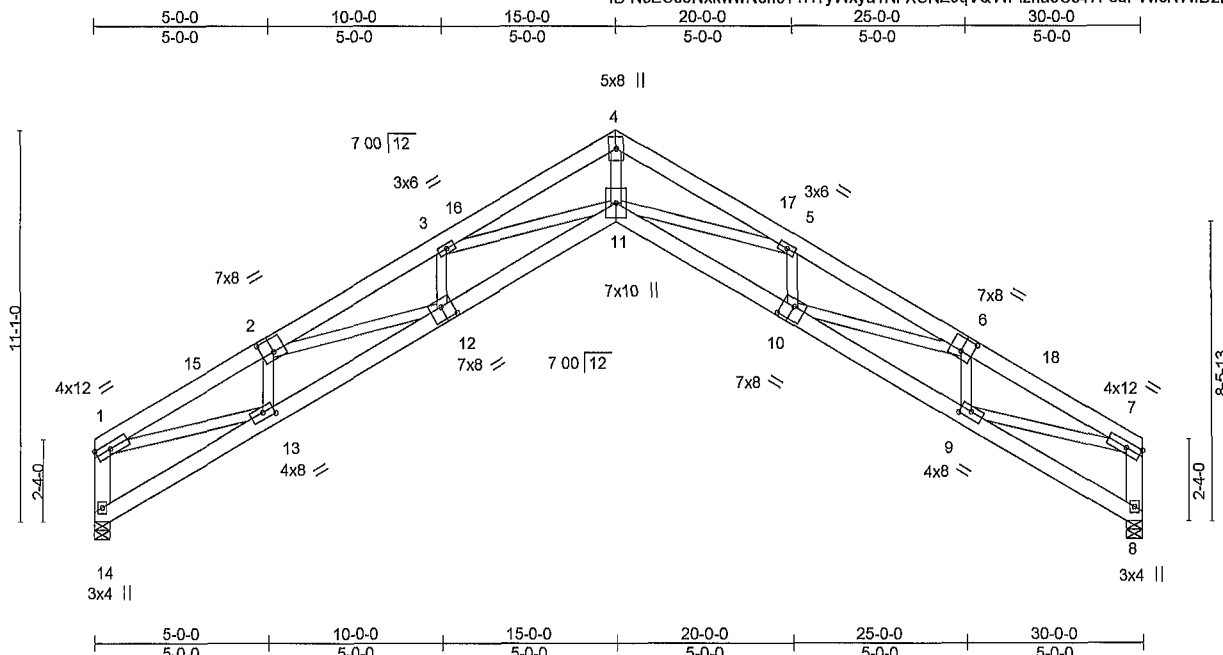
16023 Swingley Ridge Rd
Chesterfield, MO 63017
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Job .	Truss	Truss Type	Qty	Ply	OFFICE	T40000958
4947833	T04	ROOF SPECIAL	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL) Lake City, FL - 32055,

8 830 s Jan 22 2026 MiTek Industries, Inc Mon Feb 2 06 26 03 2026 Page 1

ID NcEUs5NxxwwNoh971HTyWxya1NI-XSNZ9qVQWPizna9Cc47FeuPWicNWfD2ij4aKxPzpG2Y



Scale = 1/65

Plate Offsets (X,Y)-- [2 0-4-0,0-4-8], [6 0-4-0,0-4-8], [9 0-3-12,0-2-4], [10 0-4-0,0-4-8], [12 0-4-0,0-4-8], [13 0-3-12,0-2-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1 25	TC 0 33	Vert(LL)	-0 38	11	>936	240	MT20	244/190
TCDL 10 0	Lumber DOL 1 25	BC 0 77	Vert(CT)	-0 76	11	>468	180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0 85	Horz(CT)	0 98	8	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014	Matrix MS						Weight: 228 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
1 14,7-8 2x6 SP No 2, 4 11 2x4 SP No 1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 7-8-7 oc bracing

REACTIONS.

