



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

RE: W1205 - VAZQUEZ RES

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

Site Information:

Customer Info: VAZQUEZ RES Project Name: 000 Model: 000
Lot/Block: 000 Subdivision: 000
Address: 000, 000
City: 000 State: 000

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: FRC2020/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-16 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 7 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.

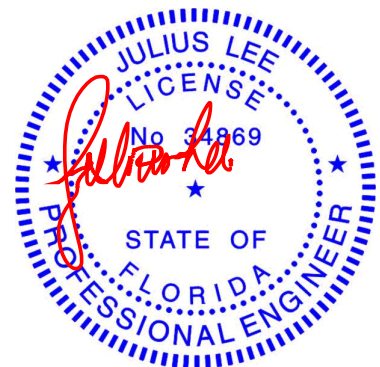
No.	Seal#	Truss Name	Date
1	T31386778	T1	8/23/23
2	T31386779	T2	8/23/23
3	T31386780	T3	8/23/23
4	T31386781	T4	8/23/23
5	T31386782	T5	8/23/23
6	T31386783	T6	8/23/23
7	T31386784	T7	8/23/23



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

Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2025.

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



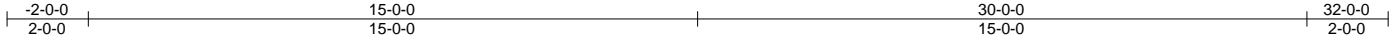
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 23, 2023

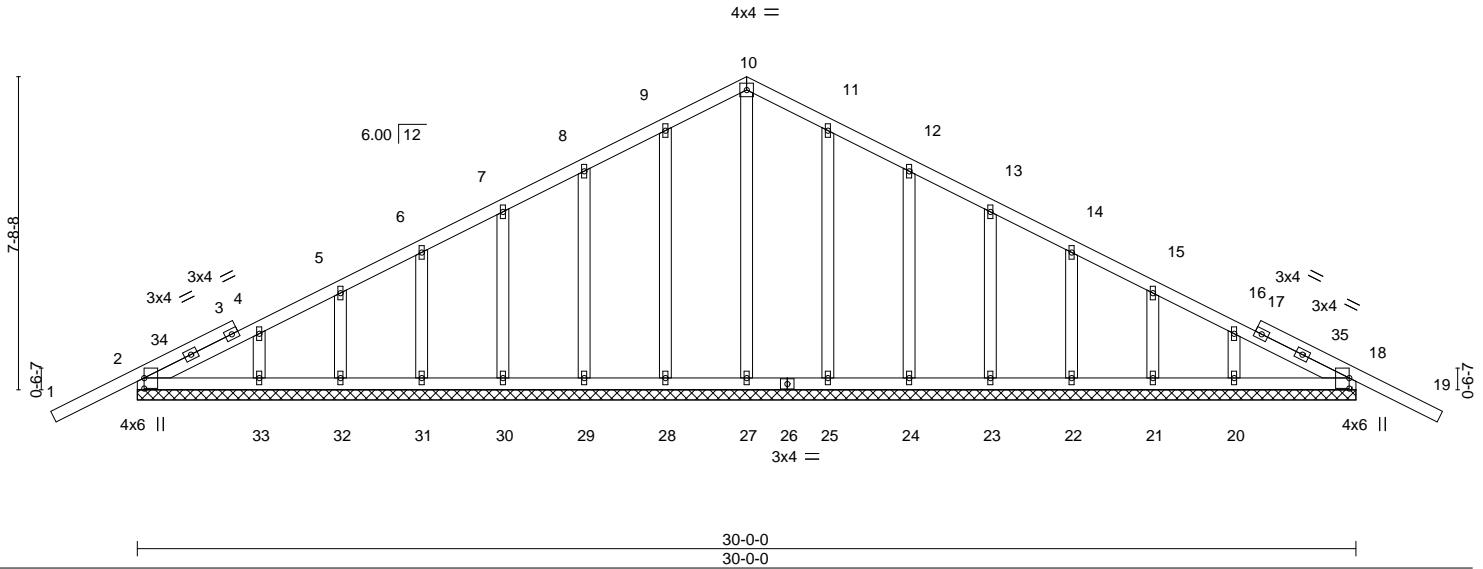
Job	Truss	Truss Type	Qty	Ply	VAZQUEZ RES	T31386778
W1205	T1	Common Supported Gable	2	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.720 s Aug 11 2023 MiTek Industries, Inc. Wed Aug 23 06:41:29 2023 Page 1
ID:r5HgtkxzVXKkdiA25y1XHyl2ou-KN7eaXk1IN8NEzCbAzbrkWxhbFVx_CHBH54kpFyl2IK



Scale = 1:56.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.02 19 n/r 120	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.03 19 n/r 120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01 18 n/a n/a				
BCDL	10.0	Code	FRC2020/TPI2014	Matrix-S							
								Weight: 185 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

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.

