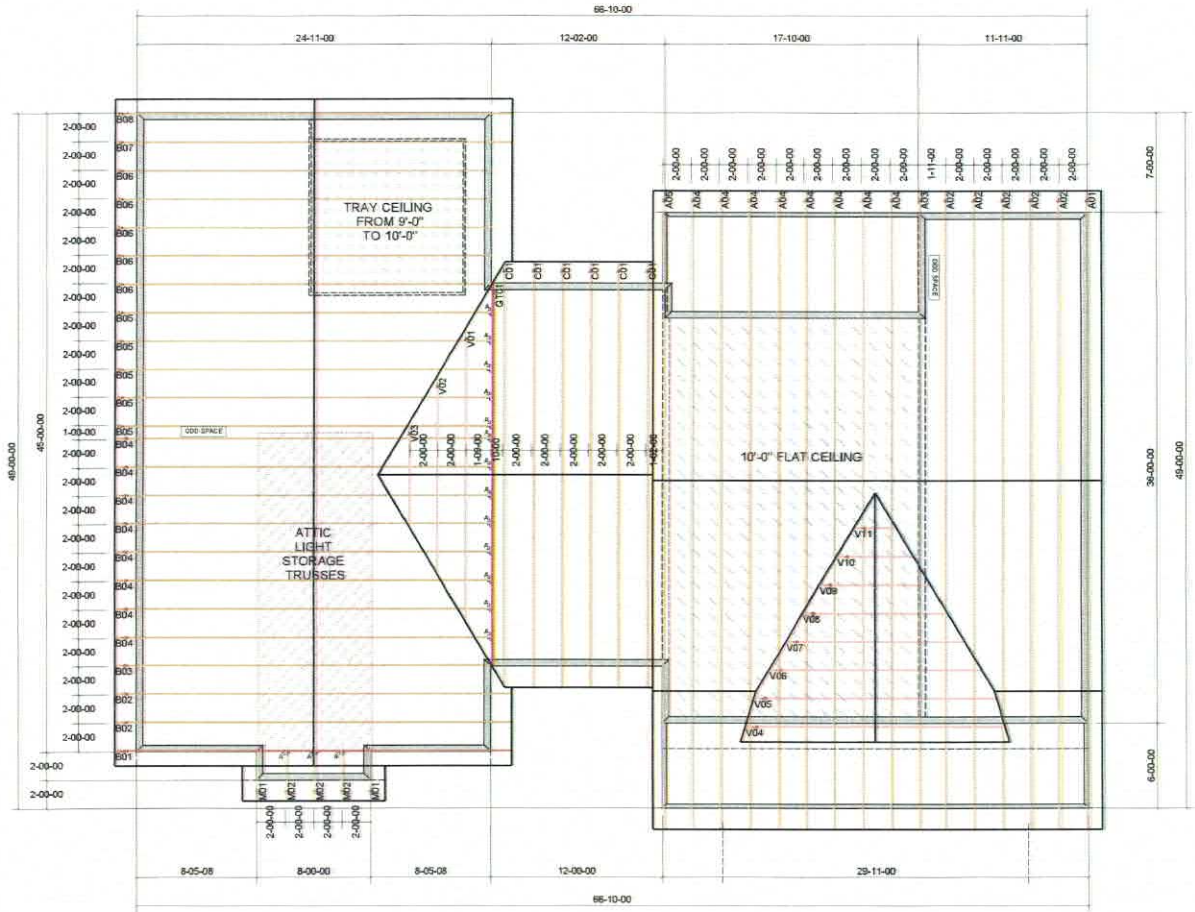

TIBBETTS LUMBER CO., LLC

6100 SE 68th Street, Ocala, FL 34472
Phone (352) 347-7661

CLIENT APPROVAL

*** Approved By: _____ Delivery Date: _____

Please Print | Name | Employed By | Approval Date

TYPICAL DESIGN CRITERIA

Floor: Load: 55# psf; 40 TCLL, 10 TCDL, 00 BCLL, 05 BCDL; Dur.: 1.00
Roof: Load: 37# psf; 20 TCLL, 07 TCDL, 00 BCLL*, 10 BCDL; Dur.: 1.25
* 10 psf non-concurrent LL on BC.

Mitek Engineering	-	Exposure:	C
Building Code:	FBC 2023	Mean Height:	≤ 30'
	ASCE 7-22	Bldg. Category:	II
	TPI 1-2014	Importance Factor:	1.00
Truss Design:	Comp. & Cladding	Enclosure:	Enclosed
Uplift Calculations:	MWFRS	Entry:	Exposed to Wind
Wind Speed:	140 mph US	Lanai	Exposed to Wind

ROOF CRITERIA		FLOOR CRITERIA	
T.C. Pitch:	6/12	T.C. Size:	PC42
B.C. Pitch:	0/12	Depth:	16"
T.C. Size:	2x6	Spacing:	16" O.C.
Heel Height:	6 3/8"	Bearing:	8"
Bearing:	6"	Lumber:	SP
Cantilever:	0	Vapor barrier between floor & concrete by other.	
Overhang:	18"	Floor trusses held back 3/4" at exterior wall,	
O.H. Cut:	Plumb	block and fill by other. Blocking for transfer of	
Spacing:	24" O.C.	vertical load from above by others. Odd space	
Lumber:	SP	floor trusses around plumbing as noted.	

CONNECTORS

	Roof Truss to Truss Connectors					Floor Truss to Truss Connectors				
	TYP: THD26					TYP: THD46				
A	JUS24	G	THDH28-2	M		Q	THDH46	W	MSH422IF	
B	THD26-2	H	THDH28-3	N		R	THD48	X	MSH426	
C	THDH26-2	I	THDH210-3	O		S	THDH48	Y	MSH426IF	
D	THDH26-3	J	GTWS2T			T	THDH410	Z		
E	THD28	K	GTWS3T			U	THDH610			
F	THDH28	L	GTWS4T			V	MSH422			

Installation shall be per connector manufacturer's guidelines. All connectors and tie downs other than truss to girder truss connectors are to be specified and supplied by others.

NOTES

N1 .
N2 .
N3 .
N4 .
N5 .
N6 .
N7 .
N8 .
N9 .

Diamond indicates left side of truss on truss design drawings

CLIENT INFO

Client: HAPPY HOME CONSTRUCTION
Project: CYPRESS MODEL LHG
Address: -
-
-

REV.

Date:	7/15/2024	Scale:	1/4" = 1'-0"	D= 1/4
Revised:	-	Drawn By:	LARRY R.	
Sheet #	1 of 1	Job #		

MiTek®

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

RE: 6241709 -

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

Site Information:
Customer Info: HAPPY HOMES CONSTRUCTION Project Name: CYPRESS MODEL, Model: CYPRESS MODEL
Lot/Block: . Subdivision: .
Address: ., .
City: . State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 28 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T34466767	A01	7/17/24	23	T34466789	V06	7/17/24
2	T34466768	A02	7/17/24	24	T34466790	V07	7/17/24
3	T34466769	A03	7/17/24	25	T34466791	V08	7/17/24
4	T34466770	A04	7/17/24	26	T34466792	V09	7/17/24
5	T34466771	A05	7/17/24	27	T34466793	V10	7/17/24
6	T34466772	B01	7/17/24	28	T34466794	V11	7/17/24
7	T34466773	B02	7/17/24				
8	T34466774	B03	7/17/24				
9	T34466775	B04	7/17/24				
10	T34466776	B05	7/17/24				
11	T34466777	B06	7/17/24				
12	T34466778	B07	7/17/24				
13	T34466779	B08	7/17/24				
14	T34466780	C01	7/17/24				
15	T34466781	GT01	7/17/24				
16	T34466782	M01	7/17/24				
17	T34466783	M02	7/17/24				
18	T34466784	V01	7/17/24				
19	T34466785	V02	7/17/24				
20	T34466786	V03	7/17/24				
21	T34466787	V04	7/17/24				
22	T34466788	V05	7/17/24				

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.

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	A01	Roof Special Supported Gable	1	1	T34466767
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:56 Page: 1
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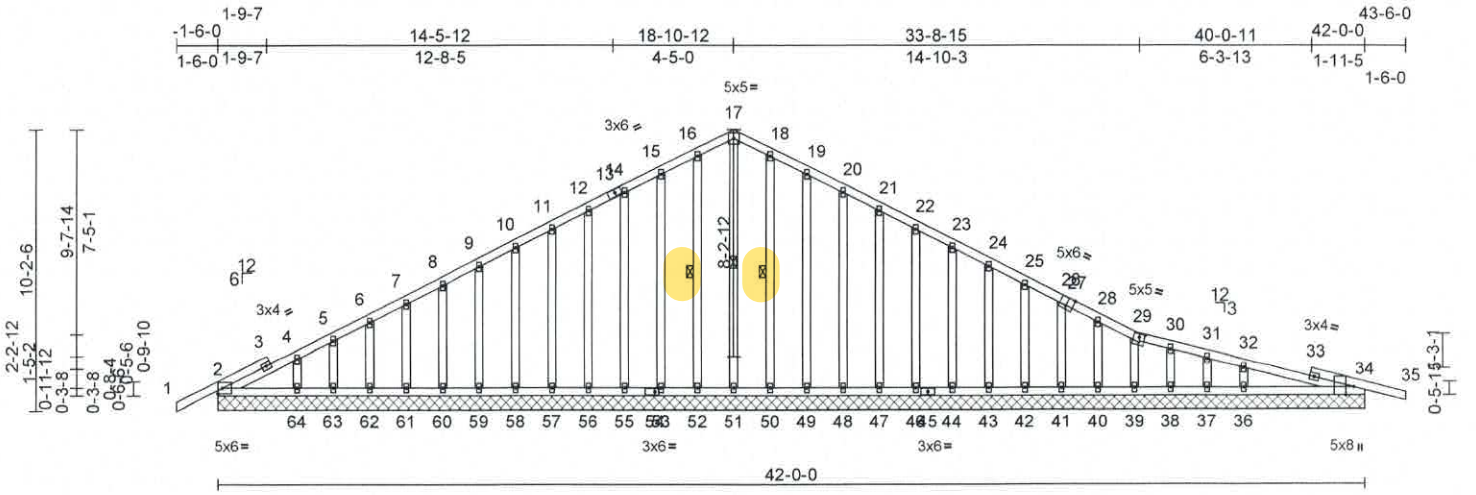

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Plate Offsets (X, Y): [13:0-2-14,0-1-8], [27:0-3-0,Edge], [29:0-2-8,0-1-10], [34:0-3-8,Edge], [54:0-1-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	34	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 329 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.
WEBS 1 Row at midpt 17-51, 16-52, 18-50

REACTIONS (size) 2=42-0-0, 34=42-0-0, 36=42-0-0, 37=42-0-0, 38=42-0-0, 39=42-0-0, 40=42-0-0, 41=42-0-0, 42=42-0-0, 43=42-0-0, 44=42-0-0, 46=42-0-0, 47=42-0-0, 48=42-0-0, 49=42-0-0, 50=42-0-0, 51=42-0-0, 52=42-0-0, 53=42-0-0, 55=42-0-0, 56=42-0-0, 57=42-0-0, 58=42-0-0, 59=42-0-0, 60=42-0-0, 61=42-0-0, 62=42-0-0, 63=42-0-0, 64=42-0-0, 65=42-0-0, 68=42-0-0
Max Horiz 2=-296 (LC 10), 65=-296 (LC 10)
Max Uplift 2=-92 (LC 12), 34=-115 (LC 12), 36=-70 (LC 12), 37=-29 (LC 3), 38=-30 (LC 12), 39=-24 (LC 12), 40=-47 (LC 12), 41=-41 (LC 12), 42=-42 (LC 12), 43=-41 (LC 12), 44=-41 (LC 12), 46=-41 (LC 12), 47=-41 (LC 12), 48=-41 (LC 12), 49=-51 (LC 12), 50=-13 (LC 12), 51=-7 (LC 11), 52=-13 (LC 12), 53=-51 (LC 12), 55=-41 (LC 12), 56=-41 (LC 12), 57=-41 (LC 12), 58=-41 (LC 12), 59=-41 (LC 12), 60=-41 (LC 12), 61=-42 (LC 12), 62=-40 (LC 12), 63=-47 (LC 12), 64=-33 (LC 12), 65=-92 (LC 12), 68=-115 (LC 12)
Max Grav 2=200 (LC 23), 34=235 (LC 1), 36=324 (LC 1), 37=-4 (LC 8), 38=125 (LC 1), 39=85 (LC 1), 40=118 (LC 18), 41=105 (LC 18), 42=107 (LC 18), 43=107 (LC 18), 44=107 (LC 18), 46=107 (LC 18), 47=107 (LC 18), 48=107 (LC 18), 49=109 (LC 18), 50=105 (LC 18), 51=185 (LC 12), 52=114 (LC 17), 53=106 (LC 17), 55=107 (LC 17), 56=107 (LC 17), 57=107 (LC 17), 58=107 (LC 17), 59=107 (LC 17), 60=107 (LC 17), 61=106 (LC 17), 62=113 (LC 17), 63=80 (LC 17), 64=178 (LC 17), 65=200 (LC 23), 68=235 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-4=-229/229, 4-5=-201/206, 5-6=-188/197, 6-7=-177/183, 7-8=-166/170, 8-9=-156/158, 9-10=-145/202, 10-11=-134/267, 11-12=-124/331, 12-14=-113/395, 14-15=-116/459, 15-16=-134/532, 16-17=-143/571, 17-18=-143/571, 18-19=-134/532, 19-20=-116/459, 20-21=-101/395, 21-22=-85/331, 22-23=-70/267, 23-24=-54/202, 24-25=-38/138, 25-26=-41/74, 26-28=-50/56, 28-29=-70/70, 29-30=-97/67, 30-31=-127/70, 31-32=-141/64, 32-34=-214/80, 34-35=0/20
BOT CHORD 2-64=-85/277, 63-64=-71/277, 62-63=-71/277, 61-62=-71/277, 60-61=-71/277, 59-60=-71/277, 58-59=-71/277, 57-58=-71/277, 56-57=-71/277, 55-56=-71/277, 53-55=-71/277, 52-53=-71/277, 51-52=-71/277, 50-51=-71/277, 49-50=-71/277, 48-49=-71/277, 47-48=-71/277, 46-47=-71/277, 44-46=-71/277, 43-44=-71/277, 42-43=-71/277, 41-42=-71/277, 40-41=-71/277, 39-40=-71/277, 38-39=-69/269, 37-38=-69/269, 36-37=-69/269, 34-36=-69/269

