

RE: 3434903

IC CONST. - MAGNOLIA MODEL

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

Site Information:

Customer: IC CONSTRUCTION Project Name: 3434903 Lot/Block: 6 Model: Magnolia Address: TDB Subdivision: TBD

City: Columbia Cty State: FL

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 7 individual, dated 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	T29882007	T01	2/23/2023
2	T29882008	T01G	2/23/2023
3	T29882009	T02	2/23/2023
4	T29882010	T02G	2/23/2023
5	T29882011	T03	2/23/2023
6	T29882012	T04	2/23/2023
7	T29882013	T04G	2/23/2023



This item has been electronically signed and sealed by ORegan, Philip using a Digital Signature.

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The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

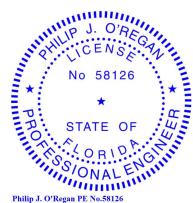
based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2025.

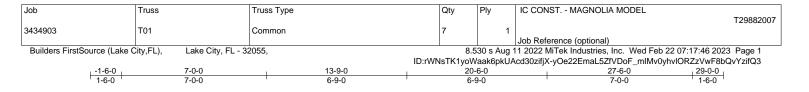
Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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 23, 2023



4x6 =

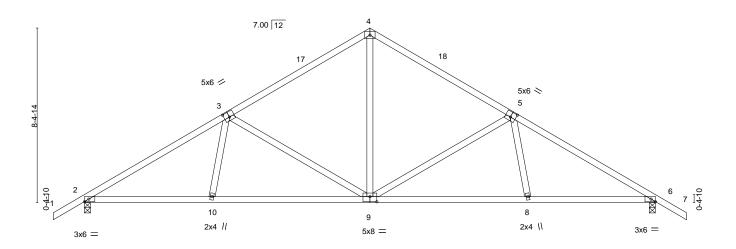


Plate Offsets (X,Y)	[3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-2-	7-7-4 3,Edge], [9:0-4-0,0-3-0]	·	7-7-4	<u> </u>	6-1-12	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	(/	defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.50	Vert(LL) -0.	08 9-10 >	999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.61	Vert(CT) -0.	18 9-10 >	999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.	.06 6	n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS				Weight: 140 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

13-9-0

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-196(LC 10) Max Uplift 2=-239(LC 12), 6=-239(LC 13) Max Grav 2=1099(LC 1), 6=1099(LC 1)

6-1-12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1656/315, 3-4=-1125/271, 4-5=-1125/271, 5-6=-1656/316 **BOT CHORD** 2-10=-300/1363, 9-10=-306/1334, 8-9=-181/1334, 6-8=-174/1363 4-9=-129/697, 5-9=-553/256, 5-8=0/289, 3-9=-553/256, 3-10=0/289 WFBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-9-0, Exterior(2R) 13-9-0 to 16-9-0, Interior(1) 16-9-0 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=239, 6=239.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Scale = 1:55.5

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

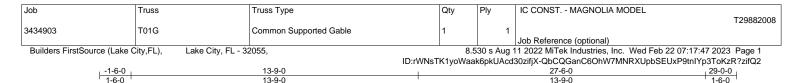


27-6-0

Structural wood sheathing directly applied or 4-2-1 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

February 23,2023



13-9-0

Scale = 1:55.2

1-6-0

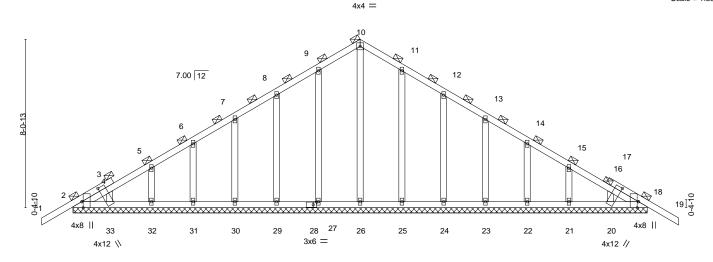


Plate Offsets (X,Y)--[2:0-3-8,Edge], [18:0-3-8,Edge], [20:0-1-15,0-11-13], [28:0-2-0,0-1-8], [33:0-1-15,0-11-13] SPACING-GRIP LOADING (psf) in (loc) I/defI L/d **PLATES** 1.25 TCLL 20.0 Plate Grip DOL TC 0.13 Vert(LL) -0.01 19 120 MT20 244/190 n/r TCDL 7.0 Lumber DOL 1.25 ВС 0.03 Vert(CT) -0.01 19 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.01 18 n/a n/a Code FBC2020/TPI2014 FT = 20% **BCDL** 10.0 Weight: 171 lb Matrix-S