- All bearings 30-0-0.
(lb) - Max Horz 2=239(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 except
2=195(LC 12), 18=195(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 except
2=257(LC 1), 18=257(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=103/300, 9-10=128/370, 10-11=128/370, 11-12=103/300

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -2-0-13 to 0-11-3, Exterior(2N) 0-11-3 to 15-0-0, Corner(3R) 15-0-0 to 18-0-0, Exterior(2N) 18-0-0 to 32-0-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20 except (jt=lb) 2=195, 18=195.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 23, 2023

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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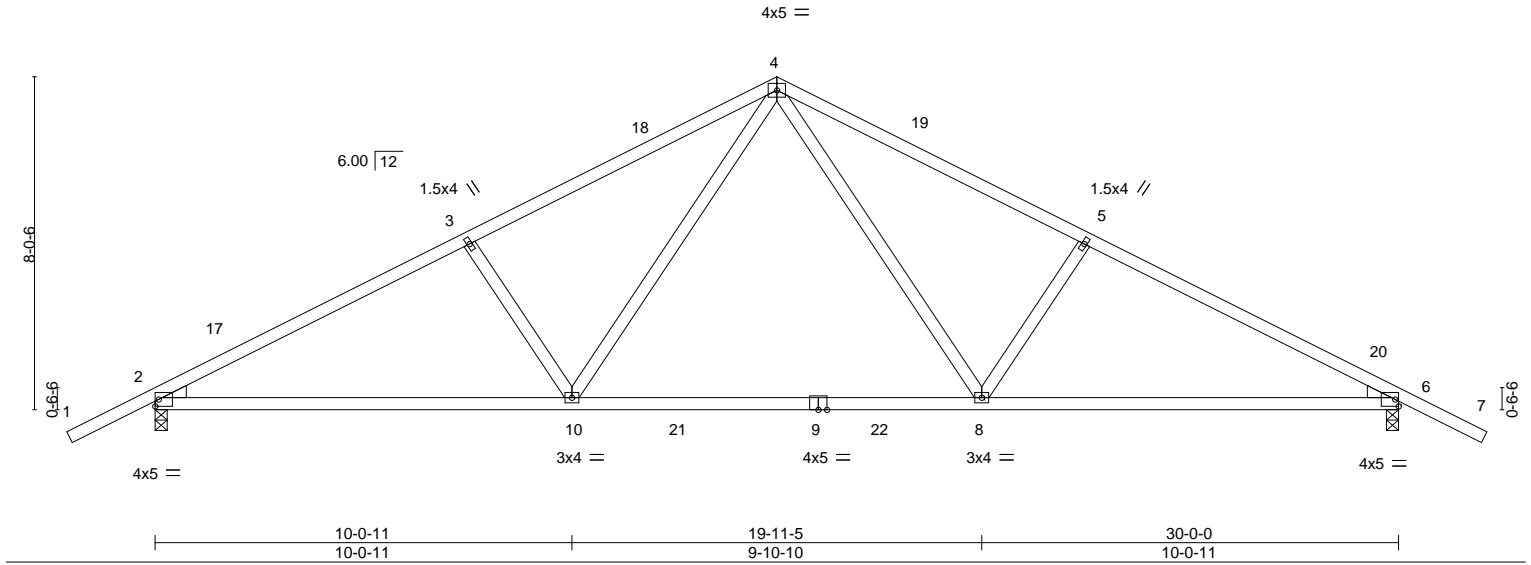
Job	Truss	Truss Type	Qty	Ply	VAZQUEZ RES	T31386779
W1205	T2	Common	18	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.720 s Aug 11 2023 MiTek Industries, Inc. Wed Aug 23 06:41:31 2023 Page 1
ID:r5HgtkxzVXKKdiA25y1XHYyl2ou-HmFP?DmHH_O5UHM_IOdJpx1zr2y5S4OUkPZru8yl2ll



Scale = 1:55.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.98	Vert(LL) -0.33 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.37	Vert(CT) -0.49 8-10 >730 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 6 n/a n/a		
	Code FRC2020/TPI2014			Weight: 143 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=-249(LC 10)
Max Uplift 2=-538(LC 12), 6=-538(LC 12)
Max Grav 2=1365(LC 17), 6=1365(LC 18)

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

TOP CHORD 2-3=-2088/764, 3-4=-1901/753, 4-5=-1901/753, 5-6=-2088/764
BOT CHORD 2-10=-506/1971, 8-10=-221/1280, 6-8=-541/1801
WEBS 4-8=-224/874, 5-8=-407/369, 4-10=-224/874, 3-10=-407/369

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 32-0-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=538, 6=538.



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Date:

August 23,2023

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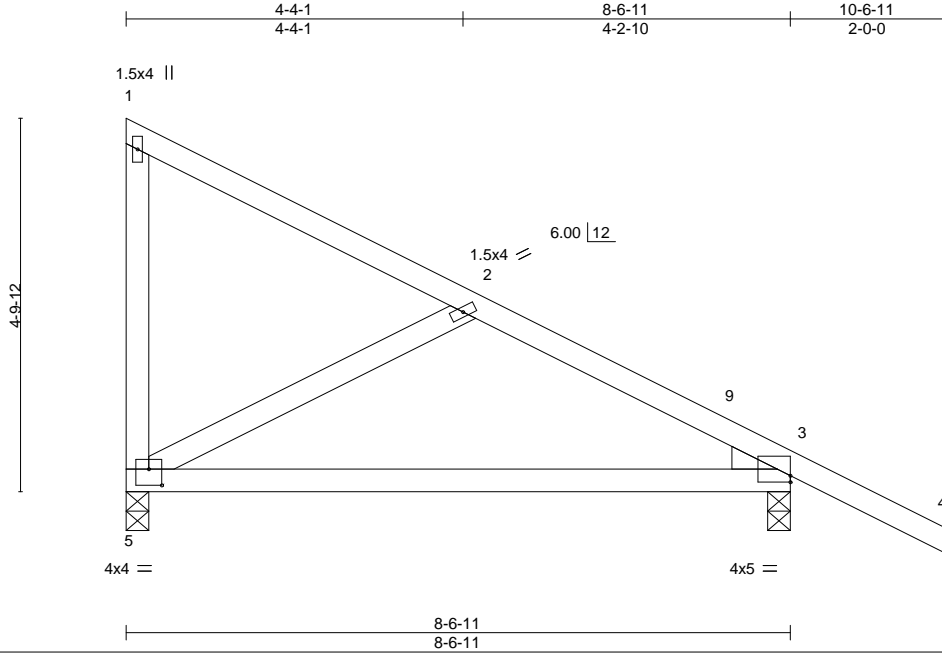
MiTek®

