



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

RE: 6240322 - Custom Made

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

Site Information:

Customer Info: Rob Smith Construction Project Name: - Model: -
 Lot/Block: - Subdivision: -
 Address: -, 3431 SW Custom Made Cir
 City: Lake 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 107 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.

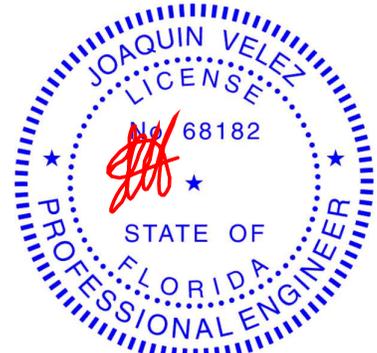
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T33959176	A01	5/23/24	23	T33959198	CJ5B	5/23/24
2	T33959177	A02	5/23/24	24	T33959199	CJ5C	5/23/24
3	T33959178	A03	5/23/24	25	T33959200	D01	5/23/24
4	T33959179	A04	5/23/24	26	T33959201	D02	5/23/24
5	T33959180	A05	5/23/24	27	T33959202	D03	5/23/24
6	T33959181	A06	5/23/24	28	T33959203	D04	5/23/24
7	T33959182	A07	5/23/24	29	T33959204	D05	5/23/24
8	T33959183	B01	5/23/24	30	T33959205	D06	5/23/24
9	T33959184	B02	5/23/24	31	T33959206	D07	5/23/24
10	T33959185	C01	5/23/24	32	T33959207	D08	5/23/24
11	T33959186	C02	5/23/24	33	T33959208	D09	5/23/24
12	T33959187	C03	5/23/24	34	T33959209	D10	5/23/24
13	T33959188	C04	5/23/24	35	T33959210	D11	5/23/24
14	T33959189	C05	5/23/24	36	T33959211	D12	5/23/24
15	T33959190	CJ1	5/23/24	37	T33959212	D13	5/23/24
16	T33959191	CJ1A	5/23/24	38	T33959213	D14	5/23/24
17	T33959192	CJ1C	5/23/24	39	T33959214	EJ1	5/23/24
18	T33959193	CJ3	5/23/24	40	T33959215	EJ2A	5/23/24
19	T33959194	CJ3B	5/23/24	41	T33959216	EJ3A	5/23/24
20	T33959195	CJ3C	5/23/24	42	T33959217	EJ4	5/23/24
21	T33959196	CJ3P	5/23/24	43	T33959218	EJ4A	5/23/24
22	T33959197	CJ5	5/23/24	44	T33959219	EJ5P	5/23/24



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.

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



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

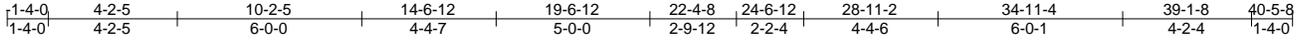
May 23, 2024

Job 6240322	Truss A02	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Custom Made Job Reference (optional)	T33959177
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:02 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZizGdXv-iRSuxjgub7BYzp_kgWsQQvOF9k1oEXE1rFfhAHZDxP7



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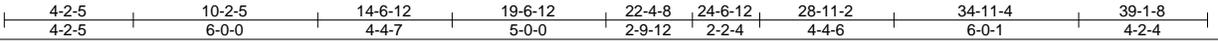
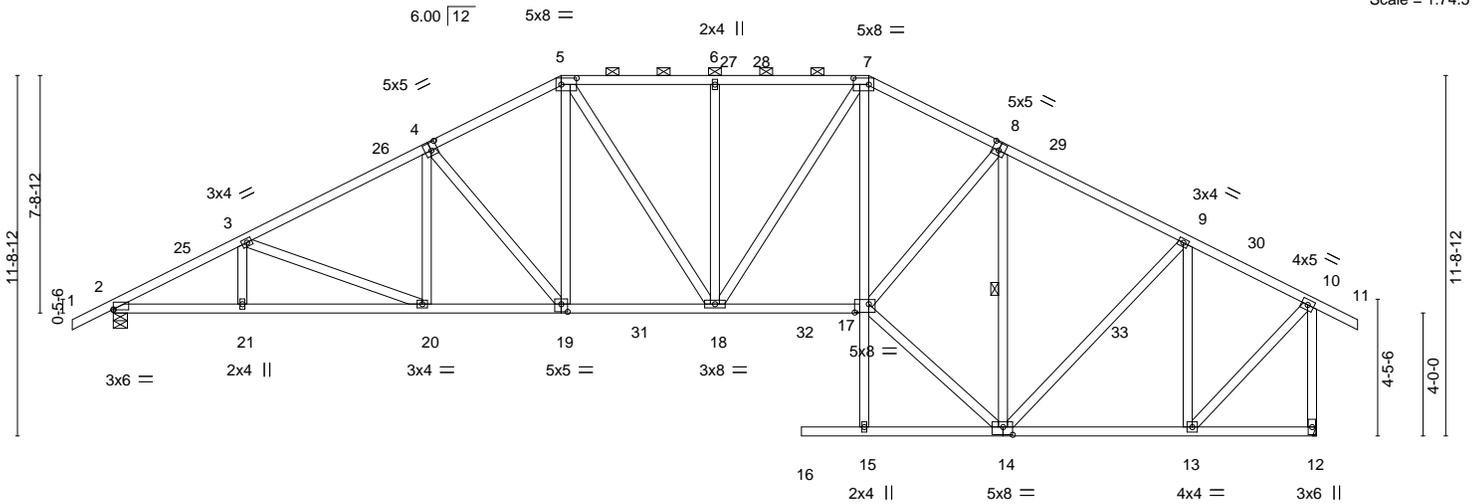


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [7:0-6-0,0-2-8], [8:0-2-8,0-3-0], [14:0-3-12,0-3-0], [17:0-5-8,0-3-4], [19:0-2-8,0-3-0]

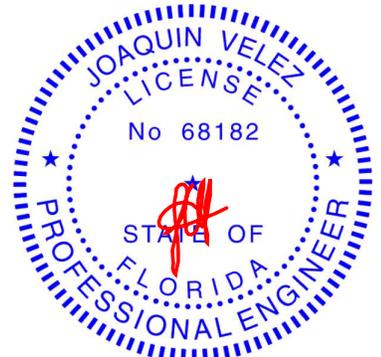
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.92	Vert(LL) -0.24 16 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Vert(CT) -0.40 16 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.20 12 n/a n/a		
			Wind(LL) 0.16 16 >999 240	Weight: 288 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-2 max.): 5-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 8-14

REACTIONS. (size) 2=0-5-8, 12=Mechanical
 Max Horz 2=-250(LC 10)
 Max Uplift 2=-467(LC 12), 12=-471(LC 12)
 Max Grav 2=1797(LC 17), 12=1848(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3290/915, 3-4=-2861/864, 4-5=-2429/821, 5-6=-2260/810, 6-7=-2260/810, 7-8=-2480/807, 8-9=-1690/581, 9-10=-1230/390, 10-12=-1800/600
 BOT CHORD 2-21=-729/3068, 20-21=-729/3068, 19-20=-573/2643, 18-19=-400/2222, 17-18=-405/2186, 13-14=-261/1056
 WEBS 3-20=-447/168, 4-20=0/365, 4-19=-667/277, 5-19=-164/689, 5-18=-93/423, 6-18=-311/223, 7-18=-110/344, 7-17=-143/811, 8-17=-116/1201, 8-14=-1484/424, 9-14=-91/576, 9-13=-866/341, 10-13=-376/1519, 14-17=-440/1908

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 14-6-12, Zone2 14-6-12 to 20-1-2, Zone1 20-1-2 to 24-6-12, Zone2 24-6-12 to 30-1-2, Zone1 30-1-2 to 40-5-8 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=467, 12=471.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

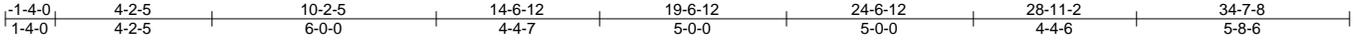
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss A03	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Custom Made Job Reference (optional)	T33959178
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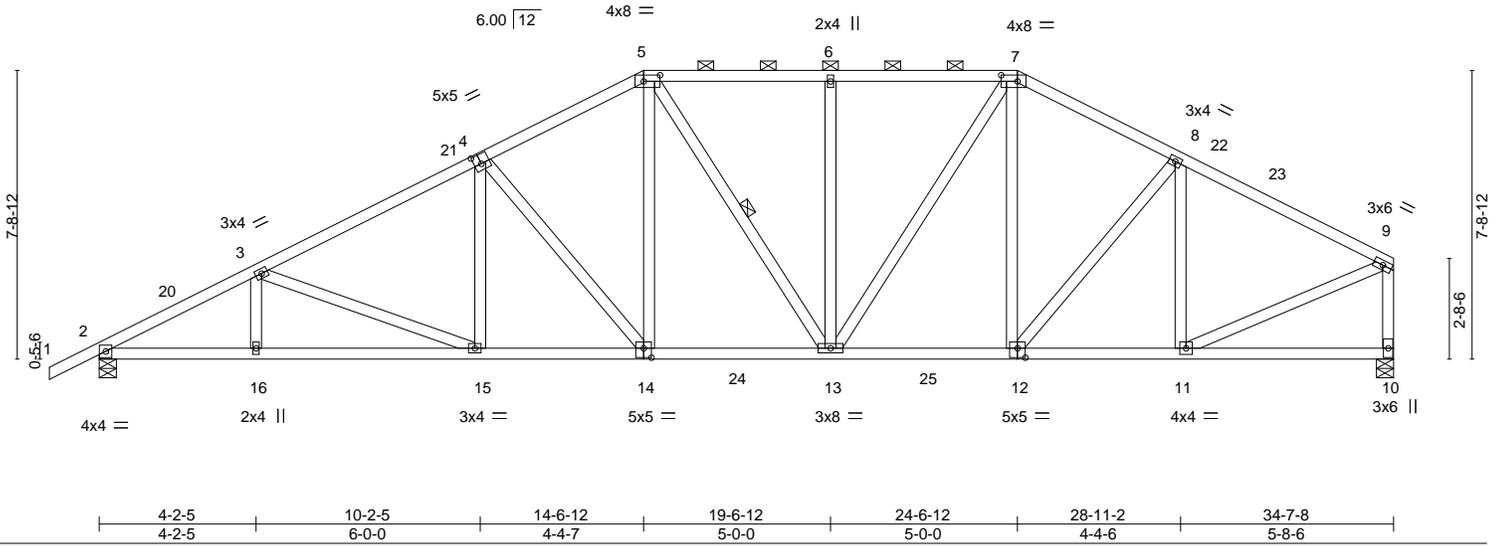
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:03 2024 Page 1

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Scale = 1:61.3



Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959180
6240322	A05	PIGGYBACK BASE	3	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:04 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-eqZeMOi97kRGC786oxuuVKTbdYjCiRuJIY8oE9zDxP5



