MiTek®

RE: 6243109
1755-CR- Frame

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

Site Information:

Customer: Adams Homes-Gainesville
Lot/Block: 85
Address: SW Silver Palm Dr
City: Lake City

Project Name: 6243109
Model: 1755-CR- Frame
Subdivision: The Preserve at Laurel Lake
State: fl

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

Design Code: FBC2023/TPI2014
Wind Code: ASCE 7-22
Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.7
Wind Speed: 130 mph
Floor Load: N/A psf

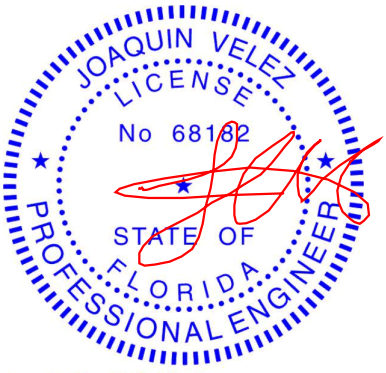
This package includes 38 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T34535082	A01	7/25/2024	21	T34535102	A21	7/25/2024
2	T34535083	A02	7/25/2024	22	T34535103	C1	7/25/2024
3	T34535084	A03	7/25/2024	23	T34535104	C1A	7/25/2024
4	T34535085	A04	7/25/2024	24	T34535105	C3	7/25/2024
5	T34535086	A05	7/25/2024	25	T34535106	C5	7/25/2024
6	T34535087	A06	7/25/2024	26	T34535107	E01	7/25/2024
7	T34535088	A07	7/25/2024	27	T34535108	E02	7/25/2024
8	T34535089	A08	7/25/2024	28	T34535109	E2	7/25/2024
9	T34535090	A09	7/25/2024	29	T34535110	E2A	7/25/2024
10	T34535091	A10	7/25/2024	30	T34535111	E03	7/25/2024
11	T34535092	A11	7/25/2024	31	T34535112	E7	7/25/2024
12	T34535093	A12	7/25/2024	32	T34535113	G01	7/25/2024
13	T34535094	A13	7/25/2024	33	T34535114	G02	7/25/2024
14	T34535095	A14	7/25/2024	34	T34535115	G03	7/25/2024
15	T34535096	A15	7/25/2024	35	T34535116	H2	7/25/2024
16	T34535097	A16	7/25/2024	36	T34535117	H3	7/25/2024
17	T34535098	A17	7/25/2024	37	T34535118	H7	7/25/2024
18	T34535099	A18	7/25/2024	38	T34535119	V18	7/25/2024
19	T34535100	A19	7/25/2024				
20	T34535101	A20	7/25/2024				

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

Truss Design Engineer's Name: Velez, Joaquin
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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: July 25, 2024

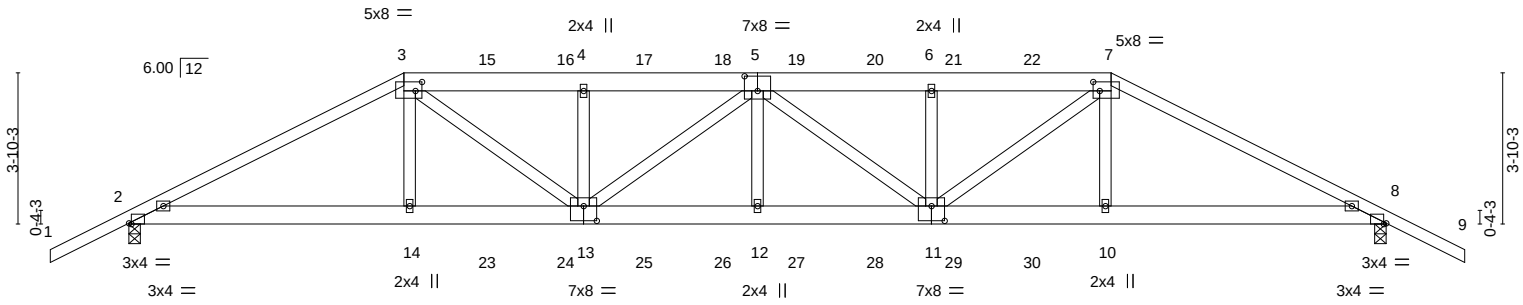
Velez, Joaquin

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A01	Hip Girder	1	2	T34535082
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:42 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-jnaGUfK6MlgFqC?XaUlpjYO1AKe_3g3u6jdp7dyurxB

-2-0-0	7-0-0	11-6-14	16-0-0	20-5-2	25-0-0	32-0-0	34-0-0
2-0-0	7-0-0	4-6-14	4-5-2	4-5-2	4-6-14	7-0-0	2-0-0

Scale = 1:58.6



7-0-0	11-6-14	16-0-0	20-5-2	25-0-0	32-0-0
7-0-0	4-6-14	4-5-2	4-5-2	4-6-14	7-0-0

Plate Offsets (X,Y)-- [2:0-0-12,Edge], [3:0-2-0,0-2-12], [5:0-4-0,0-4-8], [7:0-2-0,0-2-12], [8:0-0-12,Edge], [11:0-4-0,0-4-8], [13:0-4-0,0-4-8]

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	0.51	Vert(LL)	-0.14	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.29	12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.09	12	>999	240	Weight: 398 lb	FT = 20%

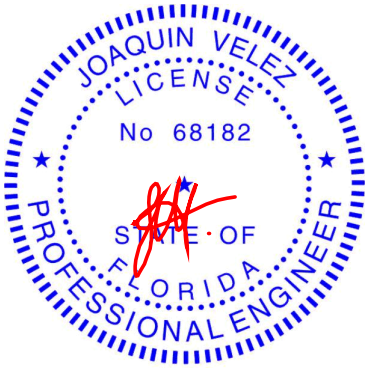
LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 3-5,5-7: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-73(LC 25)
Max Uplift 2=-150(LC 8), 8=-166(LC 8)
Max Grav 2=2487(LC 1), 8=2533(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4761/162, 3-4=-5742/294, 4-5=-5740/293, 5-6=-5785/310, 6-7=-5788/310, 7-8=-4862/198
BOT CHORD 2-14=-51/4172, 13-14=-43/4190, 12-13=-221/6250, 11-12=-221/6250, 10-11=-75/4280, 8-10=-83/4262
WEBS 3-14=0/629, 3-13=-164/2014, 4-13=-607/184, 5-13=-669/59, 5-12=0/392, 5-11=-602/38, 6-11=-607/185, 7-11=-144/1949, 7-10=0/628

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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 150 lb uplift at joint 2 and 166 lb uplift at joint 8.



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

July 25,2024

Continued on page 2

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

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 86 lb up at 7-0-0, 123 lb down and 83 lb up at 9-0-12, 123 lb down and 83 lb up at 11-0-12, 123 lb down and 83 lb up at 13-0-12, 123 lb down and 83 lb up at 15-0-12, 123 lb down and 83 lb up at 16-11-4, 123 lb down and 83 lb up at 18-11-4, 123 lb down and 83 lb up at 20-11-4, and 123 lb down and 83 lb up at 22-11-4, and 251 lb down and 170 lb up at 25-0-0 on top chord, and 311 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 16-11-4, 96 lb down at 18-11-4, 96 lb down at 20-11-4, and 96 lb down at 22-11-4, and 311 lb down at 24-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

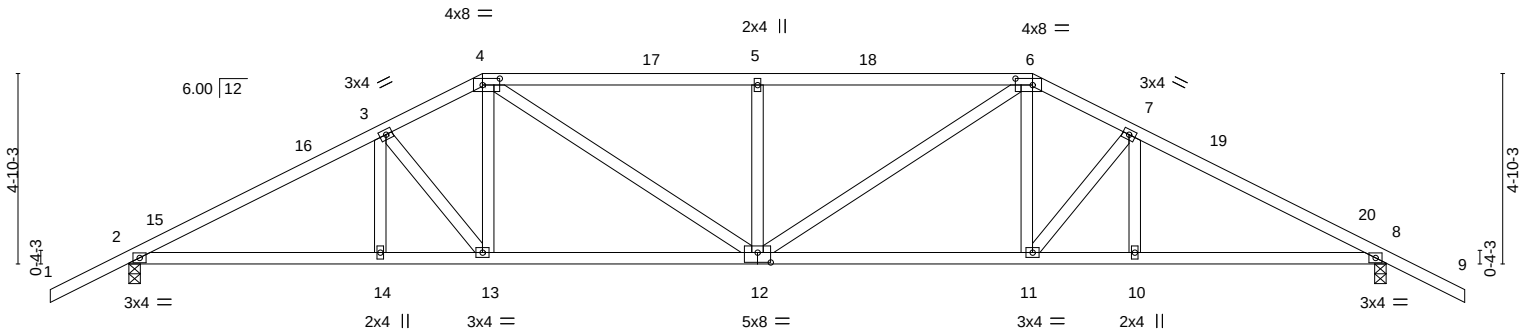
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20
   Concentrated Loads (lb)
   Vert: 3=-123(F) 7=-204(F) 14=-264(F) 10=-264(F) 15=-123(F) 16=-123(F) 17=-123(F) 18=-123(F) 19=-123(F) 20=-123(F) 21=-123(F) 22=-123(F) 23=-48(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F) 28=-48(F) 29=-48(F) 30=-48(F)

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A02	HIP	1	1	T34535083
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:43 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-B_8fh?Lk73o6SMZj7CG2Glx9Xjz8o871LNNMf4yurxA

-2-0-0	6-4-12	9-0-0	16-0-0	23-0-0	25-7-3	32-0-0	34-0-0
2-0-0	6-4-12	2-7-3	7-0-0	7-0-0	2-7-3	6-4-13	2-0-0

Scale = 1:58.6



6-4-12	9-0-0	16-0-0	23-0-0	25-7-3	32-0-0
6-4-12	2-7-3	7-0-0	7-0-0	2-7-3	6-4-13

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [12:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.14	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.30	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.08	12	>999	240	Weight: 168 lb	FT = 20%

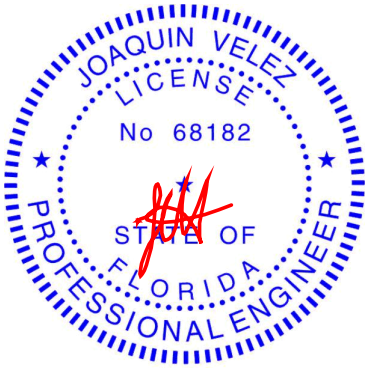
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-91(LC 10)
Max Uplift 2=-116(LC 12), 8=-116(LC 12)
Max Grav 2=1397(LC 1), 8=1397(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2314/176, 3-4=-2026/194, 4-5=-2263/216, 5-6=-2263/216, 6-7=-2026/194, 7-8=-2314/176
BOT CHORD 2-14=-71/1978, 13-14=-71/1978, 12-13=-31/1781, 11-12=-39/1781, 10-11=-85/1978, 8-10=-85/1978
WEBS 3-13=-324/71, 4-13=-1/370, 4-12=-51/659, 5-12=-480/141, 6-12=-51/659, 6-11=-1/370, 7-11=-324/71

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 23-0-0, Zone2 23-0-0 to 27-2-15, Zone1 27-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 116 lb uplift at joint 8.



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

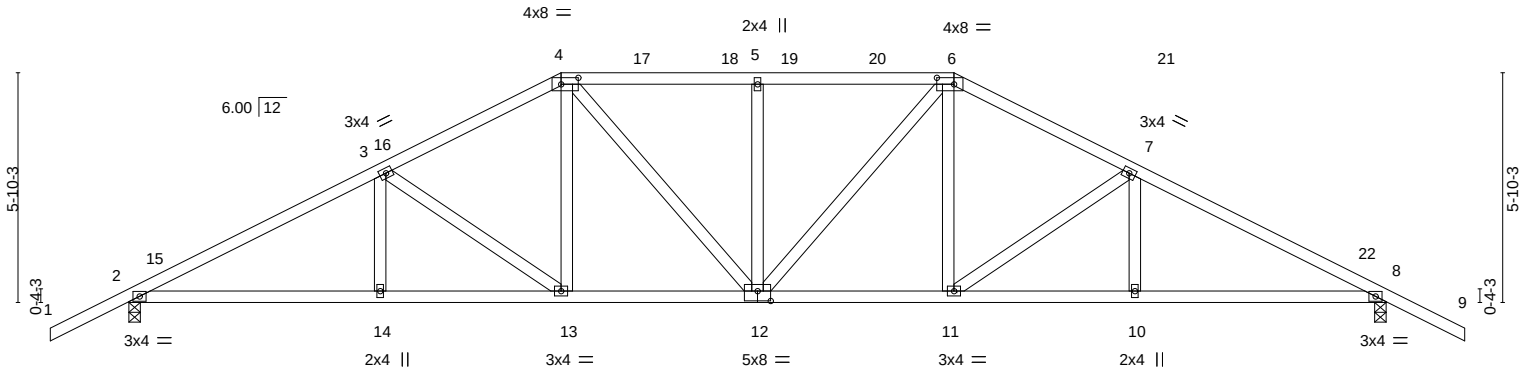
July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A03	HIP	1	1	T34535084
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:43 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-B_8fh?Lk73o6SMZj7CG2GlxC8jzQo6s1LNNMf4yurxA

-2-0-0	6-4-12	11-0-0	16-0-0	21-0-0	25-7-4	32-0-0	34-0-0
2-0-0	6-4-12	4-7-4	5-0-0	5-0-0	4-7-4	6-4-12	2-0-0

Scale = 1:58.6



6-4-12	11-0-0	16-0-0	21-0-0	25-7-4	32-0-0
6-4-12	4-7-4	5-0-0	5-0-0	4-7-4	6-4-12

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [12:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.11	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.23	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.07	12	>999	240	Weight: 175 lb	FT = 20%

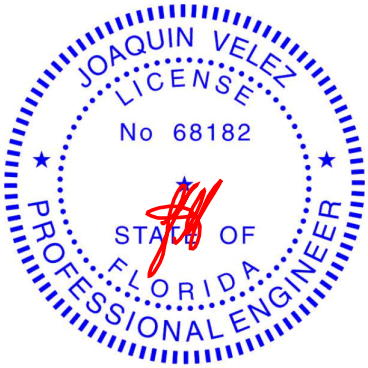
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=107(LC 11)
Max Uplift 2=-116(LC 12), 8=-116(LC 12)
Max Grav 2=1397(LC 1), 8=1397(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2324/178, 3-4=-1879/190, 4-5=-1819/205, 5-6=-1819/205, 6-7=-1879/190, 7-8=-2324/178
BOT CHORD 2-14=-74/1989, 13-14=-74/1989, 12-13=-16/1624, 11-12=-24/1624, 10-11=-88/1989, 8-10=-88/1989
WEBS 3-13=-456/77, 4-13=0/375, 4-12=-32/392, 5-12=-338/101, 6-12=-32/392, 6-11=0/375, 7-11=-456/77

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 21-0-0, Zone2 21-0-0 to 25-2-15, Zone1 25-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 116 lb uplift at joint 8.



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

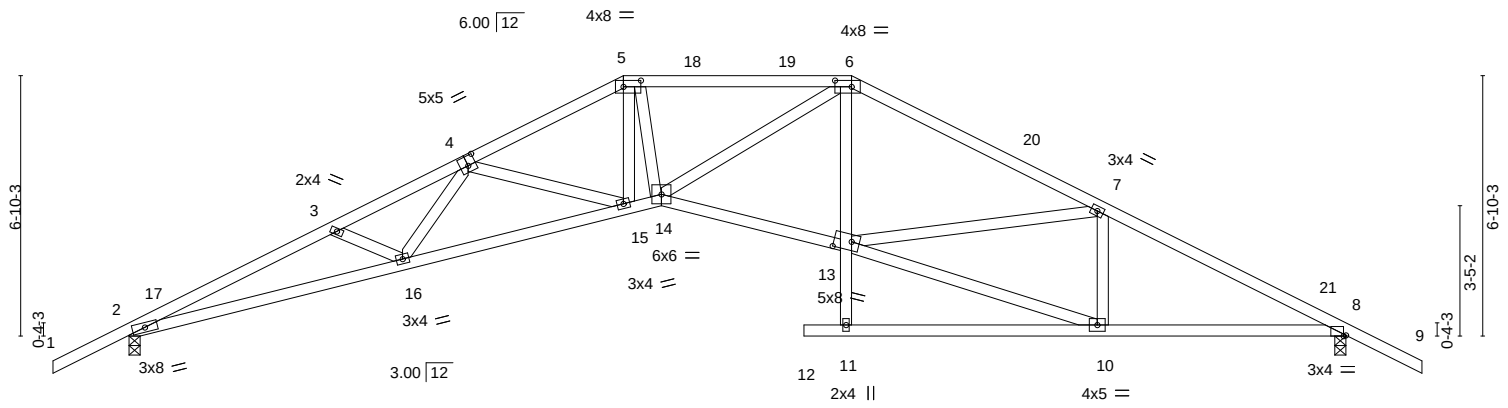
July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A04	HIP	1	1	T34535085
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:44 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-fAi1vLLMuMwz3V8vhvnHozUGf7IeXWaBa16vCWyurx9

-2-0-0	5-5-9	8-11-0	13-0-0	18-3-0	19-0-0	25-7-5	32-0-0	34-0-0
2-0-0	5-5-9	3-5-7	4-1-0	5-3-0	0-9-0	6-7-4	6-4-12	2-0-0

Scale = 1:60.6



7-2-5	13-0-0	14-0-0	18-3-0	19-0-0	25-7-5	32-0-0
7-2-5	5-9-11	1-0-0	4-3-0	0-9-0	6-7-4	6-4-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-5-8,0-2-0], [6:0-5-4,0-2-0], [8:0-0-12,Edge], [13:0-5-8,0-2-12]

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	0.89	Vert(LL)	-0.29	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.60	15-16	>635	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.36	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16	15-16	>999	240	Weight: 174 lb	FT = 20%

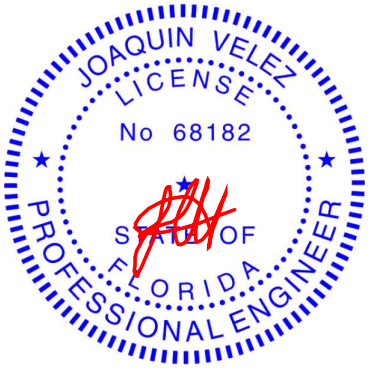
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-14: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-124(LC 10)
Max Uplift 2=-110(LC 12), 8=-108(LC 12)
Max Grav 2=1407(LC 1), 8=1410(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4284/245, 3-4=-4054/201, 4-5=-3292/169, 5-6=-3149/162, 6-7=-2611/173, 7-8=-2380/160
BOT CHORD 2-16=-152/3845, 15-16=-80/3552, 14-15=0/2989, 13-14=-0/2342, 8-10=-75/2043
WEBS 4-16=0/379, 4-15=-566/109, 5-15=-15/416, 5-14=0/780, 6-14=0/1042, 10-13=-78/2132, 6-13=0/308, 7-13=0/343, 7-10=-516/116

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2 and 108 lb uplift at joint 8.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A05	HIP	1	1	T34535086
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:45 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-7MGP6hM_fg2qhfj6FdIWLA0QEXflGzwKphsTkyyurx8

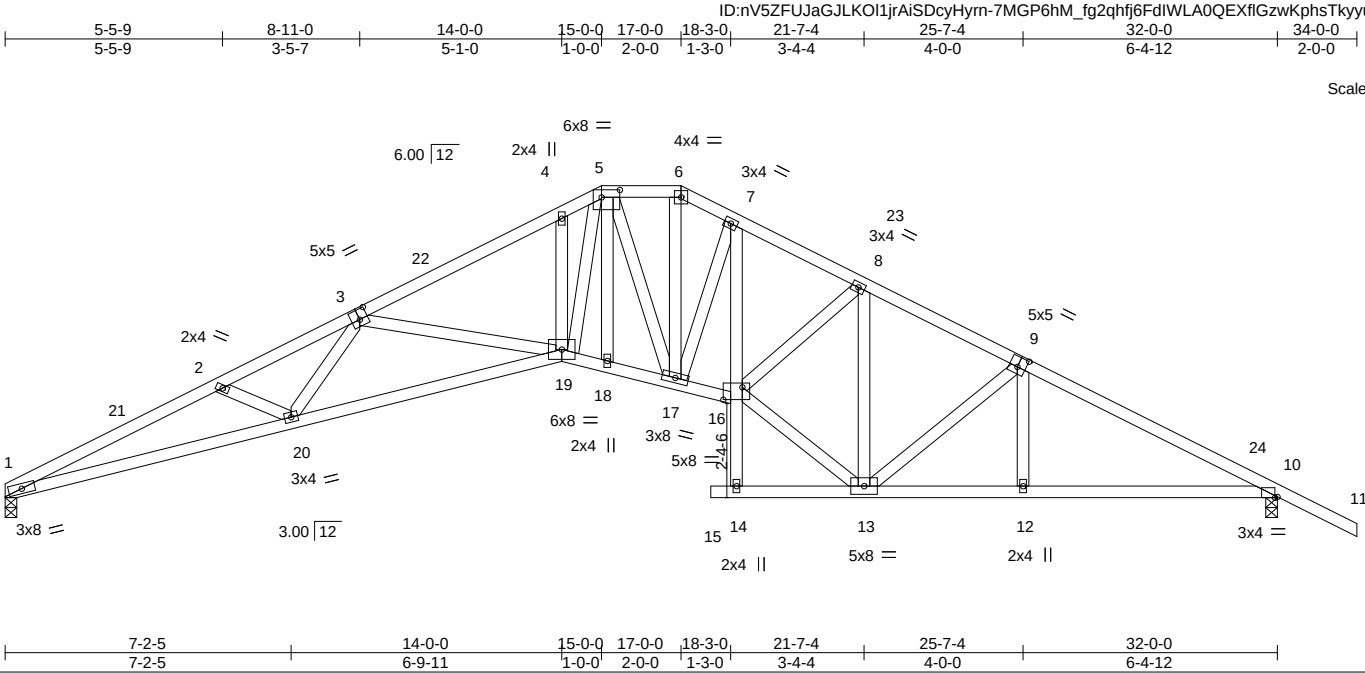


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [5:0-5-8,0-2-4], [9:0-2-8,0-3-0], [10:0-0-12,Edge], [16:0-5-12,0-3-12]

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	0.90	Vert(LL)	-0.30	19-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.64	19-20	>593	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.37	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16	19-20	>999	240	Weight: 198 lb	FT = 20%

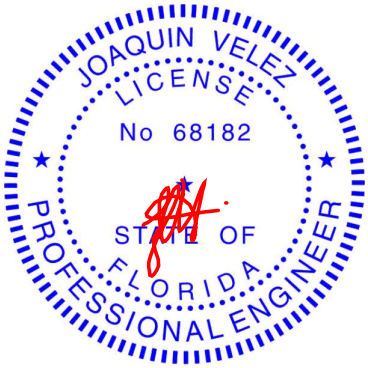
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
1-19: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
10-0-0 oc bracing: 14-16

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=-137(LC 10)
Max Uplift 1=-49(LC 12), 10=-114(LC 12)
Max Grav 1=1270(LC 1), 10=1409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4358/283, 2-3=-4136/229, 3-4=-3170/175, 4-5=-3160/231, 5-6=-2094/177, 6-7=-2317/191, 7-8=-2604/188, 8-9=-1951/184, 9-10=-2345/158
BOT CHORD 1-20=-197/3941, 19-20=-104/3596, 18-19=0/2374, 17-18=0/2373, 16-17=0/2305, 7-16=-22/583, 12-13=-71/2003, 10-12=-69/2006
WEBS 3-20=0/429, 3-19=-731/122, 4-19=-286/144, 5-17=-611/2, 6-17=-53/894, 7-17=-622/87, 13-16=-37/2107, 8-16=0/783, 8-13=-995/26, 9-13=-421/56, 5-19=-108/1997

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 15-0-0, Zone3 15-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 34-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1 and 114 lb uplift at joint 10.