BRACING-

LUMBER-

2x4 SP No.2 TOP CHORD TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

13-9-0

2x4 SP No.2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 27-6-0.

(lb) -Max Horz 2=-189(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 27, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 26, 27, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Corner(3E) -1-6-0 to 1-9-0, Exterior(2N) 1-9-0 to 13-9-0, Corner(3R) 13-9-0 to 16-9-0, Exterior(2N) 16-9-0 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 27, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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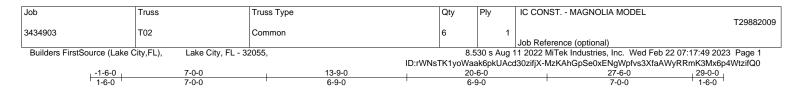


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





4x6 =

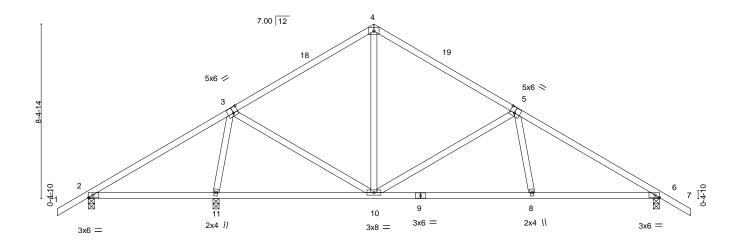


Plate Offsets (X,Y)	[3:0-2-12,0-3-4], [5:0-2-12,0-3-4], [6:0-2	-8,Edge]		
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.54	DEFL. in (loc) I/defl L/d Vert(LL) 0.09 11-14 >858 240	PLATES GRIP MT20 244/190
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.53 WB 0.68	Vert(CT) -0.13 8-10 >999 180 Horz(CT) 0.02 6 n/a n/a	25
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 140 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

(size) 2=0-3-8, 11=0-3-8, 6=0-3-8

Max Horz 2=-196(LC 10)

Max Uplift 2=-63(LC 12), 11=-226(LC 12), 6=-211(LC 13) Max Grav 2=260(LC 23), 11=1138(LC 1), 6=845(LC 1)

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

TOP CHORD 2-3=-51/266, 3-4=-626/211, 4-5=-625/198, 5-6=-1167/261

6-1-12

BOT CHORD 8-10=-127/911, 6-8=-121/942

4-10=-73/303, 5-10=-562/257, 5-8=0/295, 3-10=-14/444, 3-11=-982/254 WFBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-9-0, Exterior(2R) 13-9-0 to 16-9-0, Interior(1) 16-9-0 to 29-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=226, 6=211.

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Scale = 1:55.5

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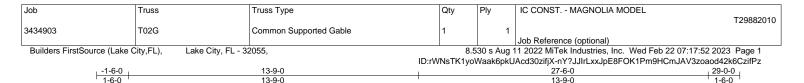


27-6-0

Structural wood sheathing directly applied or 4-11-14 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