Scale = 1:79.1

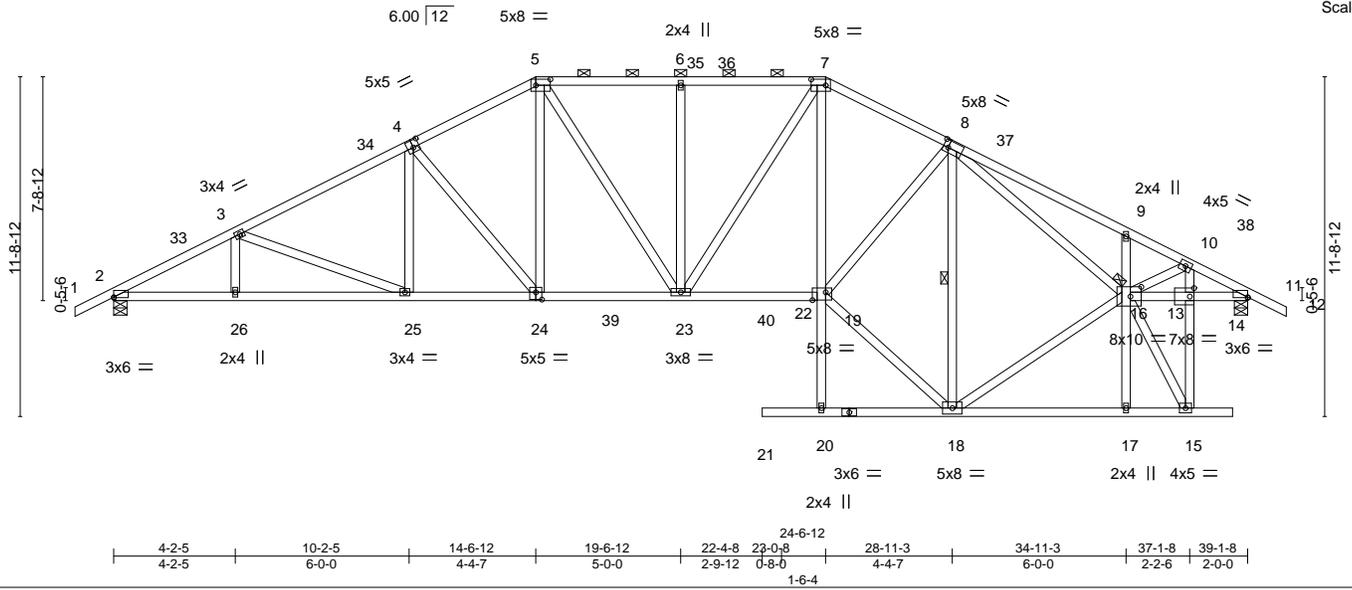


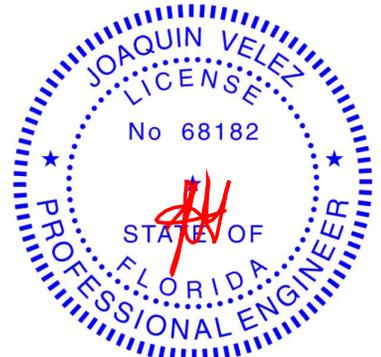
Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [7:0-6-0,0-2-8], [8:0-2-0,0-3-0], [11:Edge,0-0-4], [13:0-1-12,0-3-8], [16:0-4-8,0-4-0], [22:0-5-8,0-3-4], [24:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) -0.26	21	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.92	Vert(CT) -0.43	21	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.15	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.17	21	>999	240	Weight: 305 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins, except 2-0-0 oc purlins (3-9-0 max.): 5-7.
BOT CHORD 2x4 SP No.2 *Except* 11-16: 2x4 SP M 31 or 2x4 SP S5	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 8-6-0 oc bracing: 11-13
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 8-18
	JOINTS 1 Brace at Jt(s): 16
REACTIONS. (size) 2=0-5-8, 11=0-5-8 Max Horz 2=250(LC 11) Max Uplift 2=-469(LC 12), 11=-447(LC 12) Max Grav 2=1803(LC 17), 11=1896(LC 18)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3301/918, 3-4=-2873/867, 4-5=-2440/824, 5-6=-2275/814, 6-7=-2275/814, 7-8=-2503/812, 8-9=-1786/570, 9-10=-1652/418, 10-11=-3159/774
BOT CHORD 2-26=-733/3077, 25-26=-733/3077, 24-25=-577/2653, 23-24=-402/2232, 22-23=-409/2203, 17-18=-237/857, 15-17=-237/843, 13-16=-623/2744, 11-13=-623/2744
WEBS 3-25=-447/168, 4-25=0/365, 4-24=-667/277, 5-24=-164/688, 5-23=-94/430, 6-23=-311/223, 7-23=-108/338, 7-22=-147/828, 8-22=-117/1200, 8-18=-1486/421, 16-18=-108/739, 9-16=-376/262, 15-16=-1849/520, 13-15=-441/1721, 18-22=-445/1934, 10-13=-361/1476, 10-16=-1442/363

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 14-6-12, Zone2 14-6-12 to 20-1-2, Zone1 20-1-2 to 24-6-12, Zone2 24-6-12 to 30-1-2, Zone1 30-1-2 to 40-5-8 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=469, 11=447.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

May 23, 2024

Job 6240322	Truss A06	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959181
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:05 2024 Page 1

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6.00 | 12 5x8 = 2x4 || 5x8 =

Scale = 1:79.1

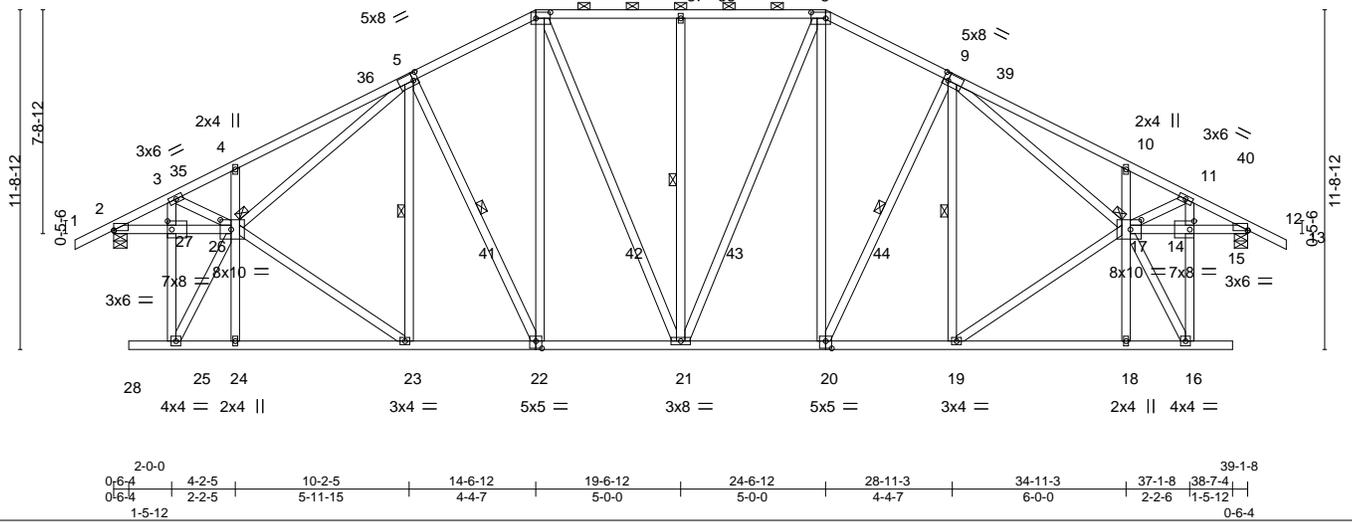


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [5:0-2-0,0-3-0], [6:0-6-0,0-2-8], [8:0-6-0,0-2-8], [9:0-2-0,0-3-0], [12:Edge,0-0-4], [14:0-1-12,0-3-8], [17:0-4-8,0-4-0], [20:0-2-8,0-3-0], [22:0-2-8,0-3-0], [26:0-4-8,0-4-0], [27:0-1-12,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	-0.12 21-22	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.20 21-22	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.05 12	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS	Wind(LL)	0.09 21	>999	240	Weight: 372 lb	FT = 20%

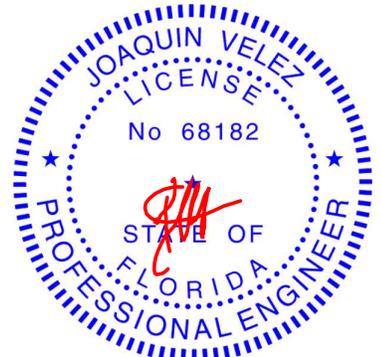
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins, except
 2-0-0 oc purlins (4-8-4 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 7-4-0 oc bracing: 12-14
 7-5-0 oc bracing: 2-27
 WEBS 1 Row at midpt 5-23, 5-22, 7-21, 9-20, 9-19
 JOINTS 1 Brace at Jt(s): 26, 17

REACTIONS. (size) 2=0-5-8, 12=0-5-8
 Max Horz 2=-250(LC 10)
 Max Uplift 2=-461(LC 12), 12=-461(LC 12)
 Max Grav 2=1893(LC 17), 12=1893(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3165/805, 3-4=-1702/457, 4-5=-1840/608, 5-6=-1597/679, 6-7=-1511/675,
 7-8=-1511/675, 8-9=-1656/678, 9-10=-1887/607, 10-11=-1749/454, 11-12=-3171/804
 BOT CHORD 2-27=-636/2930, 26-27=-636/2930, 24-25=-231/813, 23-24=-231/826, 22-23=-337/1534,
 21-22=-273/1467, 20-21=-282/1397, 19-20=-344/1427, 18-19=-233/804, 16-18=-233/791,
 14-17=-648/2748, 12-14=-648/2748
 WEBS 4-26=-382/264, 23-26=-125/842, 6-22=-86/339, 6-21=-97/346, 7-21=-311/222,
 8-21=-97/346, 8-20=-84/372, 17-19=-132/799, 10-17=-381/264, 5-26=-41/259,
 25-27=-429/1664, 3-27=-355/1449, 3-26=-1387/349, 14-16=-432/1620, 11-14=-358/1409,
 11-17=-1346/352, 25-26=-1784/507, 16-17=-1735/510

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 14-6-12, Zone2 14-6-12 to 20-1-2, Zone1 20-1-2 to 24-6-12, Zone2 24-6-12 to 30-1-2, Zone1 30-1-2 to 40-5-8 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=461, 12=461.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959182
6240322	A07	GABLE	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:07 2024 Page 2
 ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-3PFn_Qk1Qfpr3bthT3Sb7z58Mllsvo_m_WMsrUzDxP2

NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=460, 12=461.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbccomponents.com)

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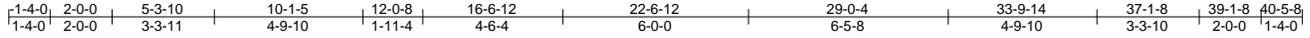
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss B01	Truss Type GABLE COMMON	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959183
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:10 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-T_xwdSmviaBQw2cG8C?llbjdHzxv6C2CgUb6SpzDxP?



