



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

RE: X0080 - CANNON RES/CASON BUILDERS

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: 84 LUMBER/CASON BUILDERS Project Name: CANNON Model:
Lot/Block: . Subdivision: .
Address: ., .
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: FRC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 15 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.

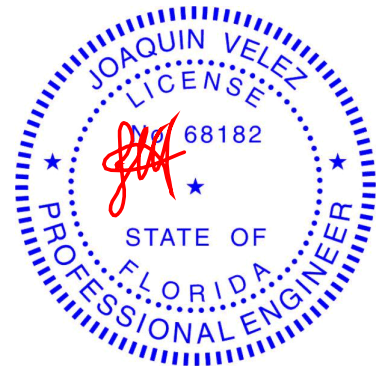
No.	Seal#	Truss Name	Date
1	T32672973	CJ5	1/19/24
2	T32672974	CJ7	1/19/24
3	T32672975	EJ5	1/19/24
4	T32672976	EJ7	1/19/24
5	T32672977	SJ1	1/19/24
6	T32672978	SJ3	1/19/24
7	T32672979	SJ3L	1/19/24
8	T32672980	SJ5	1/19/24
9	T32672981	T1	1/19/24
10	T32672982	T2	1/19/24
11	T32672983	T3	1/19/24
12	T32672984	T4	1/19/24
13	T32672985	T5	1/19/24
14	T32672986	T6	1/19/24
15	T32672987	T7	1/19/24

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: Velez, Joaquin

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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19,2024

Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS	T32672973
X0080	CJ5	Diagonal Hip Girder	2	1	Job Reference (optional)	

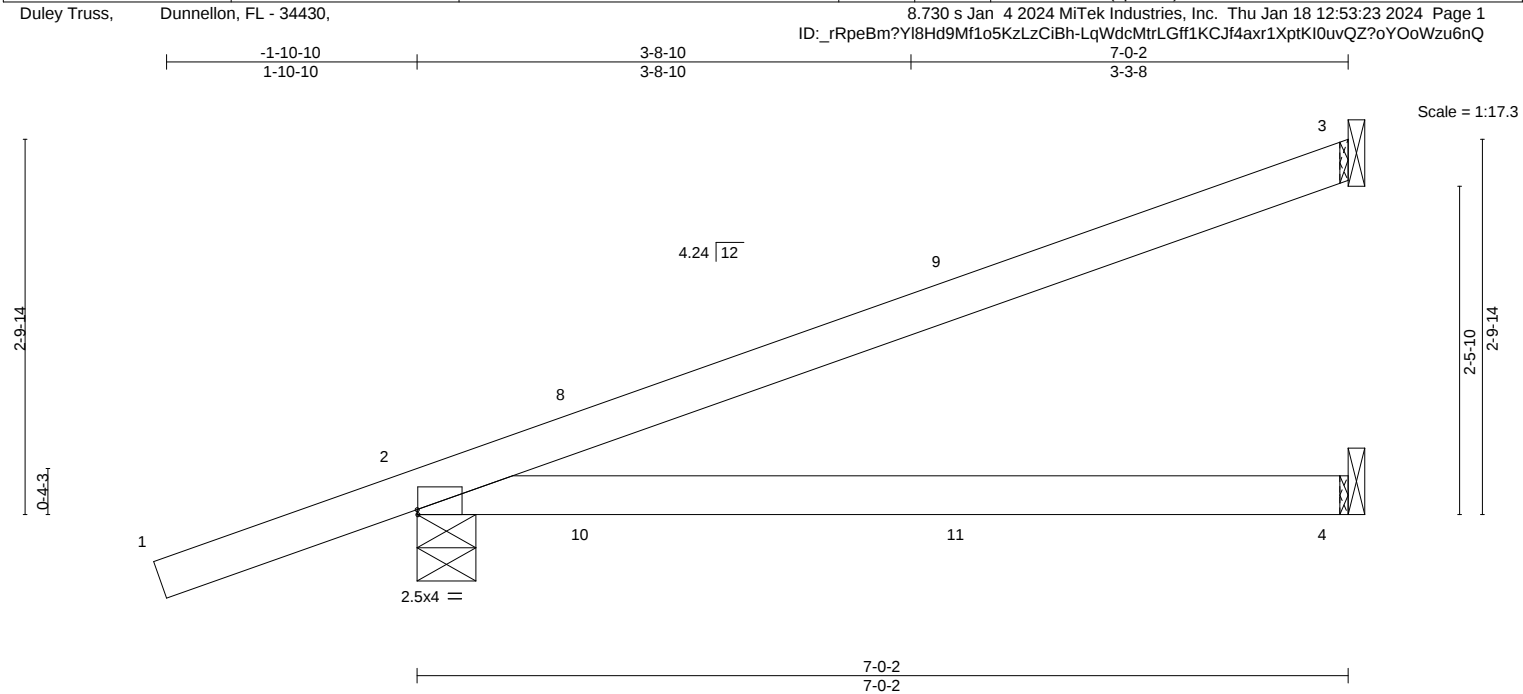


Plate Offsets (X,Y)-- [2:0-0-1,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.10 4-7 >858 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.19 4-7 >443 180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00 2 n/a n/a		
BCDL	10.0	Code FRC2023/TPI2014		Matrix-MP				Weight: 25 lb	FT = 20%

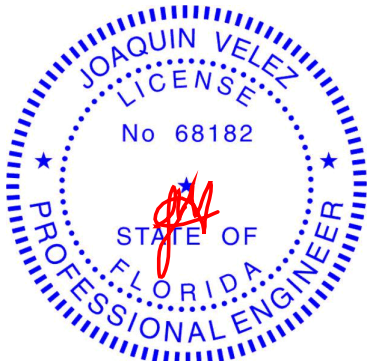
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2D	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2D	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-5, 4=Mechanical
Max Horz 2=203(LC 4)
Max Uplift 3=-149(LC 8), 2=-152(LC 4)
Max Grav 3=163(LC 1), 2=383(LC 1), 4=125(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=149, 2=152.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 60 lb up at 1-3-15, 106 lb down and 60 lb up at 1-3-15, and 35 lb down and 79 lb up at 4-1-14, and 33 lb down and 71 lb up at 4-1-14 on top chord, and 27 lb down and 16 lb up at 1-3-15, 27 lb down and 16 lb up at 1-3-15, and 12 lb down and 23 lb up at 4-1-14, and 17 lb down at 4-1-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
- Concentrated Loads (lb)
Vert: 9=-2(B) 11=-16(F=-4, B=-12)



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January 19,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI1-7473 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 USB-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)