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

July 25,2024

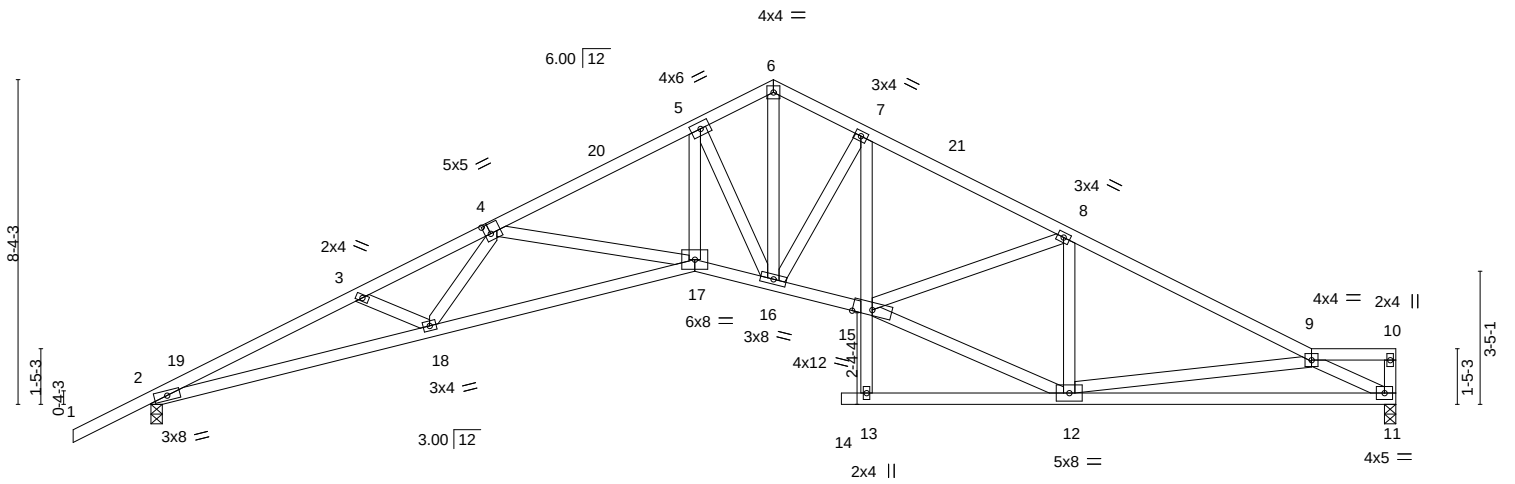
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A06	Roof Special	1	1	T34535087
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:45 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-7MGP6hM_fg2qhfj6FdIWLA0UKXcxGxTKphsTkyyurx8

-2-0-0	5-5-3	8-10-11	13-11-12	16-0-0	18-3-0	23-7-4	29-10-0	32-0-0
2-0-0	5-5-3	3-5-8	5-1-1	2-0-4	2-3-0	5-4-4	6-2-12	2-2-0

Scale = 1:59.2



7-1-15	13-11-12	16-0-0	18-3-0	23-7-4	29-10-0	32-0-0
7-1-15	6-9-13	2-0-4	2-3-0	5-4-4	6-2-12	2-2-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.31	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.66	17-18	>576	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.37	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.18	17-18	>999	240	Weight: 191 lb	FT = 20%

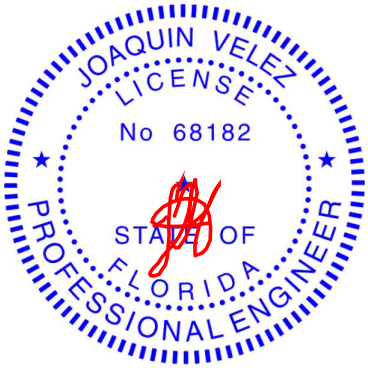
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-17: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 13-15

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=135(LC 11)
Max Uplift 11=-49(LC 12), 2=-114(LC 12)
Max Grav 11=1271(LC 1), 2=1407(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4293/334, 3-4=-4067/295, 4-5=-3165/268, 5-6=-2251/248, 6-7=-2250/245, 7-8=-2560/242, 8-9=-2201/180
BOT CHORD 2-18=-319/3856, 17-18=-266/3561, 16-17=-142/2853, 15-16=-99/2282, 7-15=0/327, 11-12=-228/2117
WEBS 4-18=0/422, 4-17=-704/113, 5-17=-65/1762, 5-16=-1775/184, 6-16=-197/1868, 7-16=-478/110, 12-15=-126/2056, 8-15=0/346, 8-12=-666/129, 9-11=-2350/298

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 11 and 114 lb uplift at joint 2.



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

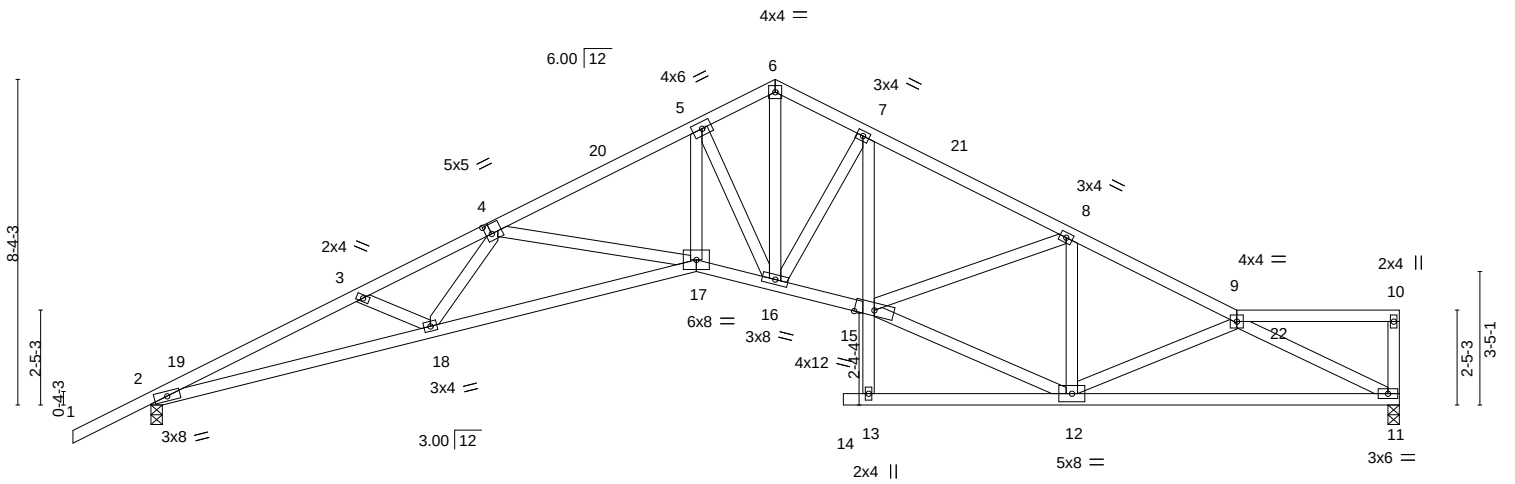
July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535088
6243109	A07	Roof Special	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:46 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-bZqnK1NdQ_AhJpIIpKqluOZf4xyB?KST1Lb0GOyurx7

-2-0-0	5-5-3	8-10-11	13-11-12	16-0-0	18-3-0	23-7-4	27-10-0	32-0-0
2-0-0	5-5-3	3-5-8	5-1-1	2-0-4	2-3-0	5-4-4	4-2-12	4-2-0

Scale = 1:59.1



7-1-15	13-11-12	16-0-0	18-3-0	23-7-4	27-10-0	29-10-0	32-0-0
7-1-15	6-9-13	2-0-4	2-3-0	5-4-4	4-2-12	2-0-0	2-2-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.31	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.66	17-18	>576	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.37	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.19	17-18	>999	240	Weight: 193 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-17: 2x4 SP M 31 or 2x4 SP SS
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 13-15

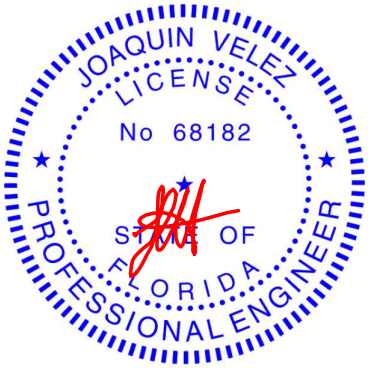
REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=127(LC 11)
Max Uplift 11=-50(LC 12), 2=-113(LC 12)
Max Grav 11=1271(LC 1), 2=1407(LC 1)

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

TOP CHORD	2-3=-4293/358, 3-4=-4067/319, 4-5=-3165/294, 5-6=-2252/264, 6-7=-2254/261, 7-8=-2558/256, 8-9=-2151/181
BOT CHORD	2-18=-366/3856, 17-18=-315/3561, 16-17=-191/2853, 15-16=-140/2287, 7-15=0/310, 11-12=-213/2062
WEBS	4-18=0/422, 4-17=-704/112, 5-17=-88/1762, 5-16=-1777/205, 6-16=-215/1880, 7-16=-489/109, 12-15=-144/2034, 8-15=-3/360, 8-12=-609/118, 9-11=-2273/248

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 11 and 113 lb uplift at joint 2.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535089
6243109	A08	Roof Special	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:46 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-bZqnK1NdQ_AhJpIIpKqluOZg7xwh?OnT1Lb0GOyurx7

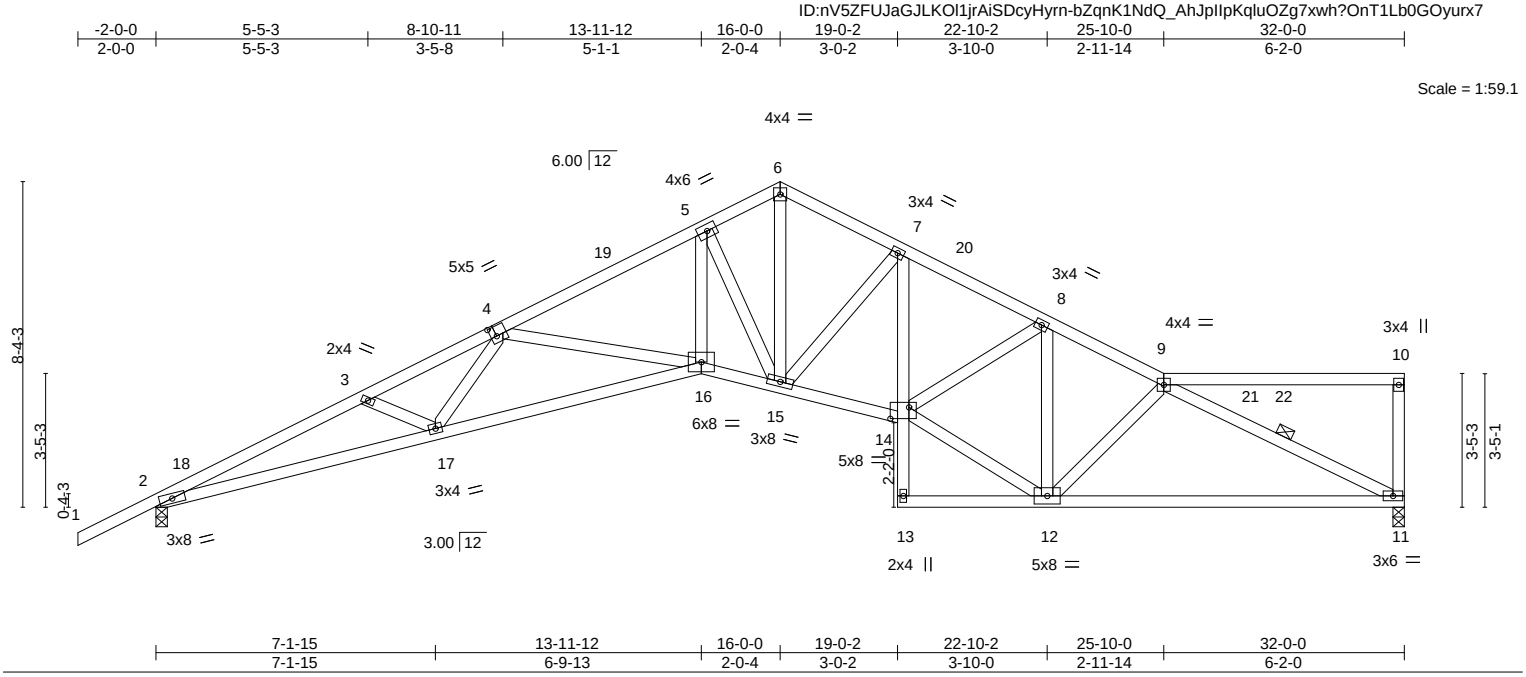


Plate Offsets (X,Y)-- [4:0-1-12,0-3-0], [14:0-5-12,0-3-8]

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	0.64	Vert(LL)	-0.31	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.66	16-17	>576	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.38	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.19	16-17	>999	240	Weight: 192 lb	FT = 20%

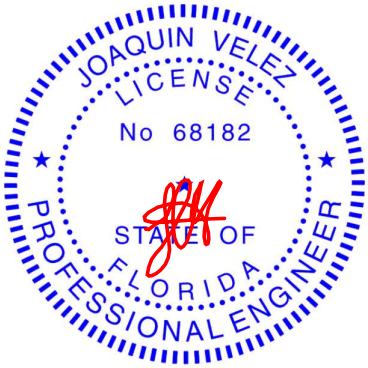
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-16: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=119(LC 11)
Max Uplift 11=-57(LC 12), 2=-114(LC 12)
Max Grav 11=1264(LC 1), 2=1401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4271/387, 3-4=-4044/349, 4-5=-3141/326, 5-6=-2232/283, 6-7=-2241/276, 7-8=-2652/284, 8-9=-2052/183
BOT CHORD 2-17=-418/3836, 16-17=-369/3539, 15-16=-246/2831, 14-15=-196/2381, 7-14=0/392, 11-12=-200/1966
WEBS 4-17=0/424, 4-16=-704/111, 5-16=-116/1752, 5-15=-1764/227, 6-15=-215/1825, 7-15=-561/107, 12-14=-154/2100, 8-14=-60/624, 8-12=-786/125, 9-12=-252/90, 9-11=-2154/225

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 11 and 114 lb uplift at joint 2.



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

July 25,2024

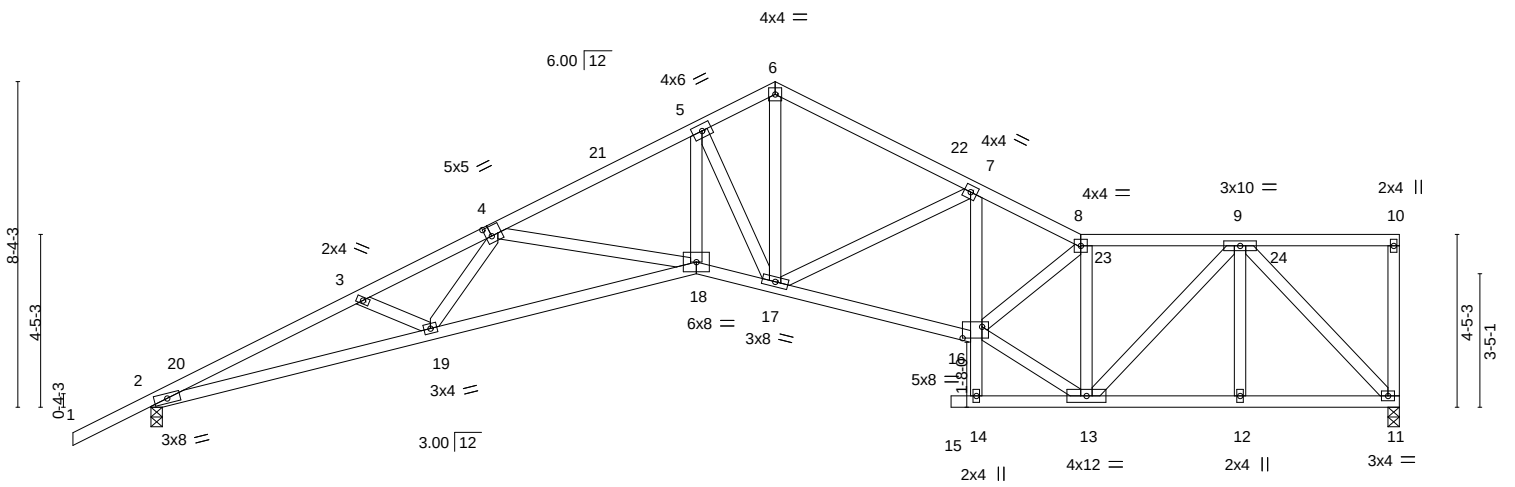
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A09	Roof Special	1	1	T34535090
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:47 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-4lO9XNOFBHIYwztUM2L_Qb6qqLJ1knPdG?LZpryurx6

-2-0-0	5-5-3	8-10-11	13-11-12	16-0-0	21-0-2	23-10-0	27-11-0	32-0-0
2-0-0	5-5-3	3-5-8	5-1-1	2-0-4	5-0-2	2-9-14	4-1-0	4-1-0

Scale = 1:59.1



7-1-15	13-11-12	16-0-0	21-0-2	23-10-0	27-11-0	32-0-0
7-1-15	6-9-13	2-0-4	5-0-2	2-9-14	4-1-0	4-1-0

Plate Offsets (X,Y)-- [4:0-1-12,0-3-0], [16:0-6-0,0-3-8]

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	0.64	Vert(LL)	-0.31	18-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.66	18-19	>575	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.38	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.19	18-19	>999	240	Weight: 196 lb	FT = 20%

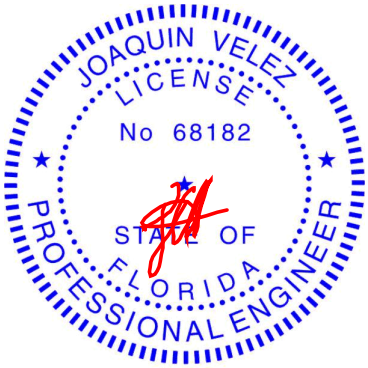
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-18: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
10-0-0 oc bracing: 14-16

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=134(LC 12)
Max Uplift 11=-54(LC 12), 2=-109(LC 12)
Max Grav 11=1272(LC 1), 2=1406(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4289/389, 3-4=-4062/351, 4-5=-3159/329, 5-6=-2250/275, 6-7=-2298/262, 7-8=-2815/260, 8-9=-1826/154
BOT CHORD 2-19=-446/3852, 18-19=-397/3557, 17-18=-276/2844, 16-17=-233/2594, 7-16=0/302, 12-13=-100/1093, 11-12=-100/1093
WEBS 4-19=0/424, 4-18=-704/112, 5-18=-139/1751, 5-17=-1746/240, 6-17=-181/1779, 7-17=-627/95, 13-16=-178/2196, 8-16=-75/797, 8-13=-1918/198, 9-13=-78/1063, 9-11=-1572/142

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 11 and 109 lb uplift at joint 2.