(size) 14=0-5-8, 8=0-5-8
Max Horz 14=-288(LC 8)
Max Uplift 14=-267(LC 12), 8=-267(LC 13)
Max Grav 14=1182(LC 1), 8=1182(LC 1)

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

TOP CHORD 1-14=-1175/340, 1-2=-2747/709, 2-3=-4399/1000, 3-4=-4909/764, 4-5=-4909/788, 5-6=-4399/783, 6 7=-2735/592, 7-8=-1160/295
BOT CHORD 13-14=-322/374, 12-13=-773/2904, 11-12=-927/4456, 10-11=-687/4315, 9-10=-567/2695
WEBS 4-11=-665/4581, 5-11=-325/742, 5-10=-472/98, 6-10=-163/1438, 6-9=-888/232, 7-9=-445/2242, 3-11=0/617, 3-12=-472/95, 2-12=-152/1438, 2-13=-888/276, 1-13=-546/2242

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf, BCDL=3 0psf, h=20ft, Cat II, Exp B Encl, GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 zone, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=267, 8=267

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2,2026

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

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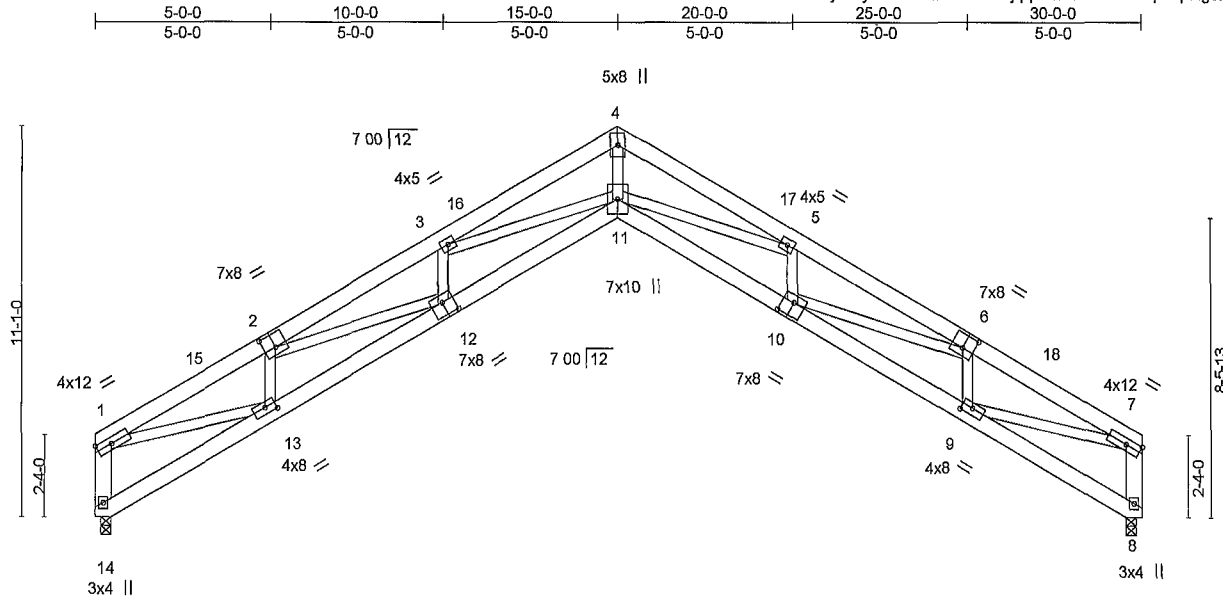
MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
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Job ,	Truss	Truss Type	Qty	Ply	OFFICE	T40000959
4947833	T05	ROOF SPECIAL	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL) Lake City, FL - 32055

8 830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06:26 04 2026 Page 1

ID NcEU5NxxwwNoh9?1HTyVxya1NI-7ewxMAW2HjqqPkkOAneUA6xhp0kpRgJrykJuTszpG2X



Scale = 1/65.6

0-2-0	5-0-0	10-0-0	15-0-0	20-0-0	25-0-0	29-10-0	30-0-0
0-2-0	4-10-0	5-0-0	5-0-0	5-0-0	5-0-0	4-10-0	0-2-0