16023 Swingley Ridge Rd Chesterfield, MO 63017



13-9-0

Scale = 1:54.6

1-6-0

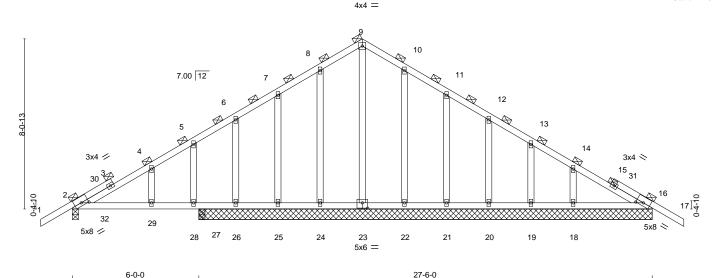


Plate Offsets (X,Y)--[2:0-4-1,0-1-12], [16:0-4-1,0-1-12], [23:0-3-0,0-3-0] SPACING-GRIP LOADING (psf) 2-0-0 DEFL. in (loc) I/defI L/d **PLATES** 1.25 TCLL 20.0 Plate Grip DOL TC 0.25 Vert(LL) 0.06 2-29 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 ВС 0.34 Vert(CT) -0.06 2-29 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.01 16 n/a n/a Code FBC2020/TPI2014 FT = 20% **BCDL** 10.0 Weight: 170 lb Matrix-S

BRACING-LUMBER-

13-9-0

TOP CHORD 2x4 SP No.2 TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

2x4 SP No.2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 21-6-0 except (jt=length) 2=0-3-8, 27=0-3-8.

Max Horz 26=-189(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 22, 21, 20, 19, 18 except 27=-181(LC 12) All reactions 250 lb or less at joint(s) 16, 23, 24, 25, 26, 22, 21, 20, 19, 18 except 2=265(LC 23), Max Grav

27=460(LC 23)

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

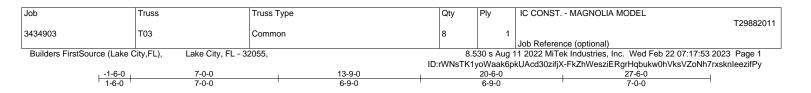
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 13-9-0, Corner(3R) 13-9-0 to 16-9-0, Exterior(2N) 16-9-0 to 29-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 22, 21, 20, 19, 18 except (jt=lb) 27=181.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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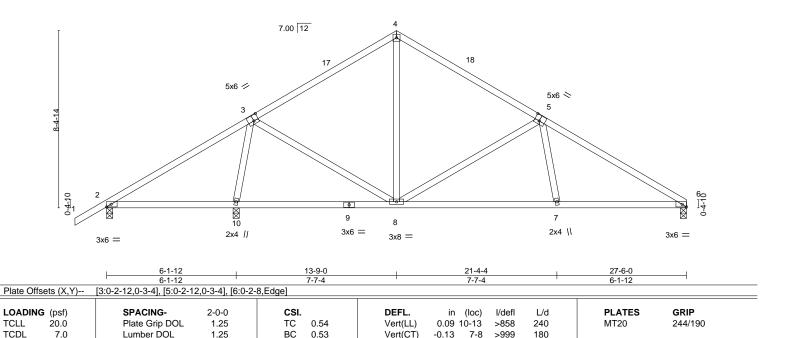
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

February 23,2023





4x4 =



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.02

6

n/a

n/a

Rigid ceiling directly applied or 6-0-0 oc bracing.

Structural wood sheathing directly applied or 4-11-2 oc purlins.

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

WEBS 2x4 SP No.3

(size) 2=0-3-8, 10=0-3-8, 6=0-3-8

Rep Stress Incr

Code FBC2020/TPI2014

Max Horz 2=189(LC 11)

Max Uplift 2=-60(LC 12), 10=-231(LC 12), 6=-175(LC 13) Max Grav 2=261(LC 23), 10=1141(LC 1), 6=761(LC 1)

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

2-3=-58/260, 3-4=-629/209, 4-5=-628/194, 5-6=-1182/265 TOP CHORD

BOT CHORD 7-8=-156/925, 6-7=-152/957

4-8=-71/304, 5-8=-574/264, 5-7=0/297, 3-8=-23/447, 3-10=-984/259 WFBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-9-0, Exterior(2R) 13-9-0 to 16-9-0, Interior(1) 16-9-0 to 27-6-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.69

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=231, 6=175.