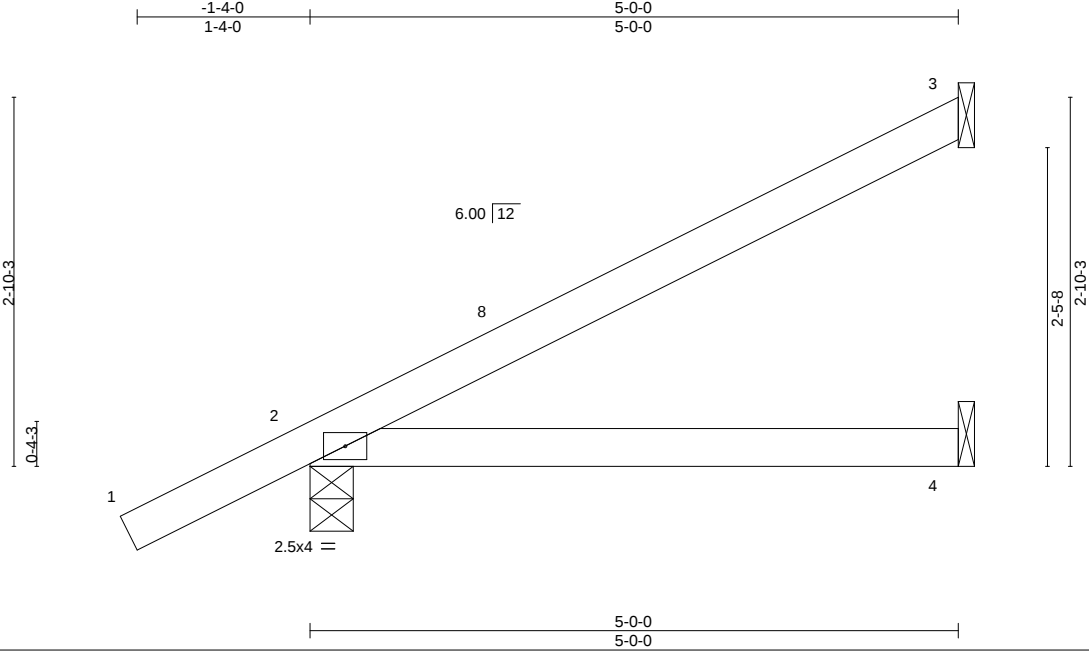
MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS
X0080	EJ5	Jack-Open	2	1	T32672975

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:26 2024 Page 1

ID: rRpeBm?Yl8Hd9Mf1o5KzLzCiBh-mPBmEOwjdB2DunxuKC7eTg9OdXMC5G9?imm2Przu6nN



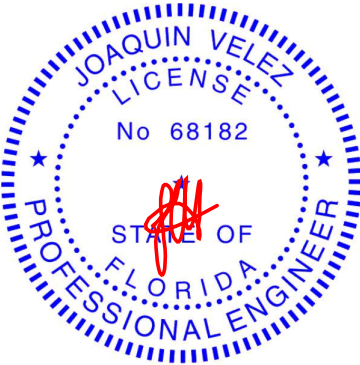
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.42	Vert(LL) 0.05	4-7	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.35	Vert(CT) -0.05	4-7	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a			
BCDL 10.0	Code FRC2023/TPI2014	Matrix-MP						Weight: 18 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=185(LC 12)
Max Uplift 3=-128(LC 12), 2=-132(LC 12)
Max Grav 3=113(LC 1), 2=269(LC 1), 4=88(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-13 to 1-7-3, Zone1 1-7-3 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=128, 2=132.



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Date:

January 19,2024

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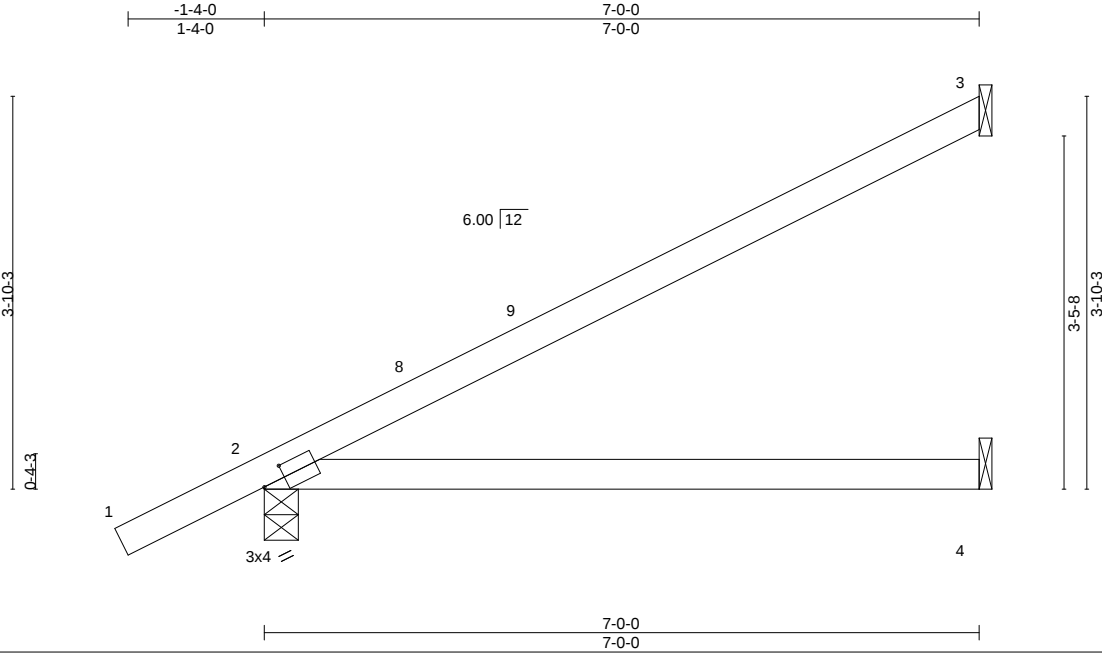
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Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS
X0080	EJ7	Jack-Open	11	1	T32672976
Job Reference (optional)					

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:27 2024 Page 1

ID: rRpeBm?Yl8Hd9Mf1o5KzLzCiBh-Ebl8SkxMOVA4WxW5uvt?tiSWxd5qjP9wQWcxHzu6nM
7-0-0
7-0-0



Scale = 1:22.6

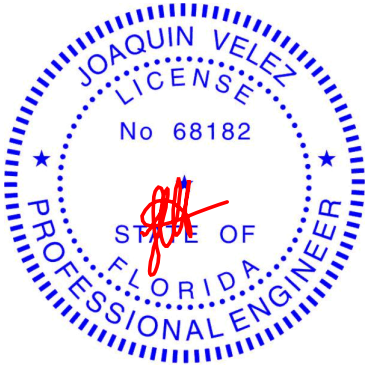
Plate Offsets (X,Y)--		[2:0-2-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86
TCDL 7.0	Lumber DOL	1.25	BC 0.63
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FRC2023/TPI2014	Matrix-MP
DEFL.	in (loc)	I/defl	L/d
Vert(LL)	0.16 4-7	>518	240
Vert(CT)	-0.19 4-7	>436	180
Horz(CT)	-0.01 3	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 24 lb		FT = 20%	

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=246(LC 12)
Max Uplift 3=187(LC 12), 2=154(LC 12)
Max Grav 3=164(LC 1), 2=340(LC 1), 4=126(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-13 to 1-7-3, Zone1 1-7-3 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=187, 2=154.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19,2024