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

July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A10	Roof Special	1	1	T34535091
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:48 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-YxyXljOtybQPY7ShwlsDzpe1jkclTJ3mVf47LHyurx5

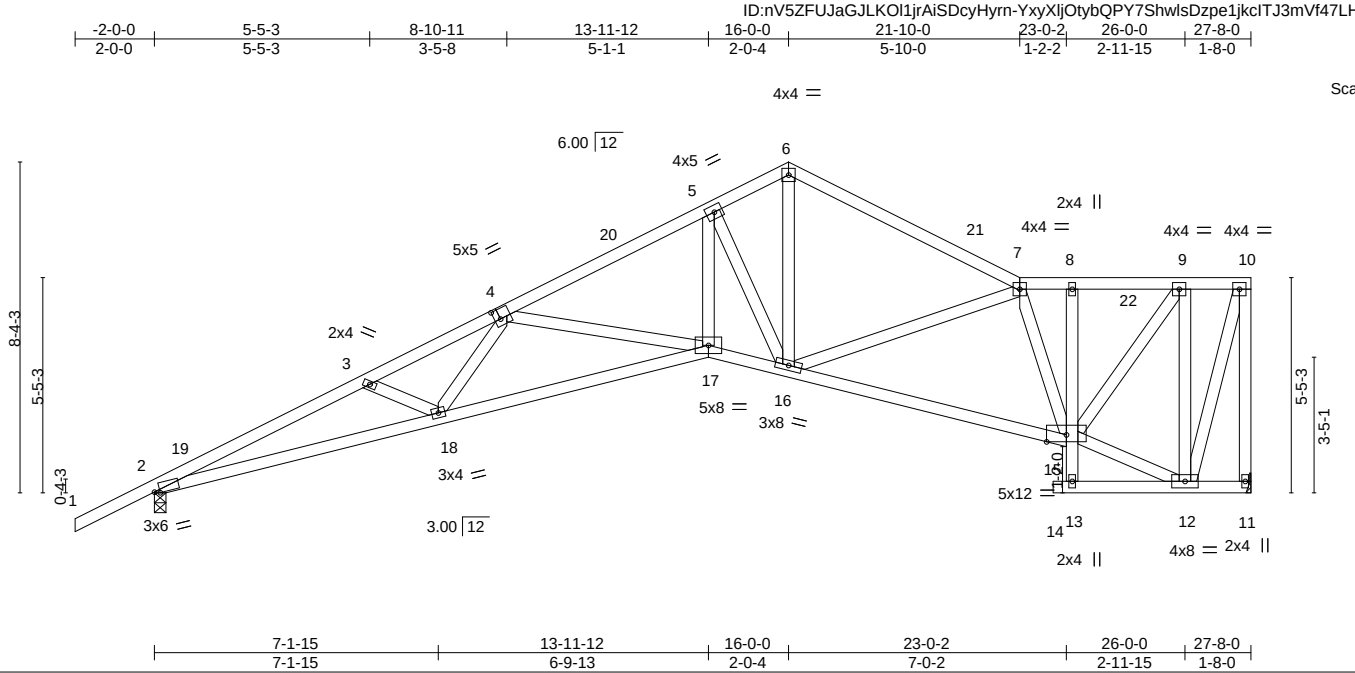


Plate Offsets (X,Y)-- [2:0-1-11,0-0-10], [4:0-1-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.24	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.52	17-18	>630	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.31	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.15	17-18	>999	240	Weight: 179 lb	FT = 20%

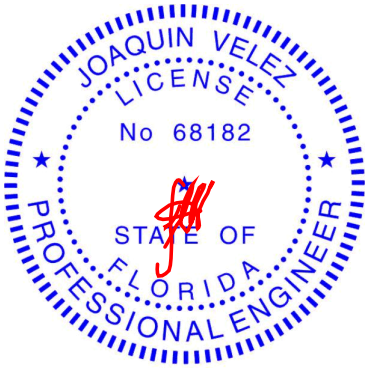
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 13-15

REACTIONS. (size) 11=Mechanical, 2=0-3-8
Max Horz 2=158(LC 12)
Max Uplift 11=-52(LC 12), 2=-98(LC 12)
Max Grav 11=1098(LC 1), 2=1230(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3592/349, 3-4=-3361/310, 4-5=-2409/286, 5-6=-1650/229, 6-7=-1705/213, 7-8=-1034/100, 8-9=-1021/102, 9-10=-304/36, 10-11=-1060/136
BOT CHORD 2-18=-434/3219, 17-18=-385/2884, 16-17=-265/2151, 15-16=-170/1432
WEBS 4-18=0/447, 4-17=-715/113, 5-17=-146/1411, 5-16=-1436/240, 6-16=-122/1204, 7-15=-1072/183, 12-15=-17/308, 9-15=-114/1231, 9-12=-1112/163, 10-12=-123/1046

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 27-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 11 and 98 lb uplift at joint 2.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535092
6243109	A11	ROOF SPECIAL	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:48 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-YxyXljOtybQPY7ShwlsDzpe0qkcITCSmVf47LHyurx5

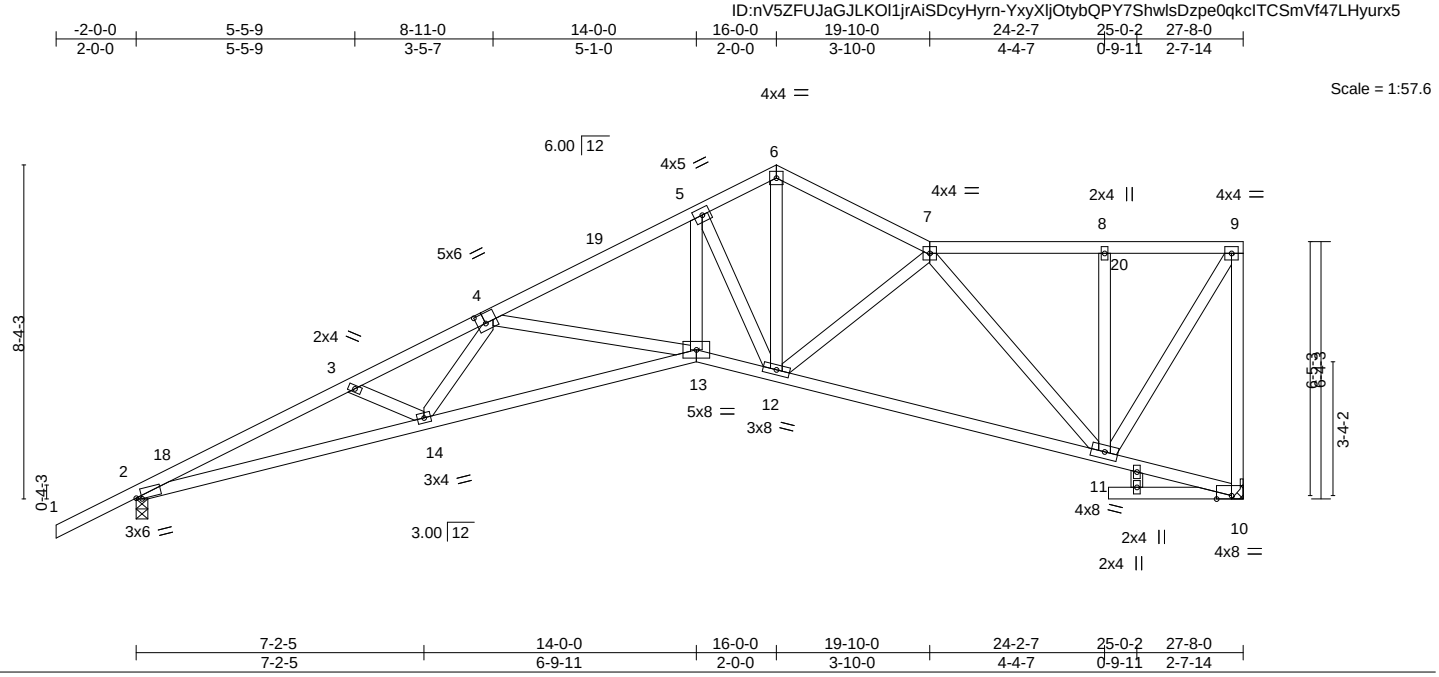


Plate Offsets (X,Y)-- [2:0-1-11,0-0-10], [4:0-2-8,0-3-0], [10:0-4-8,Edge]

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	0.63	Vert(LL)	-0.24	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.52	13-14	>634	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.31	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16	13-14	>999	240	Weight: 171 lb	FT = 20%

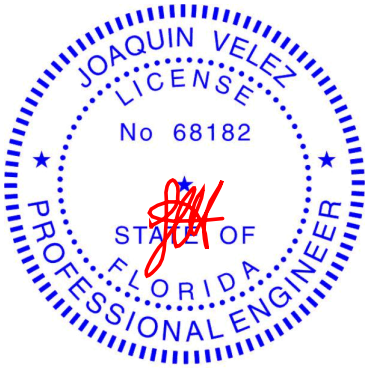
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-6-10 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=181(LC 12)
Max Uplift 2=-94(LC 12), 10=-61(LC 12)
Max Grav 2=1229(LC 1), 10=1090(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3586/357, 3-4=-3352/318, 4-5=-2399/295, 5-6=-1653/230, 6-7=-1668/218, 9-10=-1081/147, 7-8=-639/67, 8-9=-638/67
BOT CHORD 2-14=-467/3213, 13-14=-417/2873, 12-13=-301/2141, 11-12=-202/1503
WEBS 4-14=0/450, 4-13=-715/112, 5-13=-168/1398, 5-12=-1452/270, 6-12=-152/1285, 8-11=-269/96, 9-11=-123/1191, 7-11=-1251/190

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone3 16-0-0 to 19-10-0, Zone1 19-10-0 to 27-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 61 lb uplift at joint 10.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535093
6243109	A12	ROOF SPECIAL	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:49 2024 Page 1
ID:nV5ZFUJaGJLKOI1jrAiSDcyHyrn-08Vwy3PVjvYFAH1tUTNSV0BAG8yYCm_wjJqgtjyurx4

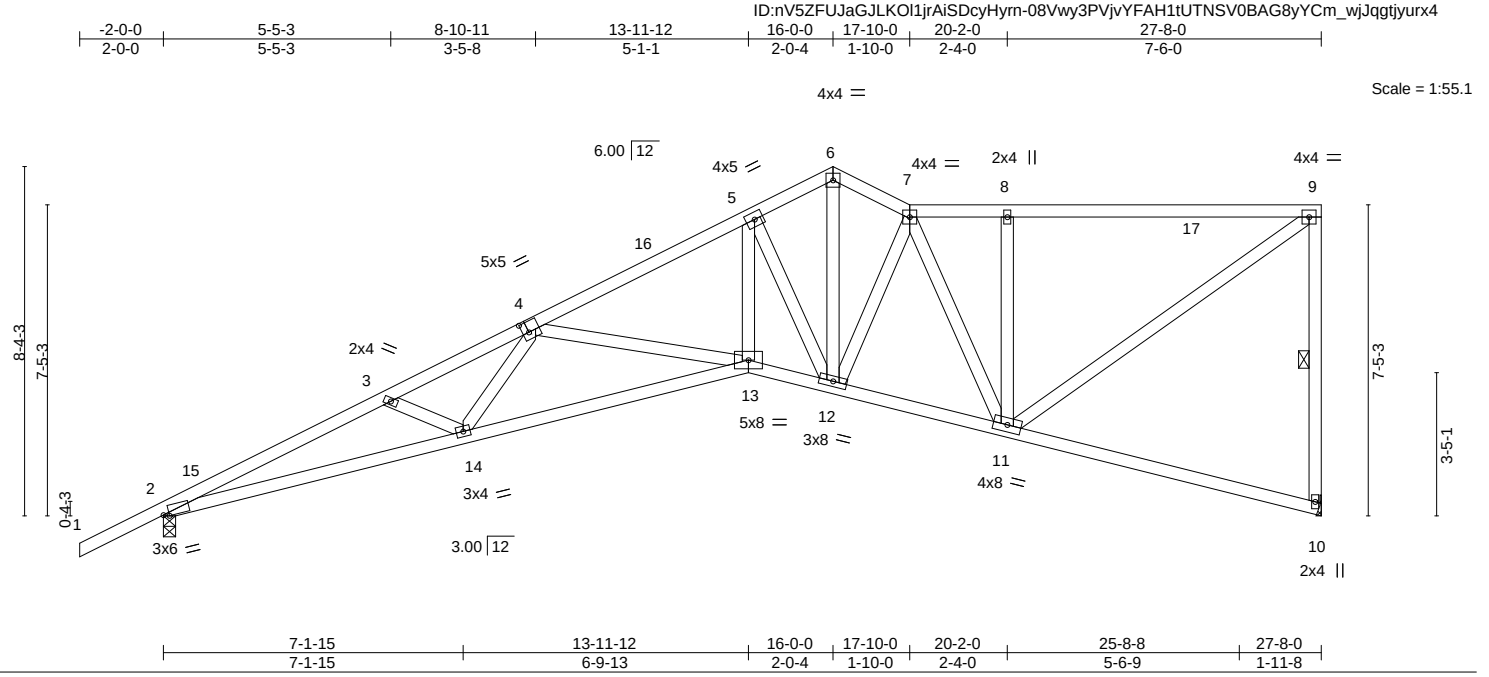


Plate Offsets (X,Y)-- [2:0-1-11,0-0-10], [4:0-1-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.24	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.51	13-14	>638	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.30	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16	13-14	>999	240	Weight: 169 lb	FT = 20%

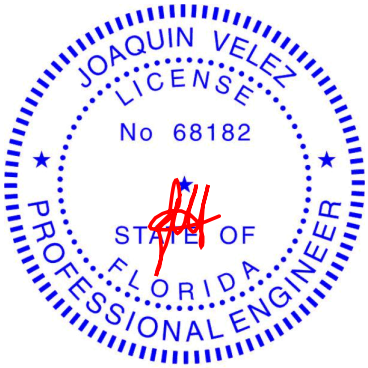
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-13 oc bracing.
WEBS 1 Row at midpt 9-10

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=205(LC 12)
Max Uplift 10=-67(LC 12), 2=-89(LC 12)
Max Grav 10=1090(LC 1), 2=1229(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3586/358, 3-4=-3353/319, 4-5=-2405/295, 5-6=-1629/238, 6-7=-1590/230, 7-8=-1181/146, 8-9=-1181/147, 9-10=-1026/190
BOT CHORD 2-14=-493/3213, 13-14=-443/2880, 12-13=-318/2159, 11-12=-205/1497
WEBS 4-14=0/445, 4-13=-713/112, 5-13=-147/1450, 5-12=-1503/256, 6-12=-174/1277, 8-11=-453/145, 7-11=-655/105, 9-11=-177/1429

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-0-0, Zone3 16-0-0 to 17-10-0, Zone1 17-10-0 to 27-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 10 and 89 lb uplift at joint 2.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535094
6243109	A13	Roof Special	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:49 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-08Vwy3PVjvYFAH1tUTNSV0BCk8yYCjbwjJqgtjyurx4

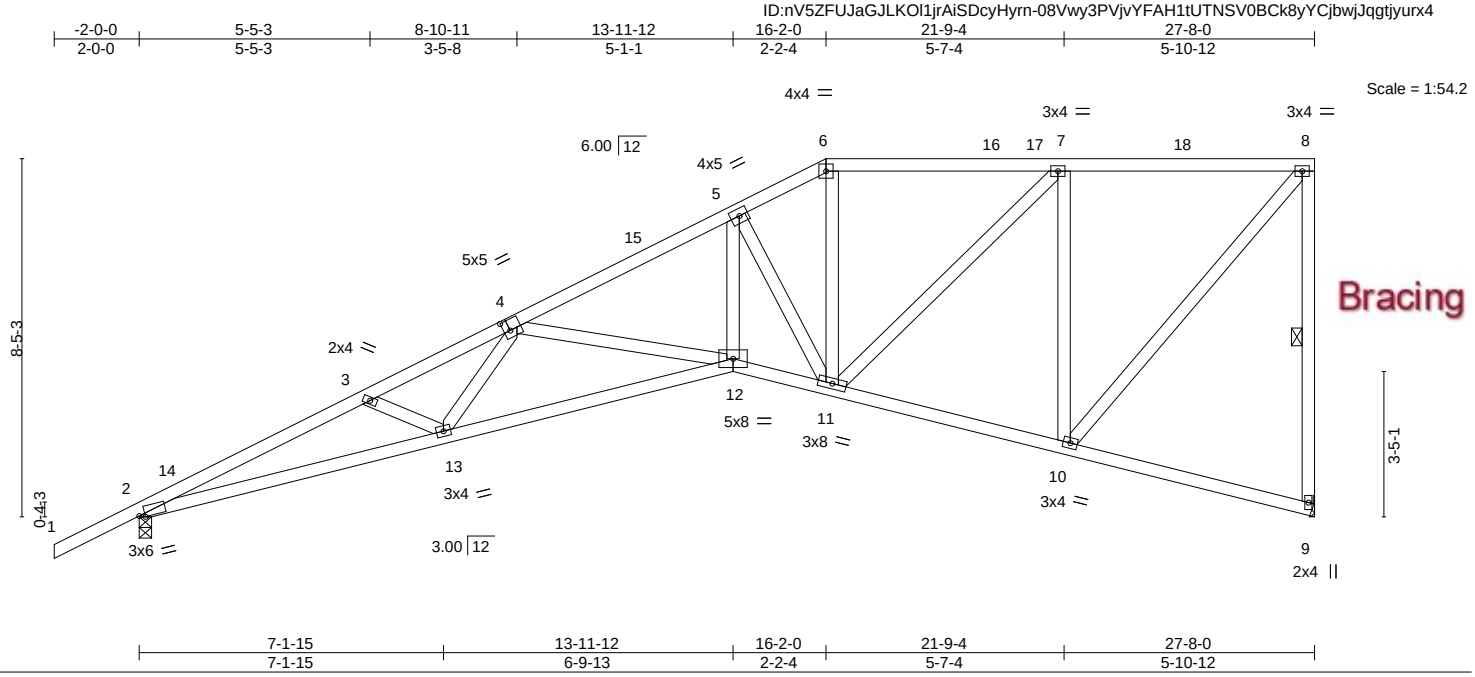


Plate Offsets (X,Y)-- [2:0-1-11,0-0-10], [4:0-1-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.23	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.51	12-13	>650	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.29	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.16	12-13	>999	240	Weight: 168 lb	FT = 20%

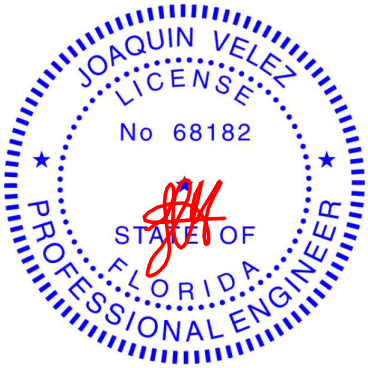
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-12 oc bracing.
WEBS 1 Row at midpt 8-9

REACTIONS. (size) 9=Mechanical, 2=0-3-8
Max Horz 2=229(LC 12)
Max Uplift 9=-74(LC 12), 2=-82(LC 12)
Max Grav 9=1090(LC 1), 2=1229(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3586/353, 3-4=-3353/314, 4-5=-2405/291, 5-6=-1557/213, 6-7=-1373/200, 7-8=-783/102, 8-9=-1041/187
BOT CHORD 2-13=-514/3213, 12-13=-464/2876, 11-12=-344/2157, 10-11=-114/819
WEBS 4-13=0/446, 4-12=-704/110, 5-12=-167/1441, 5-11=-1499/272, 6-11=-44/490, 7-11=-136/821, 7-10=-968/221, 8-10=-154/1186

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 16-2-0, Zone2 16-2-0 to 20-4-15, Zone1 20-4-15 to 27-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 9 and 82 lb uplift at joint 2.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A14	Roof Special	1	1	T34535095
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:50 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-UK3I9PQ7UCh6nQc32Auh2EkNXYImx6C3yzZEPAyurx3

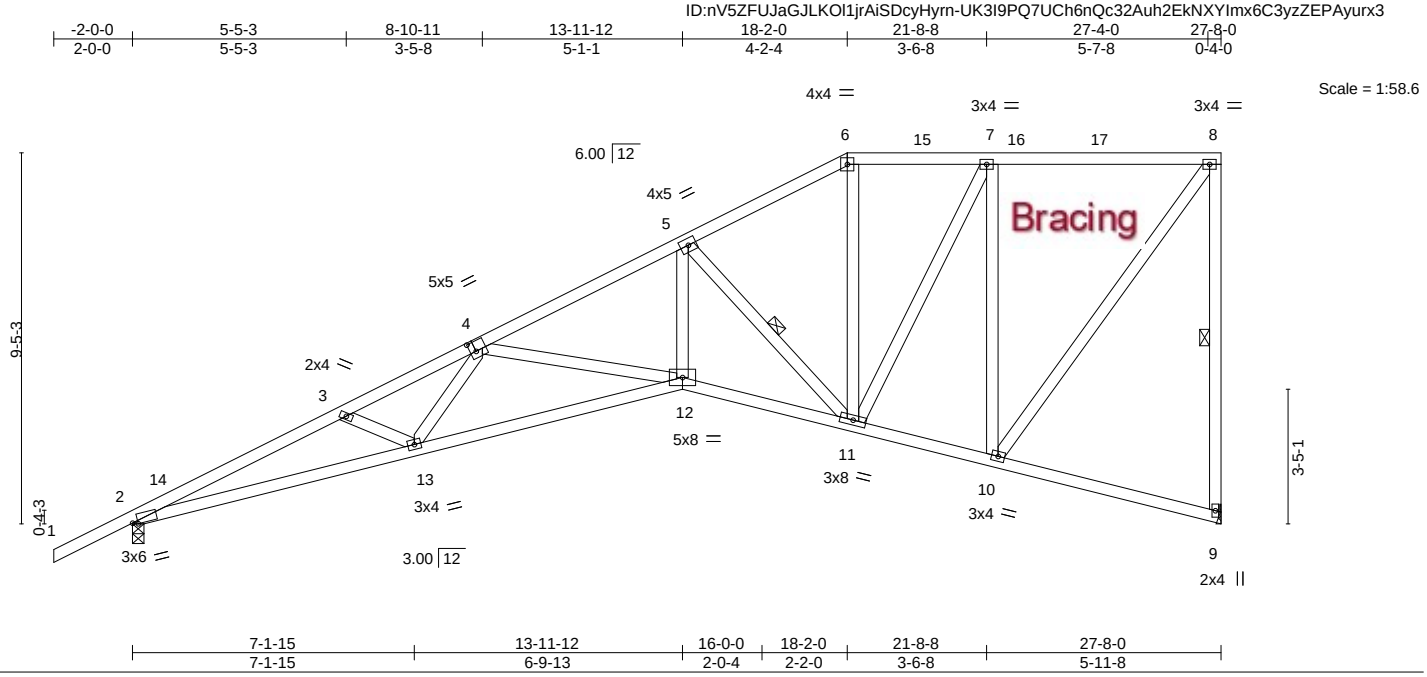


Plate Offsets (X,Y)-- [2:0-1-11,0-0-10], [4:0-1-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.23	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.51	12-13	>645	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.30	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.16	12-13	>999	240	Weight: 178 lb	FT = 20%