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FT = 20%

Weight: 137 lb

Scale = 1:54.6

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February 23,2023



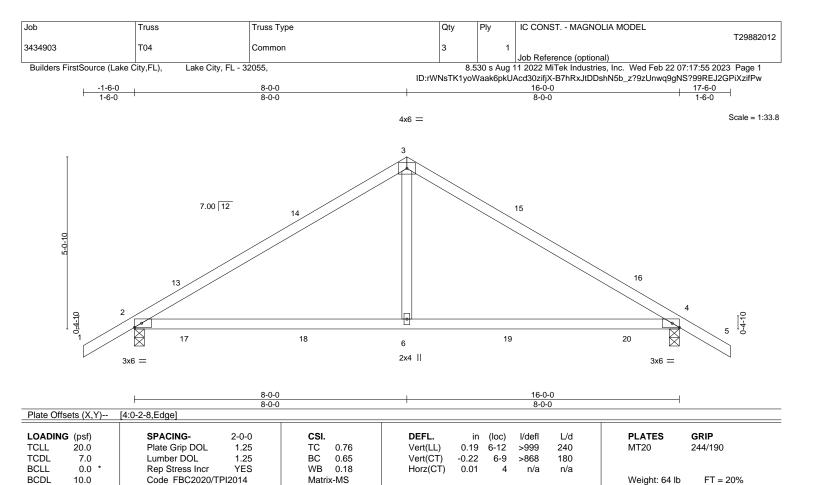
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16023 Swingley Ridge Rd Chesterfield, MO 63017



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-122(LC 10)

Max Uplift 2=-153(LC 12), 4=-153(LC 13) Max Grav 2=673(LC 1), 4=673(LC 1)

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

TOP CHORD 2-3=-763/610, 3-4=-763/610 **BOT CHORD** 2-6=-420/572, 4-6=-420/572

WFBS 3-6=-406/371

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 17-6-0 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=153, 4=153.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. 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 23,2023



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

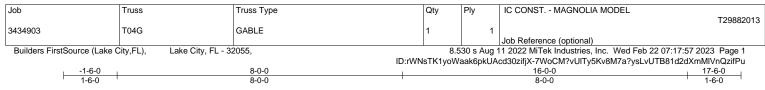
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 4-6-12 oc purlins.

Rigid ceiling directly applied or 8-1-14 oc bracing.



Scale: 3/8"=1

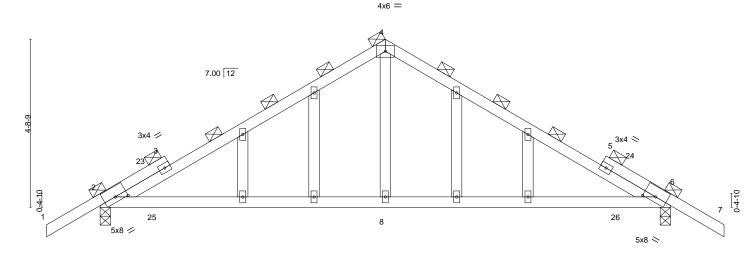


Plate Offsets (X,) [2:0-4-1,0-1-12], [6:0-4-1,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (Ic	oc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.80	Vert(LL) 0.26 8-	-22 >733 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.68	Vert(CT) -0.25 8-	-19 >741 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.02	2 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 82 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

16-0-0

2-0-0 oc purlins (4-4-5 max.).

Rigid ceiling directly applied or 6-6-5 oc bracing.

LUMBER-

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

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-115(LC 10)

Max Uplift 2=-155(LC 12), 6=-155(LC 13) Max Grav 2=670(LC 1), 6=670(LC 1)

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

TOP CHORD 2-4=-751/817, 4-6=-751/817 BOT CHORD 2-8=-589/599, 6-8=-589/599

WEBS 4-8=-518/369

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 8-0-0, Corner(3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 17-6-0 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

8-0-0

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=155 6=155
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



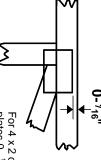
16023 Swingley Ridge Rd Chesterfield, MO 63017

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 20/20 software or upon request.

PLATE SIZE



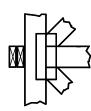
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



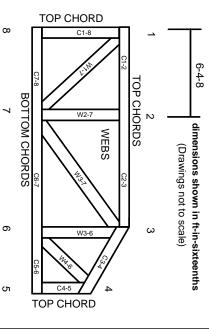
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.