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

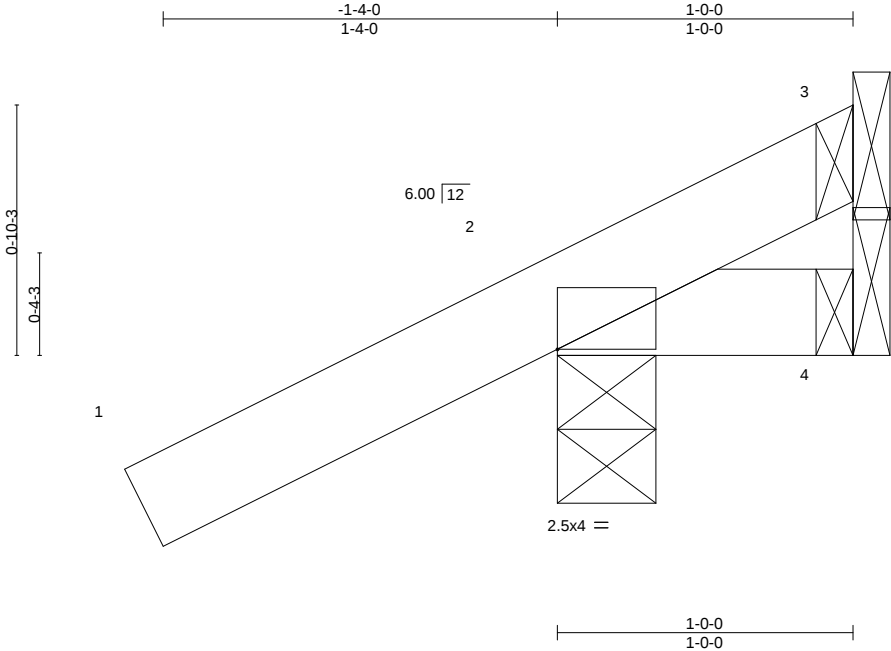
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	CANNON RES/CASON BUILDERS
X0080	SJ1	Corner Jack	10	1	T32672977

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:27 2024 Page 1
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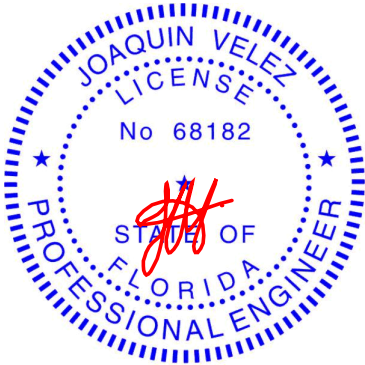
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FRC2023/TPI2014		Matrix-MP						Weight: 6 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=66(LC 12)
Max Uplift 3=-2(LC 1), 2=-126(LC 12), 4=-15(LC 1)
Max Grav 3=13(LC 8), 2=166(LC 1), 4=28(LC 16)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=126.



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Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS	T32672978
X0080	SJ3	Corner Jack	9	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:28 2024 Page 1
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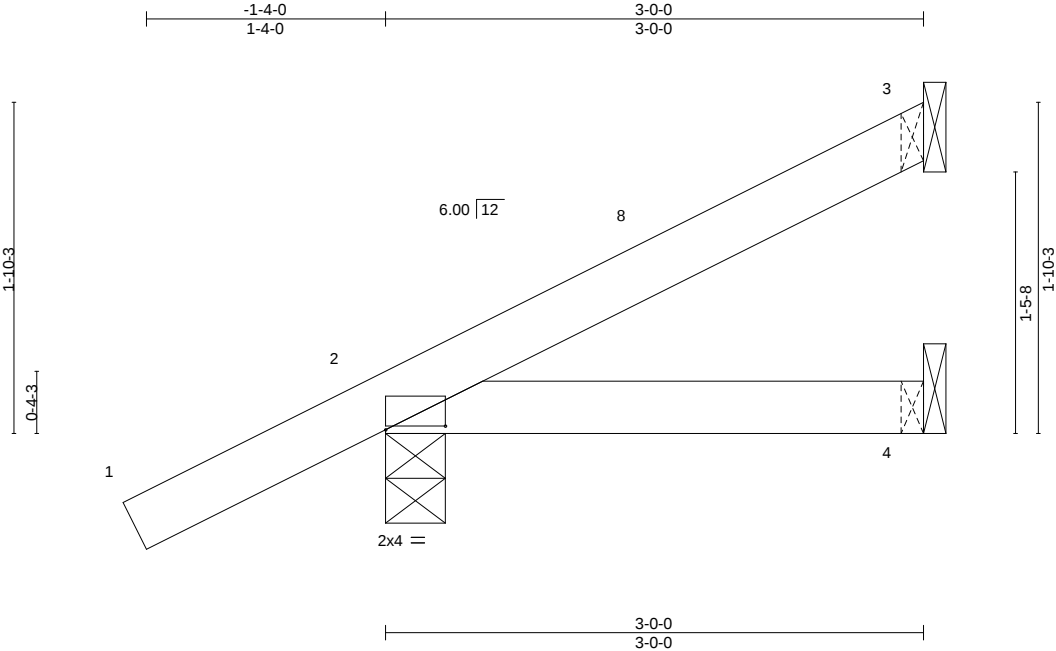


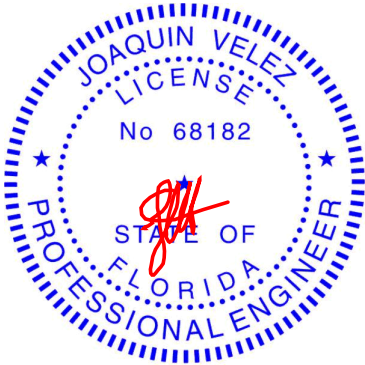
Plate Offsets (X,Y)--		[2:0-4-0,0-0-4]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	FRC2023/TPI2014	Matrix-MP						Weight: 12 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=125(LC 12)
Max Uplift 3=-68(LC 12), 2=-114(LC 12)
Max Grav 3=60(LC 1), 2=202(LC 1), 4=50(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-13 to 1-7-3, Zone1 1-7-3 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=114.



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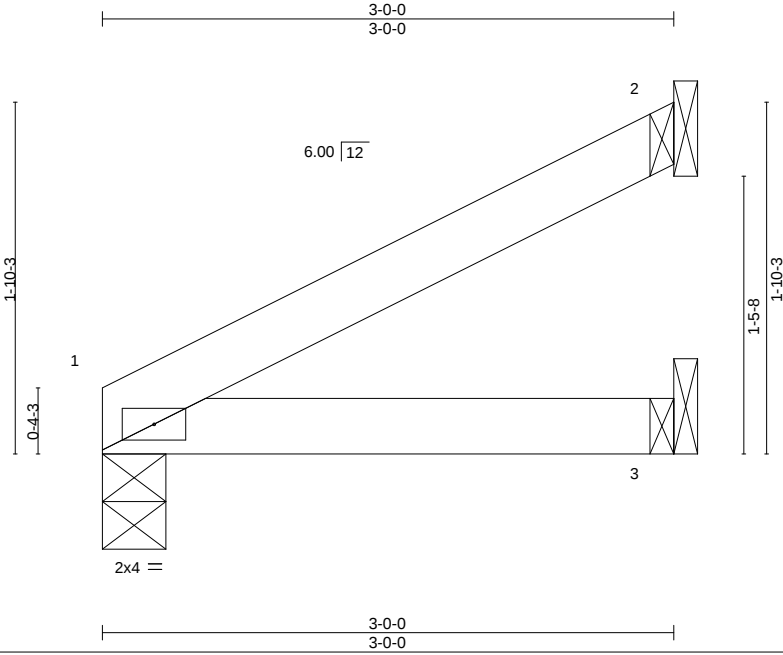
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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS
X0080	SJ3L	Corner Jack	1	1	T32672979