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

July 17,2024

Continued on page 2

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

WEBS 17-51=-343/64, 16-52=-88/75,
15-53=-80/153, 14-55=-80/132,
12-56=-80/132, 11-57=-80/133,
10-58=-80/133, 9-59=-80/133, 8-60=-80/133,
7-61=-80/132, 6-62=-83/135, 5-63=-68/124,
4-64=-120/177, 18-50=-78/75,
19-49=-83/153, 20-48=-80/132,
21-47=-80/132, 22-46=-80/133,
23-44=-80/133, 24-43=-80/133,
25-42=-81/133, 26-41=-78/130,
28-40=-91/146, 29-39=-63/95,
30-38=-83/113, 31-37=-7/54, 32-36=-202/250

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=2ft; Cat. II; Exp C; Enclosed; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 2, 115 lb uplift at joint 34, 7 lb uplift at joint 51, 13 lb uplift at joint 52, 51 lb uplift at joint 53, 41 lb uplift at joint 55, 41 lb uplift at joint 56, 41 lb uplift at joint 57, 41 lb uplift at joint 58, 41 lb uplift at joint 59, 41 lb uplift at joint 60, 42 lb uplift at joint 61, 40 lb uplift at joint 62, 47 lb uplift at joint 63, 33 lb uplift at joint 64, 13 lb uplift at joint 50, 51 lb uplift at joint 49, 41 lb uplift at joint 48, 41 lb uplift at joint 47, 41 lb uplift at joint 46, 41 lb uplift at joint 44, 41 lb uplift at joint 43, 42 lb uplift at joint 42, 41 lb uplift at joint 41, 47 lb uplift at joint 40, 24 lb uplift at joint 39, 30 lb uplift at joint 38, 29 lb uplift at joint 37, 70 lb uplift at joint 36, 92 lb uplift at joint 2 and 115 lb uplift at joint 34.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
6241709	A02	Roof Special	5	1	T34466768
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:57 Page: 1

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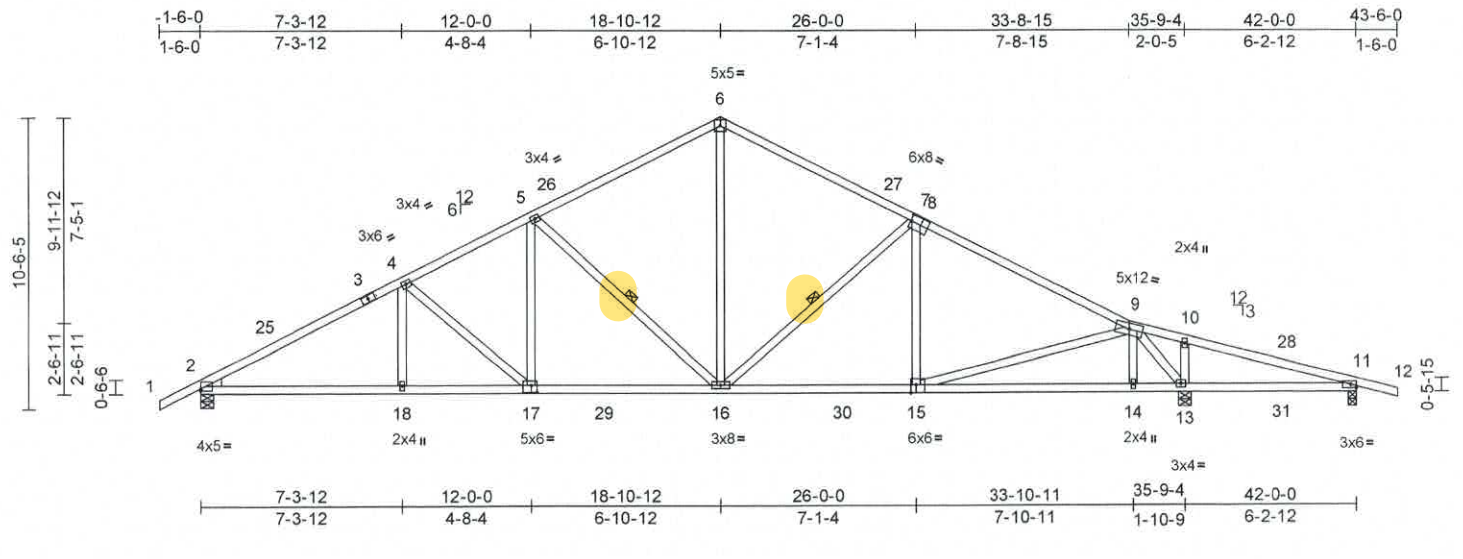


Scale = 1:80.3

Plate Offsets (X, Y): [2:Edge,0-1-0], [8:0-0-8,0-3-0], [15:0-2-4,Edge], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.18	16-17	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.31	16-17	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.12	17	>999	240	Weight: 230 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.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-16, 5-16

REACTIONS (size) 2=0-5-8, 11=0-3-8, 13=0-5-8
Max Horiz 2=-305 (LC 10)
Max Uplift 2=-447 (LC 12), 11=-209 (LC 9), 13=-569 (LC 12)
Max Grav 2=1595 (LC 17), 11=170 (LC 24), 13=1978 (LC 18)

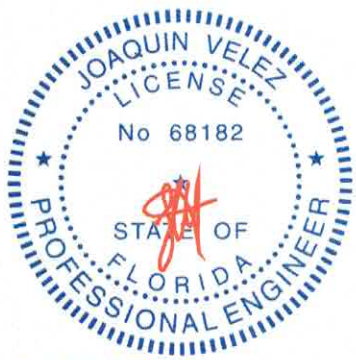
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/36, 2-4=-2616/862, 4-5=-2198/827, 5-6=-1554/714, 6-7=-1581/721, 7-9=-1915/727, 9-10=0/708, 10-11=-110/744, 11-12=0/20
BOT CHORD	2-18=-630/2466, 16-18=-630/2466, 14-16=-449/1633, 13-14=-246/775, 11-13=-673/99
WEBS	6-16=-327/1037, 7-16=-553/304, 7-15=-74/175, 9-15=-216/996, 9-14=0/230, 10-13=-293/247, 9-13=-2164/356, 5-16=-890/386, 4-18=0/217, 4-17=-488/203, 5-17=-61/547

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-8-6, Zone1 2-8-6 to 18-10-12, Zone2 18-10-12 to 24-10-0, Zone1 24-10-0 to 43-6-0 zone; cantilever left and right exposed ; porch 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be SP No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 447 lb uplift at joint 2, 209 lb uplift at joint 11 and 569 lb uplift at joint 13.

LOAD CASE(S) Standard



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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	A03	Roof Special	1	1	T34466769
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:57 Page: 1
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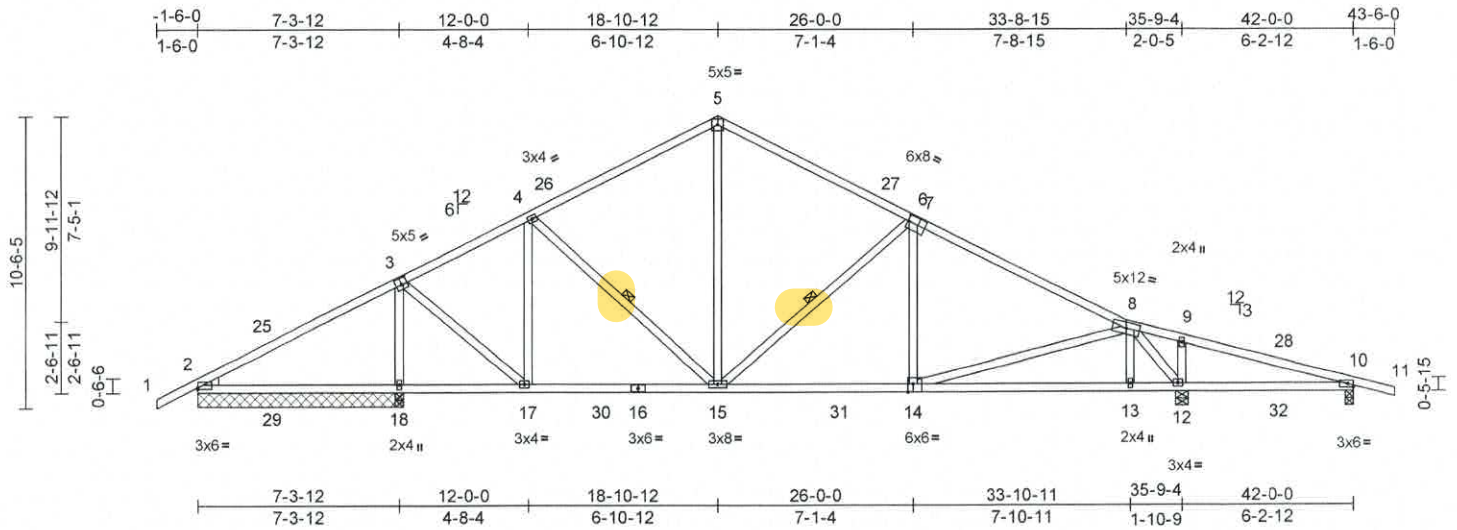

Scale = 1:80.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.25	18-21	>353	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.19	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 230 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.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-15, 4-15

REACTIONS (size) 2=7-5-8, 10=0-3-8, 12=0-5-8, 18=7-5-8, 19=7-5-8
Max Horiz 2=-305 (LC 10), 19=-305 (LC 10)
Max Uplift 2=-347 (LC 12), 10=-230 (LC 12), 12=-484 (LC 12), 18=-376 (LC 12), 19=-347 (LC 12)
Max Grav 2=405 (LC 23), 10=237 (LC 24), 12=1558 (LC 18), 18=1499 (LC 17), 19=405 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-4=-898/642, 4-5=-1026/638, 5-6=-1007/621, 6-8=-1486/650, 8-9=0/364, 9-10=-91/354, 10-11=0/20
BOT CHORD 2-18=-373/350, 17-18=-374/179, 15-17=-291/895, 13-15=-399/1244, 12-13=-279/800, 10-12=-309/47
WEBS 5-15=-248/554, 6-15=-669/326, 6-14=0/261, 8-14=-123/524, 8-13=0/225, 3-18=-1334/294, 4-15=-69/219, 4-17=-398/136, 3-17=-25/976, 9-12=-273/240, 8-12=-1662/257

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-8-6, Zone1 2-8-6 to 18-10-12, Zone2 18-10-12 to 24-10-0, Zone1 24-10-0 to 43-6-0 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be SP No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 2, 230 lb uplift at joint 10, 376 lb uplift at joint 18, 484 lb uplift at joint 12 and 347 lb uplift at joint 2.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	A04	Roof Special	8	1	T34466770
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:57 Page: 1
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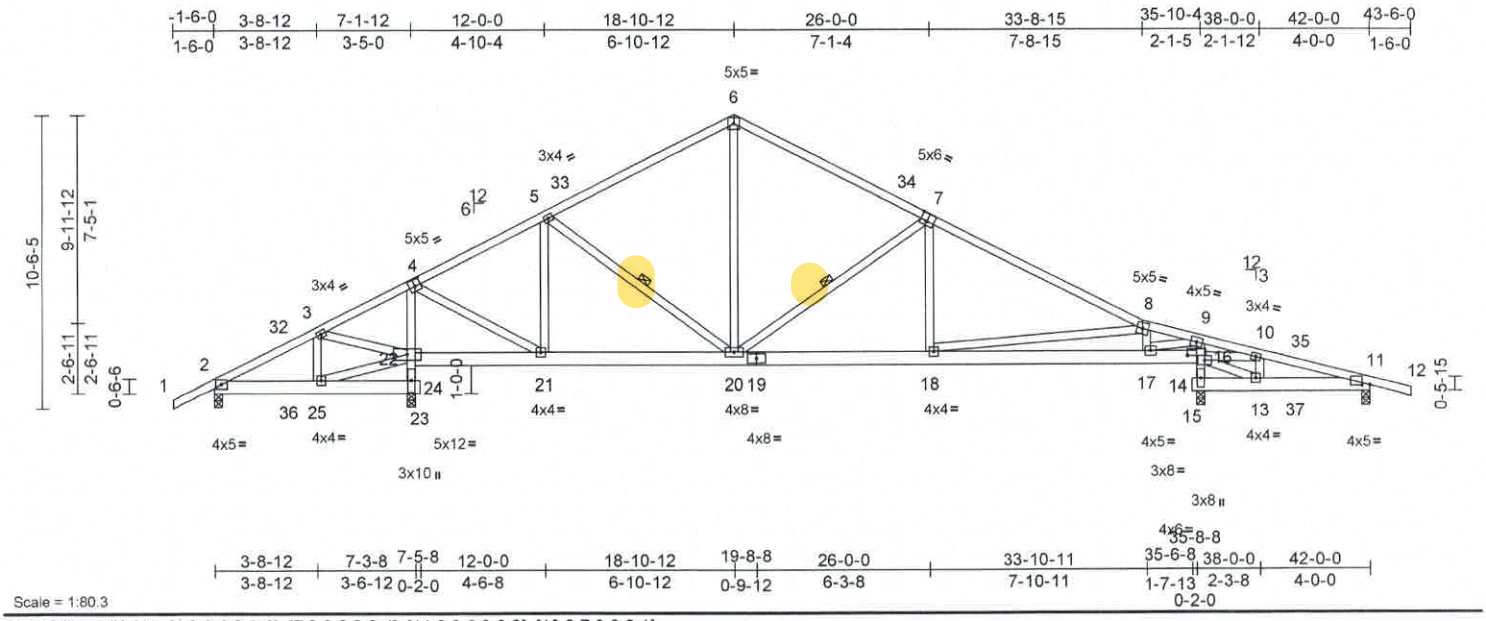

Plate Offsets (X, Y): [4:0-2-8,0-3-0], [7:0-3-0,0-3-4], [11:0-3-6,0-0-3], [16:0-7-8,0-2-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.06	17-18	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.12	17-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.06	17-18	>999	240	Weight: 273 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 24-4,9-14:2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
4-9-0 oc bracing: 22-24
WEBS 1 Row at midpt 5-20, 7-20

REACTIONS (size) 2=0-3-8, 11=0-3-8, 14=0-3-8, 24=0-3-8
Max Horiz 2=337 (LC 11)
Max Uplift 2=-209 (LC 12), 11=-215 (LC 12), 14=-463 (LC 12), 24=-535 (LC 12)
Max Grav 2=238 (LC 23), 11=207 (LC 24), 14=1391 (LC 1), 24=1511 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-84/286, 3-5=-782/510, 5-6=-940/496, 6-8=-1495/567, 8-9=-1130/348, 9-10=-328/886, 10-11=-12/385, 11-12=0/20
BOT CHORD 2-25=-321/69, 24-25=-61/1, 23-24=0/0, 22-24=-1478/761, 4-22=-1332/581, 21-22=-456/305, 20-21=-151/708, 18-20=-382/1265, 17-18=-332/1166, 16-17=-777/380, 14-16=-1391/677, 9-16=-1210/413, 14-15=0/0, 13-14=-175/84, 11-13=-281/36
WEBS 8-17=-637/356, 9-17=-670/1965, 10-13=-78/143, 3-22=-378/546, 3-25=-209/173, 4-21=-477/1194, 5-21=-483/318, 6-20=-132/467, 5-20=-65/221, 7-18=0/311, 8-18=-50/118, 7-20=-689/371, 22-25=-285/79, 13-16=-405/93, 10-16=-734/713