Scale = 1:74.1

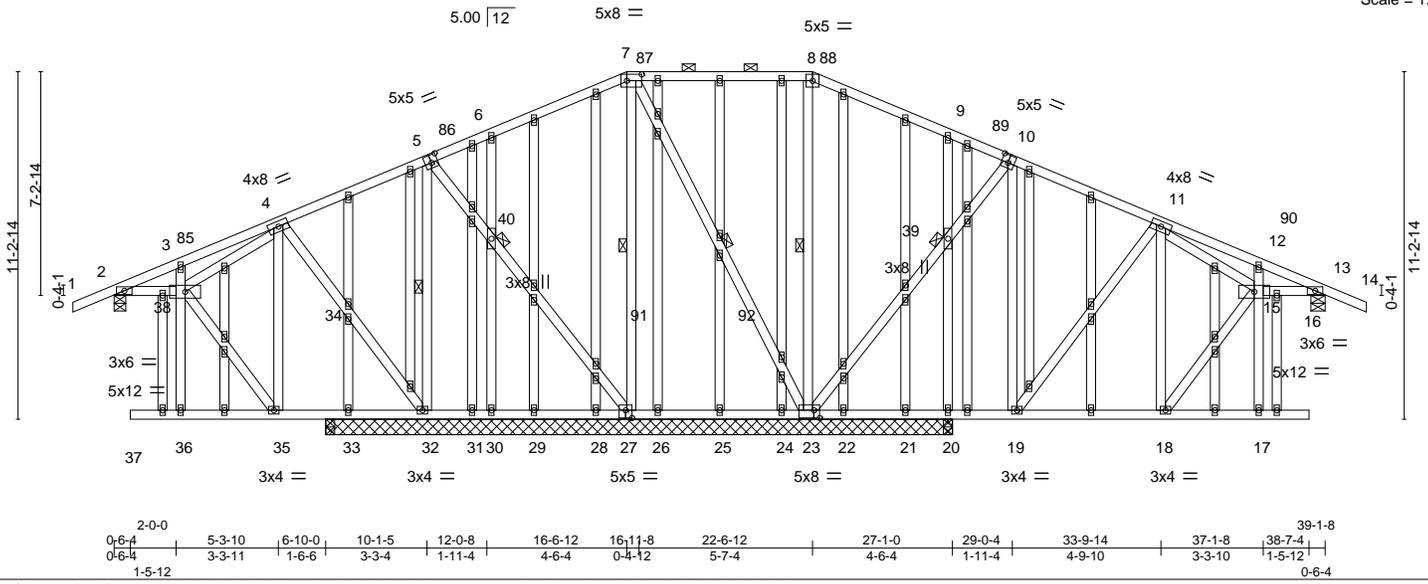


Plate Offsets (X,Y)-- [5:0-2-8,0-3-0], [7:0-5-12,0-2-8], [10:0-2-8,0-3-0], [23:0-2-4,0-3-0], [27:0-2-8,0-3-0]

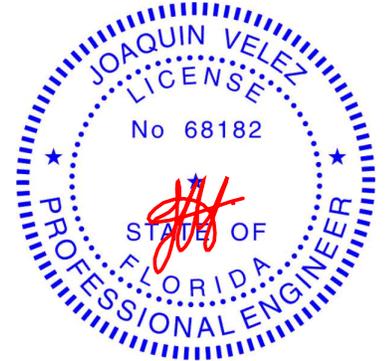
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL) -0.03	16	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.20	Vert(CT) -0.05	16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01	13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.01	18-19	>999	240		
							Weight: 535 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 7-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 36-37,35-36,18-19,17-18,16-17. 10-0-0 oc bracing: 36-38, 15-17
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-32, 7-27, 7-23, 8-23
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 39, 40

REACTIONS. All bearings 20-3-0 except (jt=length) 2=0-4-8, 13=0-5-8, 34=0-3-8, 20=0-3-8, 20=0-3-8.
 (lb) - Max Horz 2=-214(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 33, 21, 34 except 2=-130(LC 12), 13=-149(LC 12), 32=-153(LC 12), 27=-115(LC 12), 23=-330(LC 12), 30=-103(LC 12), 20=-131(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 27, 30, 25, 26, 28, 29, 31, 33, 24, 22, 21, 34 except 2=311(LC 23), 13=523(LC 18), 32=597(LC 17), 23=1030(LC 18), 20=317(LC 18), 20=266(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-374/49, 3-4=-353/97, 4-5=-28/396, 5-6=0/342, 6-7=0/353, 7-8=0/375, 8-9=0/430, 9-10=0/397, 11-12=-842/151, 12-13=-880/105
 BOT CHORD 2-38=-74/450, 31-32=-257/119, 30-31=-257/119, 29-30=-257/119, 28-29=-257/119, 27-28=-257/119, 26-27=-295/167, 25-26=-295/167, 24-25=-295/167, 23-24=-295/167, 13-15=-46/786
 WEBS 4-38=-32/487, 4-32=-375/168, 8-23=-414/188, 23-39=-534/192, 10-39=-551/197, 10-19=-58/402, 11-19=-376/150, 15-18=-1/254, 11-15=-49/715

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 16-6-12, Zone2 16-6-12 to 22-1-2, Zone1 22-1-2 to 22-6-12, Zone2 22-6-12 to 28-1-2, Zone1 28-1-2 to 40-5-8 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
 - 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.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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

May 23, 2024

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Custom Made
6240322	B01	GABLE COMMON	1	1	T33959183

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:10 2024 Page 2
ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-T_xwdSmviaBQw2cG8C?llbjdHzxv6C2CgUb6SpzDxP?

NOTES-

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 21, 34 except (jt=lb) 2=130, 13=149, 32=153, 27=115, 23=330, 30=103, 20=131.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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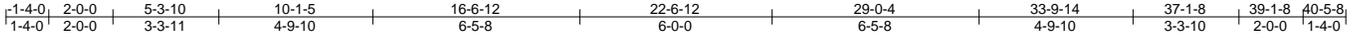
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 6240322	Truss B02	Truss Type PIGGYBACK BASE	Qty 7	Ply 1	Custom Made Job Reference (optional)	T33959184
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:11 2024 Page 1

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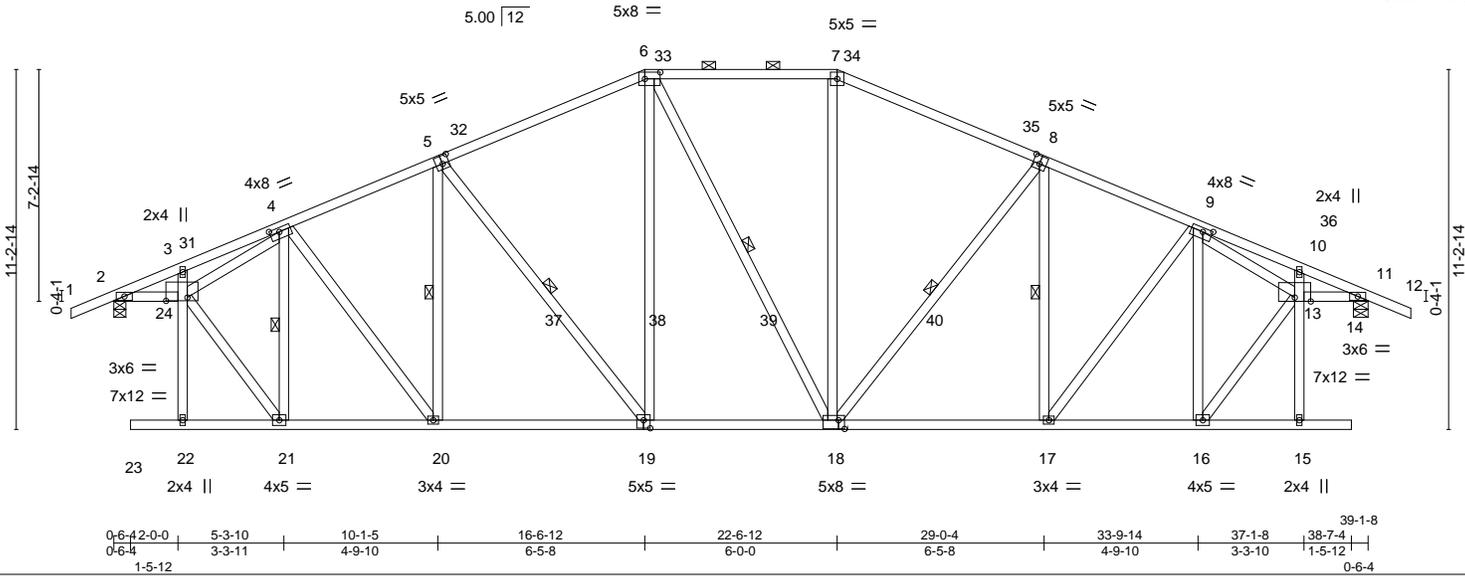


Plate Offsets (X,Y)-- [4:0-3-10,0-1-8], [5:0-2-8,0-3-0], [6:0-5-12,0-2-8], [8:0-2-8,0-3-0], [9:0-3-10,0-1-8], [18:0-2-4,0-3-4], [19:0-2-8,0-3-0], [24:0-8-0,0-1-4]

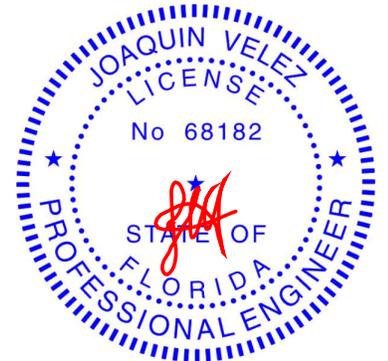
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.58	Vert(LL) -0.21	17-18	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.99	Vert(CT) -0.35	17-18	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.08	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Wind(LL) 0.14	19	>999	240		
							Weight: 312 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-3 oc purlins, except 2-0-0 oc purlins (4-3-12 max.): 6-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing. Except: 10-0-0 oc bracing: 22-24, 13-15
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-21, 5-20, 5-19, 6-18, 8-18, 8-17

REACTIONS. (size) 2=0-4-8, 11=0-5-8
 Max Horz 2=214(LC 11)
 Max Uplift 2=-459(LC 12), 11=-459(LC 12)
 Max Grav 2=1839(LC 17), 11=1837(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4125/1081, 3-4=-3942/1086, 4-5=-1722/621, 5-6=-1673/676, 6-7=-1526/673,
 7-8=-1692/674, 8-9=-1779/620, 9-10=-3937/1086, 10-11=-4114/1081
 BOT CHORD 2-24=-929/3899, 20-21=-335/1339, 19-20=-407/1659, 18-19=-333/1553, 17-18=-413/1573,
 16-17=-339/1279, 11-13=-940/3730
 WEBS 21-24=-514/2068, 4-24=-700/2979, 4-21=-1530/452, 4-20=-116/523, 6-19=-24/402,
 7-18=-27/363, 9-17=-118/528, 9-16=-1457/456, 13-16=-520/1973, 9-13=-709/2851

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 16-6-12, Zone2 16-6-12 to 22-1-2, Zone1 22-1-2 to 22-6-12, Zone2 22-6-12 to 28-1-2, Zone1 28-1-2 to 40-5-8 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - The Fabrication Tolerance at joint 24 = 4%, joint 13 = 12%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=459, 11=459.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

May 23, 2024

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

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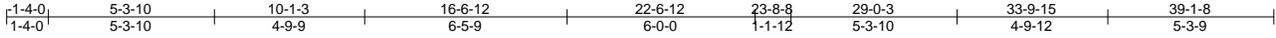
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959185
6240322	C01	GABLE	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:13 2024 Page 1

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Scale = 1:73.2

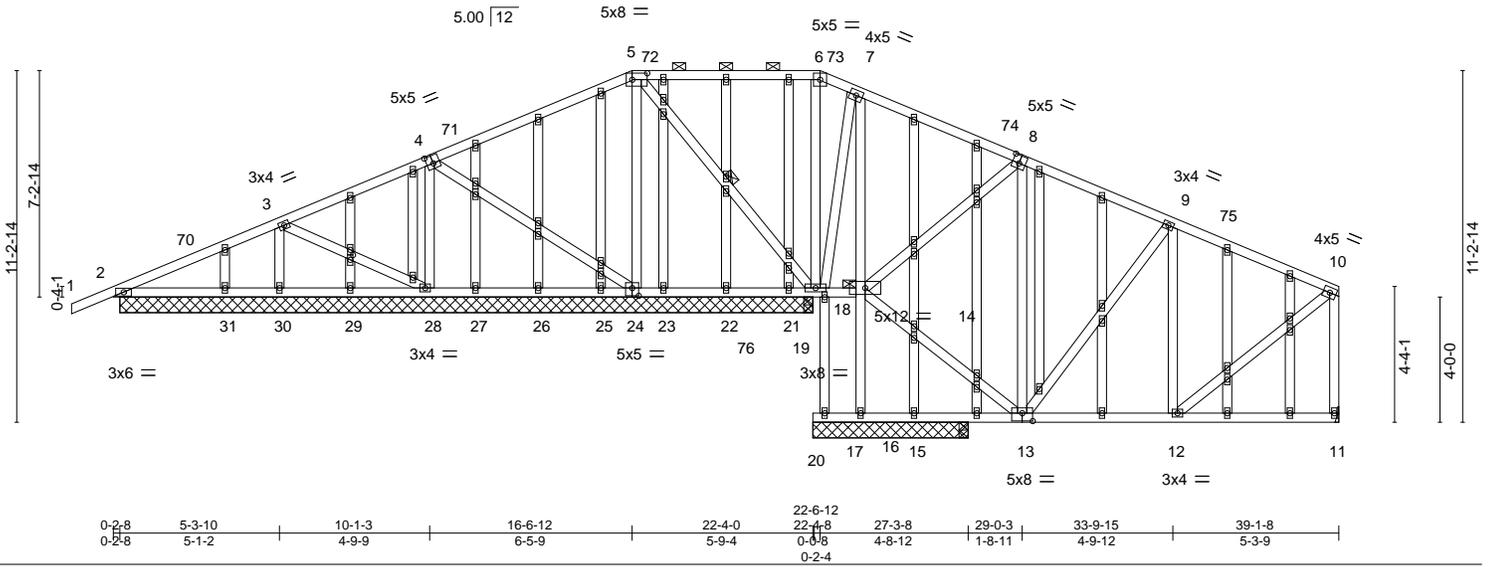


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-5-12,0-2-8], [8:0-2-8,0-3-0], [13:0-4-0,0-3-0], [24:0-2-8,0-3-0], [44:0-1-14,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL) -0.02	11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.04	11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.01	14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.01	12-13	>999	240		
							Weight: 405 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
 6-0-0 oc bracing: 16-18
 WEBS 1 Row at midpt 5-19
 JOINTS 1 Brace at Jt(s): 18

REACTIONS.