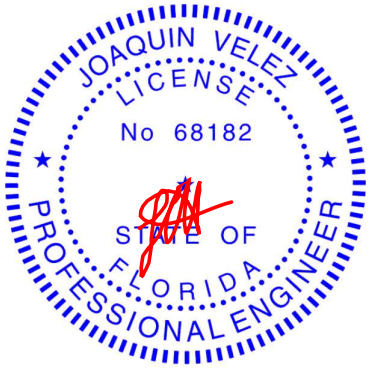
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-5 oc bracing.
WEBS 1 Row at midpt 5-11, 8-9

REACTIONS. (size) 2=0-3-8, 9=Mechanical
Max Horz 2=253(LC 12)
Max Uplift 2=-74(LC 12), 9=-82(LC 12)
Max Grav 2=1229(LC 1), 9=1090(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3587/331, 3-4=-3351/289, 4-5=-2413/273, 5-6=-1160/142, 6-7=-985/152, 7-8=-664/95, 8-9=-1040/200
BOT CHORD 2-13=-520/3214, 12-13=-462/2875, 11-12=-359/2175, 10-11=-105/691
WEBS 4-13=0/446, 4-12=-689/96, 5-12=-153/1467, 5-11=-1652/280, 6-11=0/308, 7-11=-123/695, 7-10=-950/218, 8-10=-159/1106

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 18-2-0, Zone2 18-2-0 to 22-4-15, Zone1 22-4-15 to 27-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 82 lb uplift at joint 9.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A15	Roof Special	1	1	T34535096
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:51 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-yWdgNkRlFWpzPaBGbtPwaRGWTyeiggSDBdJnycyurx2

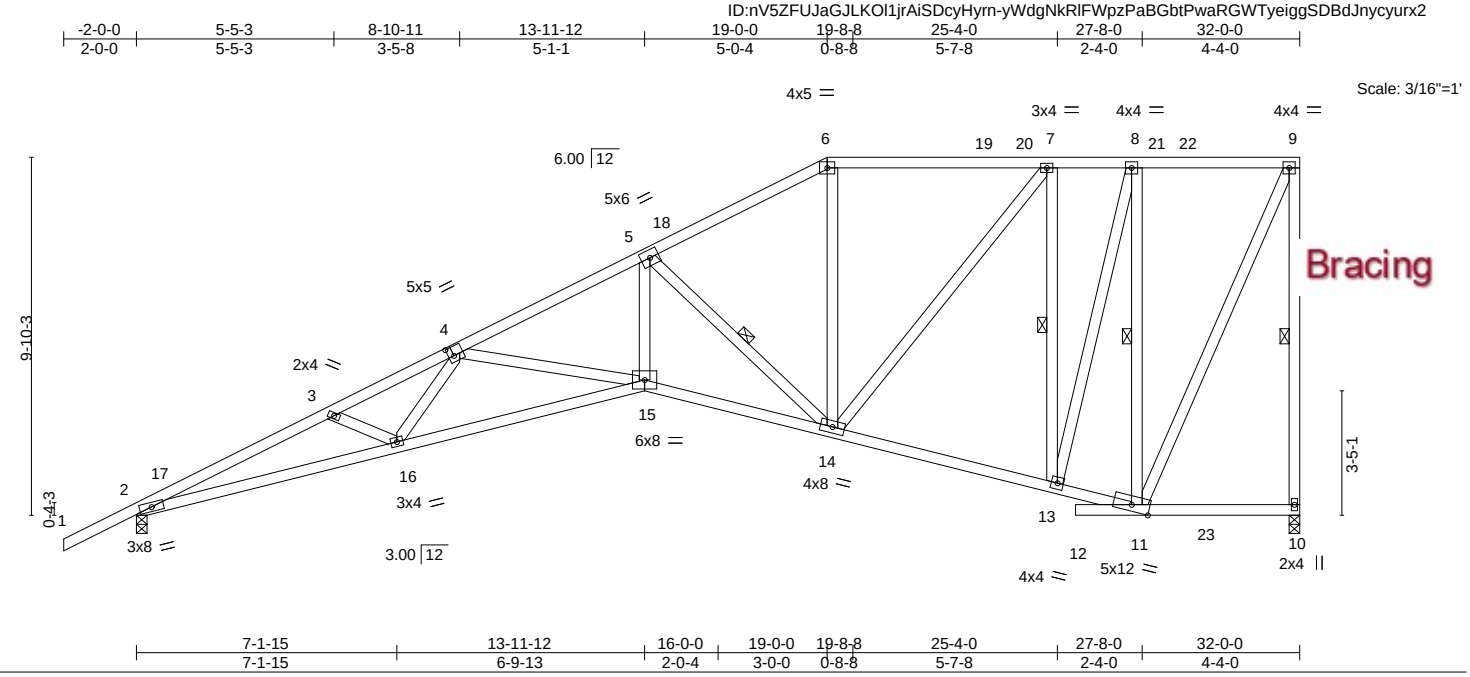


Plate Offsets (X,Y)-- [4:0-1-12,0-3-0], [11:0-6-0,0-2-2]

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	0.66	Vert(LL)	-0.36	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.70	15-16	>545	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.38	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.20	15-16	>999	240	Weight: 229 lb	FT = 20%

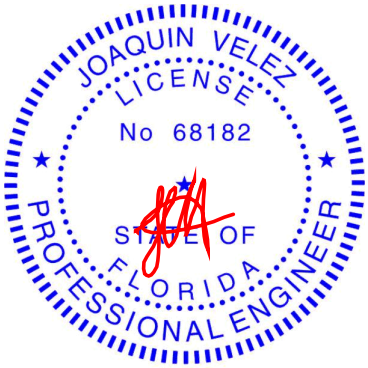
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-15: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-6 oc bracing.
WEBS 1 Row at midpt 5-14, 7-13, 8-11, 9-10

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=263(LC 12)
Max Uplift 2=-80(LC 12), 10=-70(LC 12)
Max Grav 2=1549(LC 17), 10=1477(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4848/386, 3-4=-4656/344, 4-5=-3576/333, 5-6=-1727/161, 6-7=-1508/176, 7-8=-878/86, 8-9=-588/56, 9-10=-1386/181
BOT CHORD 2-16=-581/4441, 15-16=-523/4078, 14-15=-429/3290, 13-14=-97/933, 11-13=-59/623
WEBS 4-16=0/469, 4-15=-773/90, 5-15=-183/2118, 5-14=-2307/319, 6-14=0/459, 7-14=-143/998, 7-13=-1018/200, 8-13=-135/1146, 8-11=-1259/189, 9-11=-134/1411

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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, with BCDL = 10.0psf.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 70 lb uplift at joint 10.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535097
6243109	A16	Roof Special	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:51 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-yWdgNkRlFWpzPaBGbtPwaRGWPyjZgaMDBdJnycyurx2

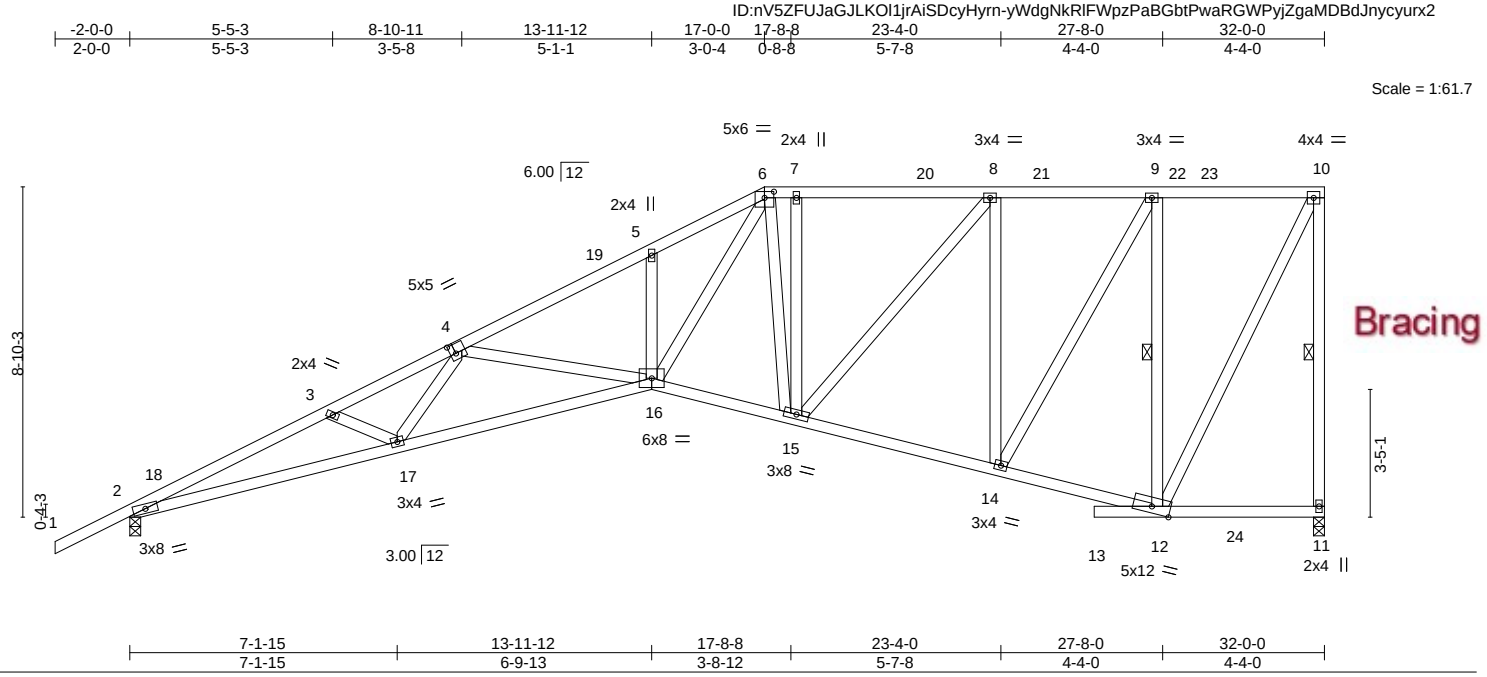


Plate Offsets (X,Y)-- [4:0-1-12,0-3-0], [6:0-3-0,0-2-0], [12:0-6-0,0-2-2]

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	0.67	Vert(LL)	-0.35	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.68	16-17	>562	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.35	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.19	16-17	>999	240	Weight: 223 lb	FT = 20%

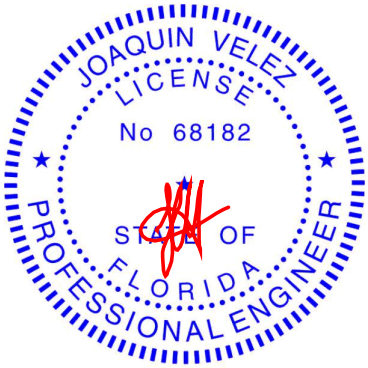
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-16: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-10-6 oc bracing: 2-17
9-3-4 oc bracing: 16-17.
WEBS 1 Row at midpt 9-12, 10-11

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=239(LC 12)
Max Uplift 2=-87(LC 12), 11=-64(LC 12)
Max Grav 2=1545(LC 17), 11=1467(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4827/401, 3-4=-4639/362, 4-5=-3546/346, 5-6=-3551/420, 6-7=-1863/209, 7-8=-1863/209, 8-9=-1238/117, 9-10=-655/57, 10-11=-1378/169
BOT CHORD 2-17=-569/4415, 16-17=-519/4055, 15-16=-236/2001, 14-15=-128/1299, 12-14=-64/698
WEBS 4-17=0/464, 4-16=-794/103, 5-16=-274/141, 6-16=-332/2382, 6-15=-465/104, 7-15=-308/135, 8-15=-140/949, 8-14=-960/185, 9-14=-123/1159, 9-12=-1229/199, 10-12=-124/1436

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 2 and 64 lb uplift at joint 11.



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

July 25,2024

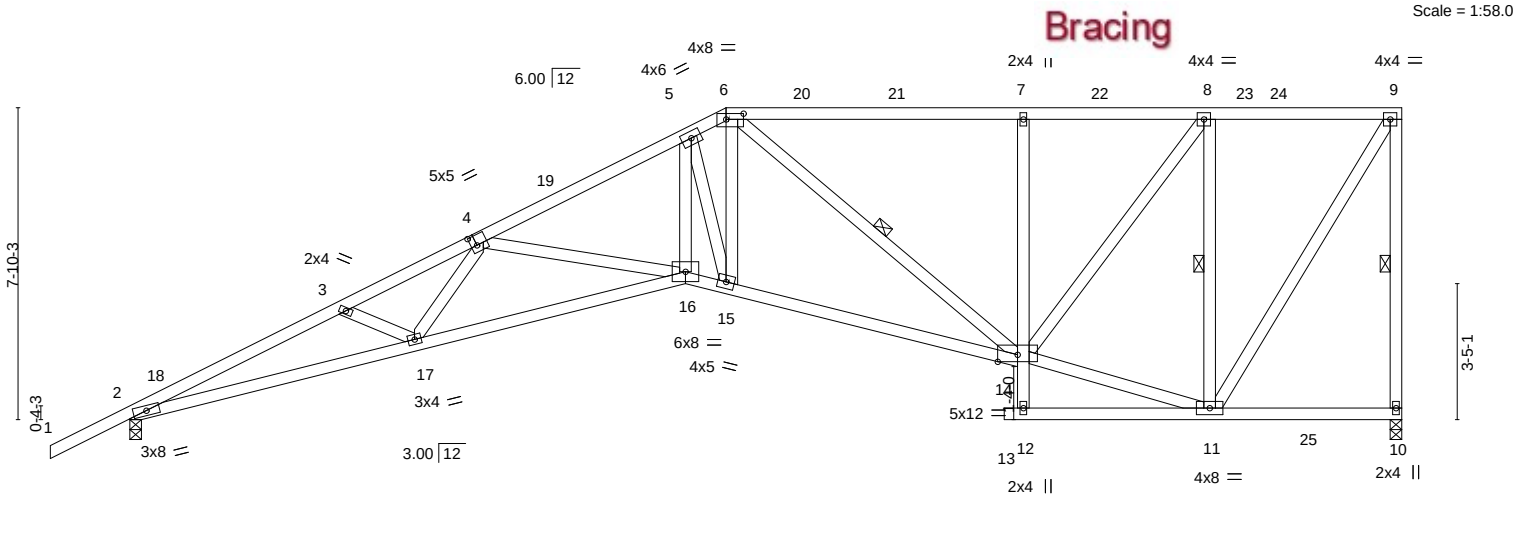
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535098
6243109	A17	Hip	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:52 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-QiB2a4SN0qxq1klS9bw97fphAMzOP62MQH2KU2yurx1

-2-0-0 2-0-0 | 5-5-3 5-5-3 | 8-10-11 3-5-8 | 13-11-12 5-1-1 | 15-0-0 1-0-4 | 22-7-8 7-7-8 | 27-2-0 4-6-8 | 32-0-0 4-10-0

Scale = 1:58.0



7-1-15 7-1-15 | 13-11-12 6-9-13 | 15-0-0 1-0-4 | 22-6-0 7-6-0 | 27-2-0 4-8-0 | 32-0-0 4-10-0

Plate Offsets (X,Y)-- [4:0-1-12,0-3-0], [6:0-5-4,0-1-12]

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	0.67	Vert(LL)	-0.37	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.71	16-17	>535	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.38	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.20	16-17	>999	240	Weight: 211 lb	FT = 20%

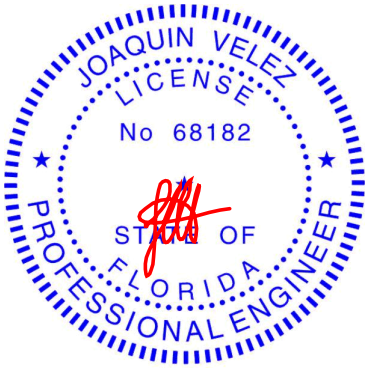
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-16: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 10-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 6-14, 8-11, 9-10

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=215(LC 12)
Max Uplift 2=-95(LC 12), 10=-70(LC 12)
Max Grav 2=1537(LC 17), 10=1421(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4787/362, 3-4=-4600/324, 4-5=-3492/299, 5-6=-2838/260, 6-7=-1544/126, 7-8=-1524/123, 8-9=-762/57, 9-10=-1325/134
BOT CHORD 2-17=-497/4373, 16-17=-448/4011, 15-16=-331/3146, 14-15=-256/2731, 7-14=-406/120
WEBS 4-17=0/467, 4-16=-810/114, 5-16=-198/1900, 5-15=-1817/268, 6-15=-150/1905, 6-14=-1399/148, 11-14=-42/767, 8-14=-112/1265, 8-11=-1236/169, 9-11=-106/1431

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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, with BCDL = 10.0psf.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2 and 70 lb uplift at joint 10.



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

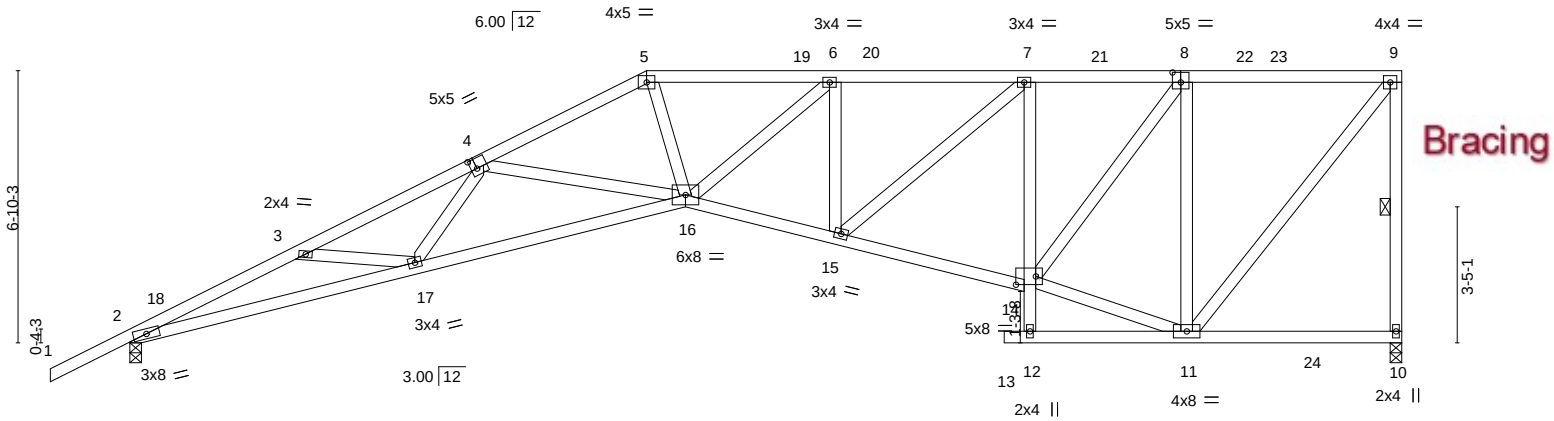
July 25,2024

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535099
6243109	A18	Hip	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:52 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-QiB2a4SN0qxq1klS9bw97fpi8M1qP0TMQH2KU2yurx1

-2-0-0	4-5-1	8-10-12	13-0-0	17-9-0	22-6-0	26-8-13	32-0-0
2-0-0	4-5-1	4-5-12	4-1-4	4-9-0	4-9-0	4-2-13	5-3-3

Scale = 1:58.0



7-2-0	13-11-12	17-9-0	22-6-0	24-7-8	26-8-13	32-0-0
7-2-0	6-9-12	3-9-4	4-9-0	2-1-8	2-1-5	5-3-3

Plate Offsets (X,Y)-- [4:0-1-12,0-3-0], [8:0-2-8,0-3-0], [14:0-6-0,0-2-8]

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	0.61	Vert(LL)	-0.36	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.68	16-17	>557	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.37	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.19	16-17	>999	240	Weight: 200 lb	FT = 20%

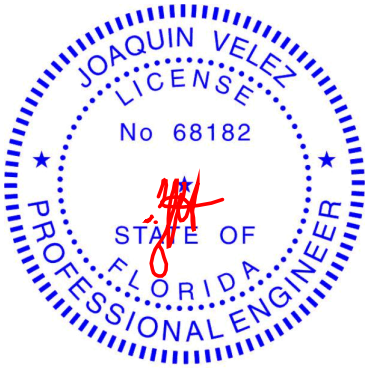
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-16: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing. Except: 10-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 9-10

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=191(LC 12)
Max Uplift 2=-100(LC 12), 10=-64(LC 12)
Max Grav 2=1533(LC 17), 10=1418(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4742/385, 3-4=-4555/306, 4-5=-3499/293, 5-6=-3505/300, 6-7=-2729/215, 7-8=-1792/126, 8-9=-967/67, 9-10=-1309/129
BOT CHORD 2-17=-499/4322, 16-17=-424/3990, 15-16=-228/2828, 14-15=-136/1869, 7-14=-970/136
WEBS 4-17=0/413, 4-16=-775/119, 5-16=-57/1395, 6-16=-110/1007, 6-15=-896/156, 7-15=-115/1199, 11-14=-61/993, 8-14=-98/1353, 8-11=-1336/170, 9-11=-105/1526

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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, with BCDL = 10.0psf.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2 and 64 lb uplift at joint 10.