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-8-6, Zone1 2-8-6 to 18-10-12, Zone2 18-10-12 to 24-10-0, Zone1 24-10-0 to 43-6-0 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
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 2, 535 lb uplift at joint 24, 463 lb uplift at joint 14 and 215 lb uplift at joint 11.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	A05	Roof Special Structural Gable	1	1	T34466771 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:57 Page: 1

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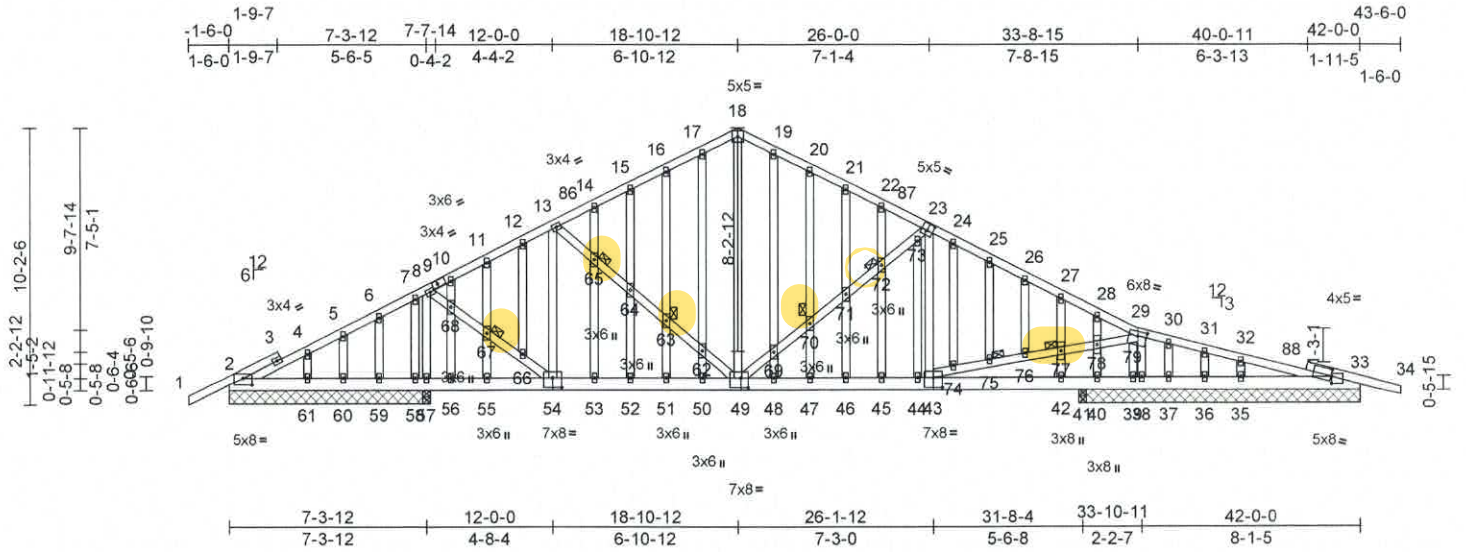

Scale = 1:82

Plate Offsets (X, Y): [2:0-4-0,0-3-1], [9:0-2-7,0-1-8], [23:0-2-8,0-3-0], [29:0-4-0,0-2-0], [33:0-0-4,0-2-12], [33:Edge,0-3-0], [43:0-4-0,0-4-8], [49:0-3-4,0-4-8], [54:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.05	46	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.09	46	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	83	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.05	46-47	>999	240	Weight: 408 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing:
2-61,60-61,59-60,58-59,57-58,56-57,55-56,54-55.
JOINTS 1 Brace at Jt(s): 63, 65, 67, 70, 72, 75, 77

REACTIONS (size) 2=7-5-8, 33=10-5-8, 35=10-5-8, 36=10-5-8, 37=10-5-8, 38=10-5-8, 39=10-5-8, 40=10-5-8, 41=0-3-8, 57=7-5-8, 58=7-5-8, 59=7-5-8, 60=7-5-8, 61=7-5-8, 80=7-5-8, 83=10-5-8
Max Horiz 2=-296 (LC 10), 80=-296 (LC 10)
Max Uplift 2=-77 (LC 12), 33=-147 (LC 12), 35=-71 (LC 12), 36=-36 (LC 3), 37=-34 (LC 12), 38=-91 (LC 12), 39=-44 (LC 12), 40=-866 (LC 1), 41=-393 (LC 12), 57=-469 (LC 12), 58=-418 (LC 1), 59=-43 (LC 12), 60=-49 (LC 12), 61=-25 (LC 9), 80=-77 (LC 12), 83=-147 (LC 12)
Max Grav 2=122 (LC 23), 33=280 (LC 1), 35=327 (LC 1), 36=-4 (LC 8), 37=149 (LC 1), 38=512 (LC 1), 39=127 (LC 18), 40=272 (LC 12), 41=1148 (LC 1), 57=1625 (LC 1), 58=147 (LC 12), 59=123 (LC 17), 60=71 (LC 17), 61=165 (LC 17), 80=122 (LC 23), 83=280 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-4=-203/384, 4-5=-173/376, 5-6=-141/366, 6-7=-114/370, 7-8=-52/261, 8-10=-545/251, 10-11=-591/291, 11-12=-596/327, 12-13=-551/334, 13-14=-733/404, 14-15=-717/432, 15-16=-708/460, 16-17=-710/495, 17-18=-685/508, 18-19=-694/504, 19-20=-714/490, 20-21=-713/455, 21-22=-711/423, 22-24=-848/433, 24-25=-946/455, 25-26=-968/437, 26-27=-980/416, 27-28=-928/352, 28-29=-933/328, 29-30=-239/138, 30-31=-230/120, 31-32=-251/123, 32-33=-247/81, 33-34=0/20
BOT CHORD 2-61=-330/276, 60-61=-330/250, 59-60=-330/250, 58-59=-330/250, 57-58=-330/250, 56-57=-330/250, 55-56=-330/250, 53-55=-330/588, 52-53=-73/588, 51-52=-73/588, 50-51=-73/588, 48-50=-193/840, 47-48=-193/840, 46-47=-193/840, 45-46=-193/840, 44-45=-193/840, 42-44=-193/840, 41-42=-34/268, 40-41=-34/268, 39-40=-34/268, 38-39=-34/268, 37-38=-19/221, 36-37=-19/221, 35-36=-19/221, 33-35=-40/221

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

July 17,2024

Continued on page 2

MiTek®
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WEBS 18-49=-324/433, 49-69=-363/238, 69-70=-361/237, 70-71=-345/225, 71-72=-331/215, 72-73=-339/221, 23-73=-330/212, 23-43=-132/69, 43-74=-174/619, 74-75=-157/579, 75-76=-162/583, 76-77=-169/591, 77-78=-151/562, 78-79=-164/589, 29-79=-133/530, 29-38=-601/194, 8-57=-672/261, 13-65=-31/212, 64-65=-22/219, 63-64=-32/213, 62-63=-43/202, 49-62=-33/223, 13-54=-330/131, 8-68=-348/932, 67-68=-351/953, 66-67=-360/968, 54-66=-369/985, 17-62=-20/44, 50-62=-52/66, 16-63=-81/100, 51-63=-54/79, 15-64=-63/85, 52-64=-39/70, 14-65=-55/69, 53-65=-77/80, 12-66=-14/34, 11-67=-93/77, 55-67=-115/93, 10-68=-154/80, 56-68=-191/90, 7-58=-272/127, 6-59=-50/51, 5-60=-82/61, 4-61=-82/112, 19-69=-36/58, 48-69=-33/58, 20-70=-78/96, 47-70=-53/77, 21-71=-85/98, 46-71=-62/82, 22-72=0/43, 45-72=0/35, 44-73=-15/17, 24-74=-64/153, 25-75=-32/30, 26-76=-54/37, 27-77=-192/133, 42-77=-365/235, 28-78=-74/45, 40-78=-34/94, 39-79=0/51, 30-37=-106/67, 31-36=-25/10, 32-35=-225/193

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-10-12, Zone1 2-10-12 to 18-10-12, Zone2 18-10-12 to 24-10-0, Zone1 24-10-0 to 43-6-0 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2, 91 lb uplift at joint 38, 147 lb uplift at joint 33, 469 lb uplift at joint 57, 418 lb uplift at joint 58, 43 lb uplift at joint 59, 49 lb uplift at joint 60, 25 lb uplift at joint 61, 866 lb uplift at joint 40, 44 lb uplift at joint 39, 34 lb uplift at joint 37, 36 lb uplift at joint 36, 71 lb uplift at joint 35, 393 lb uplift at joint 41, 77 lb uplift at joint 2 and 147 lb uplift at joint 33.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
6241709	B01	Attic Girder	1	1	T34466772
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:58

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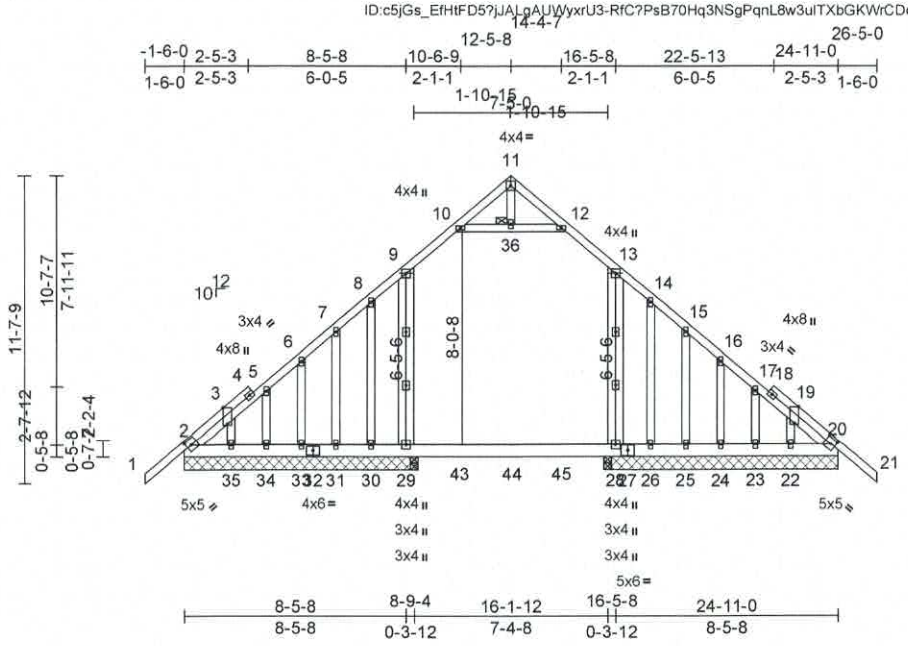


Scale = 1:84.2

Plate Offsets (X, Y): [2:0-2-15,Edge], [3:0-7-8,Edge], [19:0-7-8,Edge], [20:0-2-15,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.07	28-29	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.10	28-29	>998	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.01	40	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	-0.01	28-29	>999	240	Weight: 217 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 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.
JOINTS 1 Brace at Jt(s): 36

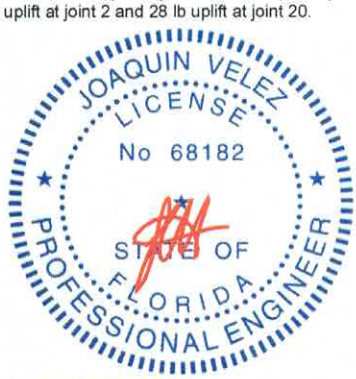
REACTIONS (size) 2=8-11-0, 20=8-11-0, 22=8-11-0, 23=8-11-0, 24=8-11-0, 25=8-11-0, 26=8-11-0, 28=8-11-0, 29=8-11-0, 30=8-11-0, 31=8-11-0, 33=8-11-0, 34=8-11-0, 35=8-11-0, 37=8-11-0, 40=8-11-0
Max Horiz 2=386 (LC 7), 37=386 (LC 7)
Max Uplift 2=-33 (LC 4), 20=-28 (LC 5), 22=-47 (LC 24), 23=-67 (LC 8), 24=-77 (LC 26), 25=-49 (LC 8), 26=-628 (LC 12), 30=-440 (LC 12), 33=-34 (LC 26), 34=-34 (LC 8), 35=-30 (LC 25), 37=-33 (LC 4), 40=-28 (LC 5)
Max Grav 2=381 (LC 1), 20=381 (LC 1), 22=91 (LC 7), 23=149 (LC 15), 24=81 (LC 21), 25=291 (LC 15), 26=-61 (LC 19), 28=1198 (LC 15), 29=1253 (LC 14), 30=-27 (LC 9), 31=431 (LC 14), 33=202 (LC 14), 34=271 (LC 14), 35=147 (LC 14), 37=381 (LC 1), 40=381 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/52, 2-3=-433/84, 3-5=-408/58, 5-6=-421/34, 6-7=-405/5, 7-8=-389/19, 8-9=-375/63, 9-10=-378/127, 10-11=-175/28, 11-12=-178/28, 12-13=-378/128, 13-14=-358/62, 14-15=-376/12, 15-16=-392/0, 16-17=-407/17, 17-19=-396/42, 19-20=-419/67, 20-21=0/52
BOT CHORD 2-35=-99/349, 34-35=-78/349, 33-34=-78/349, 31-33=-78/349, 30-31=-78/349, 29-30=-78/349, 28-29=-78/349, 26-28=-78/349, 25-26=-78/349, 24-25=-78/349, 23-24=-78/349, 22-23=-78/349, 20-22=-78/349
WEBS 13-28=-294/6, 9-29=-304/83, 10-36=-136/153, 12-36=-136/153, 11-36=0/53, 8-30=-94/32, 7-31=-149/35, 6-33=-128/48, 5-34=-128/44, 3-35=-91/53, 14-26=-37/88, 15-25=-100/82, 16-24=-93/83, 17-23=-105/68, 19-22=-77/68

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; 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) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (10.0 psf) on member(s). 9-10, 12-13, 10-36, 12-36; Wall dead load (5.0psf) on member (s).13-28, 9-29, 8-30, 7-31, 6-33, 5-34, 3-35
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 34-35, 33-34, 31-33, 30-31, 29-30, 28-29
11) All bearings are assumed to be SP No.2 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 28 lb uplift at joint 20, 440 lb uplift at joint 30, 34 lb uplift at joint 33, 34 lb uplift at joint 34, 30 lb uplift at joint 35, 628 lb uplift at joint 26, 49 lb uplift at joint 25, 77 lb uplift at joint 24, 67 lb uplift at joint 23, 47 lb uplift at joint 22, 33 lb uplift at joint 2 and 28 lb uplift at joint 20.