All bearings 22-1-8 except (jt=length) 20=4-11-8, 11=Mechanical, 16=4-11-8, 17=4-11-8, 15=4-11-8, 14=0-3-8.

(lb) - Max Horz 2=209(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 20, 30, 14 except 2=140(LC 12), 24=140(LC 12), 28=161(LC 12), 19=262(LC 12), 11=135(LC 12), 16=131(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 20, 17, 22, 23, 25, 26, 27, 29, 31, 21, 15, 14, 2 except 24=278(LC 17), 30=268(LC 17), 28=367(LC 17), 19=573(LC 1), 19=573(LC 1), 11=612(LC 18), 16=479(LC 18)

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

TOP CHORD 8-9=-302/174, 9-10=-425/142, 10-11=-534/201

BOT CHORD 12-13=-75/346, 16-18=-418/174

WEBS 3-30=-251/141, 4-28=-297/195, 13-18=-10/262, 8-18=-427/257, 10-12=-84/419

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 16-6-12, Zone2 16-6-12 to 22-1-2, Zone1 22-1-2 to 22-6-12, Zone2 22-6-12 to 28-1-2, Zone1 28-1-2 to 38-11-12 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 30, 14 except (jt=lb) 2=140, 24=140, 28=161, 19=262, 11=135, 16=131, 2=140.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

May 23, 2024

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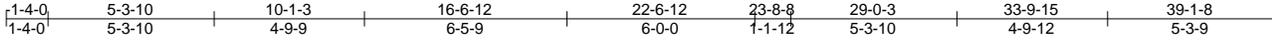
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss C02	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959186
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:14 2024 Page 1

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Scale = 1:73.2

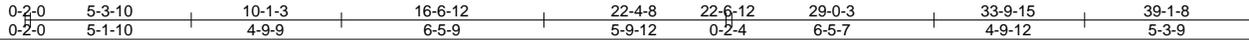
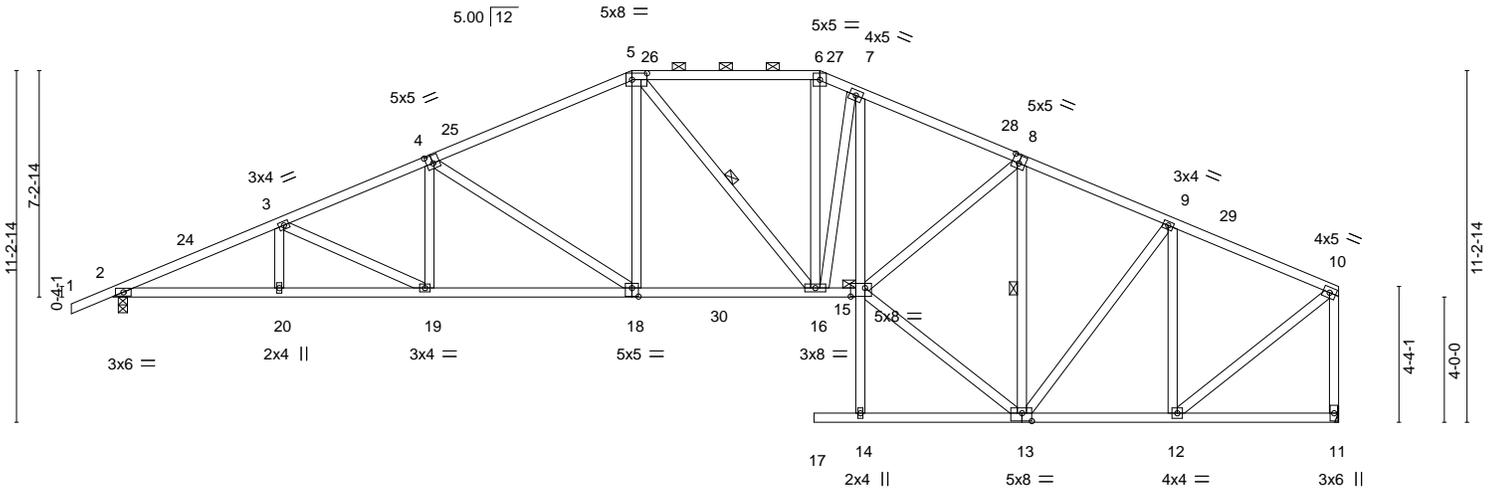


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-5-12,0-2-8], [8:0-2-8,0-3-0], [13:0-3-12,0-3-0], [15:0-5-8,0-3-4], [18:0-2-8,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	Vert(LL) -0.25 18-19 >999 360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.87	Vert(CT) -0.45 18-19 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.23 11 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.20 17 >999 240		
				Weight: 275 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 2-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-6 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-2 oc bracing. Except: 10-0-0 oc bracing: 14-15
 WEBS 1 Row at midpt 5-16, 8-13
 JOINTS 1 Brace at Jt(s): 15

REACTIONS.

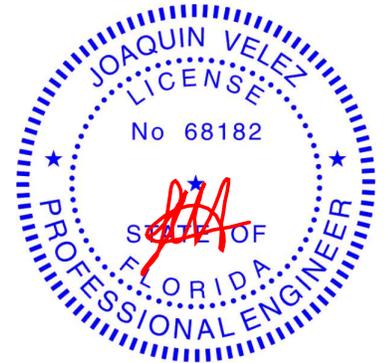
(size) 11=Mechanical, 2=0-3-8
 Max Horz 2=209(LC 11)
 Max Uplift 11=-393(LC 12), 2=-472(LC 12)
 Max Grav 11=1678(LC 18), 2=1740(LC 17)

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

TOP CHORD 2-3=-3742/1096, 3-4=-3251/1026, 4-5=-2522/870, 5-6=-2288/845, 6-7=-2460/900, 7-8=-2669/902, 8-9=-1702/597, 9-10=-1376/432, 10-11=-1596/525
 BOT CHORD 2-20=-960/3555, 19-20=-960/3555, 18-19=-819/3080, 16-18=-552/2361, 15-16=-588/2378, 12-13=-342/1224, 7-15=-141/621
 WEBS 3-19=-519/163, 4-19=-1/422, 4-18=-864/321, 5-18=-99/735, 13-15=-514/1886, 8-15=-242/1232, 8-13=-1360/463, 9-13=-104/504, 9-12=-772/332, 10-12=-425/1537, 6-16=-202/758, 7-16=-722/289

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 16-6-12, Zone2 16-6-12 to 22-1-2, Zone1 22-1-2 to 22-6-12, Zone2 22-6-12 to 28-1-2, Zone1 28-1-2 to 38-11-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=393, 2=472.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)



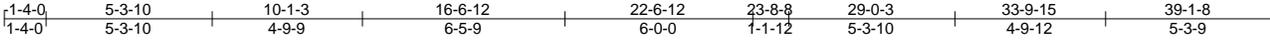
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss C03	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	Custom Made Job Reference (optional)	T33959187
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:15 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-qxkpg9q2X7qj0pUExlbtSfQR7_UYnLxGxqmt61zDxOw



Scale = 1:73.2

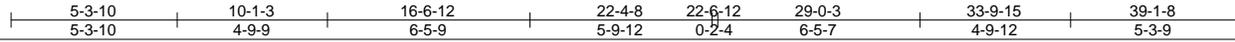
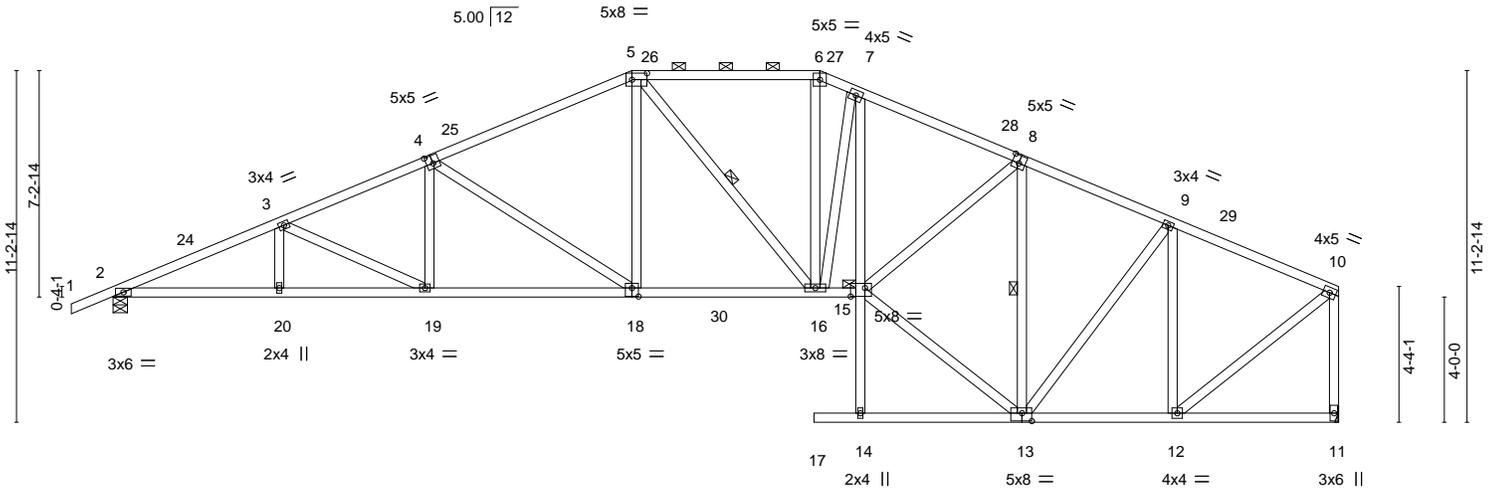


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-5-12,0-2-8], [8:0-2-8,0-3-0], [13:0-3-12,0-3-0], [15:0-5-8,0-3-4], [18:0-2-8,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	Vert(LL) -0.25	18-19	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.87	Vert(CT) -0.45	18-19	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.23	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.20	17	>999	240		
							Weight: 275 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 2-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-6 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-2 oc bracing. Except: 10-0-0 oc bracing: 14-15
 WEBS 1 Row at midpt 5-16, 8-13
 JOINTS 1 Brace at Jt(s): 15

REACTIONS.