Plate Offsets (X,Y)- [2 0-4-0,0-4-8], [6 0-4-0,0-4-8], [9 0-3-12,0-2-4], [10 0-4-0,0-4-8], [12 0-4-0,0-4-8], [13 0-3-12,0-2-4]

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 35	Vert(LL)	-0 38	11	>934	240	MT20	244/190
TCDL 10 0	Lumber DOL	1 25	BC 0 77	Vert(CT)	-0 76	11	>467	180		
BCLL 0 0 *	Rep Stress Incr	YES	WB 0 85	Horz(CT)	0 98	8	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014		Matrix-MS						Weight: 229 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No 2
BOT CHORD 2x6 SP No 2
WEBS 2x4 SP No 3 *Except*
1-14,7-8 2x6 SP No 2, 4-11 2x4 SP No 1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 7-1-1 oc bracing

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=-213(LC 8)
Max Uplift 14=-265(LC 12) 8=-265(LC 13)
Max Grav 14=1182(LC 1), 8=1182(LC 1)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-14=-1160/369, 1-2=-2733/777, 2-3=-4409/1132, 3-4=-4912/944, 4-5=-4912/969,
5-6=-4409/834, 6-7=-2733/559, 7-8=-1160/285
BOT CHORD 13-14=-259/320, 12-13=-885/2844, 11 12=-1095/4357, 10-11=-708/4287, 9-10=-500/2693
WEBS 4-11=-842/4573 5-11=-278/745 5-10=-460/119, 6-10=-228/1452, 6-9=-887/212,
7-9=-402/2239, 3-11=0/639, 3-12=-460/109, 2-12=-194/1452 2-13=-887/294,
1-13=-589/2239

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp B, End , GCpl=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-9-4 zone,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
 - Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (It=lb) 14=265, 8=265

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 2,2026

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job, 4947833	Truss T06	Truss Type MONO TRUSS	Qty 3	Ply 1	OFFICE T40000960
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Builders FirstSource (Lake City,FL) Lake City, FL - 32055,