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

July 17,2024

Continued on page 2

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13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 34 lb down and 13 lb up at 10-6-4, and 34 lb down and 13 lb up at 12-6-4, and 34 lb down and 13 lb up at 14-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
15) 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 (lb/ft)
   Vert: 1-9=-54, 9-10=-74, 10-11=-54, 11-12=-54, 12-13=-74, 13-21=-54, 35-37=-20, 28-35=-30, 28-40=-20, 10-36=-20, 12-36=-20
   Drag: 13-28=-10, 9-29=-10, 8-30=-10, 7-31=-10, 6-33=-10, 5-34=-10, 3-35=-10
   Concentrated Loads (lb)
   Vert: 43=-19 (F), 44=-19 (F), 45=-19 (F)

Job	Truss	Truss Type	Qty	Ply		
6241709	B02	Attic	2	1	Job Reference (optional)	T34466773

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:58 Page: 1

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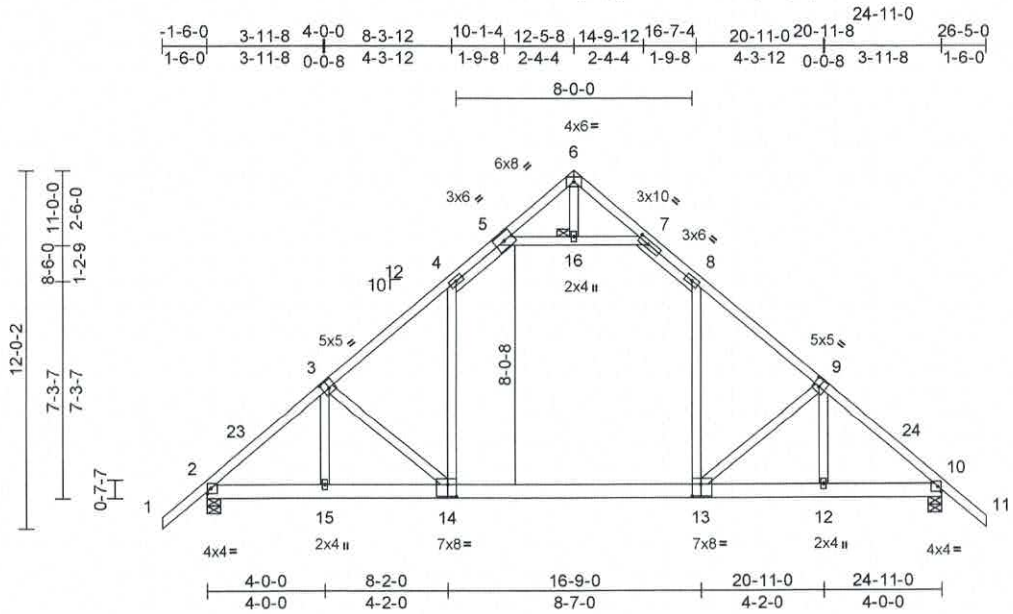

Scale = 1:74.8

Plate Offsets (X, Y): [2:0-1-5,0-2-0], [3:0-2-8,0-3-0], [7:0-4-5,0-1-8], [9:0-2-8,0-3-0], [10:0-1-5,0-2-0], [13:0-3-8,0-4-12], [14:0-3-8,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.26	13-14	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.44	13-14	>675	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	-0.20	14-15	>999	240	Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-6,6-9:2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.2

BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 13-14.

JOINTS 1 Brace at Jt(s): 16

REACTIONS (size) 2=0-5-8, 10=0-5-8
Max Horiz 2=400 (LC 11)
Max Uplift 2=-194 (LC 12), 10=-194 (LC 12)
Max Grav 2=1382 (LC 18), 10=1382 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/52, 2-4=-1737/199, 4-5=-1101/253, 5-6=-26/231, 6-7=-26/231, 7-8=-1101/253, 8-10=-1736/199, 10-11=0/52

BOT CHORD 2-15=-116/1578, 12-15=-16/1578, 10-12=-16/1296

WEBS 8-13=-16/780, 4-14=-16/780, 5-16=-1440/344, 7-16=-1440/344, 6-16=0/77, 3-14=-373/232, 9-13=-376/232, 3-15=-265/145, 9-12=-267/147

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-5-8, Zone2 12-5-8 to 16-7-4, Zone1 16-7-4 to 26-5-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s).8-13, 4-14
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 2 and 194 lb uplift at joint 10.
10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	B03	Attic	1	1	T34466774 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:58 Page: 1

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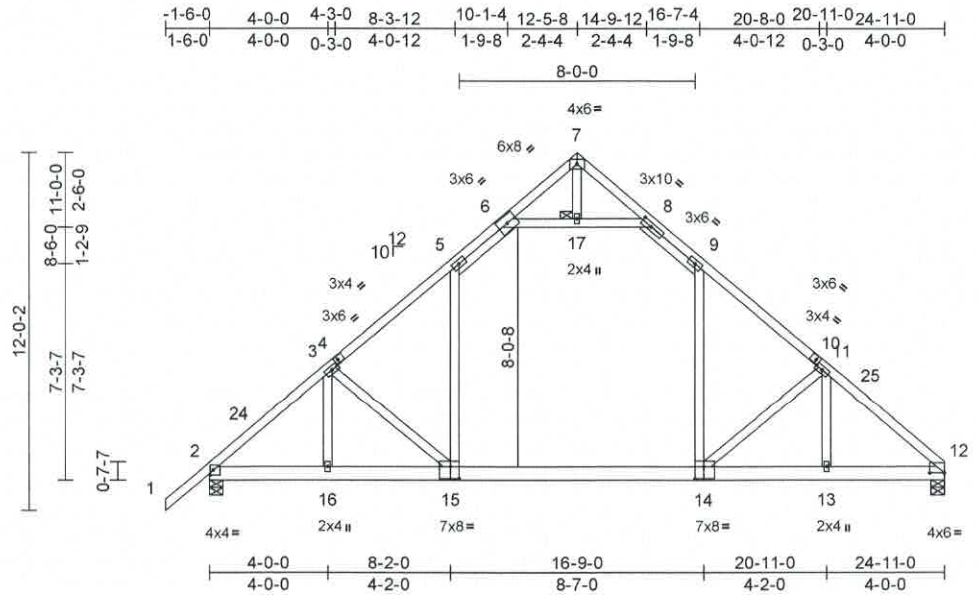


Scale = 1:74.8

Plate Offsets (X, Y): [2:0-1-5,0-2-0], [4:0-1-8,0-1-8], [8:0-4-5,0-1-8], [10:0-1-8,0-1-8], [12:0-6-0,0-0-1], [14:0-3-8,0-4-12], [15:0-3-8,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.26	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.45	14-15	>672	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	-0.20	15-16	>999	240	Weight: 173 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-7,7-10:2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 14-15.

JOINTS 1 Brace at Jt(s): 17

REACTIONS (size) 2=0-5-8, 12=0-5-8
Max Horiz 2=384 (LC 11)
Max Uplift 2=-198 (LC 12), 12=-108 (LC 12)
Max Grav 2=1383 (LC 18), 12=1300 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/52, 2-3=-1736/186, 3-5=-1742/201, 5-6=-1105/255, 6-7=-29/234, 7-8=-29/235, 8-9=-1102/260, 9-11=-1739/216, 11-12=-1760/232

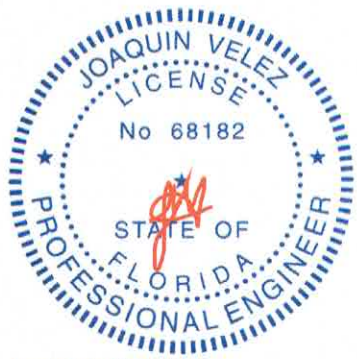
BOT CHORD 2-16=-106/1559, 13-16=-88/1559, 12-13=-88/1313

WEBS 9-14=-31/780, 5-15=-15/780, 6-17=-1449/361, 8-17=-1449/361, 7-17=0/77, 3-15=-374/225, 11-14=-388/247, 3-16=-268/147, 11-13=-260/160

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-5-8, Zone2 12-5-8 to 16-7-4, Zone1 16-7-4 to 24-11-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17; Wall dead load (5.0psf) on member(s).9-14, 5-15
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2 and 108 lb uplift at joint 12.
10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	B04	Attic	8	1	T34466775 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:58 Page: 1

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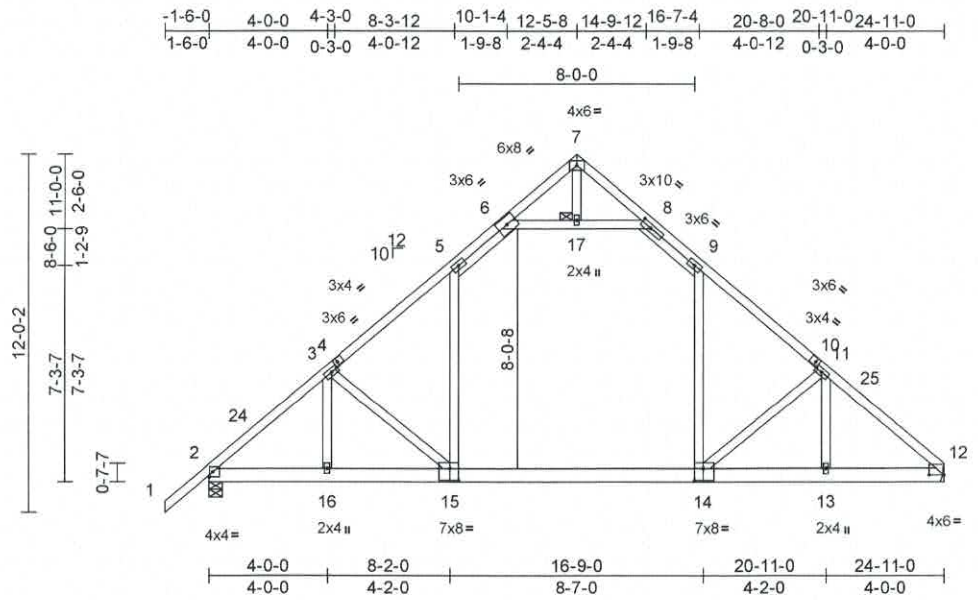

Scale = 1:74.8

Plate Offsets (X, Y): [2:0-1-5,0-2-0], [4:0-1-8,0-1-8], [8:0-4-5,0-1-8], [10:0-1-8,0-1-8], [12:0-6-0,0-0-1], [14:0-3-8,0-4-12], [15:0-3-8,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.26	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.45	14-15	>672	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	-0.20	15-16	>999	240	Weight: 173 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-7,7-10:2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 14-15.
JOINTS 1 Brace at Jt(s): 17

REACTIONS (size) 2=0-5-8, 12= Mechanical
Max Horiz 2=384 (LC 11)
Max Uplift 2=-198 (LC 12), 12=-108 (LC 12)
Max Grav 2=1383 (LC 18), 12=1300 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-1736/186, 3-5=-1742/201, 5-6=-1105/255, 6-7=-29/234, 7-8=-29/235, 8-9=-1102/260, 9-11=-1739/216, 11-12=-1760/232
BOT CHORD 2-16=-106/1559, 13-16=-88/1559, 12-13=-88/1313
WEBS 9-14=-31/780, 5-15=-15/780, 6-17=-1449/361, 8-17=-1449/361, 7-17=0/77, 3-15=-374/225, 11-14=-388/247, 3-16=-268/147, 11-13=-260/160

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-5-8, Zone2 12-5-8 to 16-7-4, Zone1 16-7-4 to 24-11-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17; Wall dead load (5.0psf) on member(s).9-14, 5-15
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
8) Bearings are assumed to be: Joint 2 SP No.2 .
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2 and 108 lb uplift at joint 12.
11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	B05	Common	5	1	T34466776
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:59 Page: 1
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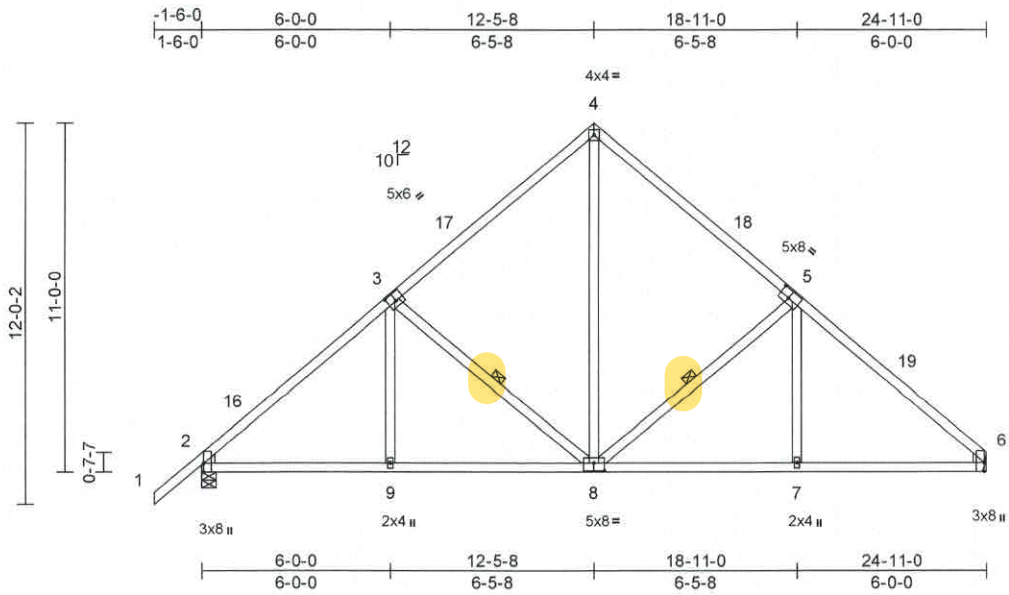

Scale = 1:70.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.04	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.10	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.04	7-15	>999	240	Weight: 144 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 Right: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-2-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 3-8, 5-8

REACTIONS (size) 2=0-5-8, 6= Mechanical
Max Horiz 2=384 (LC 11)
Max Uplift 2=-344 (LC 12), 6=-255 (LC 12)
Max Grav 2=1005 (LC 1), 6=919 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/52, 2-4=-1169/431, 4-6=-1176/441
BOT CHORD	2-9=-197/969, 7-9=-198/967, 6-7=-192/833
WEBS	4-8=-307/694, 3-9=0/240, 3-8=-458/306, 5-8=-468/313, 5-7=0/243