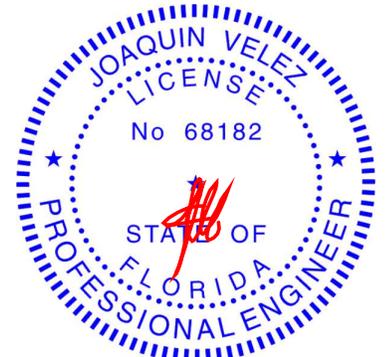
(size) 2=0-5-8, 11=Mechanical
 Max Horz 2=209(LC 11)
 Max Uplift 2=-472(LC 12), 11=-393(LC 12)
 Max Grav 2=1740(LC 17), 11=1678(LC 18)

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

TOP CHORD 2-3=-3742/1096, 3-4=-3251/1026, 4-5=-2522/870, 5-6=-2288/845, 6-7=-2460/900, 7-8=-2669/902, 8-9=-1702/597, 9-10=-1376/432, 10-11=-1596/525
 BOT CHORD 2-20=-960/3555, 19-20=-960/3555, 18-19=-819/3080, 16-18=-552/2361, 15-16=-588/2378, 12-13=-342/1224, 7-15=-141/621
 WEBS 3-19=-519/163, 4-19=-1/422, 4-18=-864/321, 5-18=-99/735, 13-15=-514/1886, 8-15=-242/1232, 8-13=-1360/463, 9-13=-104/504, 9-12=-772/332, 10-12=-425/1537, 6-16=-202/758, 7-16=-722/289

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 2-6-15, Zone1 2-6-15 to 16-6-12, Zone2 16-6-12 to 22-1-2, Zone1 22-1-2 to 22-6-12, Zone2 22-6-12 to 28-1-2, Zone1 28-1-2 to 38-11-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=472, 11=393.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

May 23, 2024

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

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

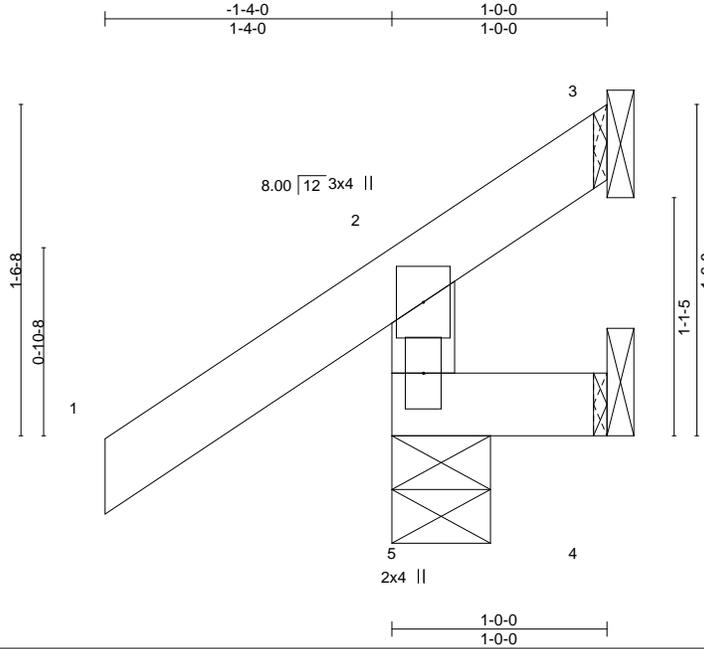
Job 6240322	Truss CJ1	Truss Type Corner Jack	Qty 8	Ply 1	Custom Made Job Reference (optional)	T33959190
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:17 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-mKsZ5rs13k4QG7ec2AdxX4WrrnN7FT1EH4n_AvzDxOu



Scale = 1:10.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR	Wind(LL)	-0.00	5	>999	240	Weight: 7 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 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

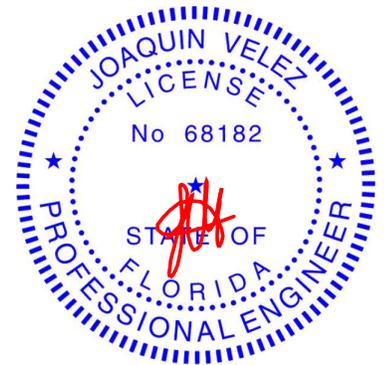
(size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=85(LC 12)
Max Uplift 5=123(LC 12), 3=-29(LC 1), 4=-10(LC 1)
Max Grav 5=181(LC 1), 3=27(LC 12), 4=11(LC 3)

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

TOP CHORD 2-5=-154/323

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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=123.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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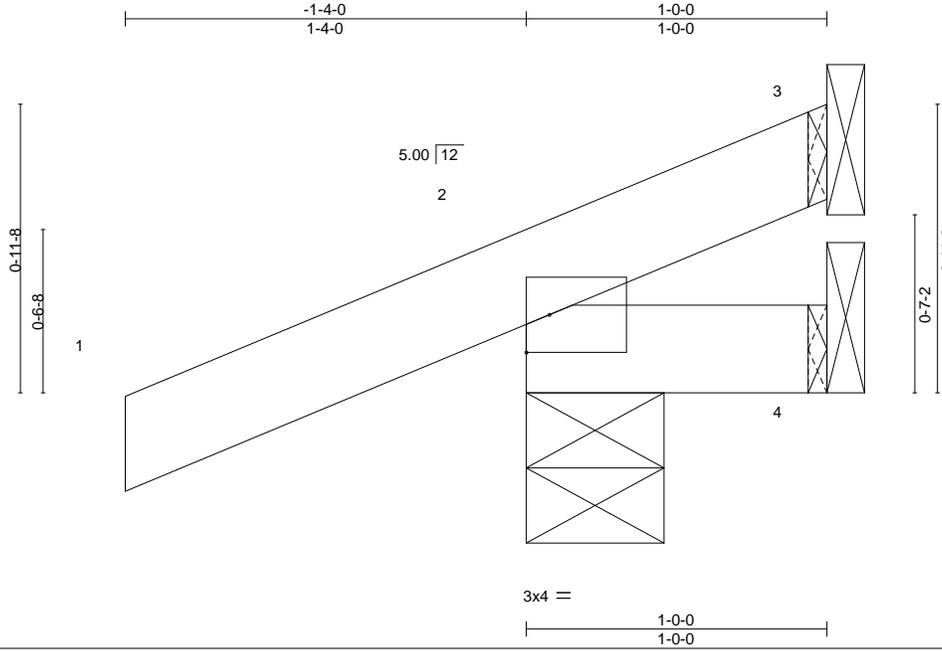
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 6240322	Truss CJ1A	Truss Type Corner Jack	Qty 2	Ply 1	Custom Made Job Reference (optional)	T33959191
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:17 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-mKsZ5rsI3k4QG7ec2AdxX4WtunNmFT1EH4n_AvzDxOu



Scale = 1:7.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL)	0.00	7	>999	360	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	0.00	7	>999	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Wind(LL)	-0.00	7	>999	240		
	Code FBC2023/TPI2014							Weight: 5 lb	FT = 20%

LUMBER-

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

BRACING-

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

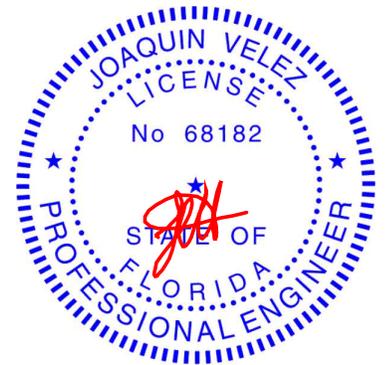
REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=52(LC 12)
Max Uplift 3=5(LC 9), 2=-126(LC 12), 4=-11(LC 1)
Max Grav 3=10(LC 13), 2=157(LC 1), 4=24(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=126.



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

May 23, 2024

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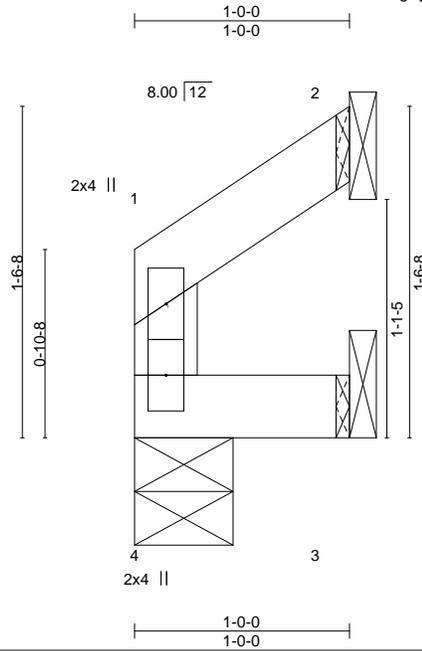
Job 6240322	Truss CJ1C	Truss Type Corner Jack	Qty 2	Ply 1	Custom Made Job Reference (optional)	T33959192
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:18 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-EWPxIBsxq2CHtHDpct8A3H257BjL_wHNWkXXjLzDxOt



Scale = 1:10.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL)	-0.00	4	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.04	Vert(CT)	-0.00	4	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR					Weight: 4 lb	FT = 20%
	Code FBC2023/TPI2014							

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 1-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

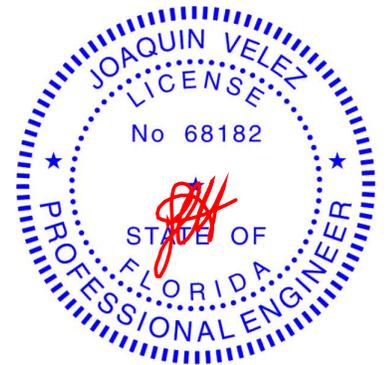
REACTIONS.

(size) 4=0-5-8, 2=Mechanical, 3=Mechanical
 Max Horz 4=23(LC 12)
 Max Uplift 2=-28(LC 12), 3=-6(LC 12)
 Max Grav 4=31(LC 1), 2=28(LC 17), 3=16(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.



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

May 23,2024

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

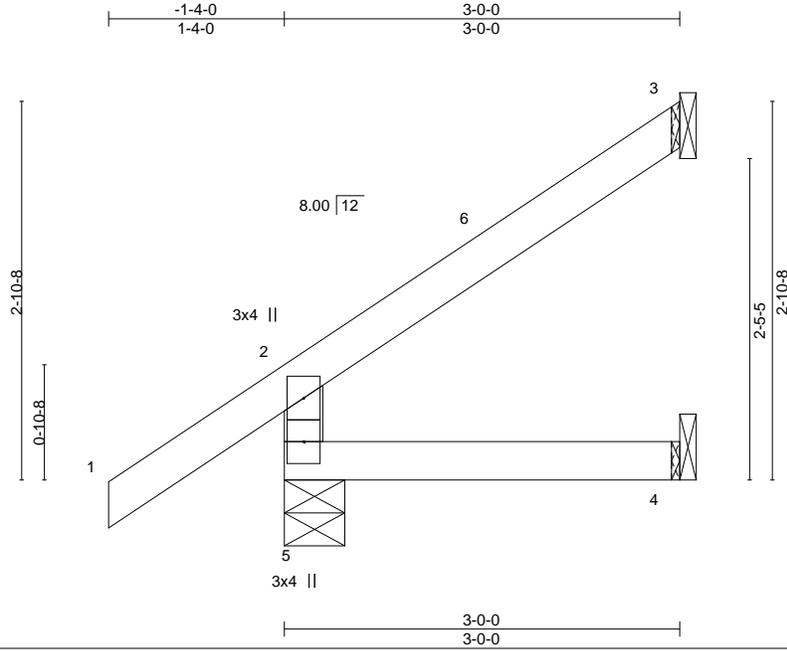
Job 6240322	Truss CJ3	Truss Type Corner Jack	Qty 7	Ply 1	Custom Made Job Reference (optional)	T33959193
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:18 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-EWPxIBsxq2CHtHDpct8A3H20bBhK_wHNWkXXjLzDxOt