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	VAZQUEZ RES	T31386780
W1205	T3	Roof Special	1	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.720 s Aug 11 2023 MiTek Industries, Inc. Wed Aug 23 06:41:32 2023 Page 1
ID:r5HgtkxzVXKkdiA25y1XHYyl2ou-lyonCYnv2lWY5RxAs68YM9Z97SOMBaedz3lOQayl2IH



Scale = 1:29.7

Plate Offsets (X,Y)--		[3:0-0-0,0-1-0], [5:0-2-0,0-2-8]											
LOADING	(psf)	SPACING-		CSL		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.15	5-8	>689	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.29	5-8	>352	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.01	3	n/a	n/a			
BCDL	10.0	Code	FRC2020/TPI2014	Matrix-MP							Weight: 44 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3
WEDGE
Right: 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.

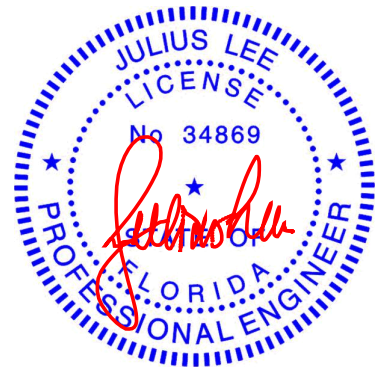
(size) 3=0-3-8, 5=0-3-8
Max Horz 5=-277(LC 10)
Max Uplift 3=-252(LC 12), 5=-117(LC 8)
Max Grav 3=436(LC 1), 5=313(LC 18)

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

TOP CHORD 2-3=-344/252
BOT CHORD 3-5=-1/301
WEBS 2-5=-386/450

NOTES-

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-6-1, Interior(1) 4-6-1 to 10-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 3=252, 5=117.



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Date:

August 23,2023

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Job	Truss	Truss Type	Qty	Ply	VAZQUEZ RES	T31386781
W1205	T4	GABLE	2	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL 34433

8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Aug 23 13:12:30 2023 Page 1
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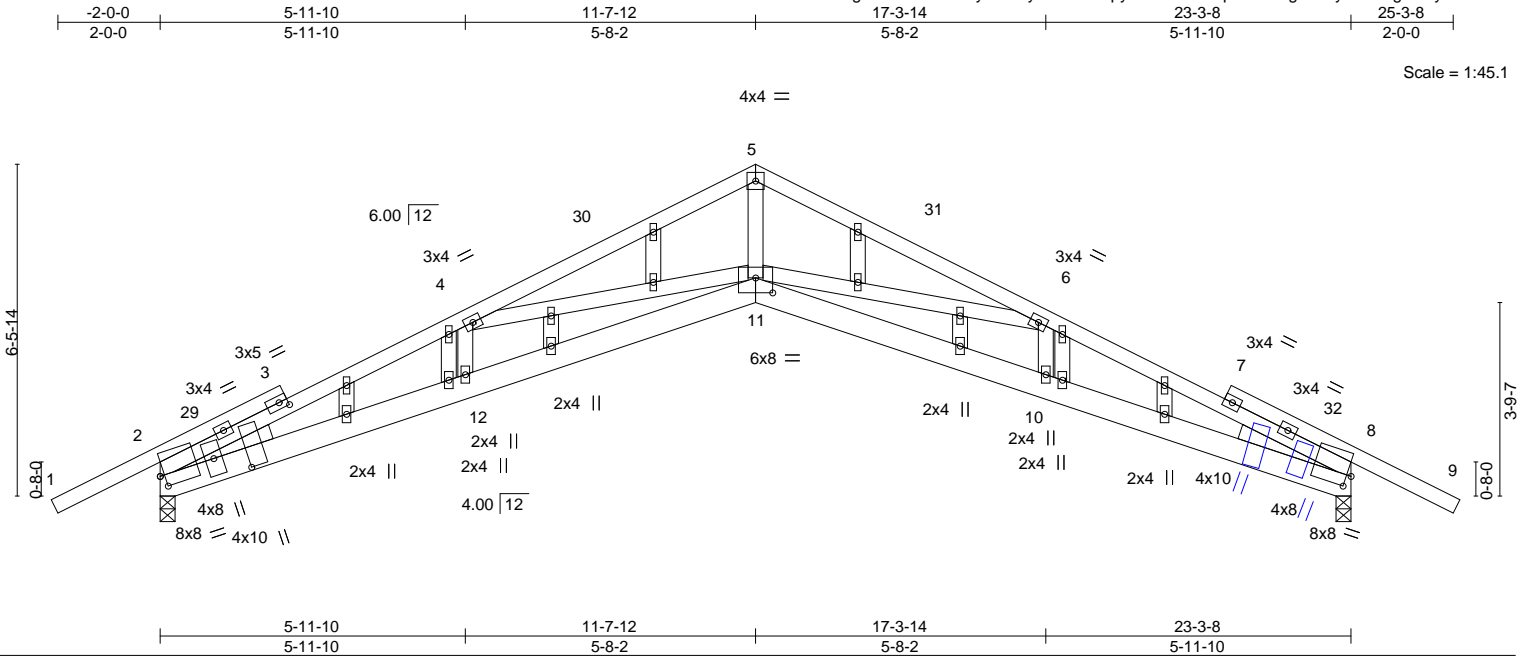