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:29 2024 Page 1
ID: _rRpeBm?YI8Hd9Mf1o5KzLzCiBh-A_tvtQycw6QolFgT0KgL5InyRkQFIdvSOk?i?9zu6nK



Scale: 1"=1'

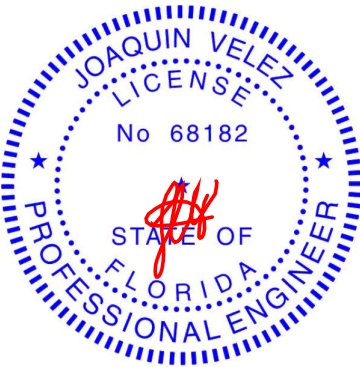
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.13	Vert(LL) 0.01	3-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.14	Vert(CT) -0.01	3-6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a		
BCDL 10.0	Code FRC2023/TPI2014	Matrix-MP					Weight: 10 lb	FT = 20%

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

REACTIONS. (size) 1=0-4-0, 2=Mechanical, 3=Mechanical
Max Horz 1=89(LC 12)
Max Uplift 1=-35(LC 12), 2=-77(LC 12), 3=-6(LC 12)
Max Grav 1=109(LC 1), 2=69(LC 1), 3=52(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19,2024

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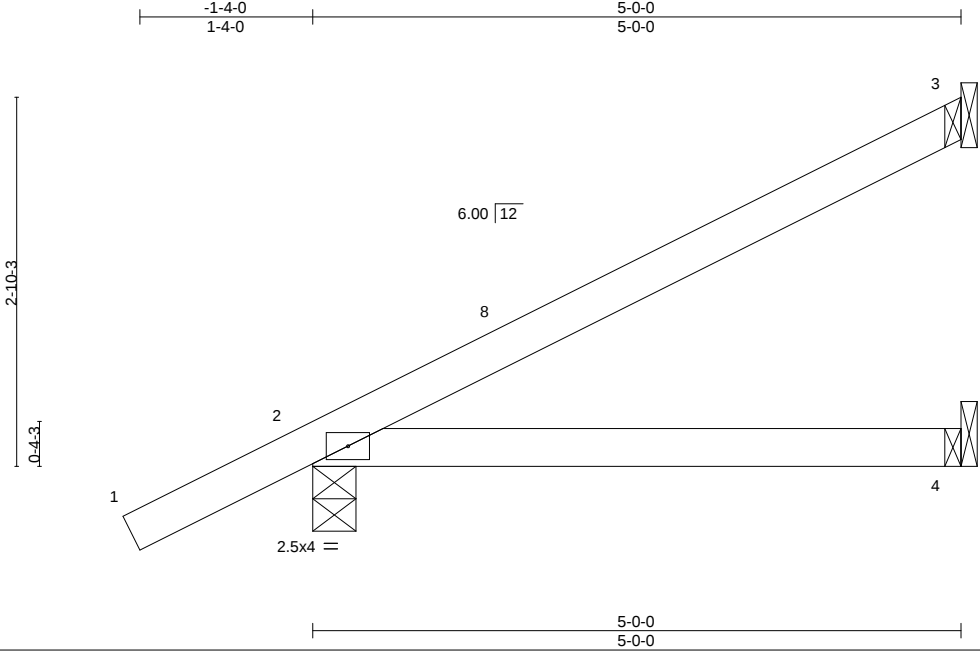
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Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS
X0080	SJ5	Corner Jack	6	1	T32672980

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:30 2024 Page 1

ID: _rRpeBm?Yi8Hd9Mf1o5KzLzCiBh-eARH4zEhQYfNPFGz2CadWK3c8j8149bdOkGYczu6nJ



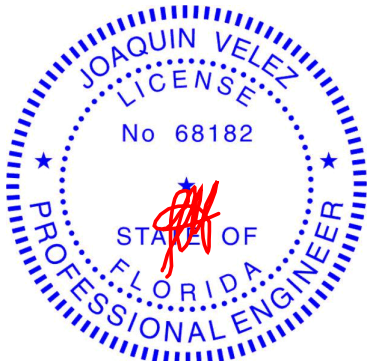
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.42	Vert(LL) 0.05	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.35	Vert(CT) -0.05	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code FRC2023/TPI2014	Matrix-MP					Weight: 18 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=185(LC 12)
Max Uplift 3=-128(LC 12), 2=-132(LC 12)
Max Grav 3=113(LC 1), 2=269(LC 1), 4=88(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-13 to 1-7-3, Zone1 1-7-3 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=128, 2=132.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

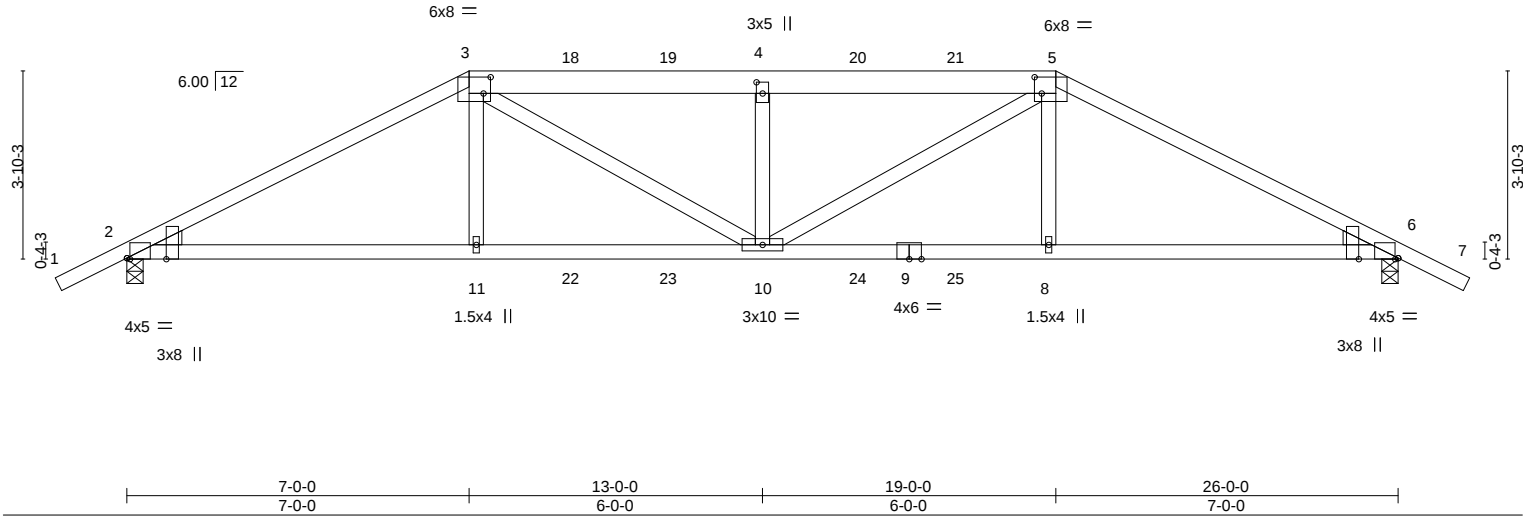
January 19,2024

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

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Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS	T32672981
X0080	T1	Hip Girder	1	1	Job Reference (optional)	