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-5-8, Zone2 12-5-8 to 16-8-7, Zone1 16-8-7 to 24-11-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: Joint 2 SP No.2 .
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 344 lb uplift at joint 2 and 255 lb uplift at joint 6.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	B06	Roof Special	5	1	T34466777
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:59 Page: 1
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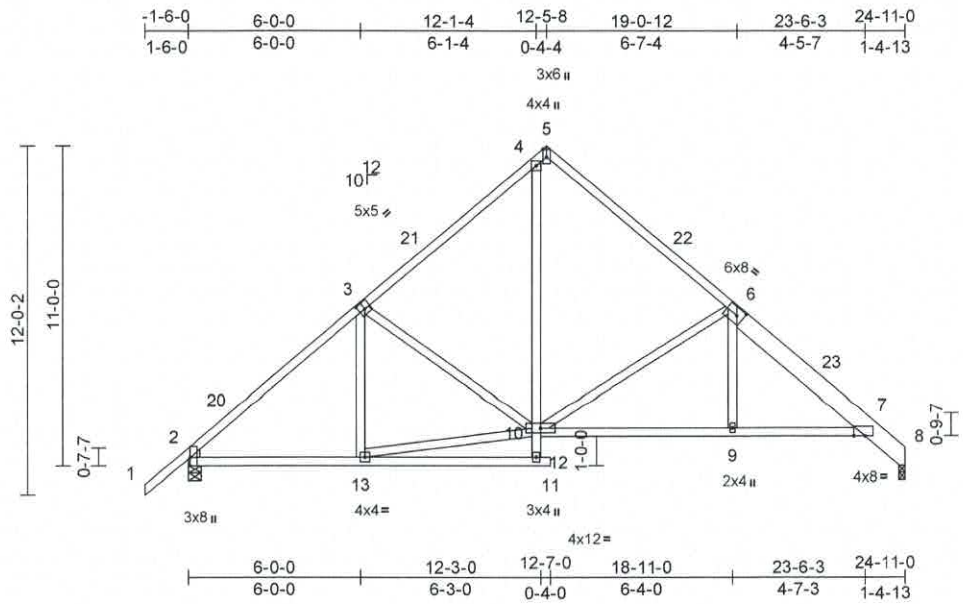

Scale = 1:76.7

Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-2-8,0-3-0], [5:0-3-5,Edge], [6:0-2-12,0-3-0], [7:0-4-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.09	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.22	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.11	11	>999	240	Weight: 161 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 6-8:2x8 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 5-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
10-0-0 oc bracing: 10-12

REACTIONS (size) 2=0-5-8, 8=0-2-8
Max Horiz 2=387 (LC 11)
Max Uplift 2=-340 (LC 12), 8=-247 (LC 12)
Max Grav 2=1007 (LC 1), 8=928 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-4=-1172/431, 4-5=-300/255, 5-7=-1383/464, 7-8=-587/228
BOT CHORD 2-13=-188/976, 12-13=0/32, 11-12=0/0, 10-12=0/141, 4-10=-280/745, 9-10=-234/1053, 7-9=-251/1047
WEBS 3-13=-39/139, 10-13=-216/968, 3-10=-380/278, 6-10=-613/347, 6-9=0/297

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-5-8, Zone2 12-5-8 to 16-8-7, Zone1 16-8-7 to 24-9-12 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearings are assumed to be: Joint 2 SP No.2 , Joint 8 SP No.2 .
7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 2 and 247 lb uplift at joint 8.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	B07	Common	1	1	T34466778
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:59 Page: 1
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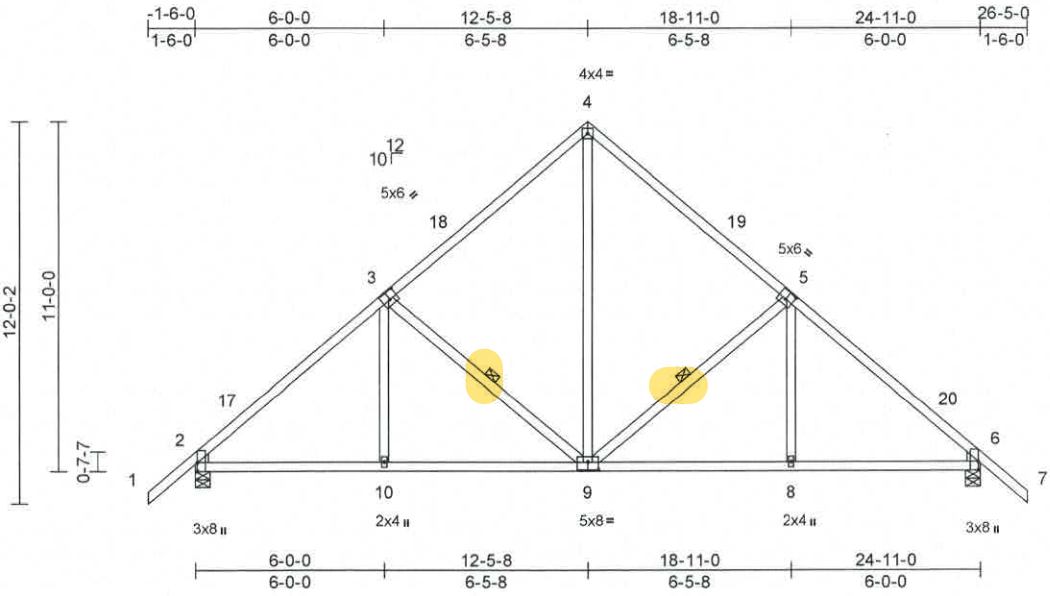

Scale = 1:70.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-3-8,Edge], [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.10	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.03	9	>999	240	Weight: 147 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 Right: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-3-9 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 3-9, 5-9

REACTIONS (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=400 (LC 11)
Max Uplift 2=-341 (LC 12), 6=-341 (LC 12)
Max Grav 2=1003 (LC 1), 6=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/52, 2-4=-1165/428, 4-6=-1165/428, 6-7=0/52
BOT CHORD	2-10=-155/989, 8-10=-137/987, 6-8=-136/824
WEBS	4-9=-289/686, 3-10=0/240, 3-9=-457/304, 5-9=-458/304, 5-8=0/240

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-5-8, Zone2 12-5-8 to 16-8-7, Zone1 16-8-7 to 26-5-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 341 lb uplift at joint 2 and 341 lb uplift at joint 6.

LOAD CASE(S) Standard

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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	B08	Common Supported Gable	1	1	T34466779 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:59 Page: 1
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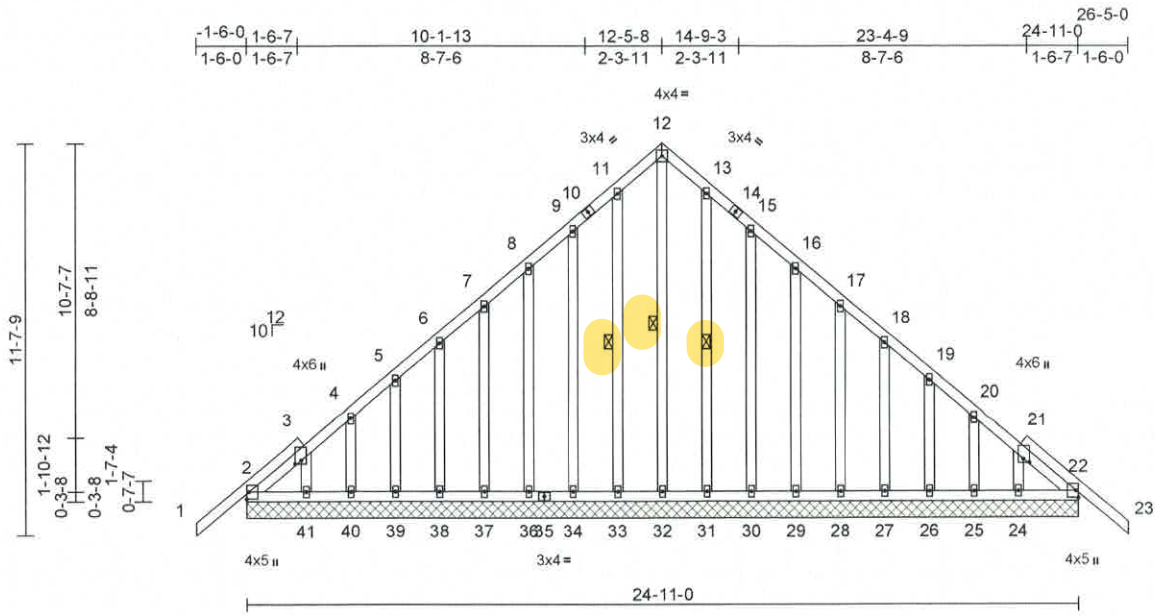

Scale = 1:66.1

Plate Offsets (X, Y): [3:0-1-5,0-2-4], [21:0-1-5,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	45	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 233 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.
WEBS 1 Row at midpt 12-32, 11-33, 13-31

REACTIONS (size) 2=24-11-0, 22=24-11-0, 24=24-11-0, 25=24-11-0, 26=24-11-0, 27=24-11-0, 28=24-11-0, 29=24-11-0, 30=24-11-0, 31=24-11-0, 32=24-11-0, 33=24-11-0, 34=24-11-0, 36=24-11-0, 37=24-11-0, 38=24-11-0, 39=24-11-0, 40=24-11-0, 41=24-11-0, 42=24-11-0, 45=24-11-0
Max Horiz 2=-386 (LC 10), 42=-386 (LC 10)
Max Uplift 2=-95 (LC 10), 22=-45 (LC 9), 24=-56 (LC 8), 25=-61 (LC 12), 26=-62 (LC 12), 27=-67 (LC 12), 28=-65 (LC 12), 29=-65 (LC 12), 30=-80 (LC 12), 31=-26 (LC 12), 32=-41 (LC 11), 33=-26 (LC 12), 34=-80 (LC 12), 36=-65 (LC 12), 37=-65 (LC 12), 38=-67 (LC 12), 39=-62 (LC 12), 40=-61 (LC 12), 41=-65 (LC 9), 42=-95 (LC 10), 45=-45 (LC 9)
Max Grav 2=237 (LC 18), 22=186 (LC 1), 24=120 (LC 18), 25=112 (LC 18), 26=118 (LC 18), 27=120 (LC 18), 28=119 (LC 18), 29=119 (LC 18), 30=123 (LC 18), 31=113 (LC 18), 32=267 (LC 12), 33=126 (LC 17), 34=119 (LC 17), 36=119 (LC 17), 37=119 (LC 17), 38=120 (LC 17), 39=118 (LC 17), 40=106 (LC 1), 41=135 (LC 17), 42=237 (LC 18), 45=186 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-259/292, 3-4=-227/244, 4-5=-223/234, 5-6=-204/206, 6-7=-183/177, 7-8=-162/148, 8-9=-141/195, 9-11=-164/280, 11-12=-188/323, 12-13=-188/323, 13-15=-164/280, 15-16=-114/195, 16-17=-72/121, 17-18=-66/53, 18-19=-82/82, 19-20=-122/110, 20-21=-180/128, 21-22=-257/174, 22-23=0/52
BOT CHORD 2-41=-173/320, 40-41=-158/320, 39-40=-158/320, 38-39=-158/320, 37-38=-158/320, 36-37=-158/320, 34-36=-158/320, 33-34=-158/320, 32-33=-158/320, 31-32=-158/320, 30-31=-158/320, 29-30=-158/320, 28-29=-158/320, 27-28=-158/320, 26-27=-158/320, 25-26=-158/320, 24-25=-158/320, 22-24=-158/320
WEBS 12-32=-313/155, 11-33=-100/57, 9-34=-96/123, 8-36=-92/104, 7-37=-92/105, 6-38=-93/105, 5-39=-91/104, 4-40=-76/89, 3-41=-117/114, 13-31=-86/57, 15-30=-97/123, 16-29=-92/104, 17-28=-92/105, 18-27=-93/105, 19-26=-92/104, 20-25=-84/90, 21-24=-119/116

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=2ft; Cat. II; Exp C; Enclosed; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

Date: July 17,2024

Continued on page 2

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 2, 45 lb uplift at joint 22, 41 lb uplift at joint 32, 26 lb uplift at joint 33, 80 lb uplift at joint 34, 65 lb uplift at joint 36, 65 lb uplift at joint 37, 67 lb uplift at joint 38, 62 lb uplift at joint 39, 61 lb uplift at joint 40, 65 lb uplift at joint 41, 26 lb uplift at joint 31, 80 lb uplift at joint 30, 65 lb uplift at joint 29, 65 lb uplift at joint 28, 67 lb uplift at joint 27, 62 lb uplift at joint 26, 61 lb uplift at joint 25, 56 lb uplift at joint 24, 95 lb uplift at joint 2 and 45 lb uplift at joint 22.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
6241709	C01	Common	6	1	T34466780
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

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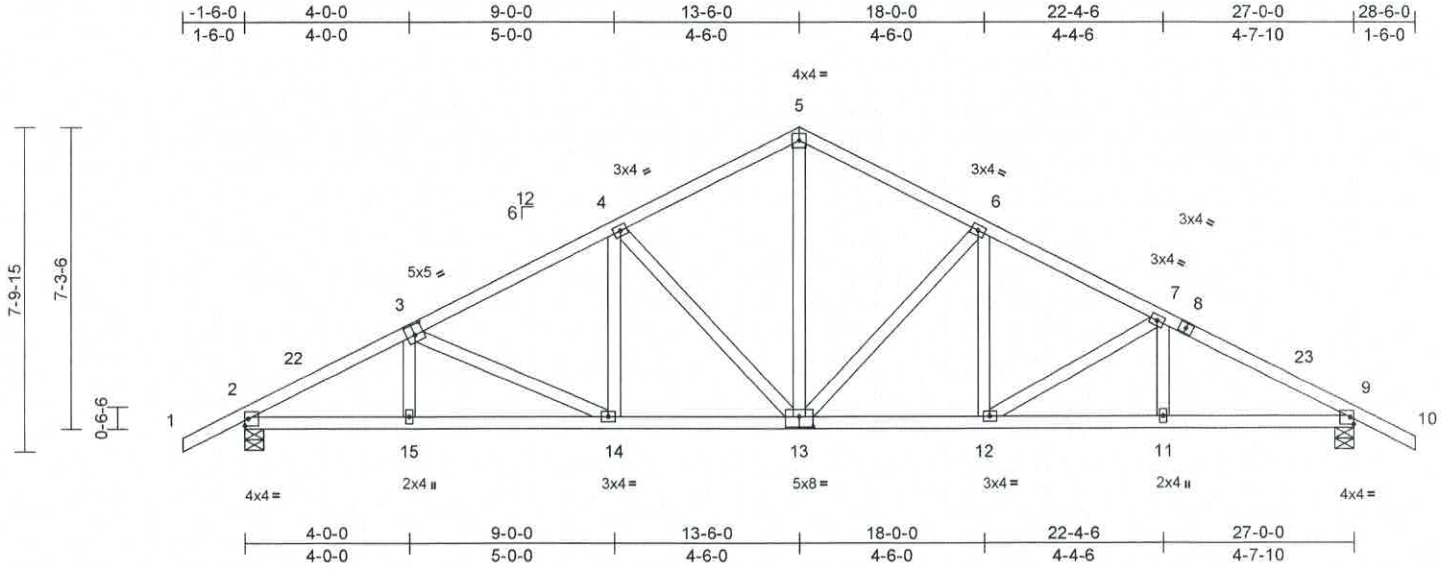

Scale = 1:53.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.08	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.16	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.08	14-15	>999	240	Weight: 153 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 4-1-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-6 oc bracing.