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

July 25,2024

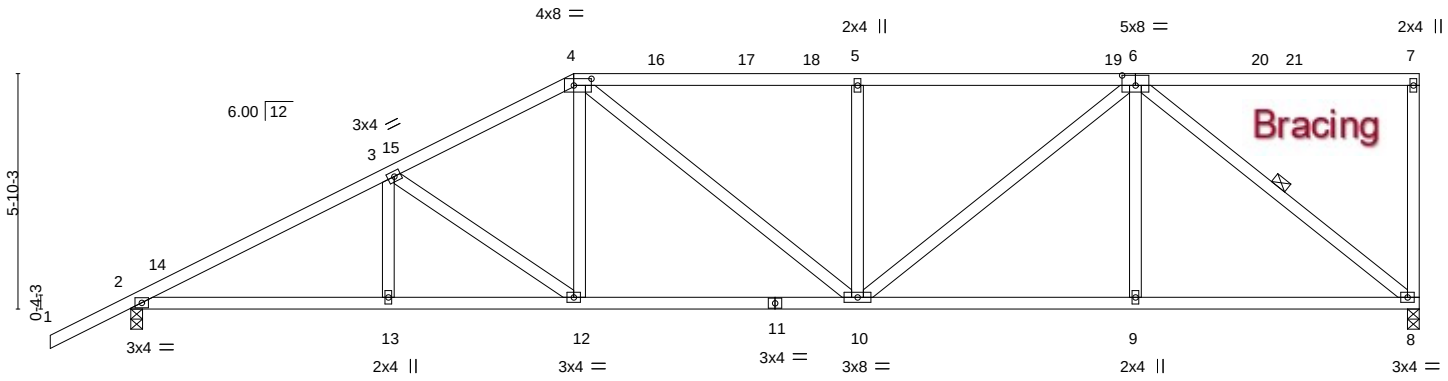
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535100
6243109	A19	Hip	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:53 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-uvlQoQS0m73heuKejISOgsMs6lOb8ZBVexou0Uyurx0

-2-0-0	6-4-12	11-0-0	18-0-9	24-11-7	32-0-0
2-0-0	6-4-12	4-7-4	7-0-9	6-10-13	7-0-9

Scale = 1:57.2



6-4-12	11-0-0	18-0-9	24-11-7	32-0-0
6-4-12	4-7-4	7-0-9	6-10-13	7-0-9

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.24	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	10-12	>999	240	Weight: 182 lb	FT = 20%

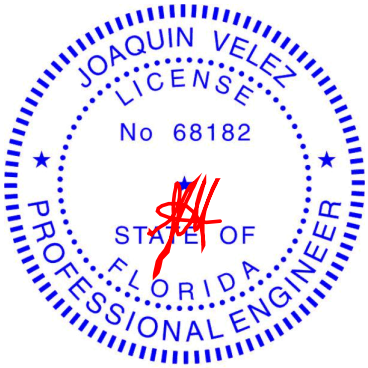
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=168(LC 12)
Max Uplift 8=-64(LC 12), 2=-107(LC 12)
Max Grav 8=1264(LC 1), 2=1401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2329/141, 3-4=-1898/151, 4-5=-1830/149, 5-6=-1830/149
BOT CHORD 2-13=-223/1993, 12-13=-223/1993, 10-12=-158/1646, 9-10=-97/1290, 8-9=-97/1290
WEBS 3-12=-431/78, 4-12=0/416, 5-10=-440/128, 6-10=-70/693, 6-9=0/297, 6-8=-1629/123

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 64 lb uplift at joint 8 and 107 lb uplift at joint 2.



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

July 25,2024

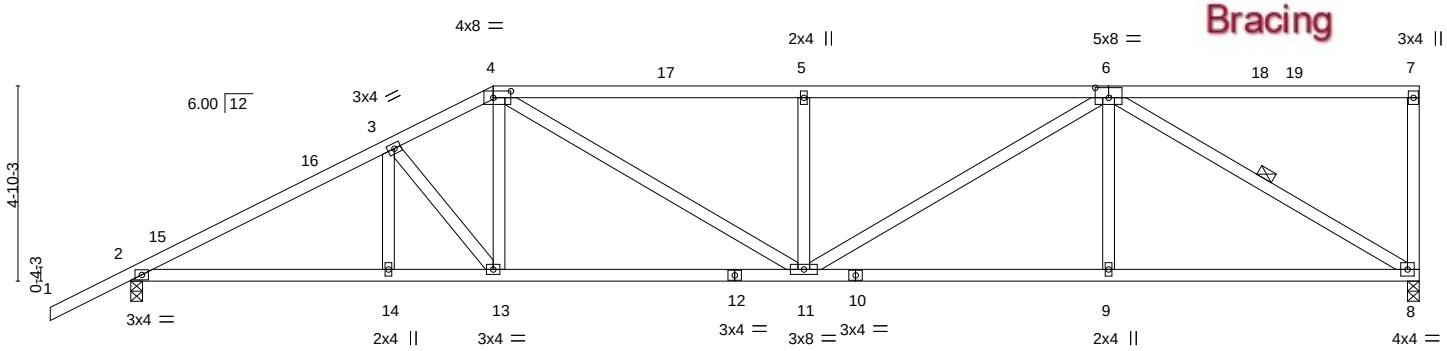
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A20	Half Hip	1	1	T34535101
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:53 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-uvlQoQS0m73heuKejISOgsMnwlMQ8YXVexou0Uyurx0

-2-0-0	6-4-13	9-0-0	16-8-9	24-3-7	32-0-0
2-0-0	6-4-13	2-7-4	7-8-9	7-6-13	7-8-9

Scale = 1:57.2



6-4-13	9-0-0	16-8-9	24-3-7	32-0-0
6-4-13	2-7-4	7-8-9	7-6-13	7-8-9

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	-0.13	11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.31	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.08	11	>999	240	Weight: 173 lb	FT = 20%

LUMBER-

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

BRACING-

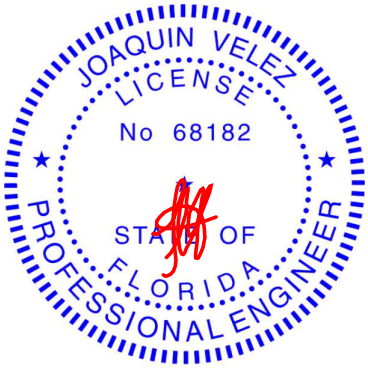
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-8

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=144(LC 12)
Max Uplift 8=-61(LC 12), 2=-110(LC 12)
Max Grav 8=1264(LC 1), 2=1401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2321/150, 3-4=-2041/166, 4-5=-2277/171, 5-6=-2277/171
BOT CHORD 2-14=-205/1984, 13-14=-205/1984, 11-13=-159/1801, 9-11=-118/1687, 8-9=-118/1687
WEBS 3-13=-304/71, 4-13=0/389, 4-11=-25/553, 5-11=-482/139, 6-11=-67/688, 6-9=0/324, 6-8=-1929/134

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 31-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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 61 lb uplift at joint 8 and 110 lb uplift at joint 2.



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

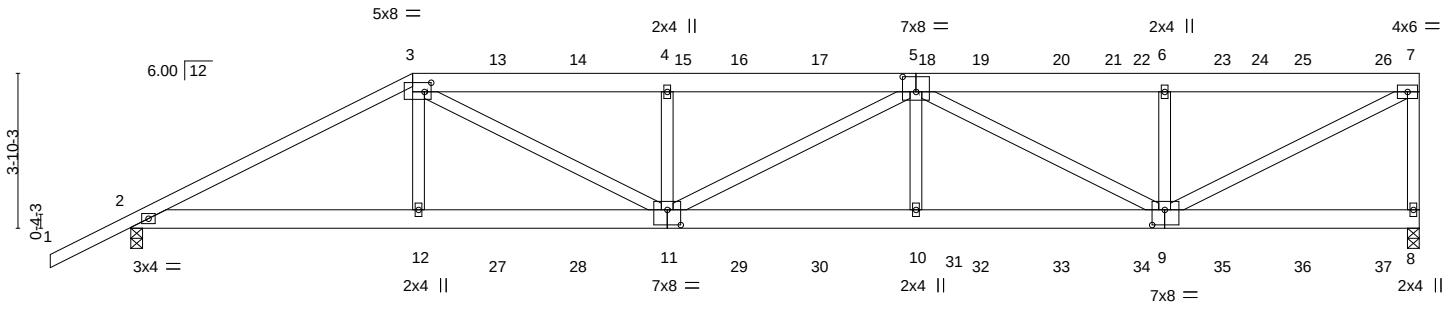
July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	A21	Half Hip Girder	1	2	T34535102
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:54 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-M5Jp?mTeXRBYG2vqH0zdC4u4e9kkt2hftbXRYxyurx?

Scale = 1:57.2



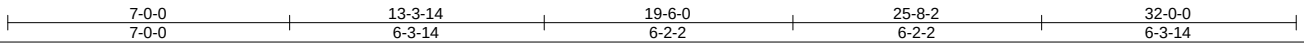


Plate Offsets (X,Y)-- [3:0-2-0,0-2-12], [5:0-4-0,0-4-8], [9:0-3-12,0-4-8], [11:0-4-0,0-4-8]

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	0.48	Vert(LL)	-0.15	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.31	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.10	10-11	>999	240	Weight: 418 lb	FT = 20%

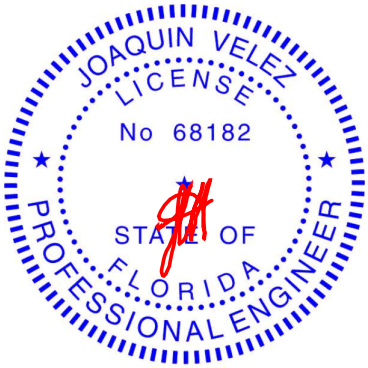
LUMBER-
TOP CHORD 2x6 SP No.2 *Except* 1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=119(LC 8)
Max Uplift 8=-183(LC 8), 2=-161(LC 8)
Max Grav 8=2649(LC 1), 2=2468(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4738/182, 3-4=-6071/369, 4-5=-6068/368, 5-6=-3987/269, 6-7=-3987/269, 7-8=-2504/251
BOT CHORD 2-12=-188/4152, 11-12=-179/4172, 10-11=-385/5934, 9-10=-385/5934
WEBS 3-12=0/698, 3-11=-214/2239, 4-11=-850/263, 5-10=0/529, 5-9=-2221/133, 6-9=-815/272, 7-9=-301/4479

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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 183 lb uplift at joint 8 and 161 lb uplift at joint 2.



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

July 25,2024

Continued on page 2

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

NOTES-

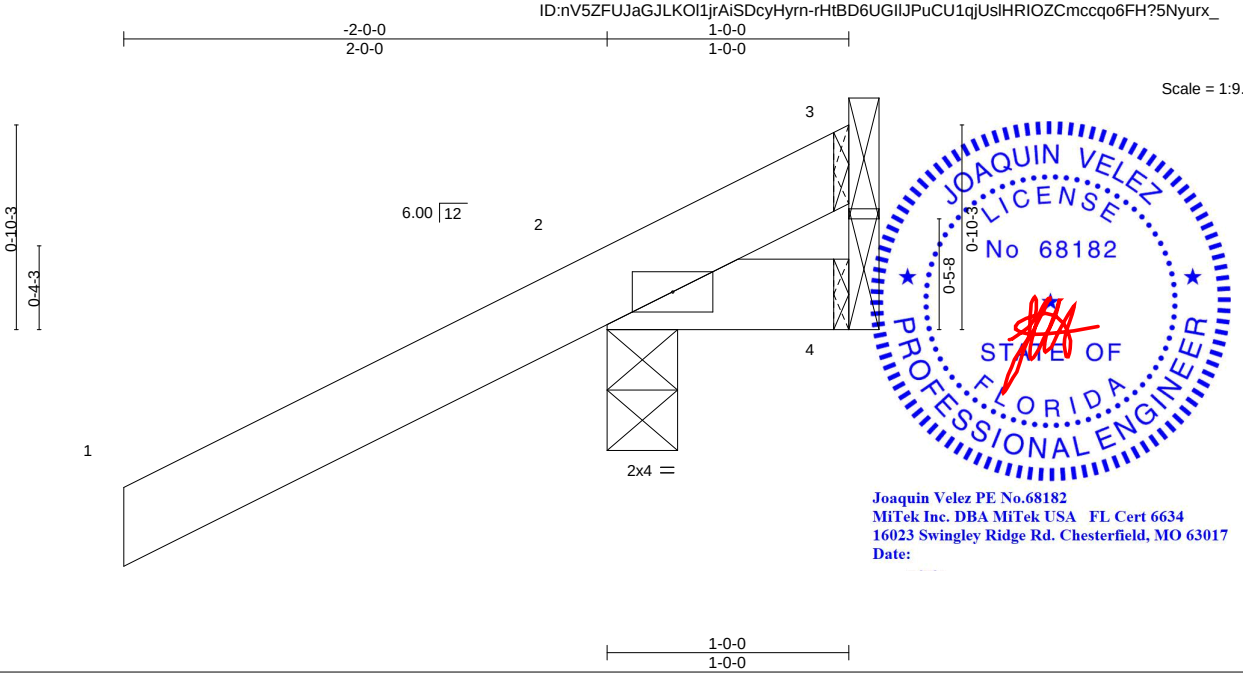
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 86 lb up at 7-0-0, 123 lb down and 83 lb up at 9-0-12, 123 lb down and 83 lb up at 11-0-12, 123 lb down and 83 lb up at 13-0-12, 123 lb down and 83 lb up at 15-0-12, 123 lb down and 83 lb up at 17-0-12, 123 lb down and 83 lb up at 19-0-12, 123 lb down and 83 lb up at 21-0-12, 123 lb down and 83 lb up at 23-0-12, 123 lb down and 83 lb up at 25-0-12, 123 lb down and 83 lb up at 27-0-12, and 123 lb down and 83 lb up at 29-0-12, and 130 lb down and 81 lb up at 31-0-12 on top chord, and 311 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, 96 lb down at 27-0-12, and 96 lb down at 29-0-12, and 100 lb down at 31-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-7=-60, 2-8=-20
   Concentrated Loads (lb)
   Vert: 3=-123(B) 12=-264(B) 11=-48(B) 13=-123(B) 14=-123(B) 15=-123(B) 16=-123(B) 17=-123(B) 18=-123(B) 19=-123(B) 20=-123(B) 22=-123(B) 23=-123(B) 25=-123(B) 26=-130(B) 27=-48(B) 28=-48(B) 29=-48(B) 30=-48(B) 31=-48(B) 32=-48(B) 33=-48(B) 34=-48(B) 35=-48(B) 36=-48(B) 37=-50(B)

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	C1	Corner Jack	10	1	T34535103
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:55 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-rHtBD6UGIlJPuCU1qjUslHRIOZCmccqo6FH?5Nyurx_



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

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	0.28	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 3=-100(LC 1), 2=-133(LC 12)
Max Grav 3=67(LC 12), 2=289(LC 1), 4=19(LC 3)

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

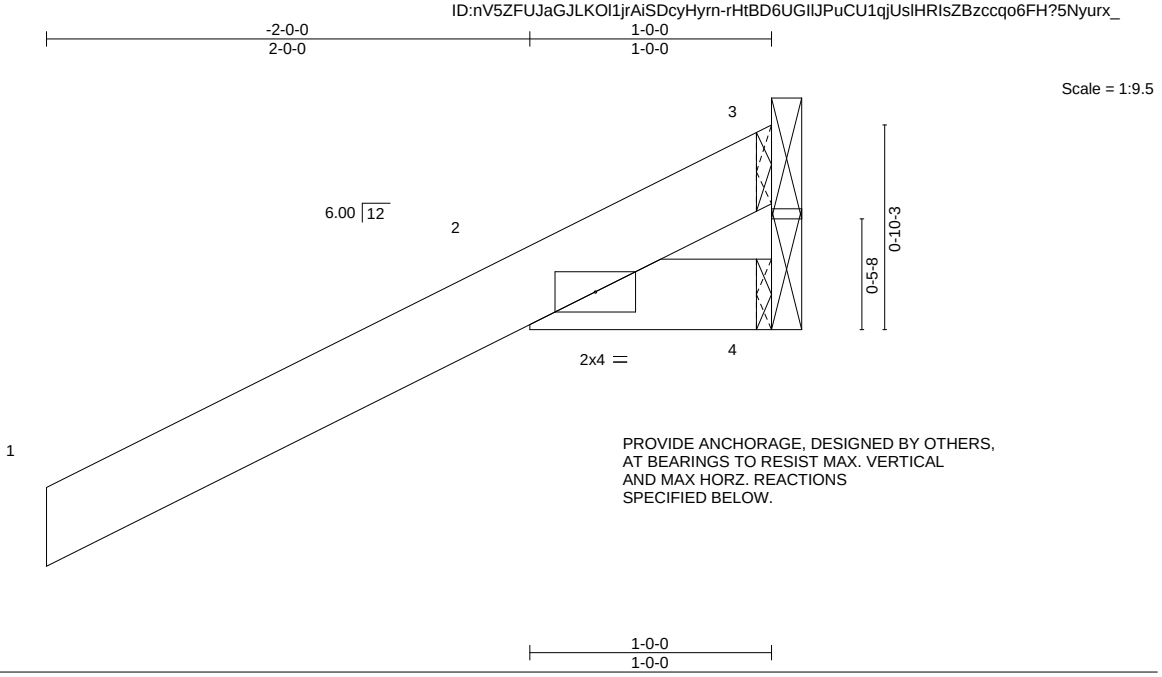
NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 3 and 133 lb uplift at joint 2.

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	C1A	Corner Jack	2	1	T34535104
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:55 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-rHtBD6UGIlJPuCU1qjUslHRIsZBzccqo6FH?5Nyurx_



PROVIDE ANCHORAGE, DESIGNED BY OTHERS, AT BEARINGS TO RESIST MAX. VERTICAL AND MAX HORZ. REACTIONS SPECIFIED BELOW.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.00	2	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.00	2	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

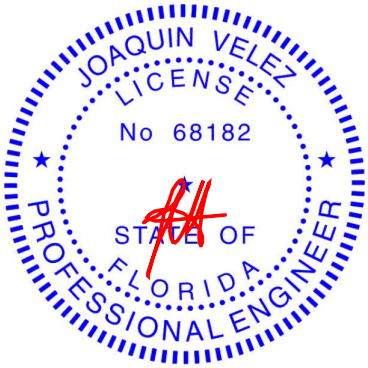
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical
Max Horz 3=522(LC 1), 4=-522(LC 1)
Max Uplift 3=-77(LC 12)
Max Grav 3=199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-633/551
BOT CHORD 2-4=-522/713

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 3.



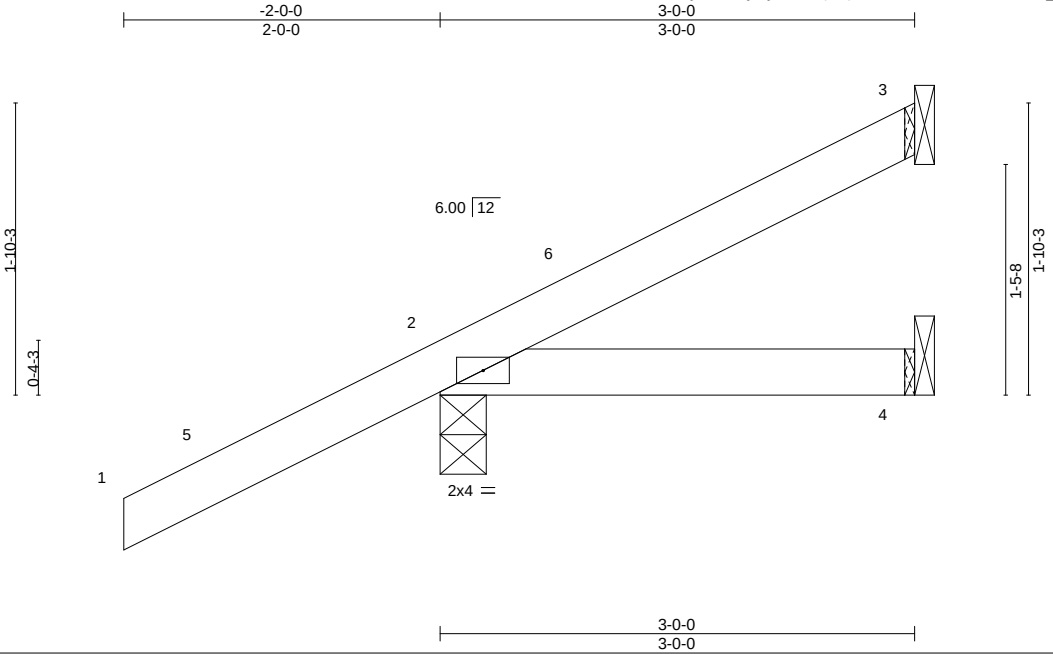
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	C3	Corner Jack	6	1	T34535105
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:56 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-JUQZQSVu32RGWM3DOR?5HV_SSzXmL24yKv0Ycpyurwz



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	0.33	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 20%

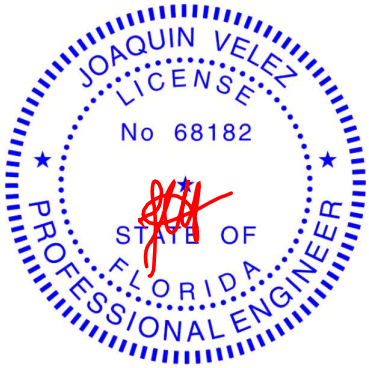
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-85(LC 12)
Max Grav 3=37(LC 17), 2=290(LC 1), 4=56(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3 and 85 lb uplift at joint 2.