Plate Offsets (X,Y)--		5-11-10		11-7-12		17-3-14		23-3-8	
		5-11-10		5-8-2		5-8-2		5-11-10	
[2:0-1-1,0-2-12], [2:0-4-12,1-9-1], [3:0-2-0,0-1-8], [8:0-1-1,0-2-12], [11:0-4-0,0-3-8]									
LOADING (psf)	SPACING-	2-0-0		CSI.		DEFL.		PLATES	
TCLL 20.0	Plate Grip DOL	1.25		TC 0.85		in (loc) l/defl L/d		MT20 244/190	
TCDL 7.0	Lumber DOL	1.25		BC 0.89		Vert(LL) -0.23 10-11 >999 240			
BCLL 0.0 *	Rep Stress Incr	YES		WB 0.71		Vert(CT) -0.44 10-11 >639 180			
BCDL 10.0	Code FRC2020/TPI2014			Matrix-S		Horz(CT) 0.32 8 n/a n/a		Weight: 151 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2D
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
1-3,7-9: 2x4 SP No.1
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-5-13 oc bracing.

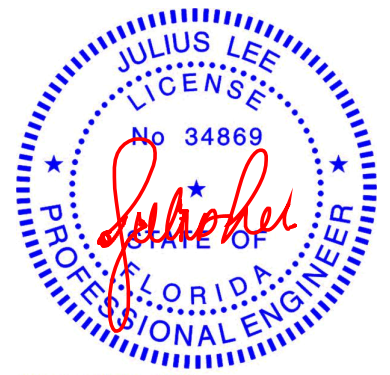
REACTIONS. (lb/size) 2=938/0-3-8 (min. 0-1-8), 8=946/0-3-8 (min. 0-1-8)
Max Horz 2=182(LC 11)
Max Uplift 2=460(LC 12), 8=474(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-29=3124/1245, 3-29=3069/1251, 3-4=3071/1266, 4-30=2506/905, 5-30=2431/916,
5-31=2427/901, 6-31=2478/889, 6-7=2877/1201, 7-32=2875/1188, 8-32=2946/1180
BOT CHORD 2-12=1052/2858, 11-12=1087/2941, 10-11=997/2675, 8-10=976/2634
WEBS 5-11=525/1862, 6-11=491/414, 4-11=708/514

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 11-7-12, Exterior(2R) 11-7-12 to 14-7-12, Interior(1) 14-7-12 to 25-4-5 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 1.5x4 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 will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 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 460 lb uplift at joint 2 and 474 lb uplift at joint 8.

LOAD CASE(S) Standard



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August 23,2023

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Job	Truss	Truss Type	Qty	Ply	VAZQUEZ RES	T31386782
W1205	T5	Scissor	10	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.720 s Aug 11 2023 MiTek Industries, Inc. Wed Aug 23 06:41:34 2023 Page 1
ID:r5HgtkxzVXXKdiA25y1XHYyl2ou-hLwXdEoAZvmgLI5ZzWA0RafXJG5efLKwQNNVUTyl2lF