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.26 10 >999	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.34 8-10 >924				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.12 6 n/a				
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							
								Weight: 129 lb		FT = 20%	

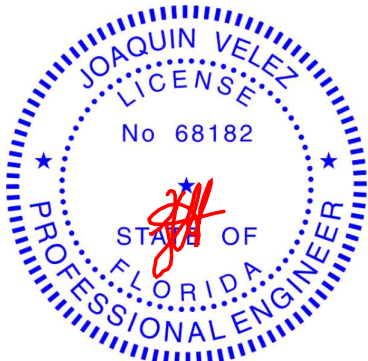
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2D *Except* 3-5: 2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2D	BOT CHORD	Rigid ceiling directly applied or 4-6-4 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

REACTIONS.	
(size)	2=0-4-0, 6=0-4-0
Max Horz	2=-110(LC 34)
Max Uplift	2=-1086(LC 8), 6=-1086(LC 9)
Max Grav	2=1997(LC 1), 6=1997(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-3800/2008, 3-4=-4317/2415, 4-5=-4317/2415, 5-6=-3800/2008
BOT CHORD	2-11=-1749/3340, 10-11=-1750/3365, 8-10=-1690/3365, 6-8=-1689/3340
WEBS	3-11=-46/684, 3-10=-760/1194, 4-10=-826/889, 5-10=-760/1194, 5-8=-47/684

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1086, 6=1086.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 204 lb down and 329 lb up at 7-0-0, 110 lb down and 184 lb up at 9-0-12, 110 lb down and 184 lb up at 11-0-12, 110 lb down and 184 lb up at 13-0-0, 110 lb down and 184 lb up at 14-11-4, and 110 lb down and 184 lb up at 16-11-4, and 204 lb down and 329 lb up at 19-0-0 on top chord, and 365 lb down and 126 lb up at 7-0-0, 86 lb down at 9-0-12, 86 lb down at 11-0-12, 86 lb down at 13-0-0, 86 lb down at 14-11-4, and 86 lb down at 16-11-4, and 365 lb down and 126 lb up at 18-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19,2024

Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS
X0080	T1	Hip Girder	1	1	T32672981

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:32 2024 Page 2
ID: _rRpeBm?Yl8Hd9Mf1o5KzLzCiBh-aZZ1VR_UD1oNciO2hTE2ixPGPyFyVqYu4iDMcUzu6nH

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-7=-54, 12-15=-20
Concentrated Loads (lb)
Vert: 3=-157(F) 5=-157(F) 11=-365(F) 10=-65(F) 4=-110(F) 8=-365(F) 18=-110(F) 19=-110(F) 20=-110(F) 21=-110(F) 22=-65(F) 23=-65(F) 24=-65(F) 25=-65(F)

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Daley Truss, Dunnellon, FL - 34430, 8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:34 2024 Page 1
 ID: rRpeBm?Yi8HD9M1o5KzLcZiBh-Xxgow70Ile25r0YRouGWoMuUdgl??zsmBX0iThNzu6nF
 -1-4-0 4-9-4 9-0-0 17-0-0 21-2-12 26-0-0 27-4-0
 1-4-0 4-9-4 4-2-12 8-0-0 4-2-12 4-9-4 1-4-0

The diagram illustrates a roof truss system with the following components and dimensions:

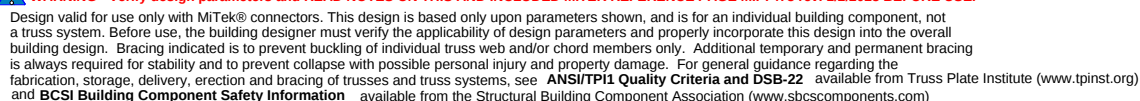
- Dimensions:**
 - Overall width: 26'-0" (divided into 9'-0", 17'-0", and 9'-0").
 - Overall height: 10'-3" (divided into 0'-4" and 10'-3").
 - Horizontal spacing between vertical supports: 9'-0", 17'-0", and 9'-0".
 - Vertical spacing between horizontal supports: 0'-4" and 10'-3".
- Members and Labels:**
 - Top chord: 18, 19, 20, 21
 - Bottom chord: 1, 2, 3, 4, 5, 6, 7, 8
 - Vertical supports: 9, 10, 11
 - Diagonal bracing: 1.5x4, 1.5x4, 1.5x4
 - Horizontal bracing: 3x5, 3x8, 3x4, 3x4, 3x5
 - Roof pitch: 6.00/12
- Notes:**
 - 4x5 =
 - 4x8 =
 - 3x5 =
 - 3x8 =
 - 3x4 =
 - 3x4 =
 - 3x5 =

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2D	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2D	BOT CHORD	Rigid ceiling directly applied or 8-0-2 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-11

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

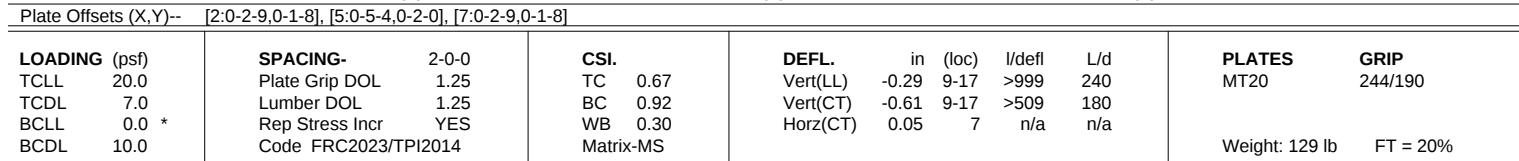
TOP CHORD	2-3=1731/783, 3-4=1482/655, 4-5=1291/647, 5-6=1481/655, 6-7=1731/783
BOT CHORD	2-11=605/1525, 9-11=385/1291, 7-9=603/1525
WEBS	3-11=275/319, 4-11=174/01, 5-9=50/401, 6-9=275/320

January 19, 2024



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Duley Truss, Dunnellon, FL - 34430, 8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:35 2024 Page 1
 ID: _rPeBm?Yl8Hd9Mf1o5KzLzCiBh-?8EA7T1NWyAyTA7dMbnIKZ1sR9HQiHjKmgS1Dpzv6nE
 -1-4-0 5-9-4 11-0-0 15-0-0 20-2-12 26-0-0 27-4-0
 1-4-0 5-9-4 5-2-12 4-0-0 5-2-12 5-9-4 1-4-0

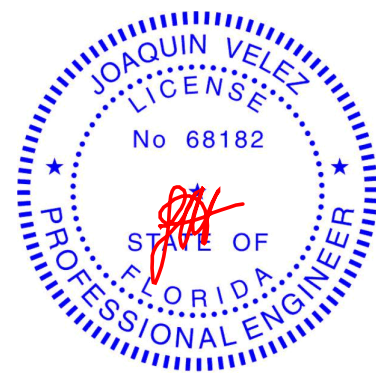


REACTIONS. (size) 2=0-4-0, 7=0-4-0
 Max Horz 2=162(LC 16)
 Max Uplift 2=-454(LC 12), 7=-454(LC 13)
 Max Grav 2=1038(LC 1), 7=1038(LC 1)