REACTIONS (size) 2=0-5-8, 9=0-5-8
Max Horiz 2=218 (LC 11)
Max Uplift 2=-362 (LC 12), 9=-362 (LC 12)
Max Grav 2=1080 (LC 1), 9=1080 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-4=-1743/592, 4-5=-1145/537, 5-6=-1143/535, 6-7=-1483/583, 7-9=-1732/593, 9-10=0/36
BOT CHORD 2-15=-423/1516, 14-15=-426/1515, 12-14=-345/1292, 11-12=-440/1486, 9-11=-440/1486
WEBS 5-13=-287/754, 3-15=0/135, 3-14=-267/113, 4-14=0/282, 4-13=-501/267, 6-13=-492/264, 6-12=-9/280, 7-12=-267/109, 7-11=0/139

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-6-0, Zone2 13-6-0 to 18-0-0, Zone1 18-0-0 to 28-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 2 and 362 lb uplift at joint 9.

LOAD CASE(S) Standard

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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	GT01	Common Girder	1	2	T34466781 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:40:59 Page: 1

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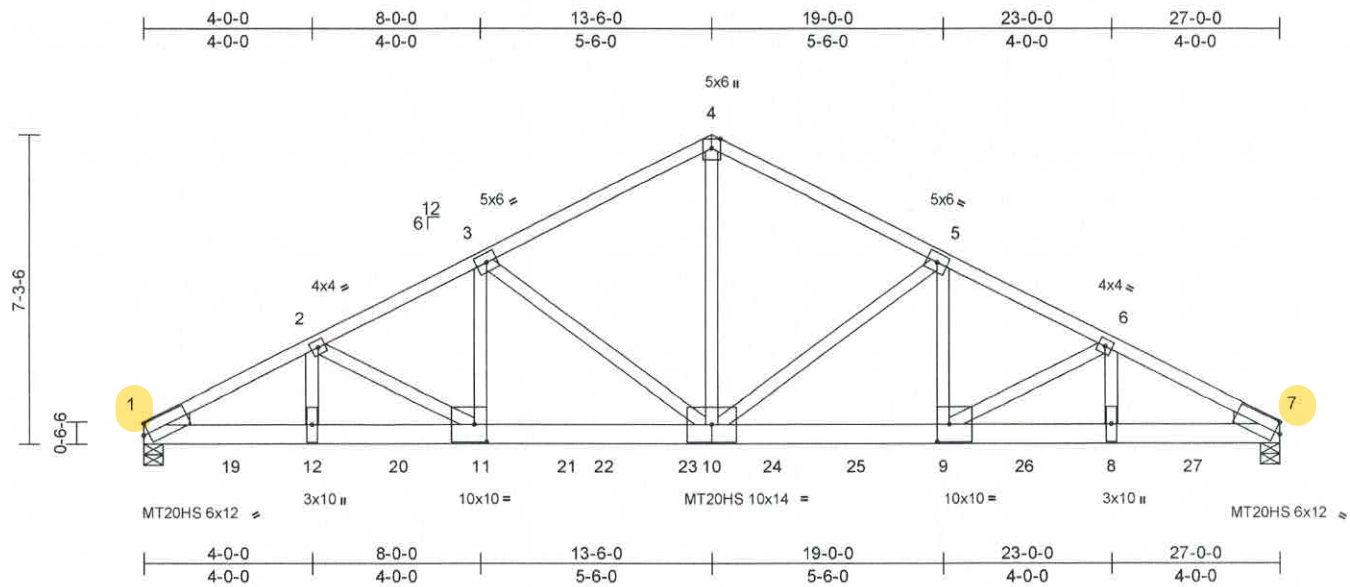

Scale = 1:52.5

Plate Offsets (X, Y): [1:Edge,0-3-1], [7:Edge,0-3-1], [9:0-3-8,0-5-0], [11:0-3-8,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.23	10-11	>999	360	MT20HS	187/143
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.46	10-11	>703	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.23	10-11	>999	240	Weight: 336 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-5-8, 7=0-5-8
Max Horiz 1=196 (LC 7)
Max Uplift 1=-1639 (LC 8), 7=-1218 (LC 8)
Max Grav 1=7549 (LC 13), 7=8648 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-14289/3041, 2-3=-13319/2626, 3-4=-10238/1759, 4-5=-10238/1759, 5-6=-14203/2147, 6-7=-16205/2313
BOT CHORD 1-12=-2662/12844, 11-12=-2662/12844, 9-11=-2228/12673, 8-9=-2010/14407, 7-8=-2010/14407
WEBS 4-10=-1391/8847, 3-11=-879/3416, 3-10=-3727/1111, 5-10=-4560/573, 5-9=-343/4225, 2-11=-1152/492, 2-12=-342/1001, 6-9=-1972/240, 6-8=-107/1759

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 0-6-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 5-9 2x4 - 1 row at 0-7-0 oc, member 2-12 2x4 - 2 rows staggered at 0-7-0 oc, member 6-8 2x4 - 1 row at 0-3-0 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=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp C; Enclosed; 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) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP DSS .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1639 lb uplift at joint 1 and 1218 lb uplift at joint 7.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 899 lb down and 267 lb up at 2-0-12, 899 lb down and 267 lb up at 4-0-12, 899 lb down and 267 lb up at 6-0-12, 899 lb down and 267 lb up at 8-0-12, 899 lb down and 267 lb up at 10-0-12, 1280 lb down and 120 lb up at 10-11-4, 1280 lb down and 120 lb up at 12-11-4, 1280 lb down and 120 lb up at 14-11-4, 1280 lb down and 120 lb up at 16-11-4, 1280 lb down and 120 lb up at 18-11-4, 1280 lb down and 120 lb up at 20-11-4, and 1280 lb down and 120 lb up at 22-11-4, and 1280 lb down and 120 lb up 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 (lb/ft)
Vert: 1-4=-60, 4-7=-54, 13-16=-20
Concentrated Loads (lb)

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

July 17,2024

Continued on page 2

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

Vert: 11=-899 (F), 9=-1097 (F), 12=-899 (F), 8=-1097 (F), 19=-899 (F), 20=-899 (F), 21=-899 (F), 22=-1097 (F), 23=-1097 (F), 24=-1097 (F), 25=-1097 (F), 26=-1097 (F), 27=-1097 (F)

Job	Truss	Truss Type	Qty	Ply	
6241709	M01	Monopitch Supported Gable	2	1	T34466782 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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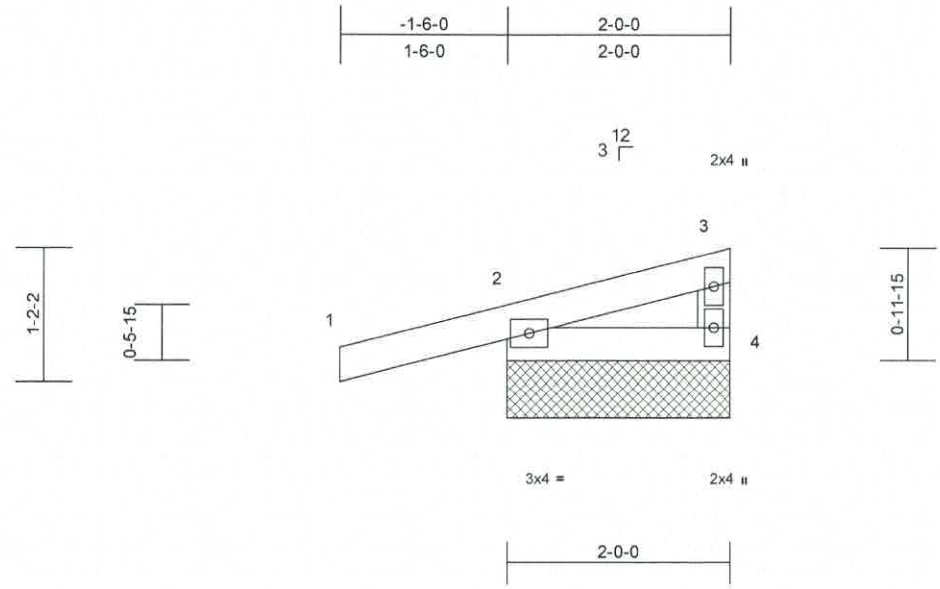

Scale = 1:19.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 9 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=2-0-0, 4=2-0-0, 5=2-0-0
Max Horiz 2=43 (LC 12), 5=43 (LC 12)
Max Uplift 2=-130 (LC 12), 4=-1 (LC 9), 5=-130 (LC 12)
Max Grav 2=182 (LC 1), 4=48 (LC 3), 5=182 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-363/92, 3-4=-45/82
BOT CHORD 2-4=-62/202

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; 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) 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.
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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 2, 1 lb uplift at joint 4 and 130 lb uplift at joint 2.

LOAD CASE(S) Standard

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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	M02	Monopitch	3	1	T34466783
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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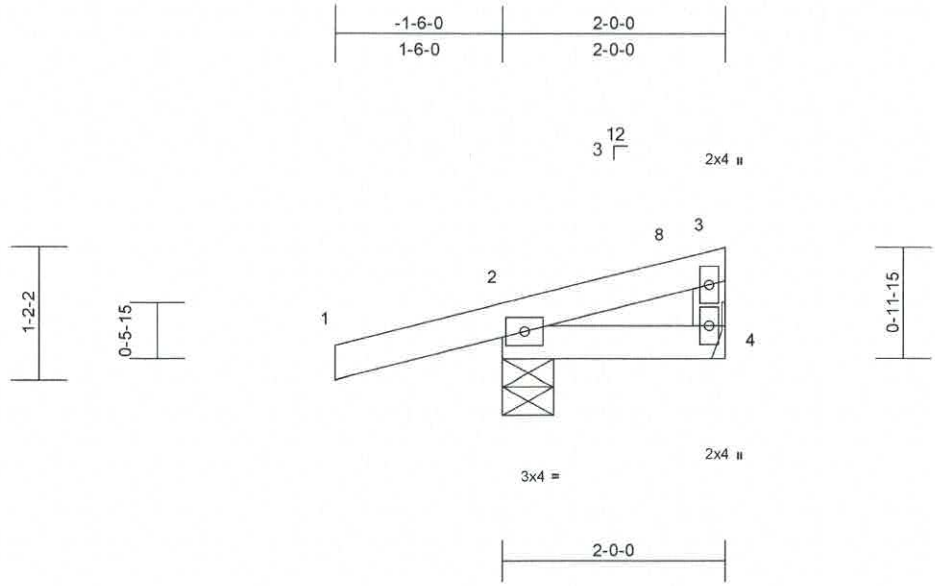

Scale = 1:19.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.00	4-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP		Wind(LL)	0.00	4-7	>999	240	Weight: 9 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical
Max Horiz 2=43 (LC 12)
Max Uplift 2=-130 (LC 12), 4=-3 (LC 9)
Max Grav 2=182 (LC 1), 4=42 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-282/92, 3-4=-45/55
BOT CHORD 2-4=-62/163

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 1-10-4 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearings are assumed to be: Joint 2 SP No.2 .
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 4 and 130 lb uplift at joint 2.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	V01	Valley	1	1	T34466784
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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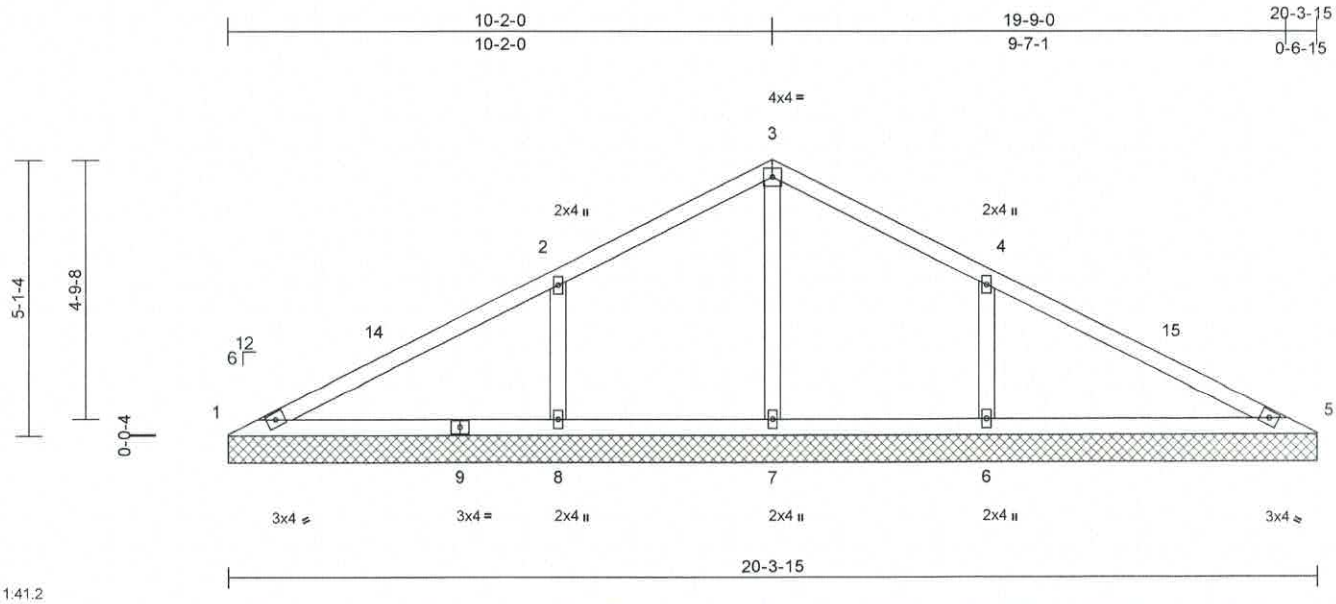

Scale = 1:41.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=20-3-15, 5=20-3-15, 6=20-3-15, 7=20-3-15, 8=20-3-15
Max Horiz 1=-140 (LC 10)
Max Uplift 1=-4 (LC 12), 5=-4 (LC 8), 6=-192 (LC 12), 7=-30 (LC 12), 8=-192 (LC 12)
Max Grav 1=101 (LC 23), 5=101 (LC 24), 6=483 (LC 18), 7=439 (LC 1), 8=484 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-180/379, 2-3=-28/324, 3-4=-30/324, 4-5=-182/366
BOT CHORD 1-8=-260/228, 7-8=-260/228, 6-7=-260/228, 5-6=-260/228
WEBS 3-7=-409/152, 2-8=-329/299, 4-6=-329/299