8.830 s Jan 22 2026 MiTek Industries, Inc. Mon Feb 2 06:26 05 2026 Page 1

ID NcEU5NkwwNoh9?1HTyVWxya1NI-TqUJaVXg21yh1uJbkU9JJURTC3AGw?BO3R?IzpG2W

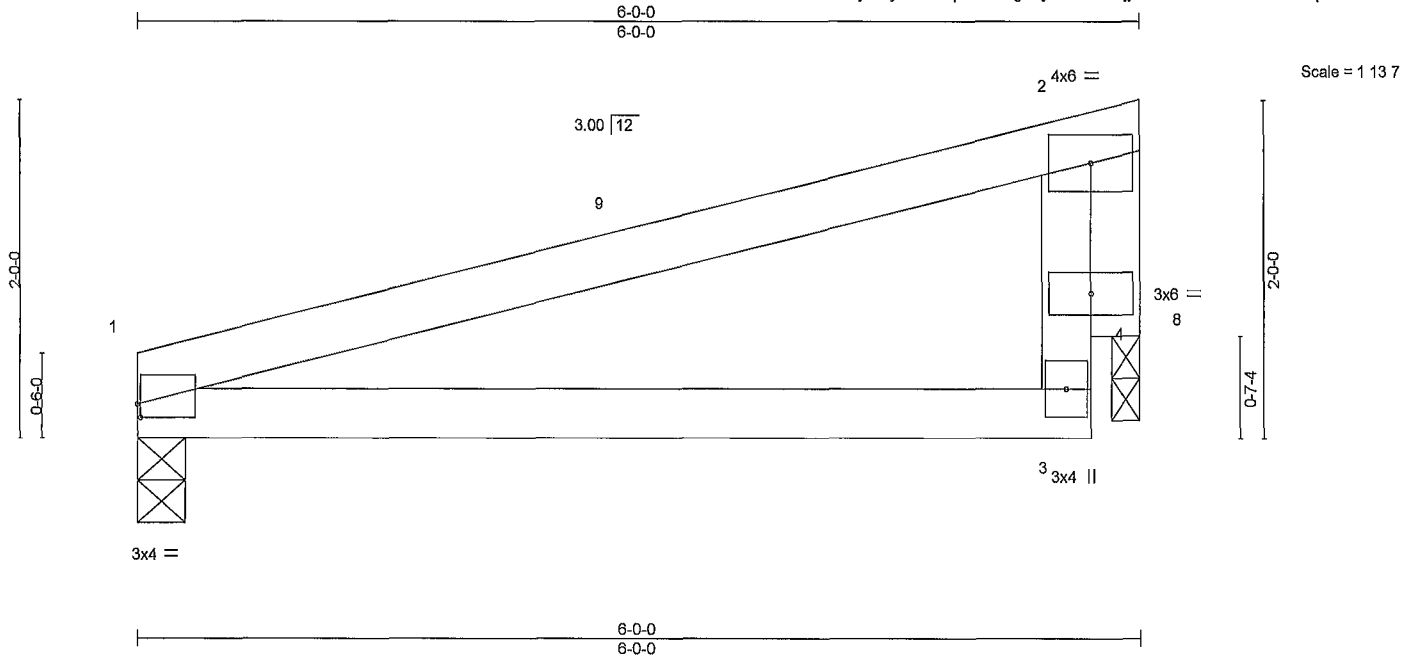


Plate Offsets (X,Y)-- [1 0-0-3,0-0-15]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	In (loc)	I/defl	L/d
TCLL 20 0	Plate Grip DOL	1 25	TC 0.42	Vert(LL)	0 04	3-7	>999
TCDL 10 0	Lumber DOL	1 25	BC 0.25	Vert(CT)	-0 04	3-7	>999
BCLL 0 0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	-0 01	1	n/a
BCDL 10 0	Code FBC2023/TPI2014		Matrix-MR				
						PLATES	GRIP
						MT20	244/190
						Weight. 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2
WEBS 2x4 SP No 3
OTHERS 2x4 SP No 3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing

REACTIONS.

(size) 1=0-3-8, 8=0-2-0
Max Horz 1=54(LC 8)
Max Uplift 1=117(LC 8), 8=120(LC 8)
Max Grav 1=236(LC 1), 8=209(LC 1)

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

TOP CHORD 1-2=-253/222
BOT CHORD 1-3=-262/215

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp B, Encl , GCpi=0.18 MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 5-6-12 zone, porch 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 20.0 psf 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) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula Building designer should verify capacity of bearing surface
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=117, 8=120

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

February 2, 2026

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

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

MiTek®

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Job -	Truss	Truss Type	Qty	Ply	OFFICE	T40000961
4947833	T06G	MONOPITCH SUPPORTED	2	1	Job Reference (optional)	