Scale = 1:17.4

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	Vert(LL) -0.00 4-5 >999 360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.16	Vert(CT) -0.01 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR	Wind(LL) 0.01 4-5 >999 240	Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

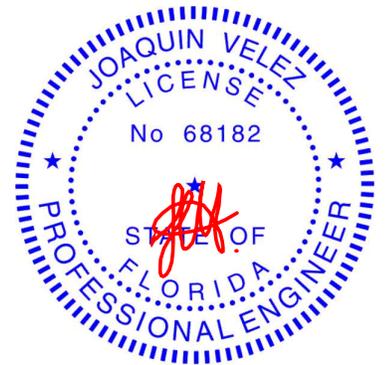
(size) 5=0-5-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=139(LC 12)
 Max Uplift 5=-84(LC 12), 3=-59(LC 12)
 Max Grav 5=204(LC 1), 3=72(LC 17), 4=51(LC 3)

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

TOP CHORD 2-5=-173/292

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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

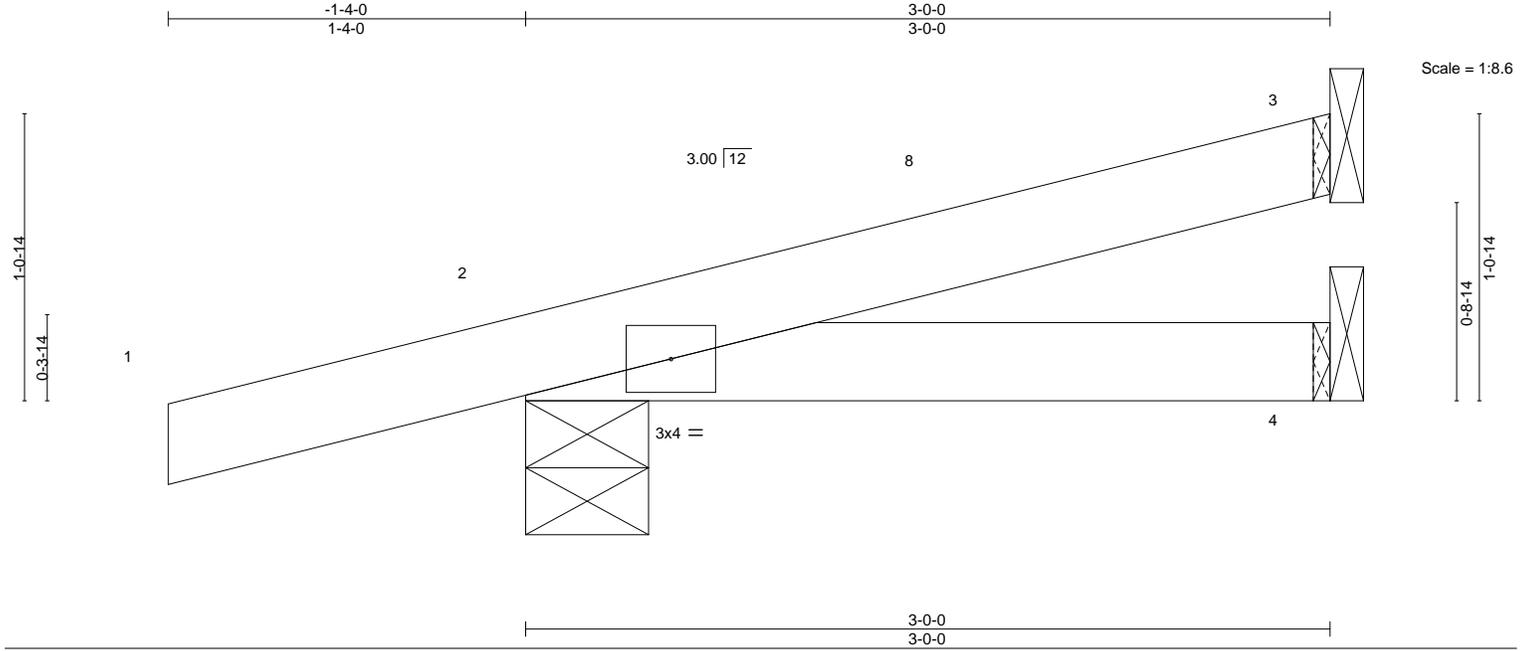
MiTek®

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

Job 6240322	Truss CJ3B	Truss Type Corner Jack	Qty 6	Ply 1	Custom Made Job Reference (optional)	T33959194
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:19 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-izJVXtZbLK8VRo?AbgPcVbD7b2vjMWXIOG5FozDxDxOs



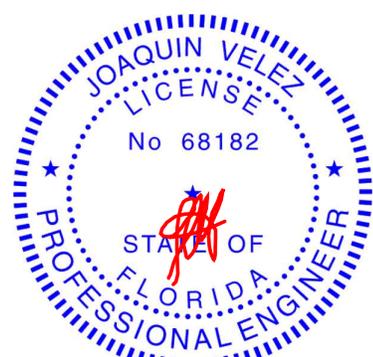
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.08	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.00	7	>999		
	Code FBC2023/TPI2014						Weight: 11 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
 Max Horz 2=51(LC 12)
 Max Uplift 3=-26(LC 12), 2=-117(LC 12)
 Max Grav 3=58(LC 1), 2=197(LC 1), 4=47(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=117.



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

May 23, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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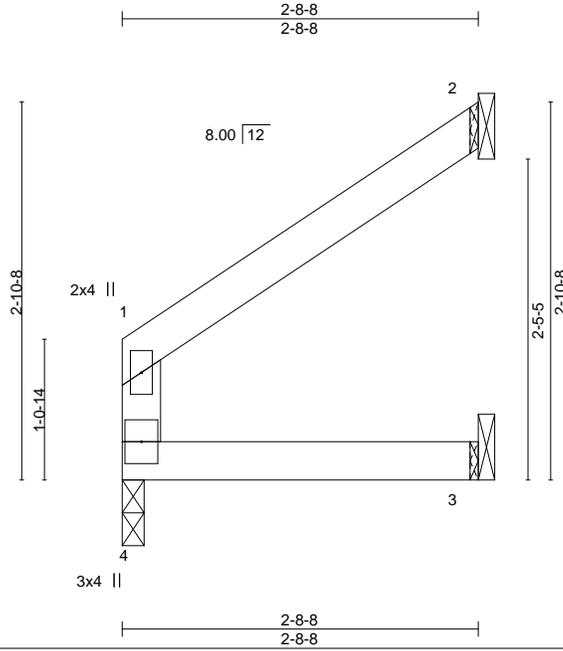
Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959195
6240322	CJ3C	Corner Jack	1	1	Job Reference (optional)	

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:19 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-iizJVXtZbLK8VRo?AbgPcVbD9b0rjMWXI0G5FozDxOs



Scale = 1:17.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.21	Vert(LL) -0.00	3-4	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.21	Vert(CT) -0.00	3-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR	Wind(LL) 0.01	3-4	>999	240	Weight: 10 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 2-8-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

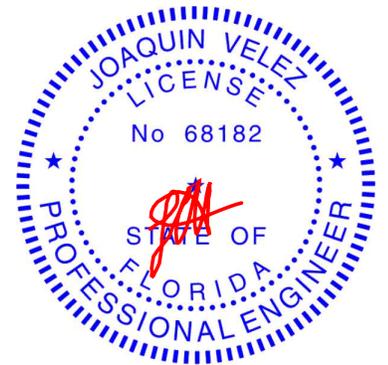
REACTIONS.

(size) 4=0-2-0, 2=Mechanical, 3=Mechanical
 Max Horz 4=69(LC 12)
 Max Uplift 2=-68(LC 12), 3=-5(LC 12)
 Max Grav 4=93(LC 1), 2=76(LC 17), 3=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.



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

May 23, 2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

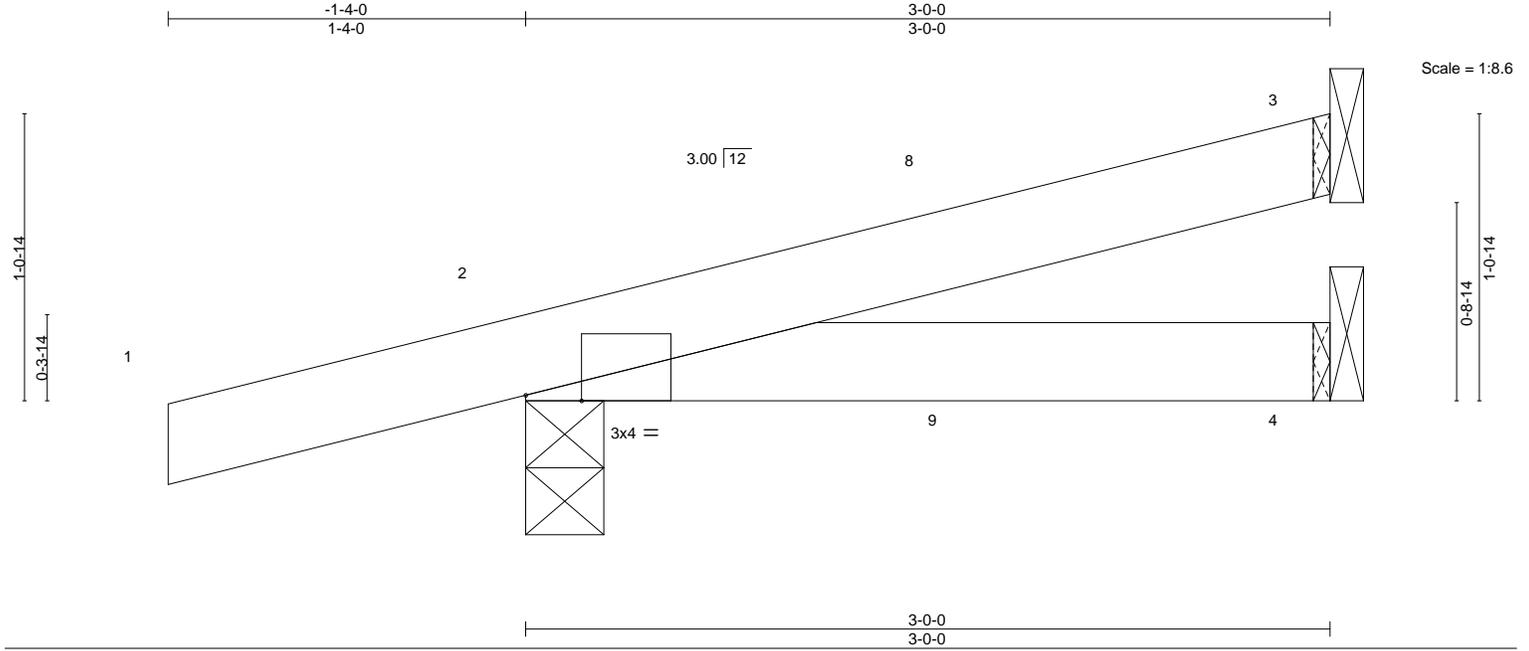
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959196
6240322	CJ3P	CORNER JACK	2	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:20 2024 Page 1
 ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-AvXjtuBMfS?7aMBkIBe9i8Ot?OtSpmg_20enEzDxOr



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.01 4-7 >999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.00 7 >999	240	Weight: 11 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 3 n/a	n/a			
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							

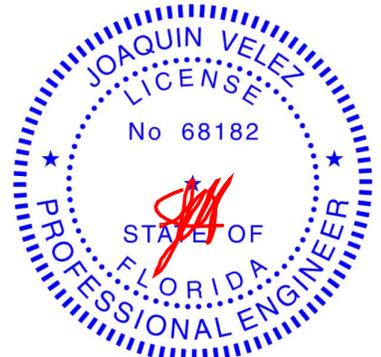
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=51(LC 12)
 Max Uplift 3=-37(LC 12), 2=-160(LC 12), 4=-25(LC 9)
 Max Grav 3=58(LC 1), 2=197(LC 1), 4=47(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=160.