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 10-2-8, Zone2 10-2-8 to 14-2-8, Zone1 14-2-8 to 20-4-7 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 4 lb uplift at joint 5, 30 lb uplift at joint 7, 192 lb uplift at joint 8 and 192 lb uplift at joint 6.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	V02	Valley	1	1	T34466785
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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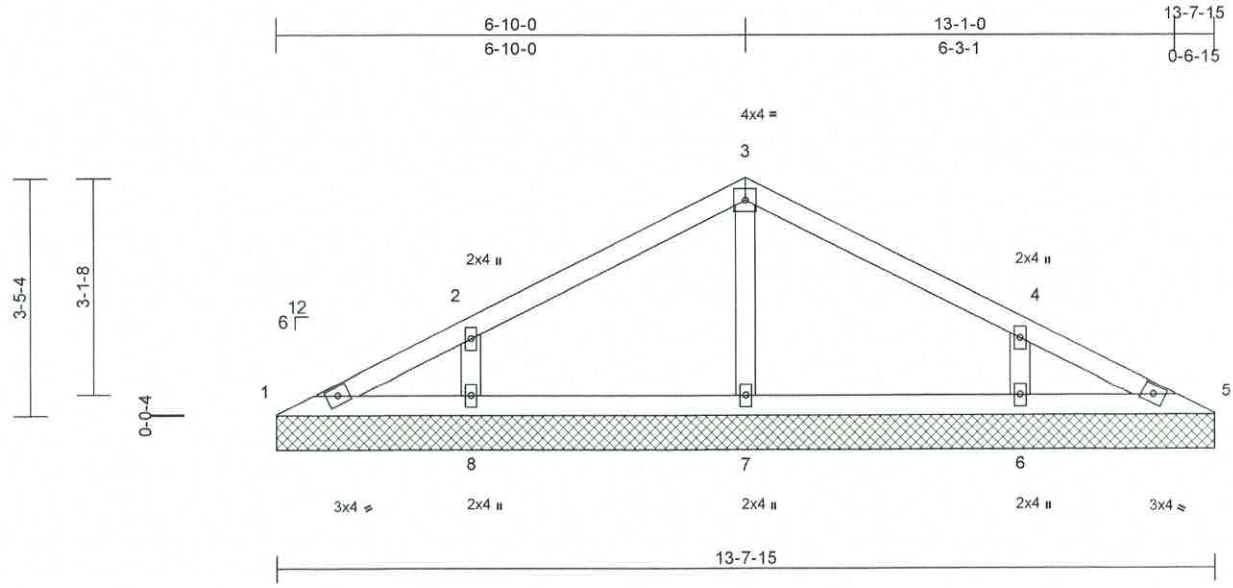

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 48 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 6-0-0 oc bracing.

REACTIONS (size) 1=13-7-15, 5=13-7-15, 6=13-7-15, 7=13-7-15, 8=13-7-15
Max Horiz 1=-93 (LC 10)
Max Uplift 1=-12 (LC 12), 5=-12 (LC 12), 6=-123 (LC 12), 7=-12 (LC 12), 8=-123 (LC 12)
Max Grav 1=72 (LC 18), 5=70 (LC 1), 6=307 (LC 18), 7=284 (LC 1), 8=308 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-107/90, 2-3=-64/116, 3-4=-50/117, 4-5=-87/69
BOT CHORD 1-8=-45/95, 7-8=-33/65, 6-7=-33/65, 5-6=-43/70
WEBS 3-7=-202/115, 2-8=-232/293, 4-6=-232/293

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-8 to 2-10-8, Zone1 2-10-8 to 6-10-8, Zone2 6-10-8 to 10-10-8, Zone1 10-10-8 to 13-8-7 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 12 lb uplift at joint 5, 12 lb uplift at joint 7, 123 lb uplift at joint 8 and 123 lb uplift at joint 6.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	V03	Valley	1	1	T34466786
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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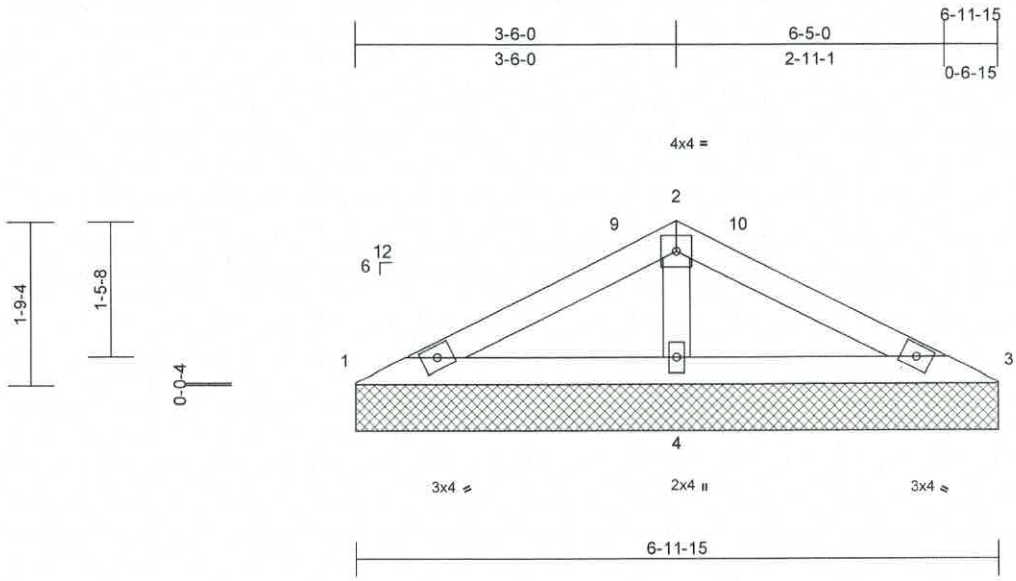

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 22 lb	FT = 20%

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

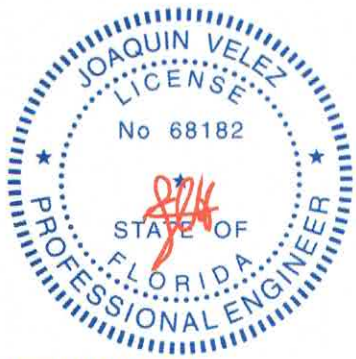
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-11-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=6-11-15, 3=6-11-15, 4=6-11-15
Max Horiz 1=-46 (LC 10)
Max Uplift 1=-15 (LC 12), 3=-15 (LC 12), 4=-115 (LC 12)
Max Grav 1=76 (LC 23), 3=76 (LC 24), 4=404 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-168/171, 2-3=-182/171
BOT CHORD 1-4=-142/278, 3-4=-142/278
WEBS 2-4=-279/433

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 3-6-8, Zone3 3-6-8 to 7-0-7 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 15 lb uplift at joint 3 and 115 lb uplift at joint 4.

LOAD CASE(S) Standard



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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	V04	Valley	1	1	T34466787
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

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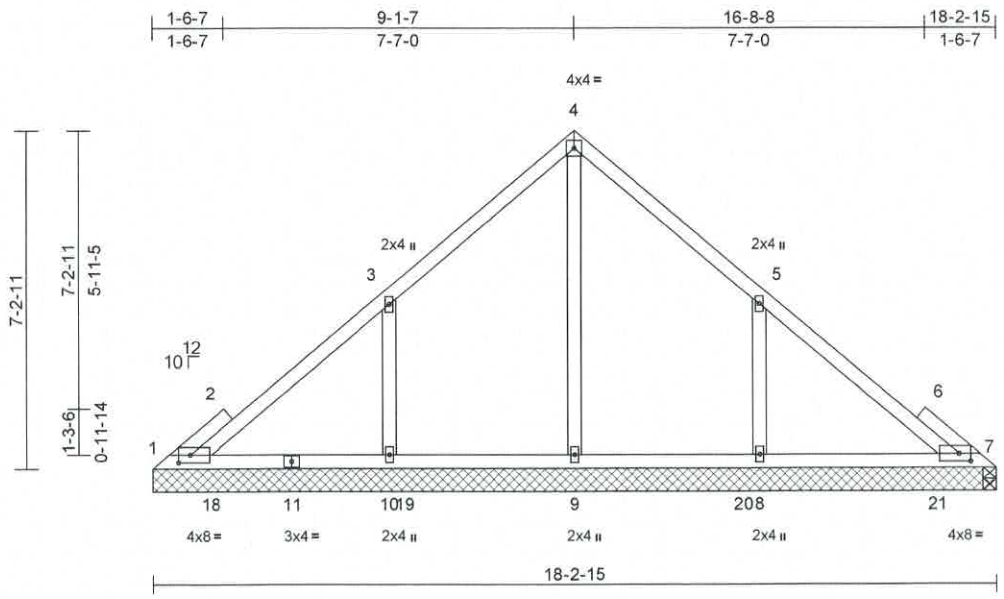

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Plate Offsets (X, Y): [1:0-3-0,0-2-0], [7:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.02	10-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.04	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.01	8-15	>999	240	Weight: 84 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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=18-2-15, 7=18-2-15, 8=18-2-15, 9=18-2-15, 10=18-2-15
Max Horiz 1=-224 (LC 10)
Max Uplift 1=-48 (LC 10), 7=-12 (LC 23), 8=-226 (LC 12), 9=-33 (LC 12), 10=-222 (LC 12)
Max Grav 1=82 (LC 11), 7=77 (LC 12), 8=547 (LC 18), 9=585 (LC 17), 10=549 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-314/362, 3-4=-9/270, 4-5=0/243, 5-7=-314/314
BOT CHORD 1-10=-252/323, 9-10=-237/313, 8-9=-237/313, 7-8=-261/332
WEBS 4-9=-417/170, 3-10=-320/455, 5-8=-324/455

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; 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
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) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1, 12 lb uplift at joint 7, 33 lb uplift at joint 9, 222 lb uplift at joint 10 and 226 lb uplift at joint 8.

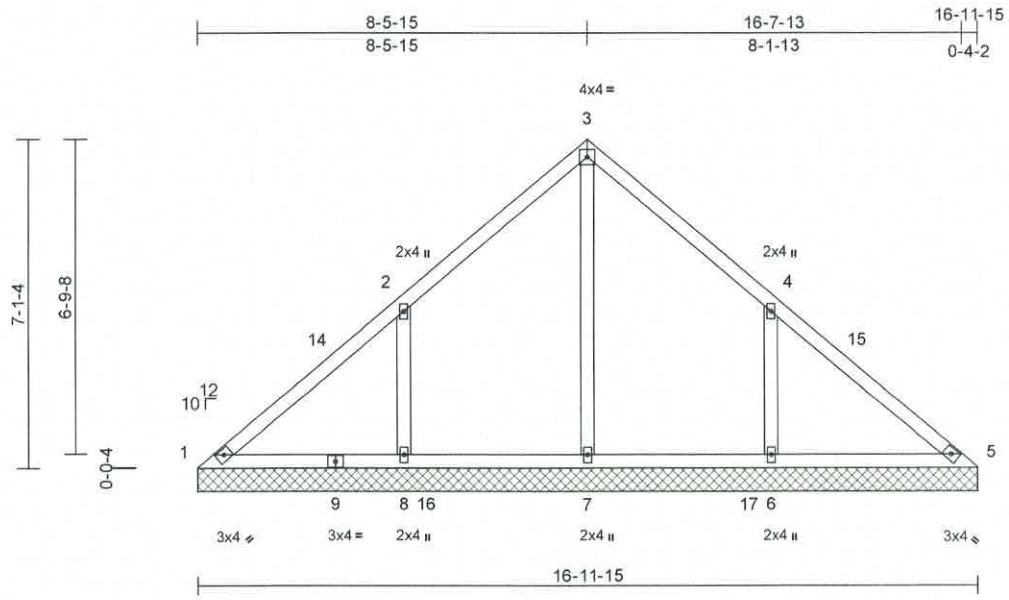
LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply		
6241709	V05	Valley	1	1	Job Reference (optional)	T34466788



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=16-11-15, 5=16-11-15, 6=16-11-15, 7=16-11-15, 8=16-11-15
Max Horiz 1=236 (LC 11)
Max Uplift 1=-40 (LC 10), 6=-238 (LC 12), 8=-238 (LC 12)
Max Grav 1=130 (LC 18), 5=94 (LC 24), 6=535 (LC 18), 7=492 (LC 17), 8=540 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-180/287, 2-3=-49/188, 3-4=-28/145, 4-5=-177/224
BOT CHORD 1-8=-179/204, 7-8=-179/204, 6-7=-179/204, 5-6=-179/204
WEBS 3-7=-307/28, 2-8=-331/360, 4-6=-329/360

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-5 to 3-0-5, Zone1 3-0-5 to 8-6-4, Zone2 8-6-4 to 12-6-4, Zone1 12-6-4 to 17-0-4 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1, 238 lb uplift at joint 8 and 238 lb uplift at joint 6.

LOAD CASE(S) Standard

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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	V06	Valley	1	1	T34466789
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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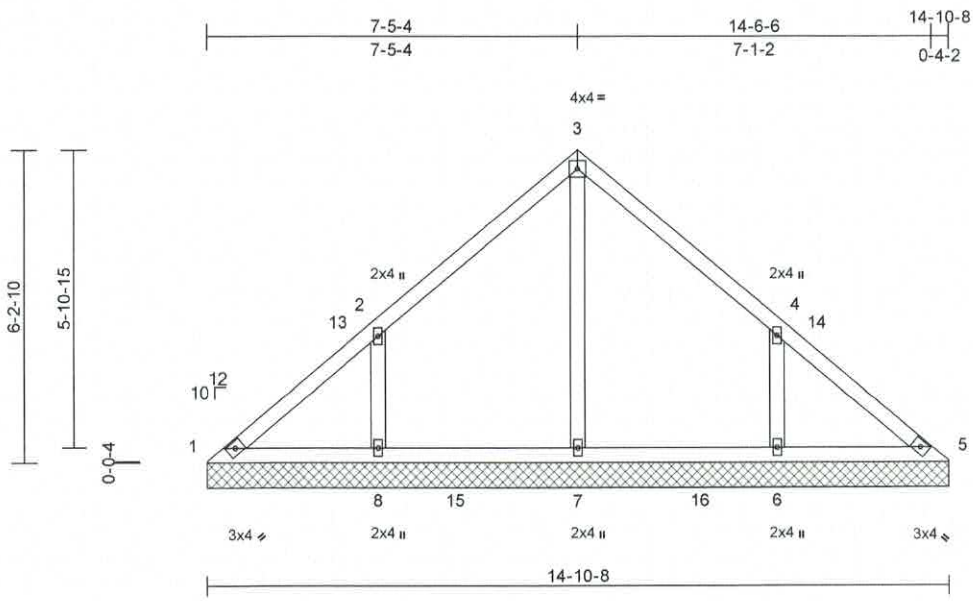

Scale = 1:44.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 65 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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=14-10-8, 5=14-10-8, 6=14-10-8, 7=14-10-8, 8=14-10-8
Max Horiz 1=-206 (LC 10)
Max Uplift 1=-35 (LC 10), 6=-205 (LC 12), 8=-205 (LC 12)
Max Grav 1=134 (LC 18), 5=96 (LC 17), 6=451 (LC 18), 7=413 (LC 17), 8=456 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-168/190, 2-3=-96/167, 3-4=-90/168, 4-5=-135/135
BOT CHORD 1-8=-105/154, 7-8=-105/154, 6-7=-105/154, 5-6=-105/154
WEBS 3-7=-218/3, 2-8=-299/377, 4-6=-299/365

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-5 to 3-0-5, Zone1 3-0-5 to 7-5-9, Zone2 7-5-9 to 11-5-9, Zone1 11-5-9 to 14-10-12 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 205 lb uplift at joint 8 and 205 lb uplift at joint 6.