Scale = 1:47.3

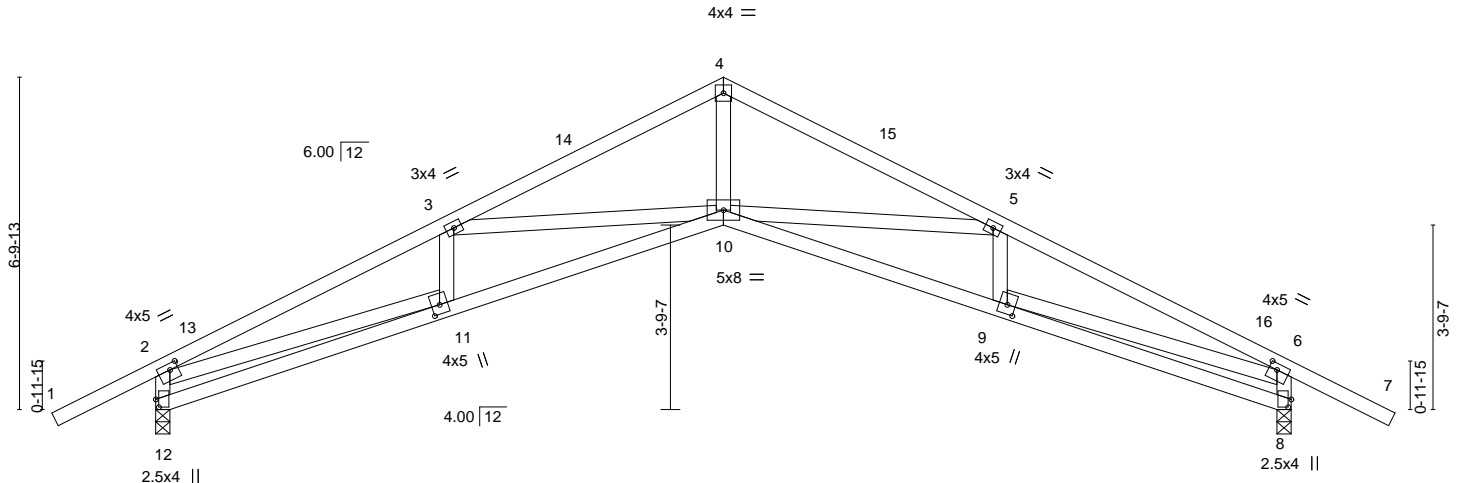


Plate Offsets (X,Y)--	5-11-10	11-7-12	17-3-14	23-3-8
	5-11-10	5-8-2	5-8-2	5-11-10

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.54	Vert(LL) -0.17 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.74	Vert(CT) -0.33 9-10 >831 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.25 8 n/a n/a		
	Code FRC2020/TPI2014			Weight: 126 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-4 oc bracing.

REACTIONS.

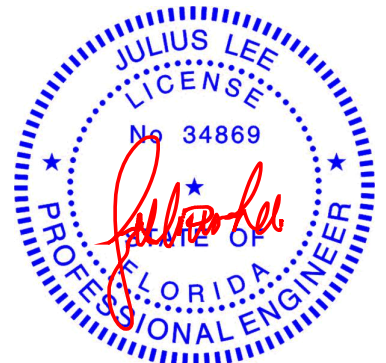
(size) 12=0-3-8, 8=0-3-8
Max Horz 12=229(LC 11)
Max Uplift 12=-452(LC 12), 8=-452(LC 12)
Max Grav 12=970(LC 1), 8=970(LC 1)

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

TOP CHORD 2-3=-2415/1013, 3-4=-2078/766, 4-5=-2078/780, 5-6=-2415/964, 2-12=-964/603, 6-8=-964/617
BOT CHORD 11-12=-134/383, 10-11=-806/2230, 9-10=-722/2214, 8-9=-47/264
WEBS 4-10=-412/1494, 5-10=-420/392, 3-10=-419/378, 2-11=-711/1937, 6-9=-754/1937

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 11-7-12, Exterior(2R) 11-7-12 to 14-7-12, Interior(1) 14-7-12 to 25-4-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 12, 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) 12=452, 8=452.



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

August 23, 2023

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)

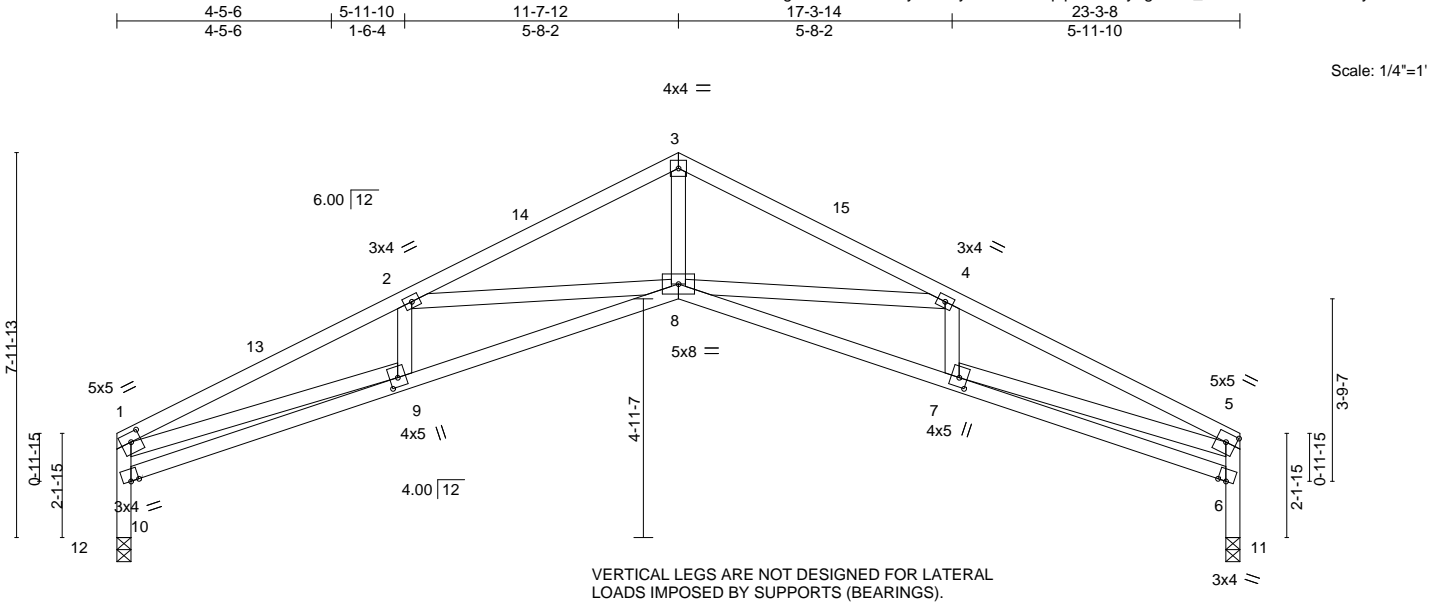
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Job	Truss	Truss Type	Qty	Ply	VAZQUEZ RES	T31386783
W1205	T6	Roof Special	4	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.720 s Aug 11 2023 MiTek Industries, Inc. Wed Aug 23 06:41:35 2023 Page 1
ID:r5HgtkxzVXKkdiA25y1XHYyl2ou-9XUvqapoKDuXyuglXEIf_nBZxfRYOoJ3f1X21vyI2IE