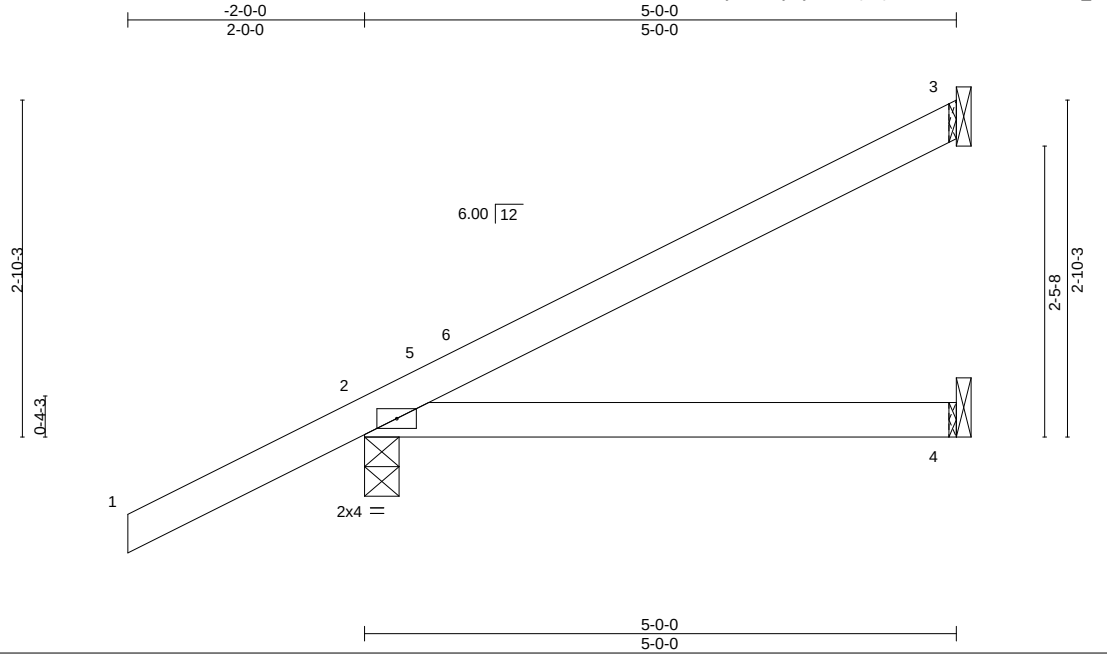
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535106
6243109	C5	Corner Jack	6	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:56 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-JUQZQSVu32RGWM3DOR?5HV_ThzUjL24yKv0Ycpyurwz



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.06	2-4	>909	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 19 lb	FT = 20%

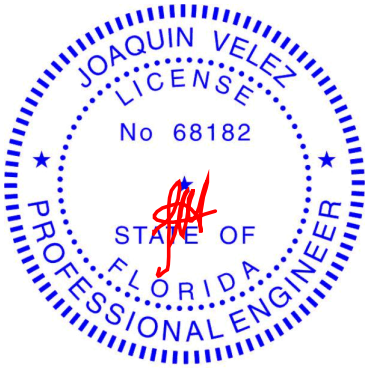
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-36(LC 12), 2=-70(LC 12)
Max Grav 3=115(LC 1), 2=349(LC 1), 4=96(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3 and 70 lb uplift at joint 2.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535107
6243109	E01	GABLE	1	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:57 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-ng_xdoVWqMZ77VePy8WKqiWYUNnd4J35ZYm58Gyurwy

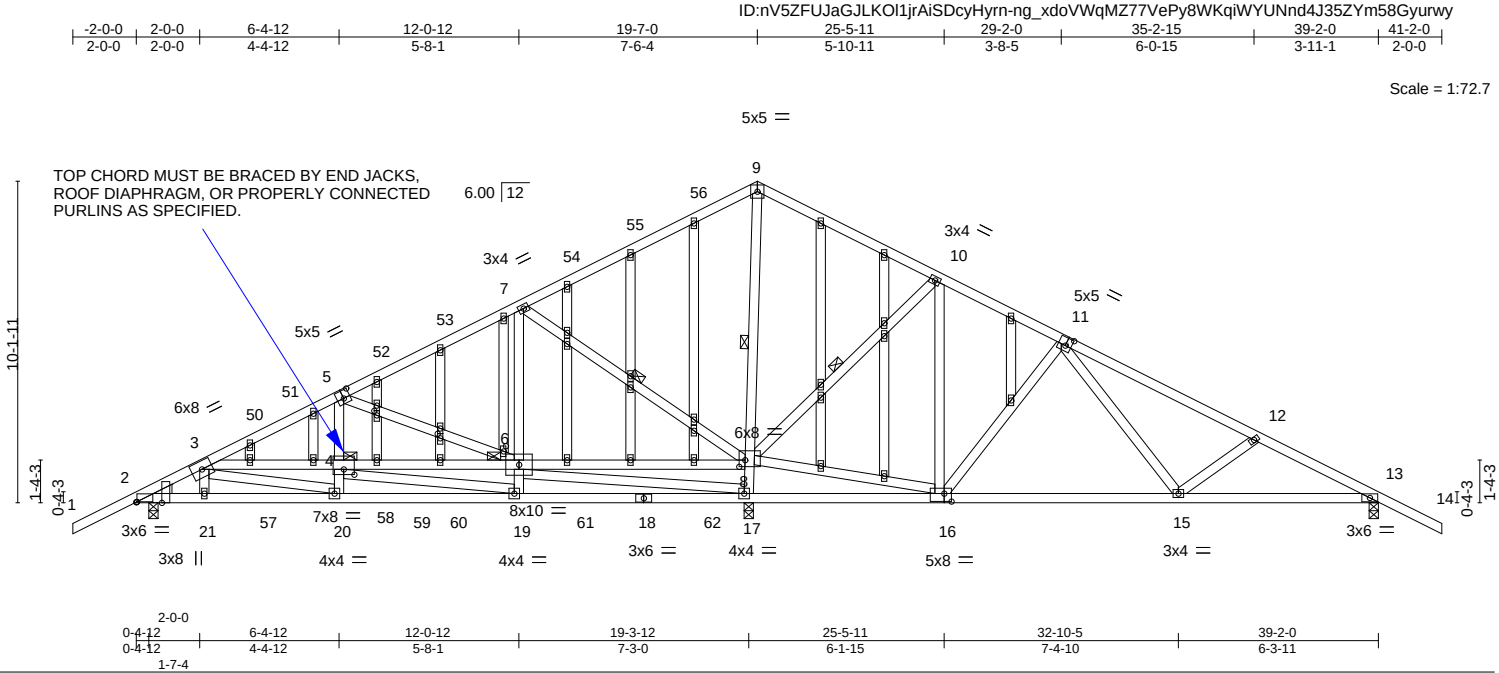


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [2:0-0-4,Edge], [4:0-4-0,0-2-0], [5:0-2-8,0-3-0], [6:0-2-0,0-0-13], [8:0-2-4,0-2-8], [11:0-2-4,0-3-0], [16:0-2-12,0-3-0], [32:0-1-12,0-1-0], [35:0-1-12,0-1-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.06	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.13	15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03	17-19	>999	240	Weight: 355 lb	FT = 20%

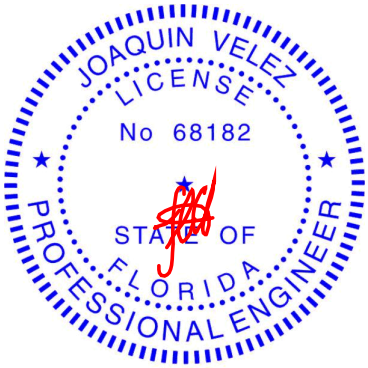
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 9-17, 8-10
JOINTS 1 Brace at Jt(s): 6, 4

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 13=0-3-8
Max Horz 2=-178(LC 6)
Max Uplift 2=-187(LC 8), 17=-153(LC 8), 13=-145(LC 34)
Max Grav 2=709(LC 19), 17=2025(LC 1), 13=732(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-931/210, 3-5=-592/91, 5-7=-148/267, 7-9=-4/760, 9-10=0/711, 11-12=-784/153, 12-13=-1008/169
BOT CHORD 2-21=-268/773, 20-21=-261/750, 19-20=-133/514, 17-19=-93/282, 16-17=-279/87, 15-16=-44/398, 13-15=-82/852
WEBS 5-6=-434/91, 6-7=-9/375, 7-8=-674/137, 8-17=-1858/195, 8-9=-936/64, 8-10=-709/88, 10-16=0/474, 11-16=-460/82, 11-15=0/441, 12-15=-289/97, 6-19=0/295, 6-17=-299/61, 8-16=-44/367

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; 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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
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 187 lb uplift at joint 2, 153 lb uplift at joint 17 and 145 lb uplift at joint 13.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: July 25,2024

Continued on page 2

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

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 113 lb down and 185 lb up at 2-3-9, 43 lb down and 64 lb up at 4-0-12, 43 lb down and 64 lb up at 6-0-12, 43 lb down and 64 lb up at 8-0-12, 43 lb down and 64 lb up at 10-0-12, 43 lb down and 64 lb up at 12-0-12, 43 lb down and 64 lb up at 14-0-12, and 43 lb down and 64 lb up at 16-0-12, and 43 lb down and 64 lb up at 18-0-12 on top chord, and 165 lb down and 120 lb up at 2-0-0, 17 lb up at 4-0-12, 17 lb up at 6-0-12, 17 lb up at 8-0-12, 17 lb up at 10-0-12, 17 lb up at 12-0-12, 17 lb up at 14-0-12, and 17 lb up at 16-0-12, and 17 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

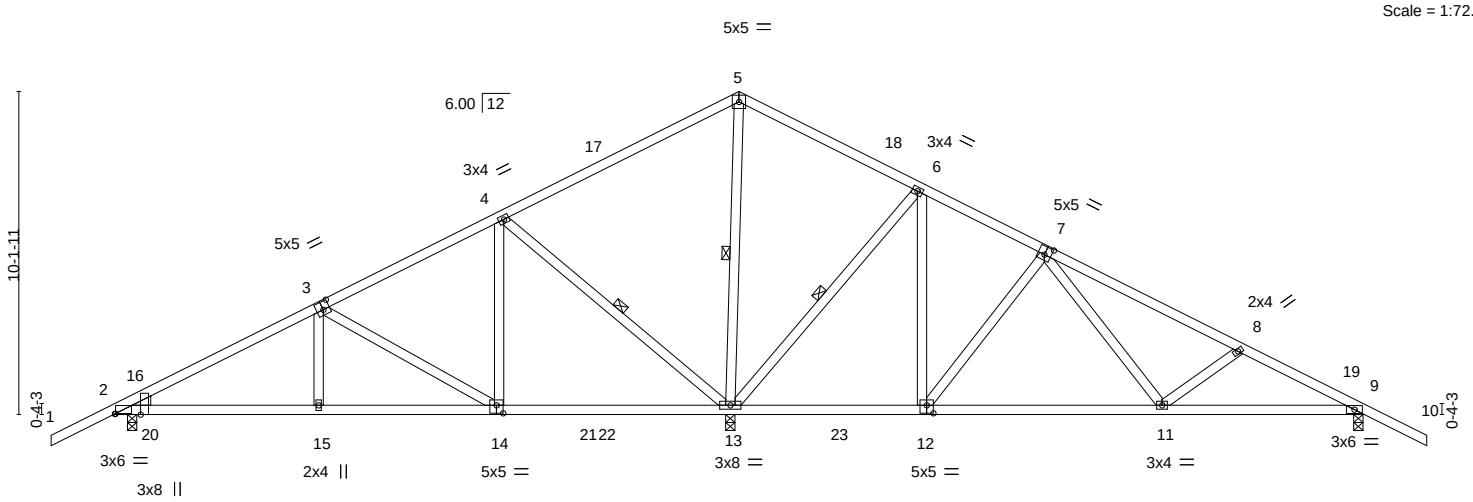
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-9=-60, 9-14=-60, 2-13=-20
   Concentrated Loads (lb)
   Vert: 7=21(F) 3=55(F) 21=-165(F) 50=21(F) 51=21(F) 52=21(F) 53=21(F) 54=21(F) 55=21(F) 56=21(F)

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	E02	Common	2	1	T34535108
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:58 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-FsYJr8W8bgh_IfDcWr1ZNw3i2m7QpstEoCVfgiyurwx

-2-0-0	6-4-12	12-0-11	19-7-0	25-5-11	29-2-0	35-2-15	39-2-0	41-2-0
2-0-0	6-4-12	5-7-15	7-6-5	5-10-11	3-8-5	6-0-15	3-11-1	2-0-0

Scale = 1:72.3



0-4-12	6-4-12	12-0-11	19-3-12	25-5-11	32-10-5	39-2-0
0-4-12	6-0-0	5-7-15	7-3-1	6-1-15	7-4-10	6-3-11

Plate Offsets (X,Y)-- [2:0-0-4,Edge], [2:0-0-4,Edge], [3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.08	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.14	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.07	13-14	>999	240	Weight: 227 lb	FT = 20%

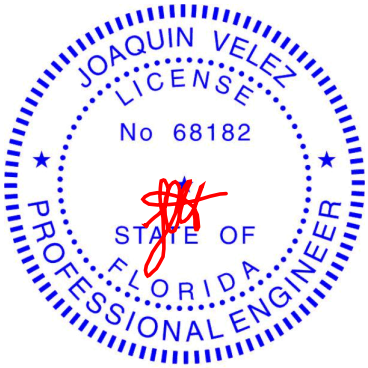
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 5-13, 6-13

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 9=0-3-8
Max Horz 2=-178(LC 10)
Max Uplift 2=-223(LC 12), 13=-303(LC 12), 9=-60(LC 12)
Max Grav 2=674(LC 23), 13=2370(LC 2), 9=717(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-754/274, 3-4=-260/197, 4-5=-32/802, 5-6=-23/759, 7-8=-743/0, 8-9=-948/0
BOT CHORD 2-15=-164/593, 14-15=-163/589, 11-12=-51/331, 9-11=0/800
WEBS 3-14=-524/186, 4-14=-154/531, 4-13=-866/327, 5-13=-957/142, 6-13=-881/102, 6-12=0/676, 7-12=-511/88, 7-11=0/521, 8-11=-286/116

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-7-0, Zone2 19-7-0 to 23-9-15, Zone1 23-9-15 to 41-2-0 zone; cantilever left and right exposed ; 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.
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2, 303 lb uplift at joint 13 and 60 lb uplift at joint 9.



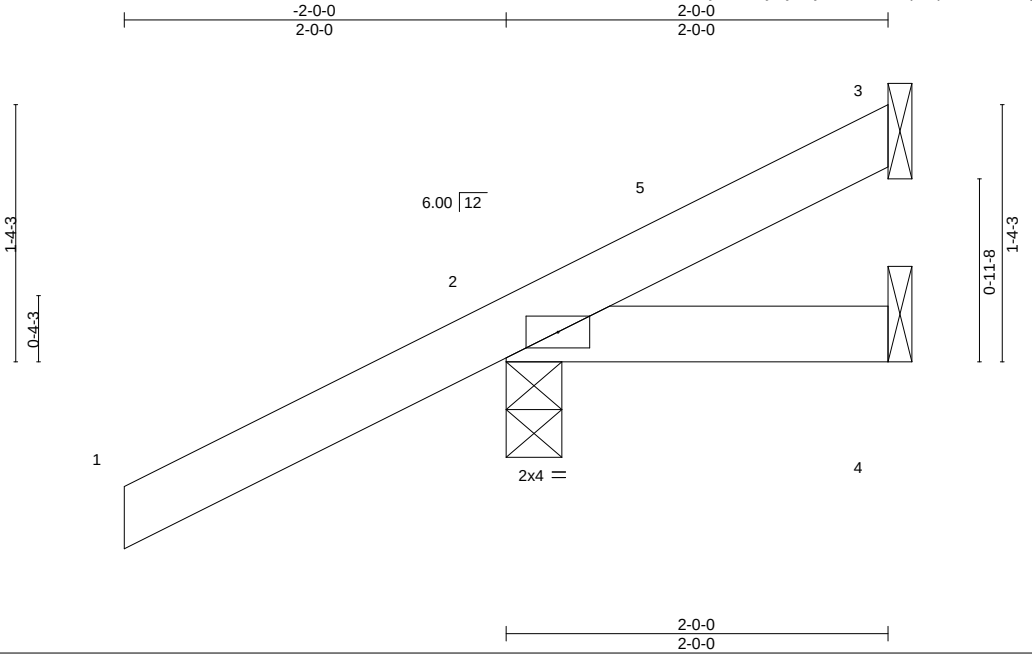
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	E2	Jack-Open	9	1	T34535109
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:59 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-j36i2UXmMzprNpoo3ZYov7c_OAaDYPpO1sFCD8yurww



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	0.28	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 20%

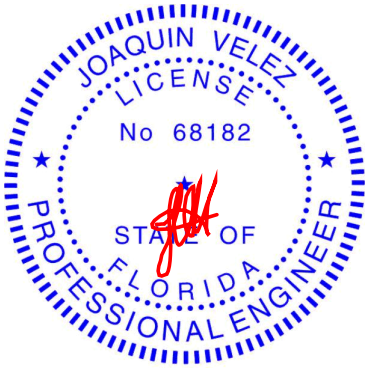
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=60(LC 12)
Max Uplift 3=-6(LC 9), 2=-92(LC 12)
Max Grav 3=17(LC 12), 2=263(LC 1), 4=39(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 1-11-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3 and 92 lb uplift at joint 2.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	E2A	Jack-Open	9	1	T34535110
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:59 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-j36i2UXmMzprNpoo3ZYov7c_OAaDYPpO1sFCD8yurww

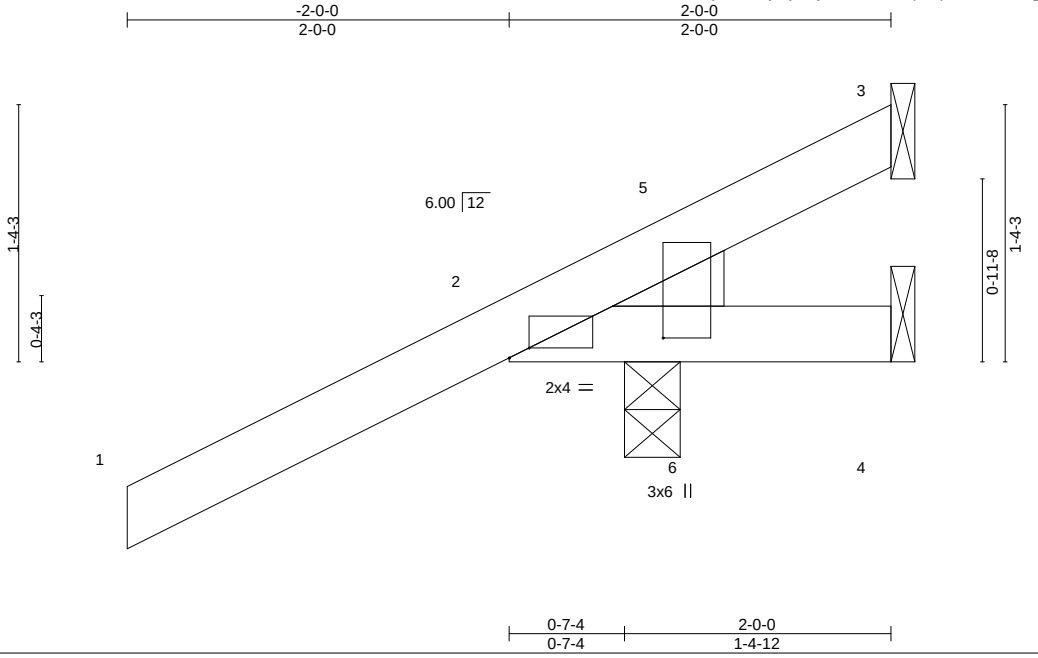


Plate Offsets (X,Y)-- [2:0-1-4,Edge], [2:0-1-4,0-9-11]

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	0.28	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2	>999	240	Weight: 11 lb	FT = 20%

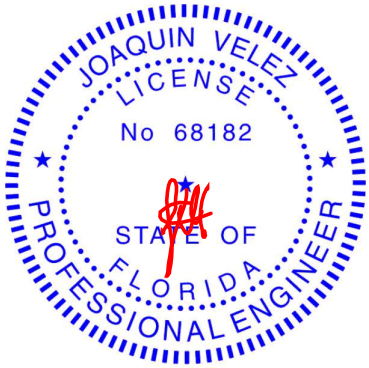
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 2=60(LC 12)
Max Uplift 3=-6(LC 9), 4=-5(LC 8), 2=-109(LC 12)
Max Grav 3=17(LC 12), 4=39(LC 3), 2=263(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 1-11-13 zone; cantilever left exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 5 lb uplift at joint 4 and 109 lb uplift at joint 2.