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

May 23, 2024

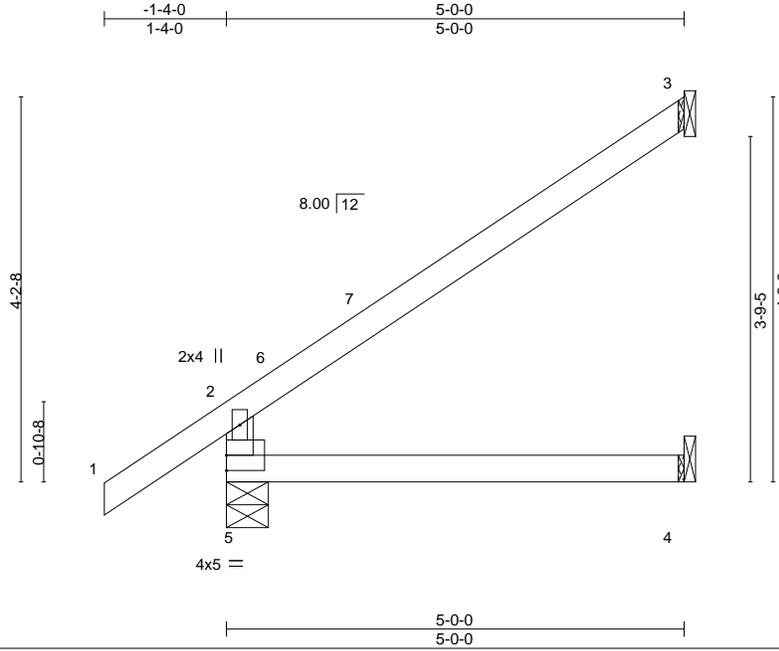
Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959197
6240322	CJ5	Corner Jack	3	1		

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:20 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-AvXjtuBMfS?7aMBkIbE9i8IK?lbSpmg_20enEzDxOr



Scale = 1:25.0

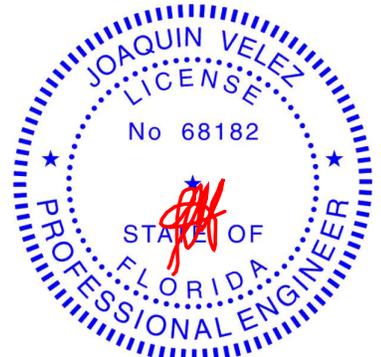
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.49	Vert(CT)	-0.05	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.05	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR	Wind(LL)	0.06	4-5	>969	240	Weight: 20 lb	FT = 20%

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

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=194(LC 12)
 Max Uplift 5=-79(LC 12), 3=-108(LC 12)
 Max Grav 5=270(LC 1), 3=134(LC 17), 4=89(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-226/331

- 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 3=108.



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

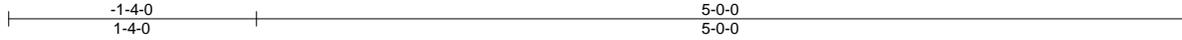
May 23,2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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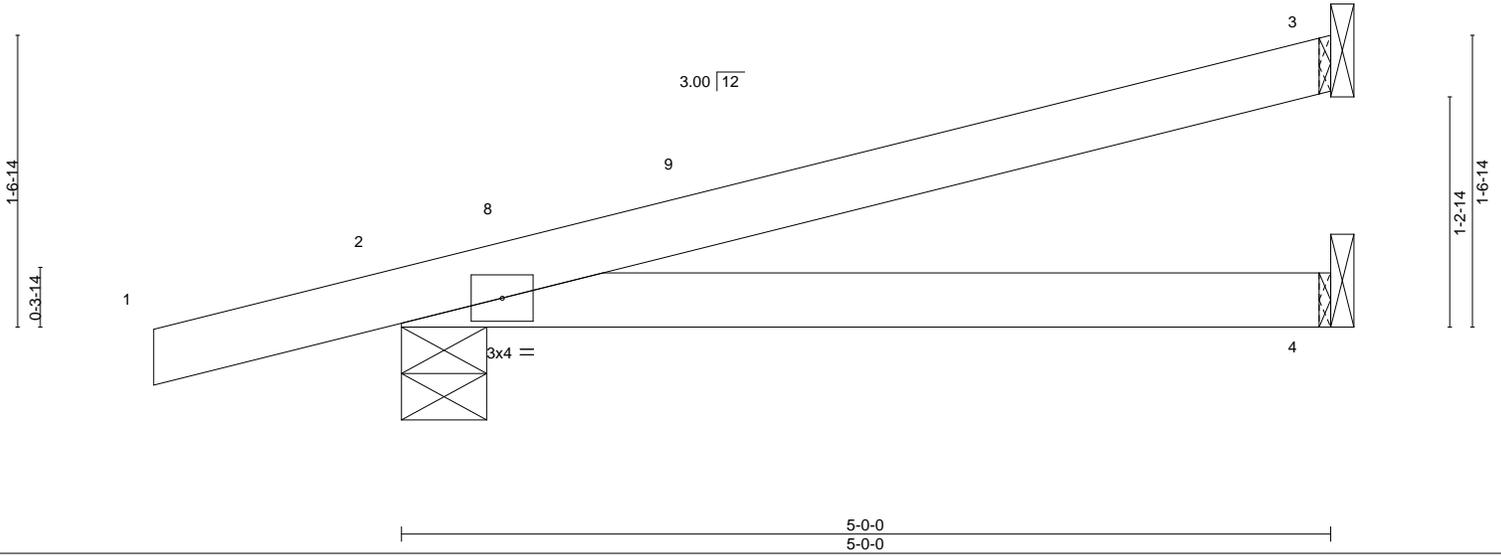
Job 6240322	Truss CJ5B	Truss Type Corner Jack	Qty 6	Ply 1	Custom Made Job Reference (optional)	T33959198
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:20 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZizGdXv-AvXijtuBMFS?7aMBklBe9i8Mo?KuSpmg_20enEzDxOr



Scale = 1:12.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL)	-0.02	4-7	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.35	Vert(CT)	-0.05	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.06	4-7	>999		
	Code FBC2023/TPI2014						Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

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

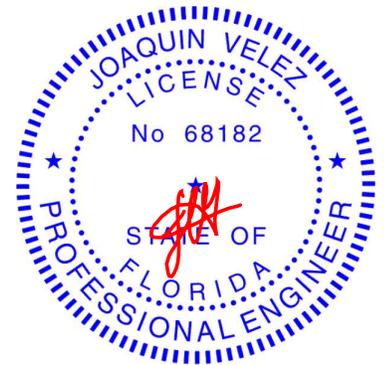
REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 3=58(LC 12), 2=-128(LC 12)
Max Grav 3=111(LC 1), 2=264(LC 1), 4=85(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=128.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

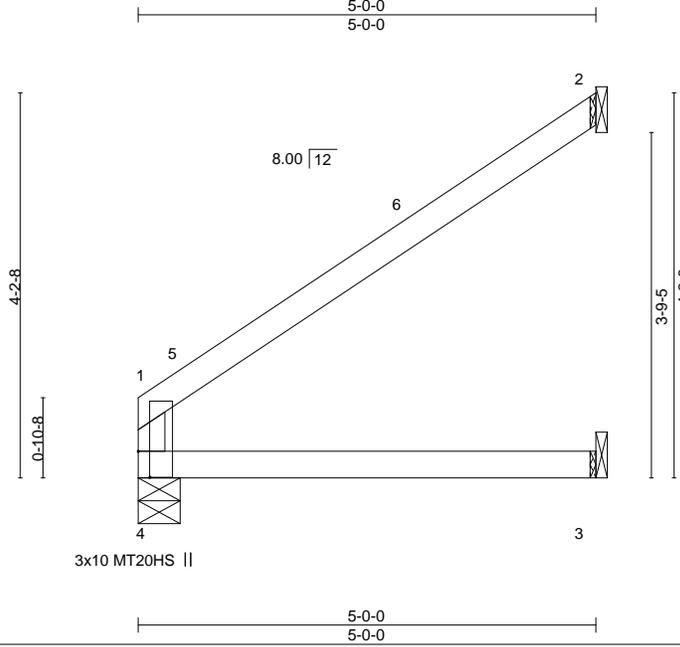
Job 6240322	Truss CJ5C	Truss Type Corner Jack	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959199
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:21 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZizGdXv-f554wCvp7zaskkxNH?ithwgSbPc3BG0qCiICKgzDxOq



Scale = 1:25.0

3x10 MT20HS II

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.66	Vert(LL)	-0.02	3-4	>999	360	MT20HS	187/143
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.05	3-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.06	2	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR	Wind(LL)	0.07	3-4	>867	240	Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=0-5-8, 2=Mechanical, 3=Mechanical
 Max Horz 4=132(LC 12)
 Max Uplift 2=-114(LC 12)
 Max Grav 4=177(LC 1), 2=140(LC 17), 3=91(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=114.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 6240322	Truss D01	Truss Type Roof Special Girder	Qty 1	Ply 3	Custom Made Job Reference (optional)	T33959200
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:23 2024 Page 1

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Scale = 1:59.6

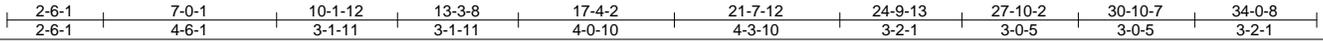
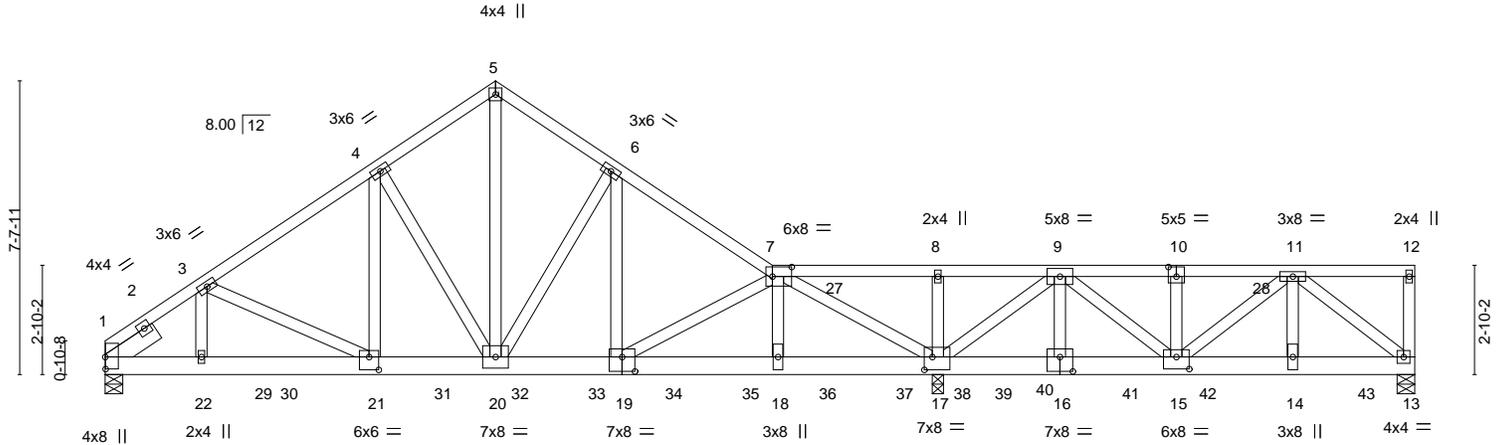