LOAD CASE(S) Standard

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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	V07	Valley	1	1	T34466790
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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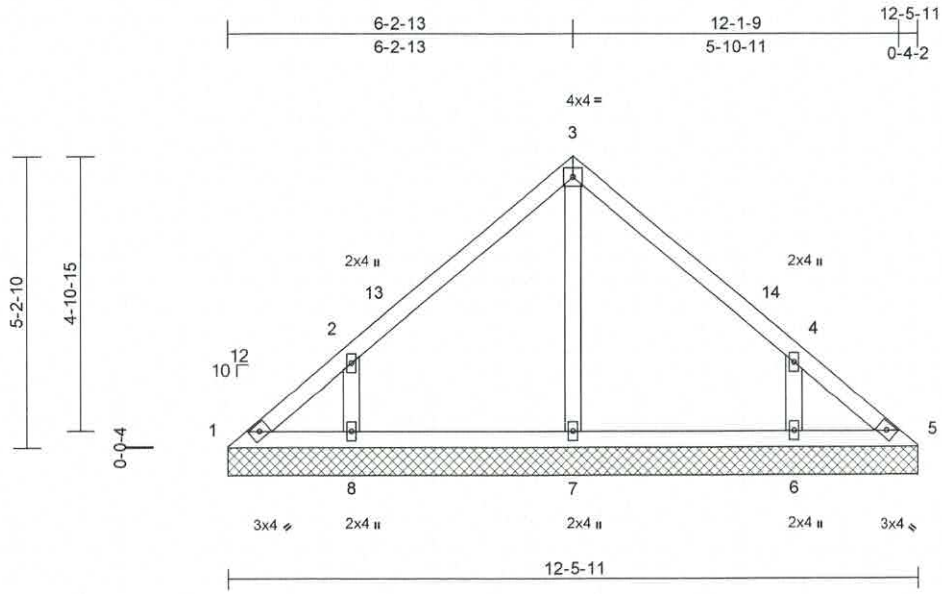

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 52 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 (size) 1=12-5-11, 5=12-5-11, 6=12-5-11, 7=12-5-11, 8=12-5-11
Max Horiz 1=172 (LC 11)
Max Uplift 1=-49 (LC 10), 5=-6 (LC 11), 6=-178 (LC 12), 8=-178 (LC 12)
Max Grav 1=110 (LC 18), 5=78 (LC 17), 6=334 (LC 18), 7=235 (LC 1), 8=340 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-141/147, 2-3=-142/193, 3-4=-129/196, 4-5=-123/89
BOT CHORD 1-8=-62/105, 7-8=-61/105, 6-7=-61/105, 5-6=-61/105
WEBS 3-7=-151/2, 2-8=-295/404, 4-6=-295/404

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-5 to 3-0-5, Zone1 3-0-5 to 6-3-2, Zone2 6-3-2 to 10-3-2, Zone1 10-3-2 to 12-6-0 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 6 lb uplift at joint 5, 178 lb uplift at joint 8 and 178 lb uplift at joint 6.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	V08	Valley	1	1	T34466791 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:00 Page: 1
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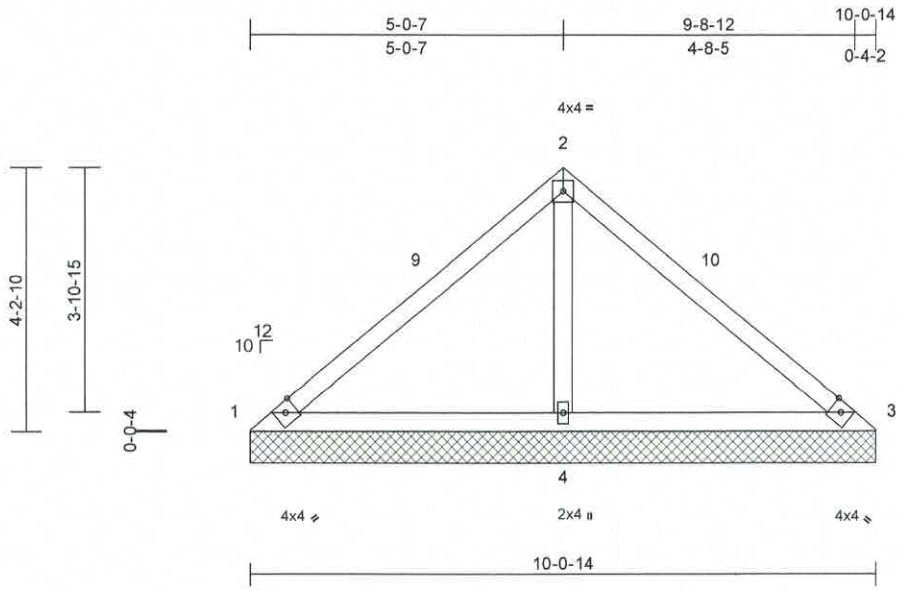

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 38 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 9-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=10-0-14, 3=10-0-14, 4=10-0-14
Max Horiz 1=-138 (LC 10)
Max Uplift 1=-37 (LC 24), 3=-37 (LC 23), 4=-282 (LC 12)
Max Grav 1=64 (LC 23), 3=64 (LC 24), 4=707 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-297/318, 2-3=-302/307
BOT CHORD 1-4=-301/399, 3-4=-301/399
WEBS 2-4=-600/643

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-5 to 3-0-5, Zone1 3-0-5 to 5-0-12, Zone2 5-0-12 to 9-3-13, Zone1 9-3-13 to 10-1-3 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 37 lb uplift at joint 3 and 282 lb uplift at joint 4.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	V09	Valley	1	1	T34466792
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:01 Page: 1

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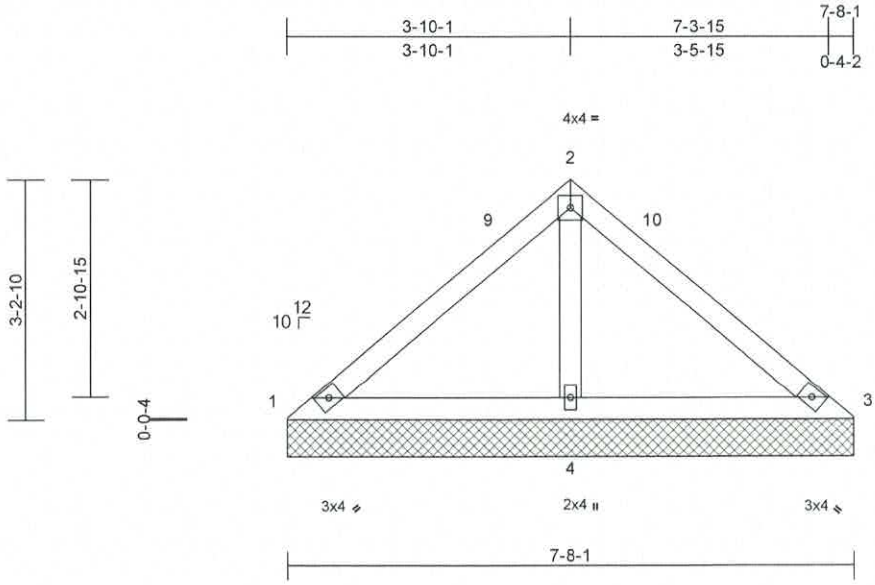

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 29 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 7-8-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=7-8-1, 3=7-8-1, 4=7-8-1
Max Horiz 1=-103 (LC 10)
Max Uplift 1=-7 (LC 24), 3=-7 (LC 10), 4=-174 (LC 12)
Max Grav 1=70 (LC 23), 3=70 (LC 24), 4=480 (LC 1)

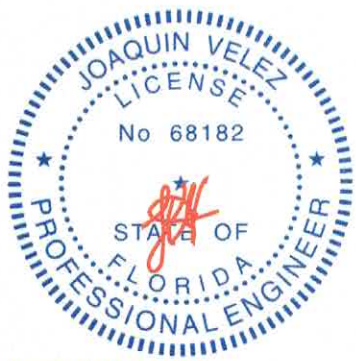
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-176/198, 2-3=-197/185
BOT CHORD 1-4=-190/320, 3-4=-190/320
WEBS 2-4=-387/504

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 0-0-5 to 3-0-5, Zone1 3-0-5 to 3-10-5, Zone3 3-10-5 to 7-8-6 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) 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 7 lb uplift at joint 3 and 174 lb uplift at joint 4.

LOAD CASE(S) Standard



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

July 17,2024

Job	Truss	Truss Type	Qty	Ply	
6241709	V10	Valley	1	1	T34466793 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

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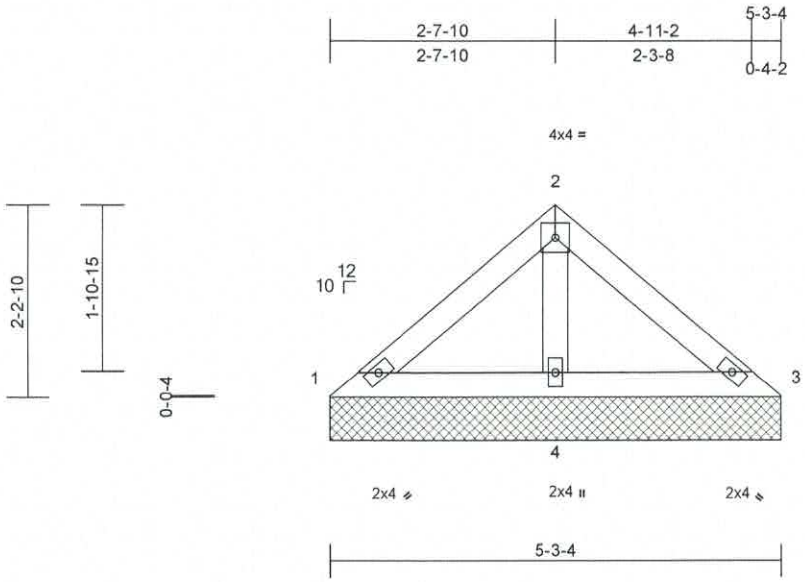

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 19 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 5-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=5-3-4, 3=5-3-4, 4=5-3-4
Max Horiz 1=-69 (LC 10)
Max Uplift 1=-4 (LC 12), 3=-6 (LC 8), 4=-101 (LC 12)
Max Grav 1=59 (LC 23), 3=59 (LC 24), 4=299 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-98/107, 2-3=-98/96
BOT CHORD 1-4=-122/224, 3-4=-122/224
WEBS 2-4=-209/300

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; 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
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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 6 lb uplift at joint 3 and 101 lb uplift at joint 4.

LOAD CASE(S) Standard

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

July 17,2024

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

Job	Truss	Truss Type	Qty	Ply	
6241709	V11	Valley	1	1	T34466794 Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Wed Jul 17 04:41:01 Page: 1

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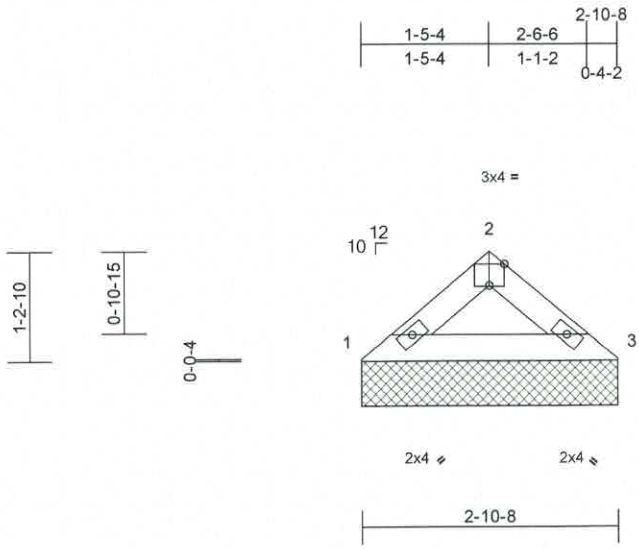

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Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 8 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 2-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-10-8, 3=2-10-8
Max Horiz 1=-35 (LC 10)
Max Uplift 1=-30 (LC 12), 3=-30 (LC 12)
Max Grav 1=106 (LC 1), 3=106 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-141/165, 2-3=-141/165
BOT CHORD 1-3=-103/113

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; 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
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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 30 lb uplift at joint 3.

LOAD CASE(S) Standard

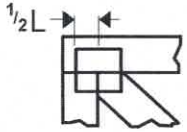
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 17,2024

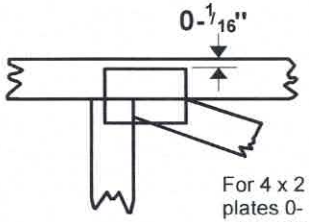
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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

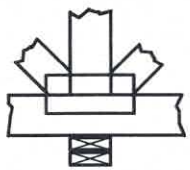
4 x 4

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

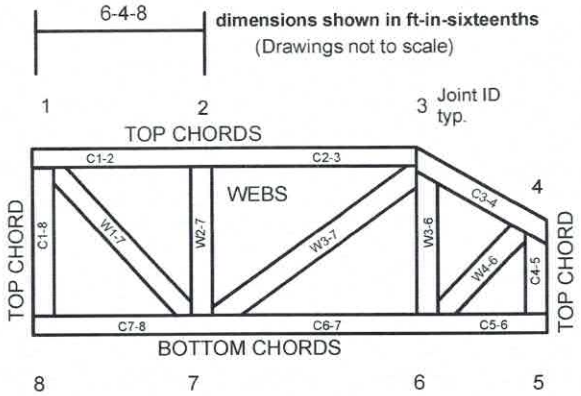


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.