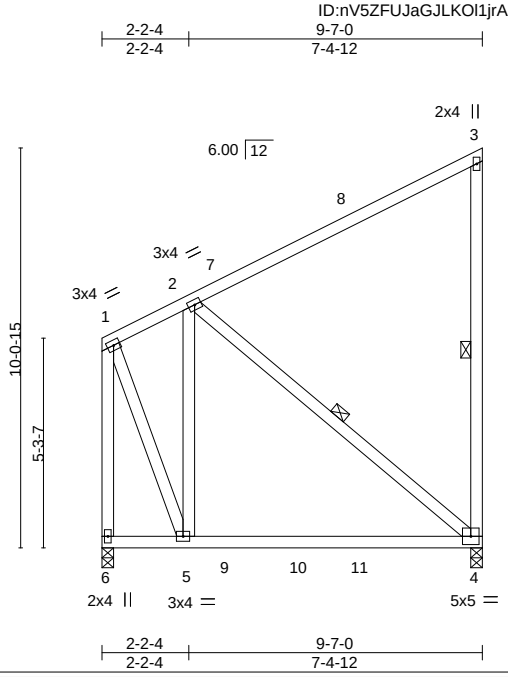
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	E03	Monopitch	2	1	T34535111
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:34:58 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-FsYJr8W8bgh_lfDcWr1ZNw3kbm7lpw_EoCVfgiyurwx



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	0.61	Vert(LL)	-0.10	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.18	4-5	>626	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.07	4-5	>999	240	Weight: 81 lb	FT = 20%

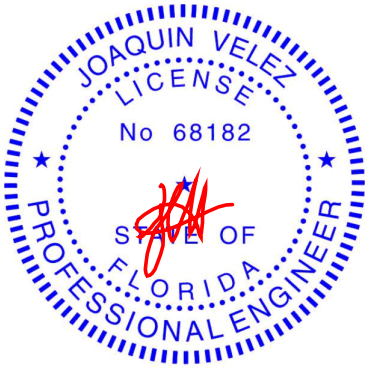
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-4, 2-4

REACTIONS. (size) 4=0-3-8, 6=0-3-8
Max Horz 6=111(LC 12)
Max Uplift 4=-184(LC 12), 6=-8(LC 12)
Max Grav 4=410(LC 2), 6=421(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-482/101
WEBS 2-5=-258/26, 2-4=-233/311, 1-5=-117/499

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-5-4 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 4 and 8 lb uplift at joint 6.



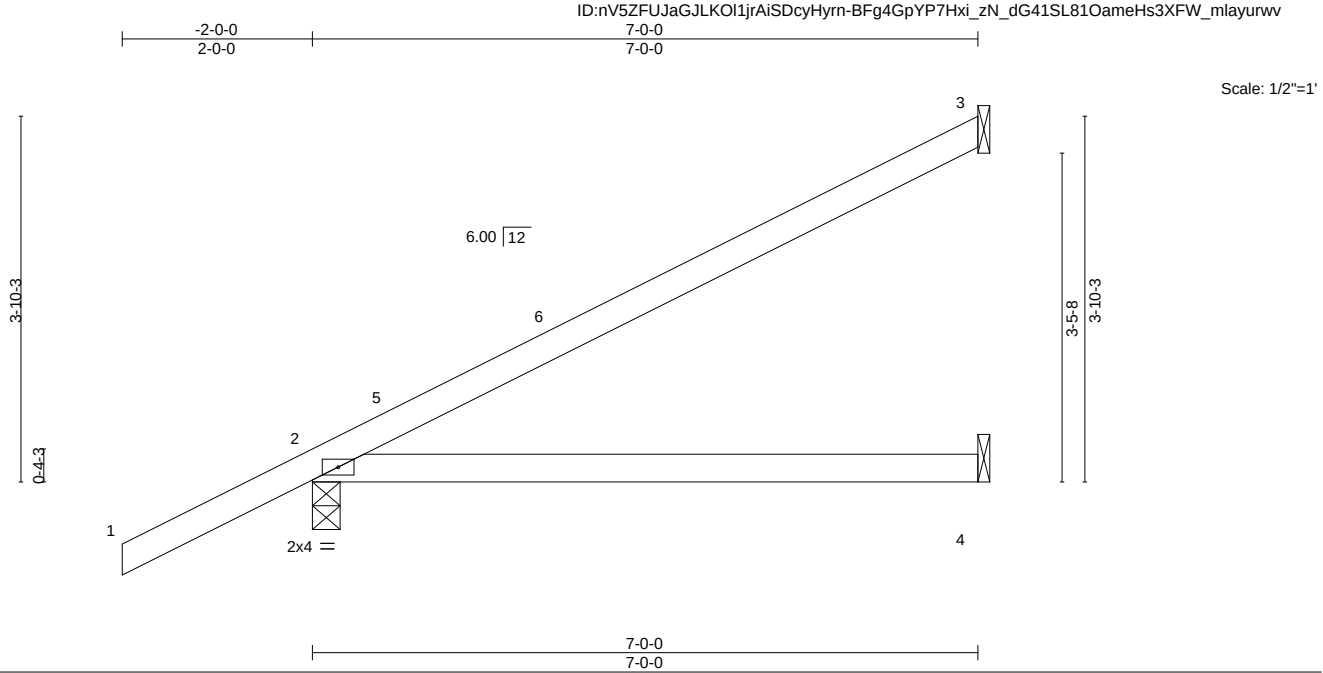
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame T34535112
6243109	E7	Jack-Open	23	1	Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:00 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-BFg4GpYP7Hxi_zN_dG41SL81OameHs3XFW_mlayurwv



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.13	2-4	>639	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.26	2-4	>319	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 26 lb	FT = 20%

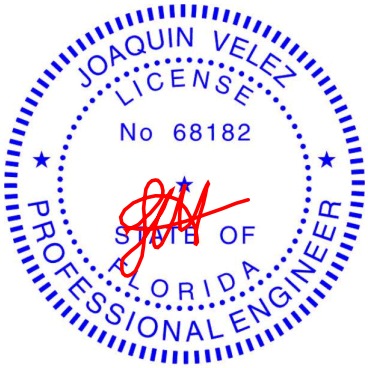
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 3=-62(LC 12), 2=-63(LC 12)
Max Grav 3=183(LC 1), 2=421(LC 1), 4=136(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 3 and 63 lb uplift at joint 2.



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

July 25,2024

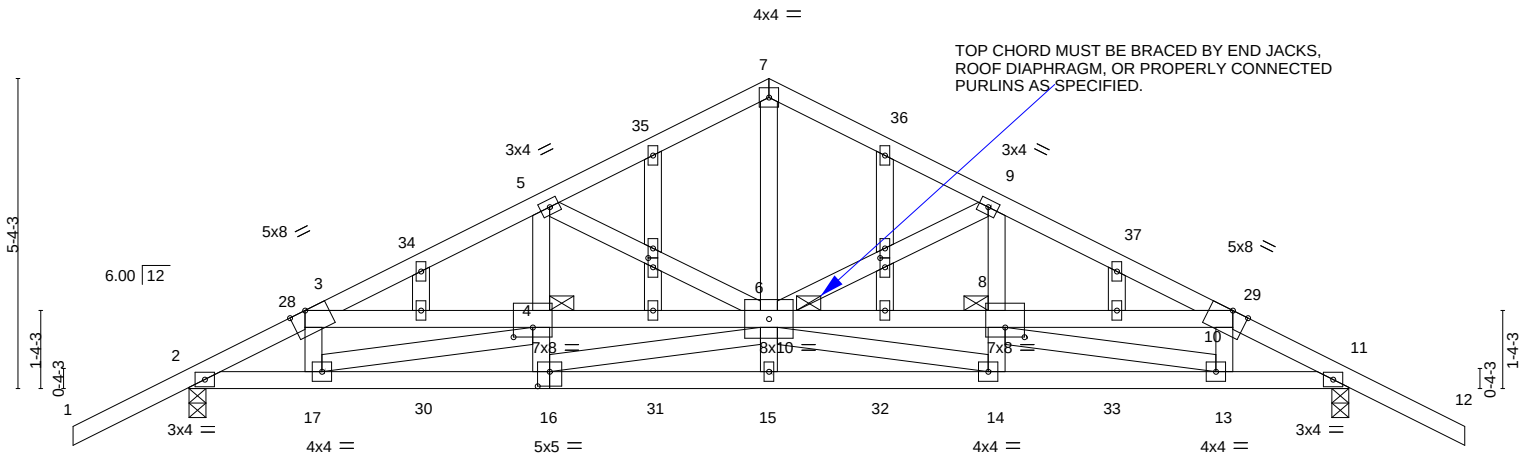
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	G01	GABLE	1	1	T34535113
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:01 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-fREST9Z1ub3Yc7xBB_bG_Yhlx_Ay0lehUAkJH1yurwu

-2-0-0	2-0-0	6-0-14	10-0-0	13-11-2	18-0-0	20-0-0	22-0-0
2-0-0	2-0-0	4-0-14	3-11-2	3-11-2	4-0-14	2-0-0	2-0-0

Scale = 1:39.7



2-0-0	6-0-14	10-0-0	13-11-2	18-0-0	20-0-0
2-0-0	4-0-14	3-11-2	3-11-2	4-0-14	2-0-0

Plate Offsets (X,Y)-- [3:0-3-8,Edge], [4:0-4-0,0-2-0], [8:0-4-0,0-2-0], [10:0-3-8,0-0-0], [16:0-2-8,0-3-0], [18:0-1-15,0-1-0], [25:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.04	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.06	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	-0.03	15	>999	240	Weight: 154 lb	FT = 20%

LUMBER-

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

BRACING-

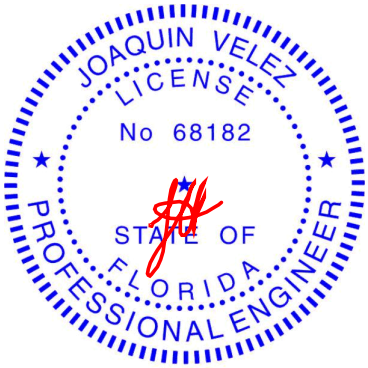
TOP CHORD	Structural wood sheathing directly applied or 5-5-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-13.
JOINTS	1 Brace at Jt(s): 4, 6, 8

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=99(LC 7)
Max Uplift 2=-137(LC 8), 11=-137(LC 8)
Max Grav 2=744(LC 1), 11=744(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1115/44, 3-4=-305/274, 8-10=-303/293, 10-11=-1112/45, 3-5=-1035/20, 5-7=-775/34, 7-9=-775/34, 9-10=-1036/20
BOT CHORD 2-17=-14/992, 16-17=0/800, 15-16=0/520, 14-15=0/520, 13-14=0/804, 11-13=-58/964
WEBS 4-17=-184/342, 6-16=0/292, 6-14=0/294, 8-13=-227/338, 6-7=0/474, 5-6=-277/44, 6-9=-270/44

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
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 137 lb uplift at joint 2 and 137 lb uplift at joint 11.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 295 lb up at 2-0-0, 43 lb down and 64 lb up at 2-3-15, 43 lb down and 64 lb up at 4-0-12, 43 lb down and 64 lb up at 6-0-12, 43 lb down and 64 lb up at 8-0-12, 43 lb down and 64 lb up at 10-0-0, 43 lb down and 64 lb up at 11-11-4, 43 lb down and 64 lb up at 13-11-4, 43 lb down and 64 lb up at 15-11-4, and 43 lb down and 64 lb up at 17-8-1, and 140 lb down and 295 lb up at 18-0-0 on top chord, and 16 lb down at 2-0-0, 8 lb down at 4-0-12, 8 lb down at 6-0-12, 8 lb down at 8-0-12, 8 lb down at 10-0-0, 8 lb down at 11-11-4, 8 lb down at 13-11-4, and 8 lb down at 15-11-4, and 16 lb down at 17-11-4 on bottom chord. The design/selection of

Continued on page 2



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

July 25,2024

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

NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 10-12=-60, 2-11=-20, 3-7=-60, 7-10=-60
   Concentrated Loads (lb)
   Vert: 3=21(F) 10=21(F) 7=21(F) 5=21(F) 9=21(F) 28=77(F) 29=77(F) 34=21(F) 35=21(F) 36=21(F) 37=21(F)

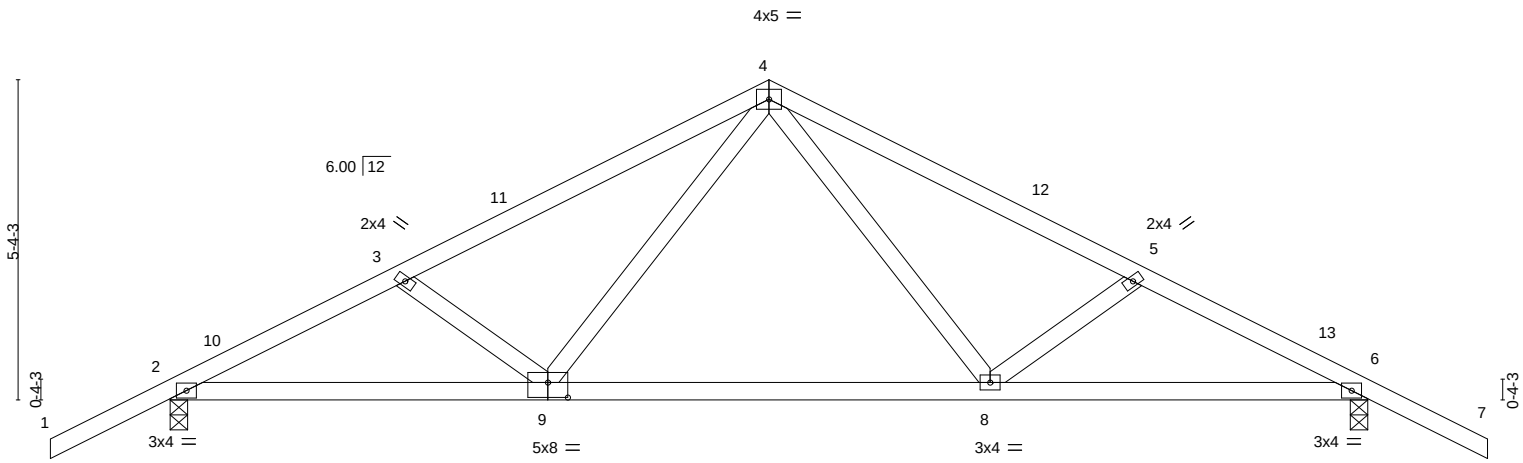
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	G02	Common	5	1	T34535114
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:01 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-fREST9Z1ub3Yc7xBB_bG_YhC3_6M0HghUAkJH1yurwu

-2-0-0	3-11-1	10-0-0	16-0-15	20-0-0	22-0-0
2-0-0	3-11-1	6-0-15	6-0-15	3-11-1	2-0-0

Scale = 1:38.5



6-3-11	13-8-5	20-0-0
6-3-11	7-4-10	6-3-11

Plate Offsets (X,Y)-- [9:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.36	8-9	>648	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03	8-9	>999	240	Weight: 97 lb	FT = 20%

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

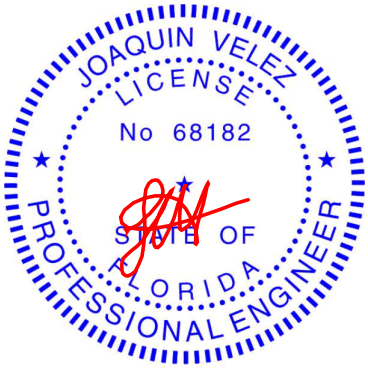
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=99(LC 11)
Max Grav 2=1139(LC 1), 6=1139(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1927/0, 3-4=-1718/0, 4-5=-1718/0, 5-6=-1927/0
BOT CHORD 2-9=0/1659, 8-9=0/1062, 6-8=0/1659
WEBS 4-8=0/719, 5-8=-268/183, 4-9=0/719, 3-9=-268/183

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 2-9=-20, 8-9=-80, 6-8=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 2-9=-20, 8-9=-80, 6-8=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 2-9=-40, 8-9=-100, 6-8=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



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

July 25,2024

Continued on page 2

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

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=47, 2-10=32, 4-10=19, 4-12=26, 6-12=19, 6-7=14, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-56, 2-10=-40, 4-10=-27, 4-12=35, 6-12=27, 6-7=23

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-11=19, 4-11=26, 4-13=19, 6-13=32, 6-7=47, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-23, 2-11=-27, 4-11=-35, 4-13=27, 6-13=40, 6-7=56

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-8, 2-4=-33, 4-6=-33, 6-7=-29, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-12, 2-4=13, 4-6=-13, 6-7=-9

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-4=-33, 4-6=-33, 6-7=-8, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=9, 2-4=13, 4-6=-13, 6-7=12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=9, 6-7=4, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-24, 2-4=-11, 4-6=17, 6-7=13

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=9, 4-6=3, 6-7=15, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-13, 2-4=-17, 4-6=11, 6-7=24

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-4=-28, 4-6=-12, 6-7=-7, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=4, 2-4=8, 4-6=8, 6-7=13

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-12, 4-6=-28, 6-7=-24, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-13, 2-4=-8, 4-6=-8, 6-7=-4

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=15, 4-6=15, 6-7=28, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-37, 2-4=-24, 4-6=24, 6-7=37

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=3, 6-7=15, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-24, 2-4=-11, 4-6=11, 6-7=24

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 2-9=-20, 8-9=-80, 6-8=-20

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-4=-56, 4-6=-44, 6-7=-40, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=3, 2-4=6, 4-6=6, 6-7=10

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-4=-44, 4-6=-56, 6-7=-53, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-10, 2-4=-6, 4-6=-6, 6-7=-3

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-4=-25, 4-7=-25, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-16, 2-4=16, 4-7=-16

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=8, 4-7=8, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-4=-16, 4-7=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 3

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

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-20, 2-9=-20, 8-9=-80, 6-8=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-60, 2-9=-20, 8-9=-80, 6-8=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-20, 2-9=-20, 8-9=-80, 6-8=-20

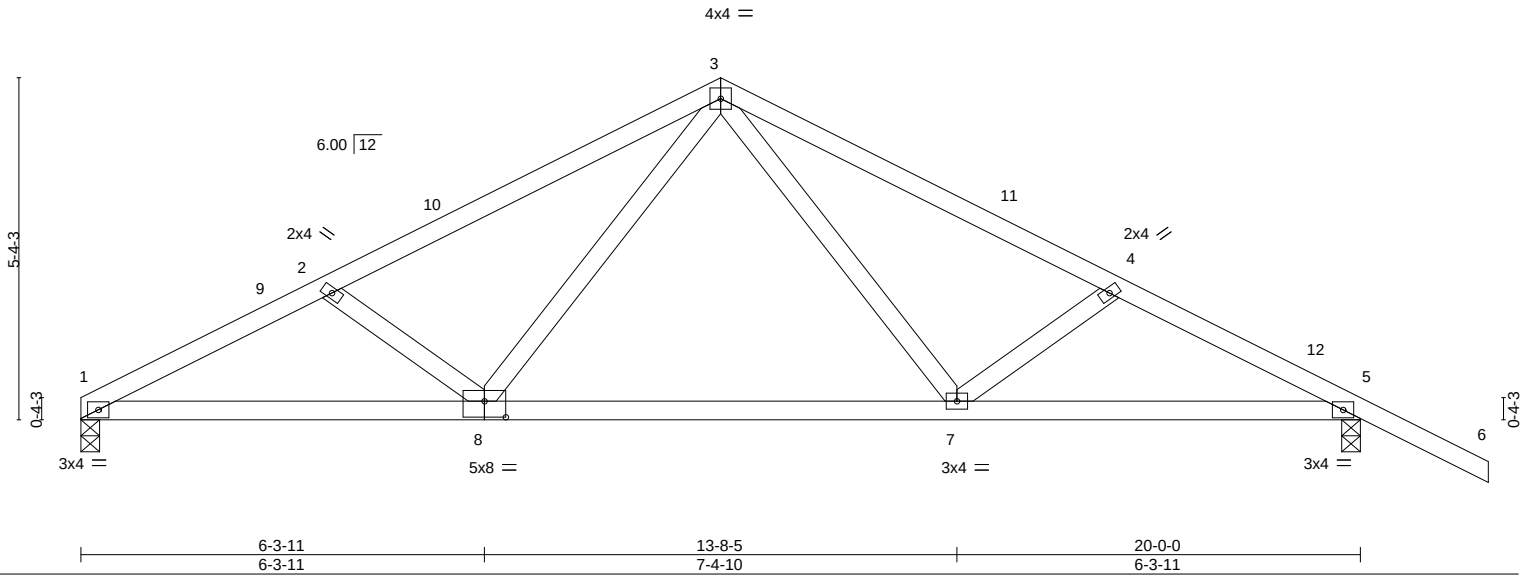
26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-50, 2-9=-20, 8-9=-80, 6-8=-20

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	G03	COMMON	1	1	T34535115
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:02 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-7eoqhVZffuBPEHWNlh6VXmDNiOSclksqjqTspTyurwt

3-11-1	10-0-0	16-0-15	20-0-0	22-0-0
3-11-1	6-0-15	6-0-15	3-11-1	2-0-0

Scale = 1:36.0



6-3-11	13-8-5	20-0-0
6-3-11	7-4-10	6-3-11

Plate Offsets (X,Y)-- [8:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.36	7-8	>649	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03	7-8	>999	240	Weight: 94 lb	FT = 20%