Builders FirstSource (Lake City FL) Lake City FL - 32055

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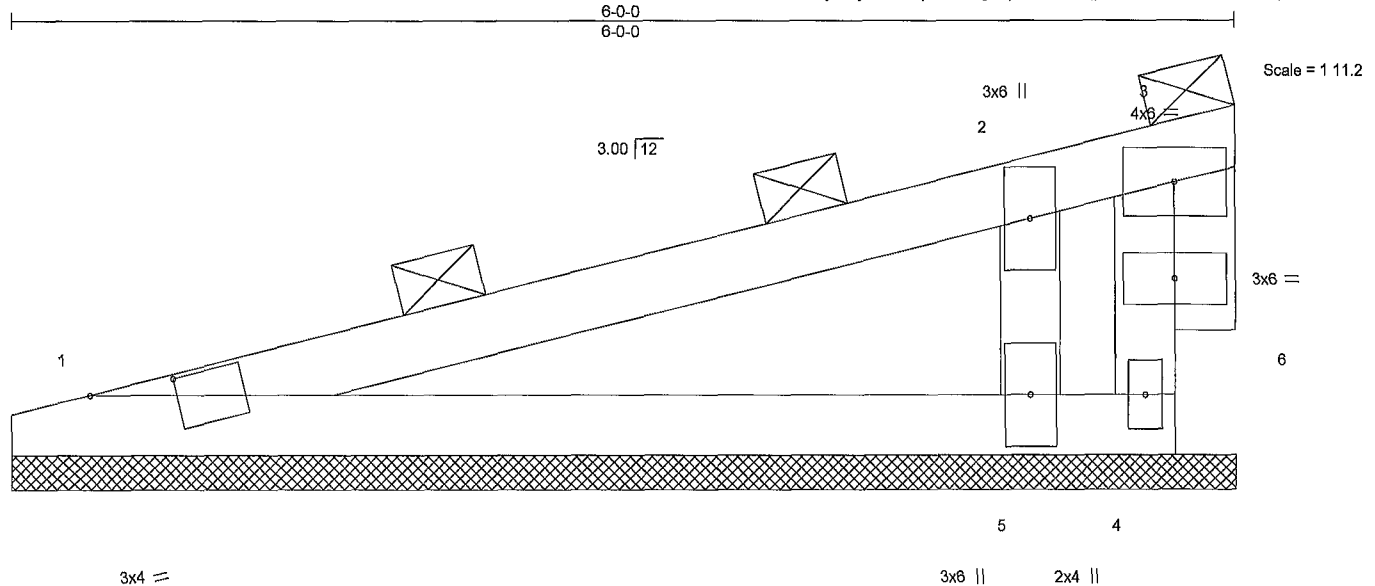


Plate Offsets (X,Y)-- [1 0-5-0,0-0-4]

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 35	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10 0	Lumber DOL	1 25	BC 0 19	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0 0 *	Rep Stress Incr	YES	WB 0 18	Horz(CT)	0 00	4	n/a	n/a	
BCDL 10 0	Code FBC2023/TPI2014		Matrix-P						
								Weight. 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2
WEBS 2x4 SP No 3
OTHERS 2x4 SP No 3

BRACING-

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

REACTIONS.

(size) 1=6-0-0, 4=6-0-0, 5=6-0-0
Max Horz 1=51(LC 8)
Max Uplift 1=-38(LC 8), 4=-252(LC 1), 5=-162(LC 8)
Max Grav 1=150(LC 1), 4=71(LC 8), 5=524(LC 1)

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

TOP CHORD 3-4=-282/174
WEBS 2-5=-378/612

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf, BCDL=3 0psf; h=20ft, Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 zone; porch 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) 1 except (Jt=lb) 4=252, 5=162
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been digitally signed and sealed by O'Regan, Philip, PE on the date indicated here Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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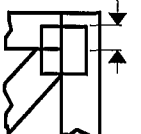
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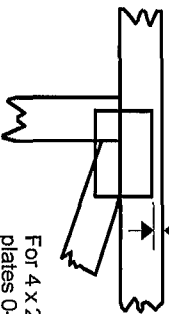
Symbols

PLATE LOCATION AND ORIENTATION

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



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



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

* Plate location details available in MITek software or upon request

PLATE SIZE

4 X 4

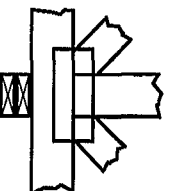
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

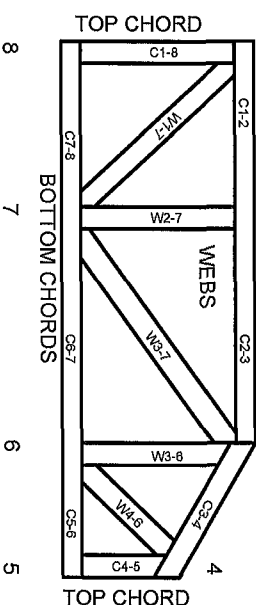
Industry Standards:

ANSI/TPI1 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 TOP CHORDS
2 JOINT ID
3 b/p



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/TPI 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 1/2/2023

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 1 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/TPI 1
- 7 Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria
- 21 The design does not take into account any dynamic or other loads other than those expressly stated