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

Plate Offsets (X,Y)--		[1:0-2-8,0-2-4], [5:0-2-8,0-2-4], [6:0-2-1,Edge], [7:0-2-4,0-2-0], [9:0-2-4,0-2-0], [10:0-2-1,Edge]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.18 7-8 >999 240	MT20	GRIP 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.34 7-8 >801 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.33 11 n/a n/a		
BCDL	10.0	Code	FRC2020/TPI2014	Matrix-MS				Weight: 123 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-8 oc bracing.

REACTIONS.

(size) 11=0-3-8, 12=0-3-8
Max Horz 12=-267(LC 10)
Max Uplift 11=-312(LC 12), 12=-312(LC 12)
Max Grav 11=851(LC 1), 12=851(LC 1)

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

TOP CHORD 1-2=-2503/1397, 2-3=-2132/1128, 3-4=-2132/1143, 4-5=-2503/1304, 6-11=-851/416,
5-6=-858/514, 10-12=-851/429, 1-10=-890/589
BOT CHORD 9-10=-597/726, 8-9=-1344/2389, 7-8=-1233/2306, 6-7=-247/341
WEBS 3-8=-744/1552, 4-8=-475/422, 5-7=-955/1980, 1-9=-867/1980, 2-8=-462/405

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 3-7-12 to 6-7-12, Interior(1) 6-7-12 to 15-1-12, Exterior(2R) 15-1-12 to 18-1-12, Interior(1) 18-1-12 to 26-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 12 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) 11=312, 12=312.



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

August 23,2023

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)

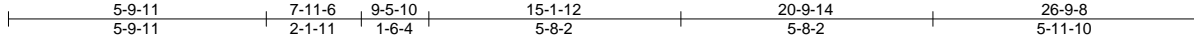
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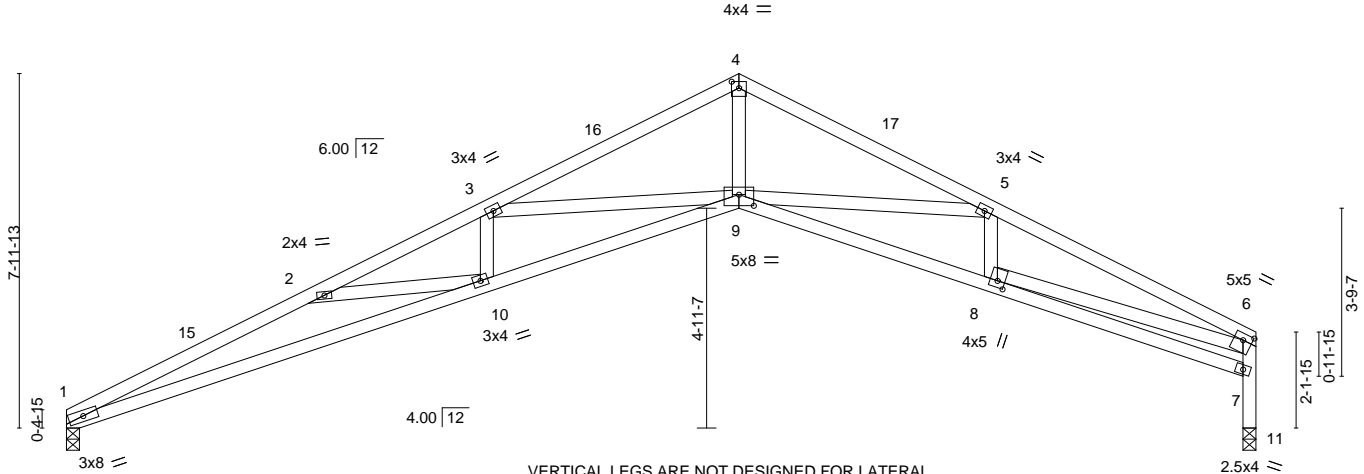
Job	Truss	Truss Type	Qty	Ply	VAZQUEZ RES	T31386784
W1205	T7	Roof Special	10	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.720 s Aug 11 2023 MiTek Industries, Inc. Wed Aug 23 06:41:36 2023 Page 1
ID:r5HgtkxzVXKkdiA25y1XHYyl2ou-dk2l2wqQ5W0Na2F5x5DUW?kpk3j27C4DuhGcZLyl2ID



Scale = 1:51.9



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



Plate Offsets (X,Y)-- [4:0-2-0,0-1-12], [6:0-2-8,0-1-12], [8:0-1-12,0-2-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	0.45	9-10	>712	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.74	9-10	>431	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.61	11	n/a	n/a	
BCDL 10.0	Code FRC2020/TPI2014		Matrix-MS						
								Weight: 129 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D *Except*
1-9: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-2 oc bracing.