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

TOP CHORD	2-3=-1680/781, 3-4=-1329/605, 4-5=-1128/604, 5-6=-1329/605, 6-7=-1680/781
BOT CHORD	2-11=-661/1481, 9-11=-296/1127, 7-9=-590/1481
WEBS	3-11=-408/420, 4-11=-88/382, 5-9=-113/381, 6-9=-408/421

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-13 to 1-7-3, Zone1 1-7-3 to 11-0-0, Zone3 11-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 27-4-13 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=454, 7=454.
-



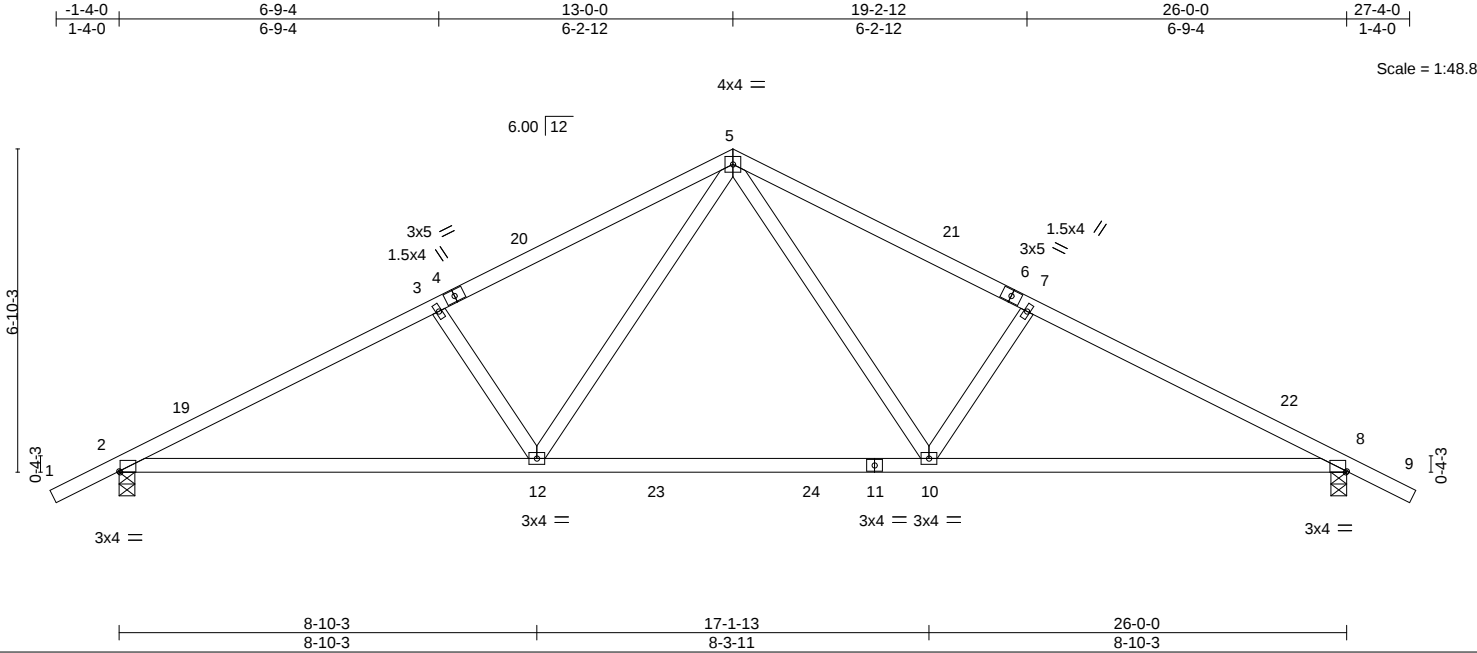
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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19, 2024

Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS	T32672984
X0080	T4	Common	17	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:36 2024 Page 1
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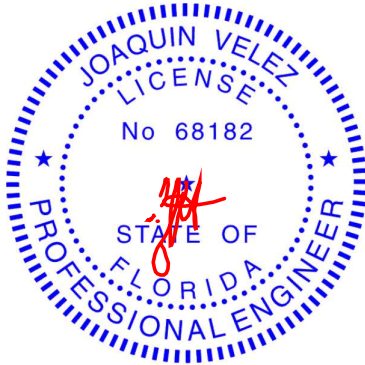
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.15 10-12 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.27 10-18 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							
								Weight: 120 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2D	TOP CHORD	Structural wood sheathing directly applied or 4-1-11 oc purlins.
BOT CHORD	2x4 SP No.2D	BOT CHORD	Rigid ceiling directly applied or 7-5-7 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-4-0, 8=0-4-0
Max Horz	2=188(LC 16)
Max Uplift	2=476(LC 12), 8=476(LC 13)
Max Grav	2=1113(LC 2), 8=1113(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1811/735, 3-5=-1671/722, 5-7=-1671/722, 7-8=-1811/735
BOT CHORD	2-12=-673/1593, 10-12=-276/1051, 8-10=-543/1593
WEBS	5-10=-316/717, 7-10=-365/423, 5-12=-315/717, 3-12=-365/423

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-13 to 1-7-3, Zone1 1-7-3 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 27-4-13 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=476, 8=476.



Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19,2024

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

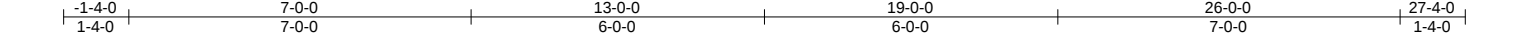
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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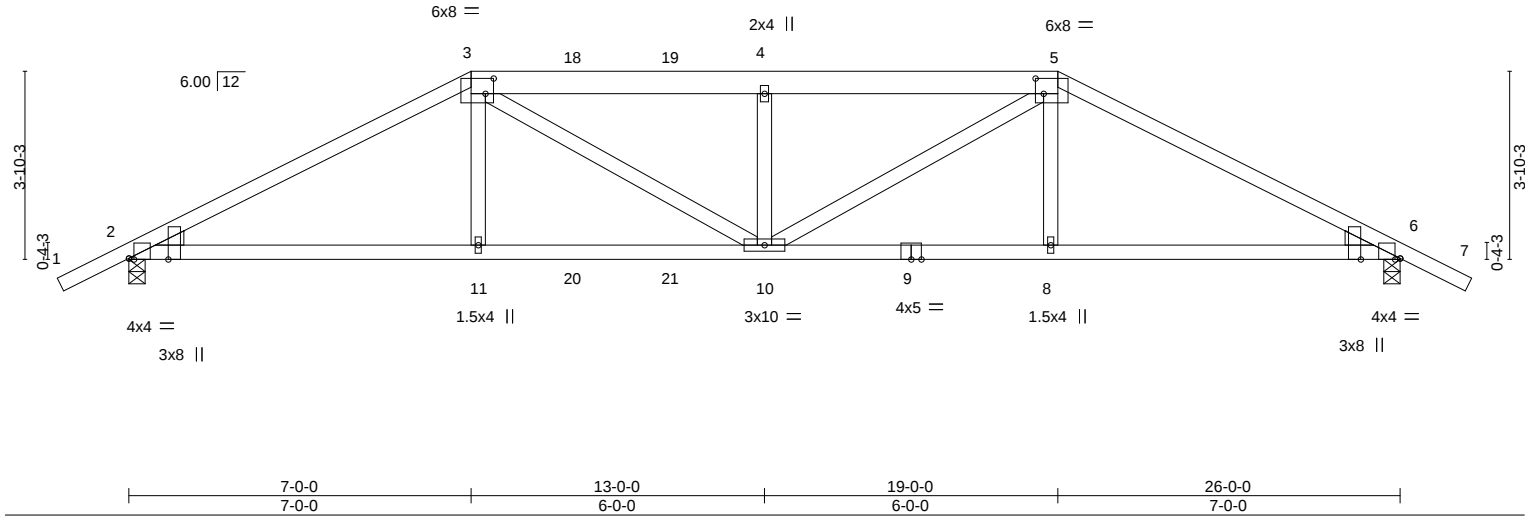
Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS	T32672985
X0080	T5	Hip Girder	1	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:38 2024 Page 1
ID: _rRpeBm?YI8Hd9Mf1o5KzLzCiBh-PjwlmV3FptYWKdsC1jLSyCfLRNKjvXpmSeghq8zu6nB