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

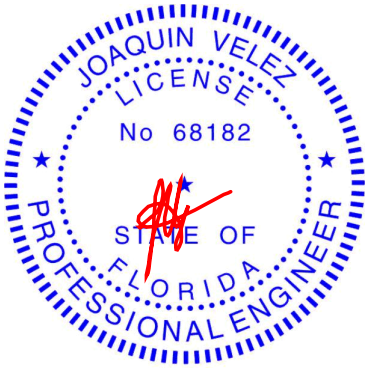
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-95(LC 10)
Max Grav 1=1003(LC 1), 5=1146(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1982/0, 2-3=-1759/0, 3-4=-1732/0, 4-5=-1942/0
BOT CHORD 1-8=0/1721, 7-8=0/1075, 5-7=0/1672
WEBS 3-7=0/718, 4-7=-268/183, 3-8=0/732, 2-8=-301/191

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-0-0, Zone2 10-0-0 to 14-2-15 , Zone1 14-2-15 to 22-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-6=-60, 1-8=-20, 7-8=-80, 5-7=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-50, 3-6=-50, 1-8=-20, 7-8=-80, 5-7=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-20, 1-8=-40, 7-8=-100, 5-7=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
July 25,2024

Continued on page 2

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

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-9=32, 3-9=19, 3-11=26, 5-11=19, 5-6=14, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-9=-40, 3-9=-27, 3-11=35, 5-11=27, 5-6=23

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=19, 3-10=26, 3-12=19, 5-12=32, 5-6=47, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-10=-27, 3-10=-35, 3-12=27, 5-12=40, 5-6=56

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 5-6=-29, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=13, 3-5=-13, 5-6=-9

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 5-6=-8, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=13, 3-5=-13, 5-6=12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=3, 3-5=9, 5-6=4, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-11, 3-5=17, 5-6=13

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=9, 3-5=3, 5-6=15, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-17, 3-5=11, 5-6=24

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-28, 3-5=-12, 5-6=-7, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=8, 3-5=8, 5-6=13

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-12, 3-5=-28, 5-6=-24, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=-8, 3-5=-8, 5-6=-4

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-5=15, 5-6=28, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-24, 3-5=24, 5-6=37

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=3, 3-5=3, 5-6=15, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-11, 3-5=11, 5-6=24

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-21, 3-5=-21, 5-6=-16, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=4

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-21, 3-5=-21, 5-6=-16, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=4

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-20

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-56, 3-5=-44, 5-6=-40, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=6, 3-5=6, 5-6=10

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-44, 3-5=-56, 5-6=-53, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=-6, 3-5=-6, 5-6=-3

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-51, 3-5=-51, 5-6=-47, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=3

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-51, 3-5=-51, 5-6=-47, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=3

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-25, 3-6=-25, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=16, 3-6=-16

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=8, 3-6=8, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-16, 3-6=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-3=-60, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-20

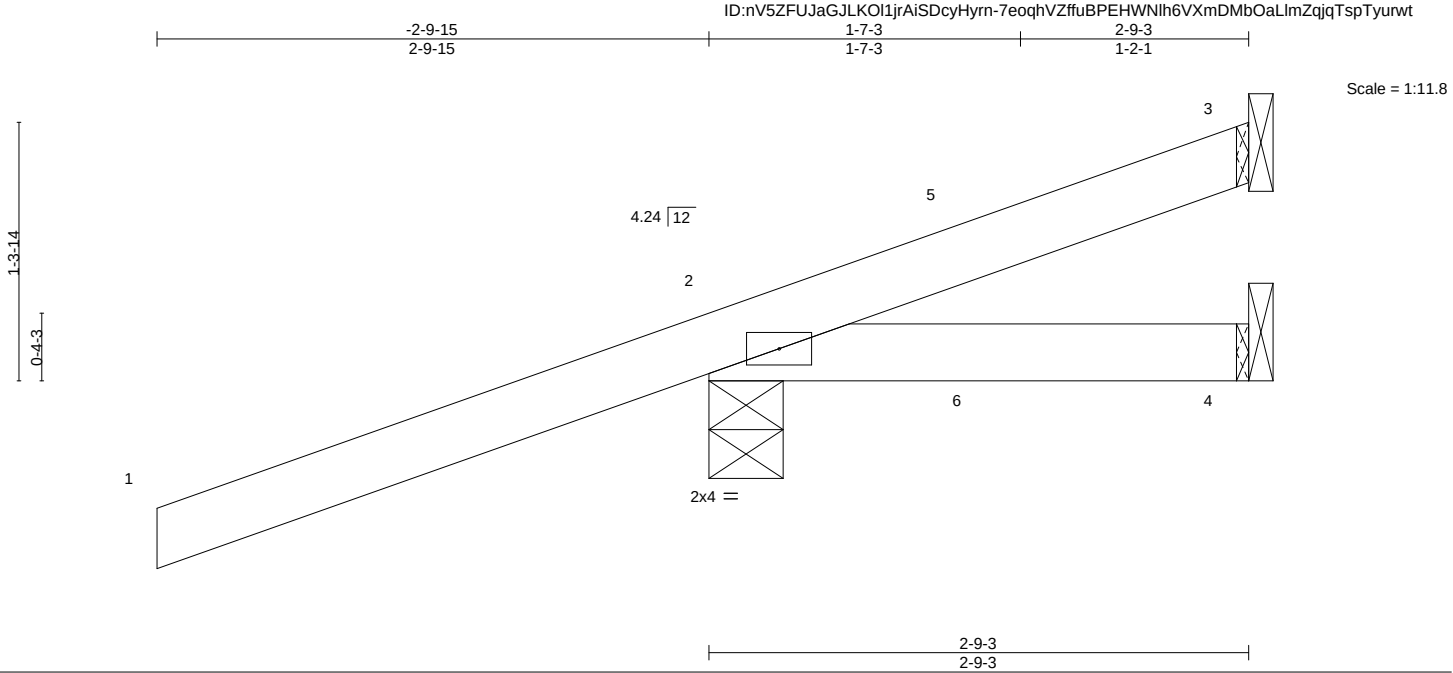
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-60, 1-8=-20, 7-8=-80, 5-7=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-50, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-20

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-50, 1-8=-20, 7-8=-80, 5-7=-20

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	H2	Diagonal Hip Girder	2	1	T34535116
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:02 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-7eoqhVZffuBPEHWNlh6VXmDMbOaLlmZqjqTspTyurwt



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	0.80	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 20%

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

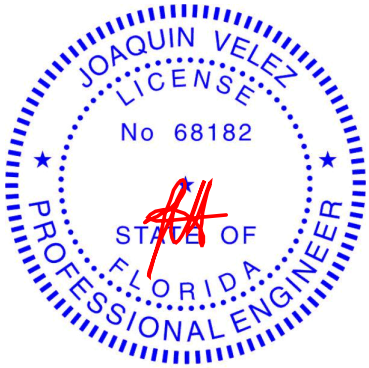
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=59(LC 27)
Max Uplift 3=-210(LC 19), 2=-180(LC 8)
Max Grav 3=117(LC 27), 2=345(LC 31), 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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 3 and 180 lb uplift at joint 2.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 181 lb up at 1-4-15, and 86 lb down and 181 lb up at 1-4-15 on top chord, and at 1-4-15, and at 1-4-15 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=-60, 2-4=-20
Concentrated Loads (lb)
Vert: 5=121(F=60, B=60)



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	H3	Diagonal Hip Girder	1	1	T34535117
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:03 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-cqMCuraHQCJGrQ5ZIPdk4zmYfnpwUDo_xUDQMvyurws

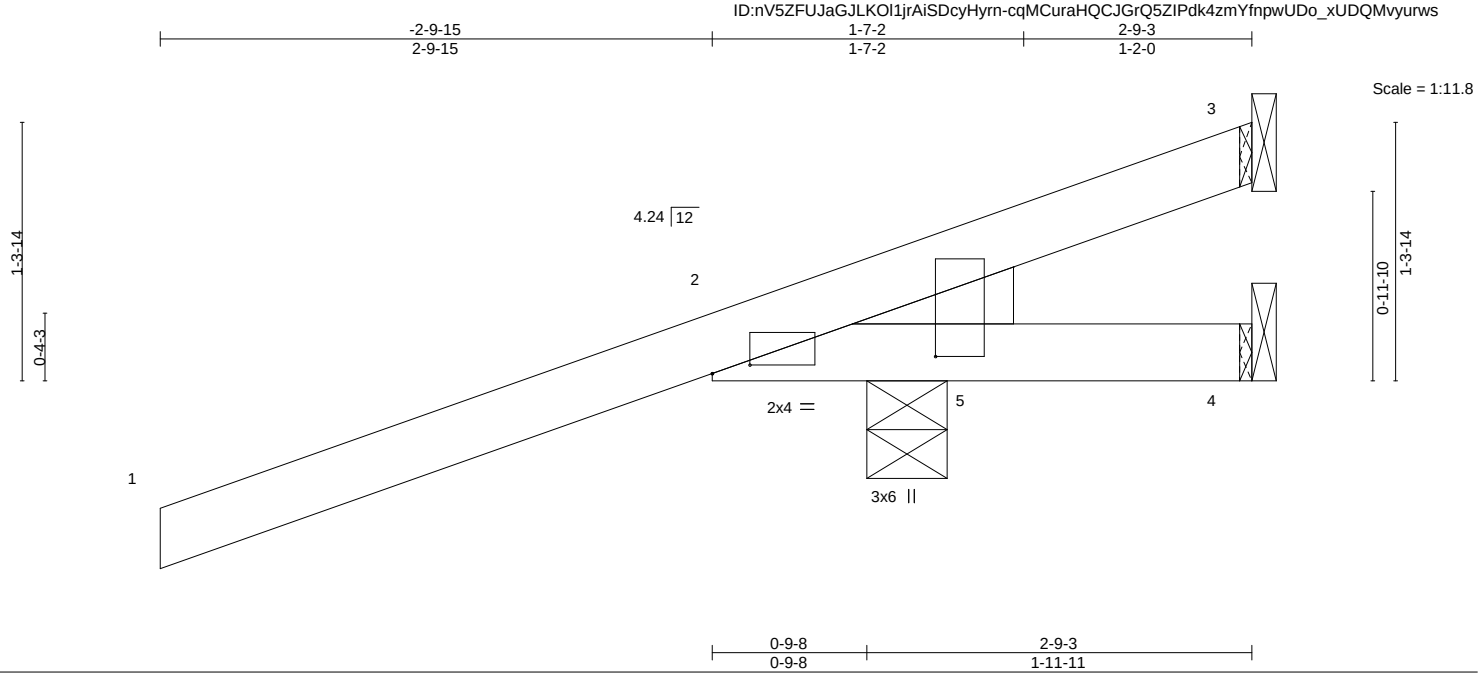


Plate Offsets (X,Y)-- [2:0-2-5,0-0-8], [2:0-1-1,1-1-12]

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	0.71	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.03	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.02	2-4	>999	240	Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

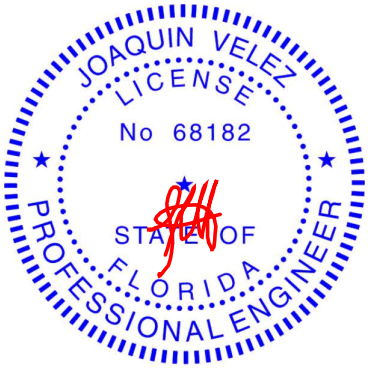
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-4-15
Max Horz 2=59(LC 8)
Max Uplift 3=-36(LC 1), 4=-74(LC 4), 2=-237(LC 8)
Max Grav 3=34(LC 8), 4=193(LC 1), 2=572(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3, 74 lb uplift at joint 4 and 237 lb uplift at joint 2.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 lb down and 87 lb up at 1-4-15, and 174 lb down and 87 lb up at 1-4-15 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=-60, 2-4=-20
Concentrated Loads (lb)
Vert: 5=-348(F=-174, B=-174)



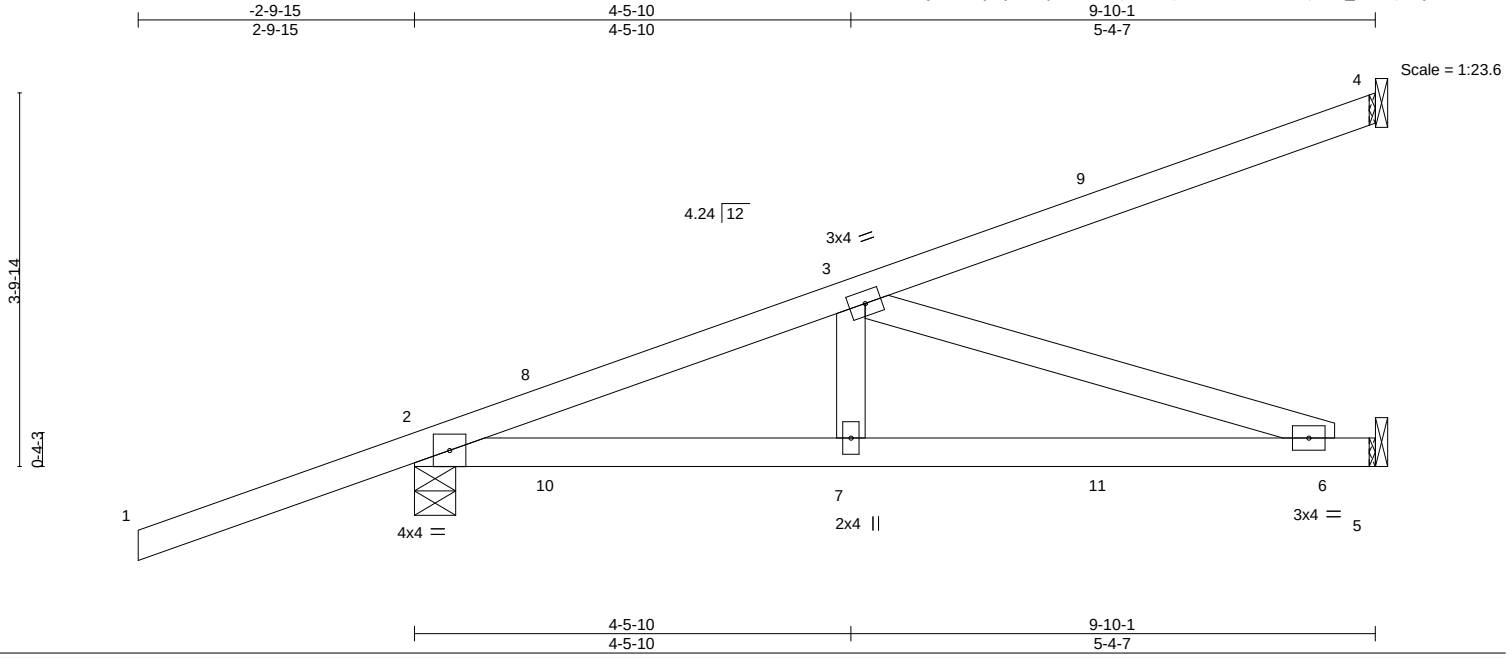
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	H7	Diagonal Hip Girder	3	1	T34535118
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:03 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-cqMCuraHQCJGrQ5ZIPdk4zmXznnQU8T_xUDQMvyurws



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.14	6-7	>840	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	-0.03	2-7	>999	240	Weight: 44 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

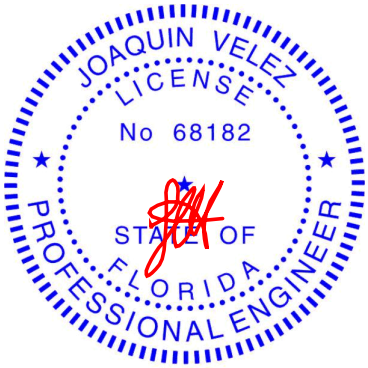
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-1, 5=Mechanical
Max Horz 2=119(LC 27)
Max Uplift 4=-51(LC 8), 2=-170(LC 8)
Max Grav 4=165(LC 1), 2=582(LC 31), 5=272(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-788/23
BOT CHORD 2-7=-55/670, 6-7=-55/670
WEBS 3-7=0/288, 3-6=-705/58

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 4 and 170 lb uplift at joint 2.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 185 lb up at 1-4-15, 87 lb down and 185 lb up at 1-4-15, 54 lb down and 23 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 83 lb down and 56 lb up at 7-0-14, and 83 lb down and 56 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 11 lb down at 4-2-15, 11 lb down at 4-2-15, and 39 lb down at 7-0-14, and 39 lb down at 7-0-14 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: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 8=123(F=62, B=62) 9=-60(F=-30, B=-30) 11=-39(F=-20, B=-20)



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

July 25,2024

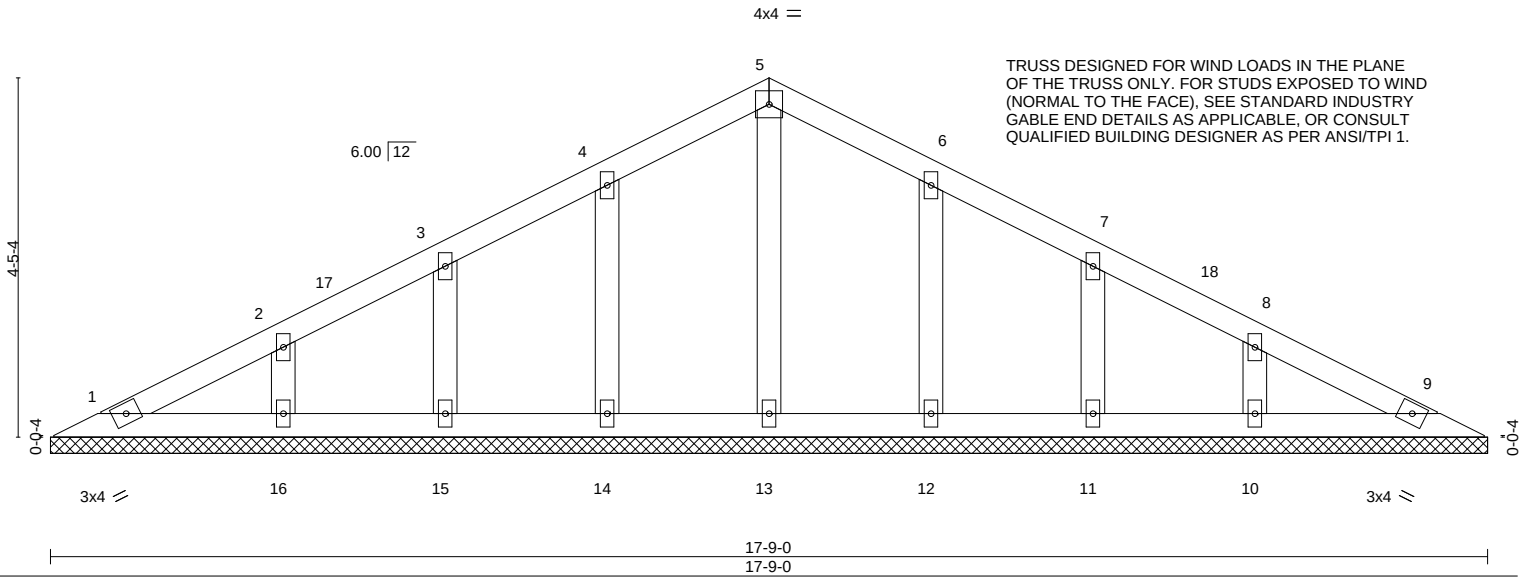
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1755-CR- Frame
6243109	V18	GABLE	1	1	T34535119
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 12:35:04 2024 Page 1
ID:nV5ZFUJaGJLKOl1jrAiSDcyHyrn-40vb5BbvBWR7Tagls68zcBJujBHPDgb7A8yzuMyurwr

8-10-8 / 8-10-8 | 17-9-0 / 8-10-8

Scale = 1:28.5



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.

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%

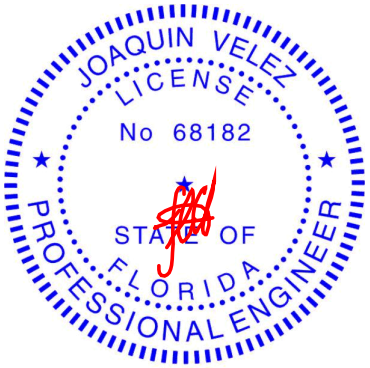
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-9-0.
(lb) - Max Horz 1=68(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 8-10-8, Zone2 8-10-8 to 12-10-8, Zone1 12-10-8 to 17-1-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 16, 12, 11, 10.

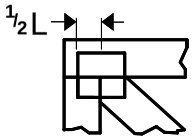


Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

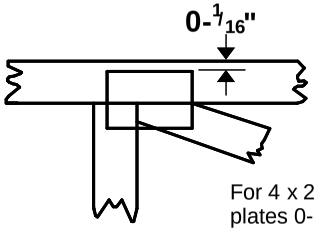
July 25,2024

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- 1/16" from outside edge of truss.

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

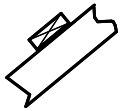
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

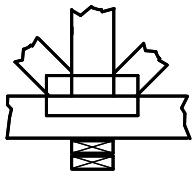
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

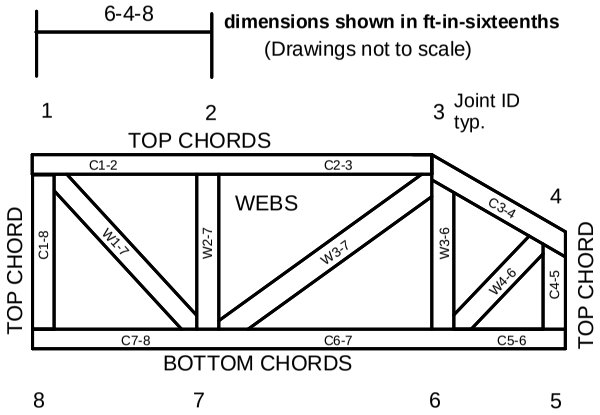


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.