REACTIONS.

(size) 1=0-3-8, 11=0-3-8
Max Horz 1=276(LC 11)
Max Uplift 1=361(LC 12), 11=362(LC 2R)
Max Grav 1=986(LC 1), 11=986(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4214/2090, 2-3=-3890/1852, 3-4=-2770/1323, 4-5=-2770/1343, 5-6=-2990/1408,
7-11=-986/436, 6-7=-998/534
BOT CHORD 1-10=-2077/3901, 9-10=-1790/3674, 8-9=-1335/2761, 7-8=-246/355
WEBS 4-9=-926/2120, 5-9=-383/322, 6-8=-1054/2399, 3-10=0/305, 2-10=-274/361,
3-9=-1103/630

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Encl., GCPC=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-1-12, Exterior(2R) 15-1-12 to 18-1-12, Interior(1) 18-1-12 to 26-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 100 lb uplift at joint(s) except (jt=lb) 1=361, 11=362.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 23,2023

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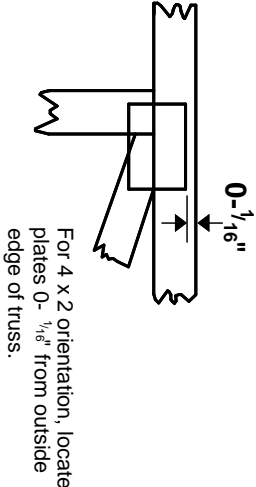
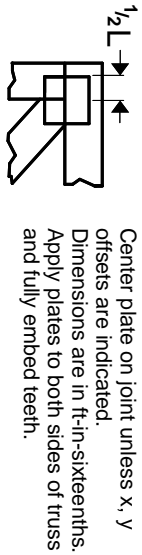
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

PLATE LOCATION AND ORIENTATION



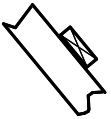
—
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

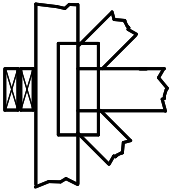
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

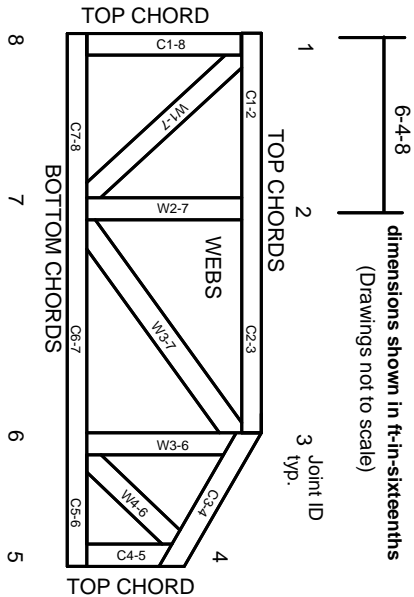
BEARING



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: 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



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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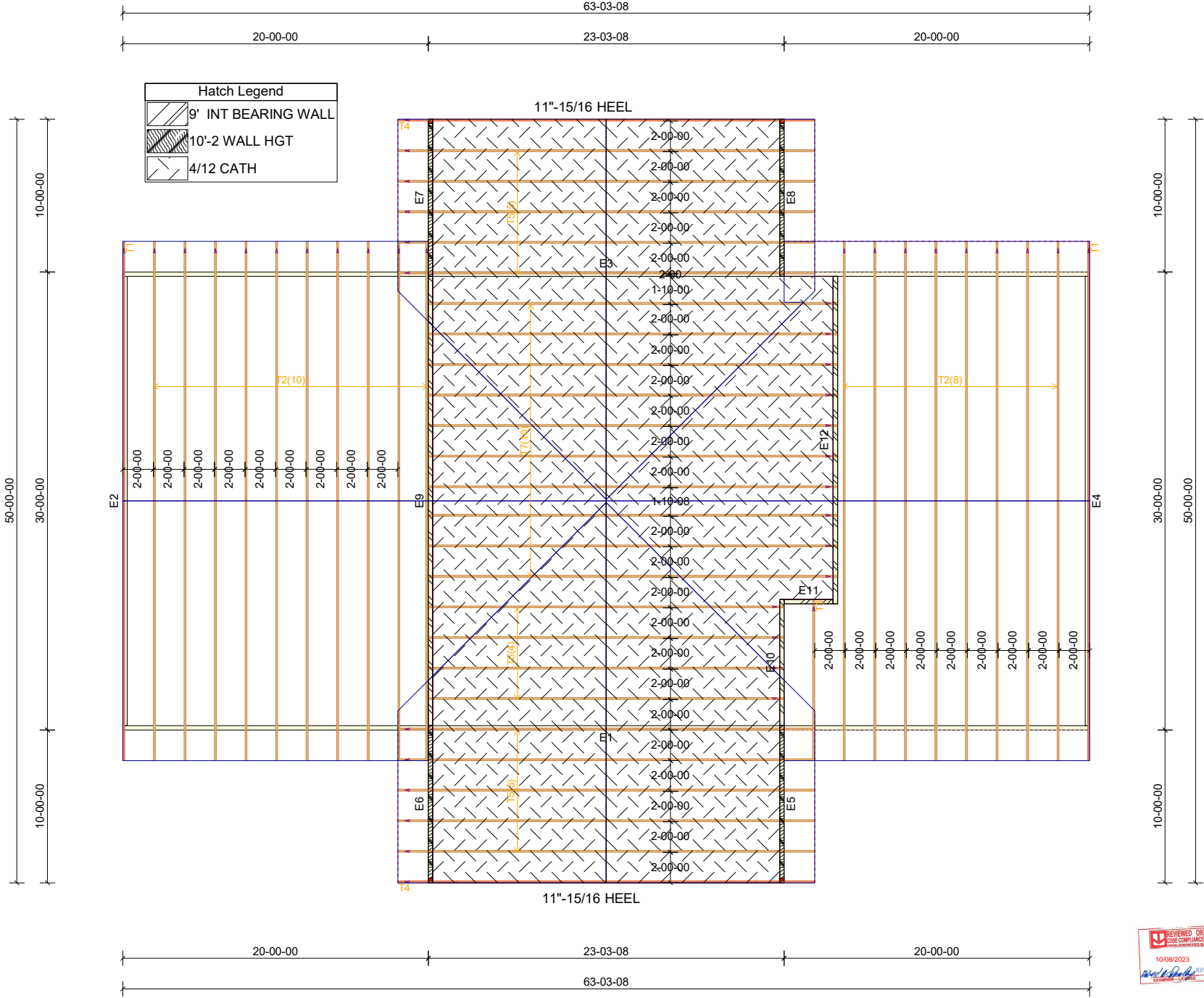


MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

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 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.



PRODUCT APPROVAL NUMBER
FL-2197.4
MT20 PLATES
MITEK INDUSTRIES, INC.

Pitch: ---
Overhang: ---

Customer: 84 LUMBER
Description: VAZQUEZ RES
Designer: Ryan Sherman

JOB NO.
W1205

Quote # W1205
Order #



Duley Truss, Inc.
P.O. Box 340 Dunnellon, FL 34430
Office: (352) 465-0964
Fax: (352) 465-0463
duleytruss@bellsouth.net

Mailing Address:

84 LUMBER	Contact: Glenda Dampier
	Phone: (352)
Phone: (866) 755-7754	Email: gddampier@aol.com
Fax:	

Job Delivery Address:

Name: VAZQUEZ RES
Address: FORT WHITE,

P.O. Number:
Designer: Ryan Sherman

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Quote # W1205	Order #	Printed: 08/23/23		
Bldg Code: FRC2020/TPI2014	Wind Des Method	Exposure Cat	Occupancy Cat	Velocity / TC Dead / BC Dead
Bldg Cat: Residential		C	II	140.000 / 4.200 / 6.000

ROOF TRUSSES				LOADING INFORMATION		TCLL-TCDL-BCLL-BCDL		STRESS INCR.		ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)					
PROFILE	QTY	TOP	ID	BASE	TOP	LEFT OH									
PLY	BOT		O/A	BOT	RIGHT OH										
	2	6.00	T1	30-00-00	2 X 4	02-00-00	Jt	2	33	32	31	30	29		
		0.00		30-00-00	2 X 4	02-00-00	High	257.3	164.9	149.9	153.4	152.7	150.9		
							Low	-195.3	-31.9	-92.8	-74.5	-78.1	-81.8		
							Loc-X	00-00-00	03-00-00	05-00-00	07-00-00	09-00-00	11-00-00		
							Loc-Y	00-01-12	00-01-12	00-01-12	00-01-12	00-01-12	00-01-12		
	18	6.00	T2	30-00-00	2 X 4	02-00-00	Jt	2	6						
		0.00		30-00-00	2 X 4	02-00-00	High	1,365.4	1,365.4						
							Low	-537.9	-537.9						
							Loc-X	00-00-00	30-00-00						
							Loc-Y	00-04-07	00-04-07						
	1	-6.00	T3	08-06-11	2 X 4		Jt	5	3						
		0.00		08-06-11	2 X 4	02-00-00	High	313.2	436.4						
							Low	-116.6	-252.0						
							Loc-X	00-01-12	08-06-11						
							Loc-Y	00-01-12	00-04-07						
	2	6.00	T4	23-03-08	2 X 4	02-00-00	Jt	1	6						
		4.00		23-03-08	2 X 6	02-00-00	High	853.9	853.9						
							Low	-310.4	-310.4						
							Loc-X	00-00-00	23-03-08						
							Loc-Y	00-01-12	00-01-12						
	10	6.00	T5	23-03-08	2 X 4	02-00-00	Jt	12	8						
		4.00		23-03-08	2 X 4	02-00-00	High	970.3	970.3						
							Low	-452.2	-452.2						
							Loc-X	00-01-12	23-01-12						
							Loc-Y	00-01-04	00-01-04						
	4	6.00	T6	26-09-08	2 X 4		Jt	12	11						
		4.00		23-03-08	2 X 4		High	851.0	851.0						
							Low	-312.1	-312.1						
							Loc-X	03-07-12	26-07-12						
							Loc-Y	00-00-00	00-00-00						
	10	6.00	T7	26-09-08	2 X 4		Jt	1	11						
		4.00		26-09-08	2 X 4		High	985.8	985.8						
							Low	-360.9	-362.3						
							Loc-X	00-00-00	26-07-12						
							Loc-Y	00-03-00	00-00-00						