Scale = 1:47.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.19 10-11 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.29 10-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.08 6 n/a n/a				
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							
								Weight: 129 lb		FT = 20%	

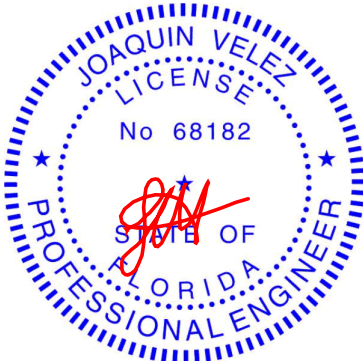
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2D *Except* 3-5: 2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD	2x4 SP No.2D	BOT CHORD	Rigid ceiling directly applied or 5-2-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

REACTIONS.		(size) 2=0-4-0, 6=0-4-0
		Max Horz 2=-110(LC 9)
		Max Uplift 2=-880(LC 8), 6=-667(LC 9)
		Max Grav 2=1719(LC 1), 6=1403(LC 1)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3192/1602, 3-4=-3235/1728, 4-5=-3234/1727, 5-6=-2461/1165	
BOT CHORD	2-11=-1390/2797, 10-11=-1391/2822, 8-10=-935/2164, 6-8=-937/2157	
WEBS	3-11=-42/705, 3-10=-366/568, 4-10=-661/699, 5-10=-851/1356, 5-8=0/261	

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCdL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=880, 6=667.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 204 lb down and 329 lb up at 7-0-0, 110 lb down and 184 lb up at 9-0-12, and 110 lb down and 184 lb up at 11-0-12, and 110 lb down and 184 lb up at 13-0-12 on top chord, and 365 lb down and 126 lb up at 7-0-0, 86 lb down at 9-0-12, and 86 lb down at 11-0-12, and 86 lb down at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-54, 3-5=-54, 5-7=-54, 12-15=-20	



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19,2024

Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS
X0080	T5	Hip Girder	1	1	T32672985

Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:38 2024 Page 2
ID: _rRpeBm?Yl8Hd9Mf1o5KzLzCiBh-PjwlmV3FptYWKdsC1jLSyCiLRNKjvXpmSeghq8zu6nB

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-157(F) 11=-365(F) 10=-65(F) 4=-110(F) 18=-110(F) 19=-110(F) 20=-65(F) 21=-65(F)

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Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS
X0080	T6	Common	1	1	T32672986

Duley Truss, Dunnellon, FL - 34430,

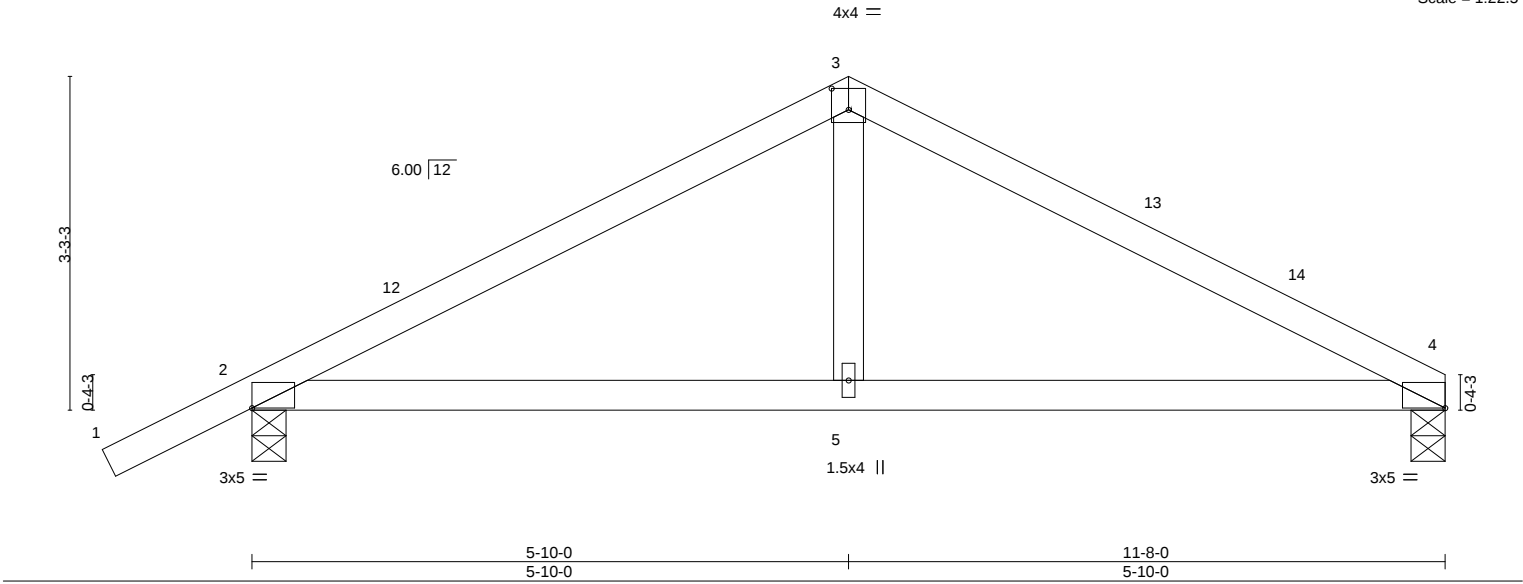
8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:39 2024 Page 1

ID: _rRpeBm?Yl8Hd9Mf1o5KzLzCiBh-tvUgq4tZBgNynRObRshVPCc7mnUe8owhlQEMazu6nA

Job Reference (optional)



Scale = 1:22.5



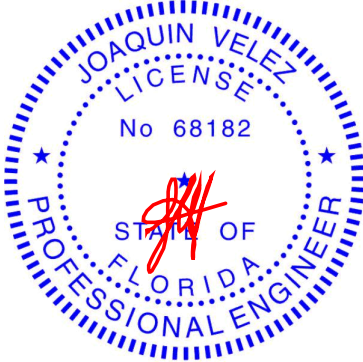
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.06 5-8 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.07 5-8 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01 4 n/a n/a				
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							
								Weight: 43 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2D	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2D	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 4=0-4-0, 2=0-4-0
Max Horz 2=112(LC 12)
Max Uplift 4=184(LC 13), 2=251(LC 12)
Max Grav 4=427(LC 1), 2=512(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-608/474, 3-4=-606/492
BOT CHORD 2-5=-285/490, 4-5=-285/490
WEBS 3-5=-39/268

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-13 to 1-7-3, Zone1 1-7-3 to 5-10-0, Zone2 5-10-0 to 10-0-15, Zone1 10-0-15 to 11-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 4=184, 2=251.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 19,2024

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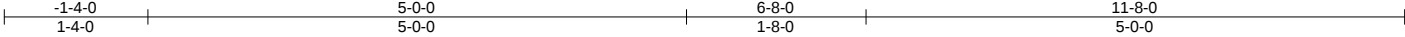
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Job	Truss	Truss Type	Qty	Ply	CANNON RES/CASON BUILDERS	T32672987
X0080	T7	Hip Girder	1	1	Job Reference (optional)	

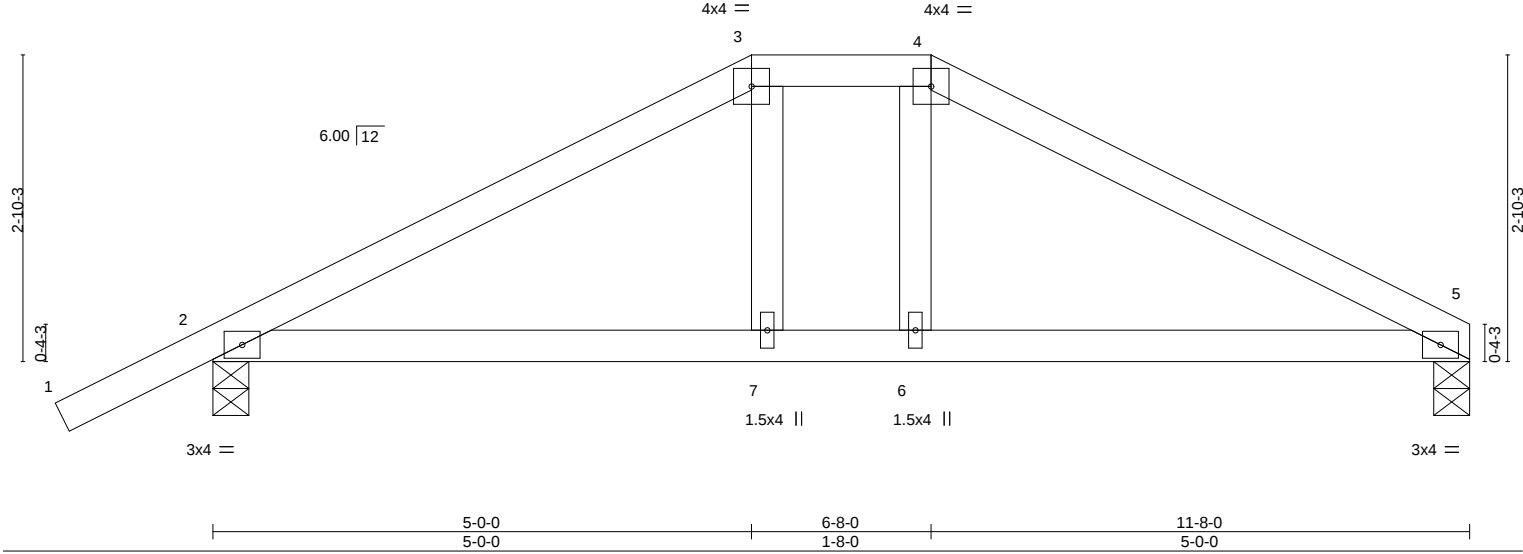
Duley Truss, Dunnellon, FL - 34430,

8.730 s Jan 4 2024 MiTek Industries, Inc. Thu Jan 18 12:53:40 2024 Page 1

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Scale = 1:21.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) 0.06	6-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.40	Vert(CT) -0.07	6-10	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.10	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FRC2023/TPI2014	Matrix-MS					Weight: 46 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2D	TOP CHORD Structural wood sheathing directly applied or 5-5-6 oc purlins.
BOT CHORD 2x4 SP No.2D	BOT CHORD Rigid ceiling directly applied or 9-2-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 5=0-4-0, 2=0-4-0
Max Horz 2=102(LC 8)
Max Uplift 5=-334(LC 9), 2=-401(LC 8)
Max Grav 5=674(LC 1), 2=758(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1160/574, 3-4=-998/539, 4-5=-1147/564
BOT CHORD 2-7=-450/988, 6-7=-445/998, 5-6=-447/988

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=334, 2=401.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down and 270 lb up at 5-0-0, and 198 lb down and 270 lb up at 6-8-0 on top chord, and 117 lb down at 5-0-0, and 117 lb down at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

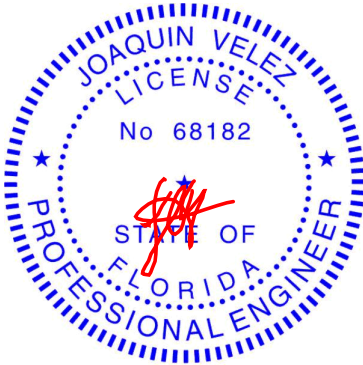
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 4-5=-54, 8-11=-20

Concentrated Loads (lb)

Vert: 3=-146(B) 4=-146(B) 7=-101(B) 6=-101(B)



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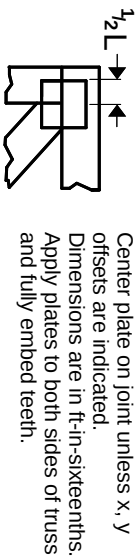
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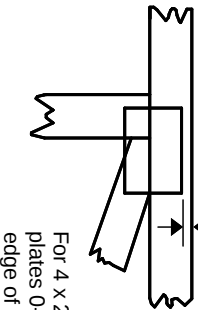
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Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

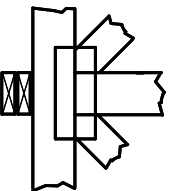
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

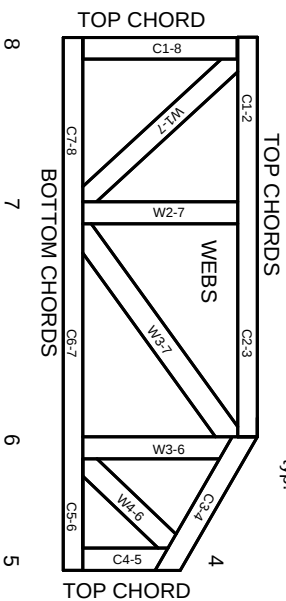
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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