Plate Offsets (X,Y)-- [1:0-3-12,0-0-2], [7:0-6-0,0-3-0], [10:0-2-8,0-3-0], [15:0-4-0,0-3-12], [16:0-4-0,0-4-8], [17:0-2-8,0-4-0], [19:0-4-0,0-4-8], [21:0-3-0,0-4-0]

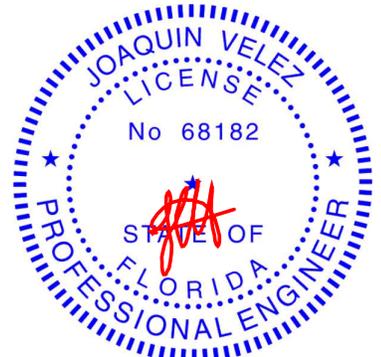
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.85	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.68	Vert(LL) -0.11 18-19 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.64	Vert(CT) -0.19 18-19 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.04 13 n/a n/a		
			Wind(LL) 0.10 18-19 >999 240	Weight: 728 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* 16-19: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17,15-16.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-6-0	

REACTIONS. (size) 1=0-5-8, 13=0-5-8, 17=0-3-8 (req. 0-6-7)
 Max Horz 1=196(LC 6)
 Max Uplift 1=-1521(LC 8), 13=-1152(LC 5), 17=-5553(LC 8)
 Max Grav 1=5130(LC 2), 13=3868(LC 22), 17=19136(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-7159/2171, 3-4=-7525/2176, 4-5=-6035/1783, 5-6=-6019/1780, 6-7=-7496/2095,
 7-8=-2215/7658, 8-9=-2215/7658, 9-10=-3232/1019, 10-11=-3232/1019
 BOT CHORD 1-22=-1793/5737, 21-22=-1793/5737, 20-21=-1761/6246, 19-20=-1674/6160,
 18-19=-1430/5193, 17-18=-1471/5347, 16-17=-689/151, 15-16=-689/151,
 14-15=-1042/3443, 13-14=-1042/3443
 WEBS 3-21=-192/618, 4-21=-795/2684, 4-20=-2425/849, 5-20=-1880/6489, 6-20=-2256/682,
 6-19=-642/2562, 7-19=-316/1229, 7-18=-733/2638, 7-17=-14992/4249, 8-17=-402/187,
 9-17=-8960/2615, 9-16=-697/2446, 9-15=-1413/4873, 11-15=-328/77, 11-14=-752/2806,
 11-13=-4320/1307

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BC DL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



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

May 23, 2024

Continued on Page 12, 17=5553.

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 6240322	Truss D01	Truss Type Roof Special Girder	Qty 1	Ply 3	Custom Made Job Reference (optional)	T33959200
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:23 2024 Page 2
ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-bUDqLuw3eaqZ_25mPQkLmKml6CGRf1X6g0EIOZzDxOo

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 653 lb down and 341 lb up at 4-0-12, 525 lb down and 155 lb up at 4-8-12, 1568 lb down and 413 lb up at 6-8-12, 1568 lb down and 413 lb up at 8-8-12, 1568 lb down and 413 lb up at 10-8-12, 1568 lb down and 413 lb up at 12-8-12, 1568 lb down and 413 lb up at 14-8-12, 1634 lb down and 502 lb up at 16-8-12, 1657 lb down and 499 lb up at 18-8-12, 1657 lb down and 499 lb up at 20-8-12, 1634 lb down and 502 lb up at 22-2-12, 47 lb down and 29 lb up at 22-7-4, 1710 lb down and 491 lb up at 22-11-12, 47 lb down and 29 lb up at 24-7-4, 1710 lb down and 491 lb up at 24-8-12, 47 lb down and 29 lb up at 26-7-4, 1710 lb down and 491 lb up at 26-8-12, 47 lb down and 29 lb up at 28-7-4, 1710 lb down and 491 lb up at 28-8-12, 47 lb down and 29 lb up at 30-7-4, and 1710 lb down and 491 lb up at 30-8-12, and 1710 lb down and 491 lb up at 32-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-7=-54, 7-12=-54, 13-23=-20

Concentrated Loads (lb)

Vert: 21=-1439(B) 16=-1572(F=-45, B=-1527) 14=-1572(F=-45, B=-1527) 29=-653(B) 30=-491(B) 31=-1439(B) 32=-1439(B) 33=-1439(B) 34=-1439(B) 35=-1520(B) 36=-1526(B) 37=-1526(B) 38=-1520(B) 39=-45(F) 40=-1527(B) 41=-1572(F=-45, B=-1527) 42=-1572(F=-45, B=-1527) 43=-1527(B)

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 6240322	Truss D02	Truss Type Roof Special	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959201
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:23 2024 Page 1
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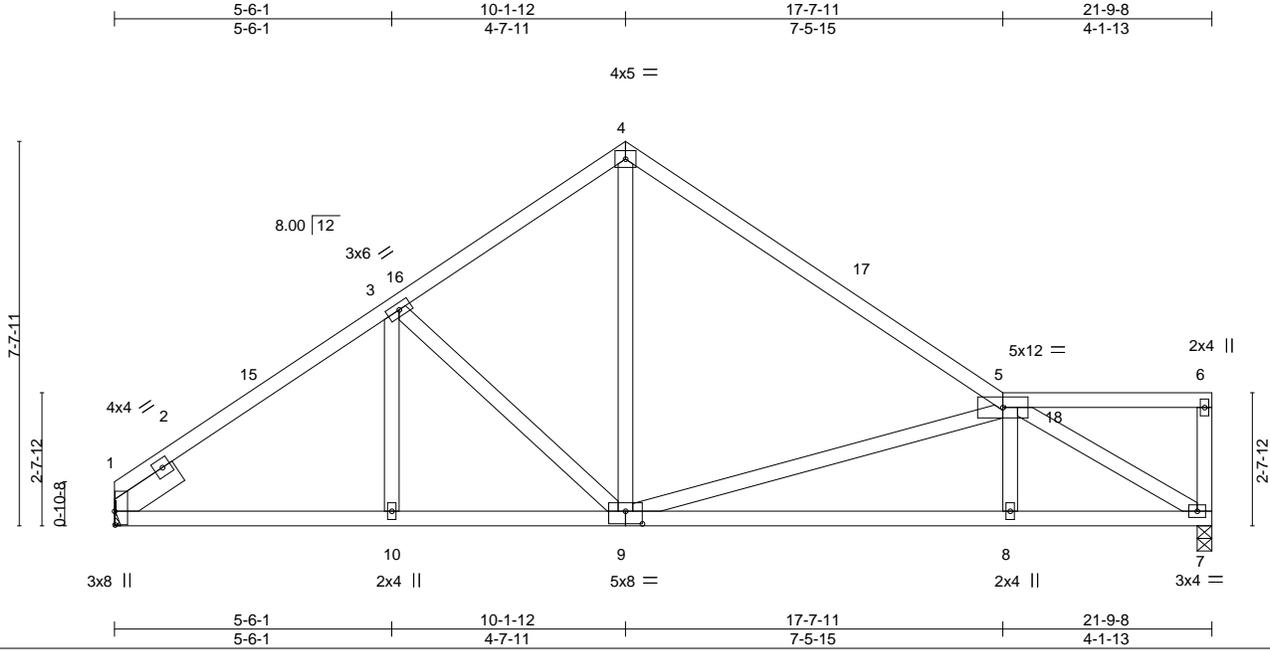


Plate Offsets (X,Y)-- [1:0-3-4,0-0-2], [9:0-4-0,0-3-0]

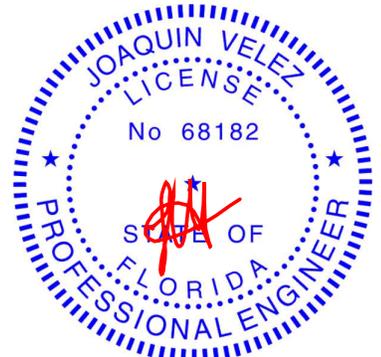
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.81	Vert(LL) -0.09	8-9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.56	Vert(CT) -0.20	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.04	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.05	8-9	>999	240	Weight: 123 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-6-0	

REACTIONS. (size) 1=Mechanical, 7=0-3-8
 Max Horz 1=-188(LC 10)
 Max Uplift 1=-220(LC 12), 7=-230(LC 12)
 Max Grav 1=801(LC 1), 7=801(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1029/402, 3-4=-807/396, 4-5=-856/354
 BOT CHORD 1-10=-328/832, 9-10=-328/832, 8-9=-447/1185, 7-8=-441/1193
 WEBS 3-9=-307/207, 4-9=-146/515, 5-9=-604/296, 5-8=0/263, 5-7=-1366/502

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-1-12, Zone2 10-1-12 to 14-4-11, Zone1 14-4-11 to 21-7-12 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=220, 7=230.



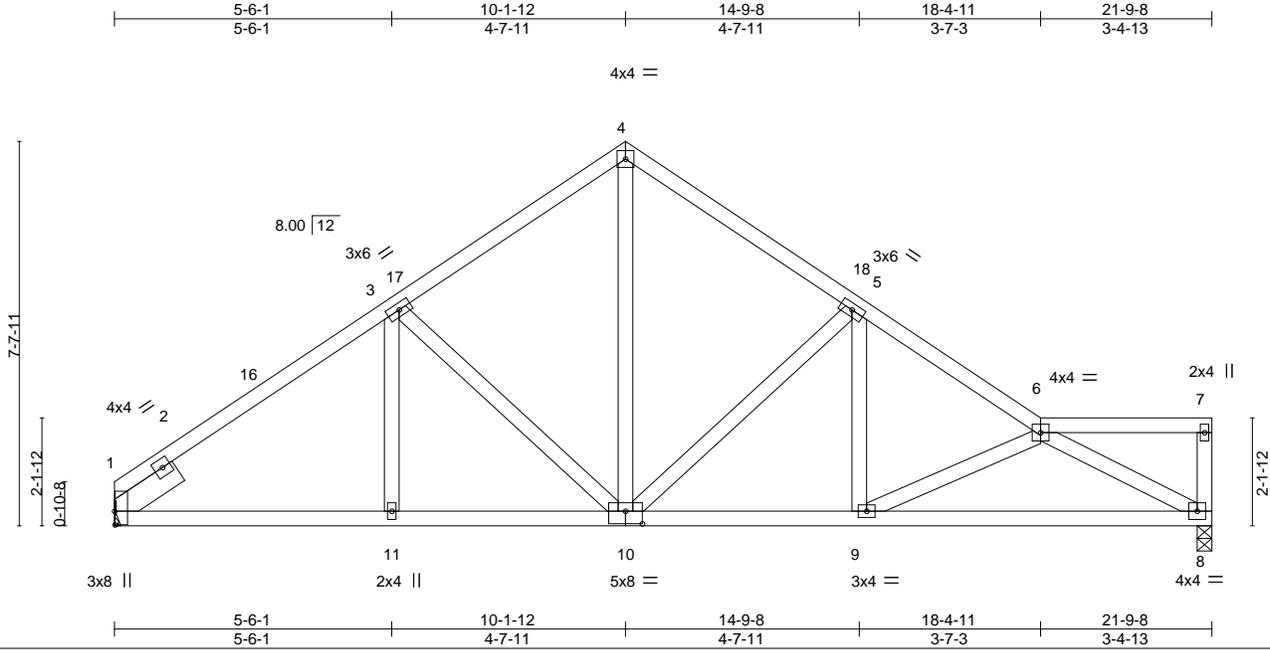
Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6364
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

May 23, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6240322	Truss D03	Truss Type Roof Special	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959202
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:24 2024 Page 1
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Scale = 1:45.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) -0.07	8-9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.15	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.03	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.04	9-10	>999	240	Weight: 127 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-5-5 oc bracing: 8-9.

REACTIONS.

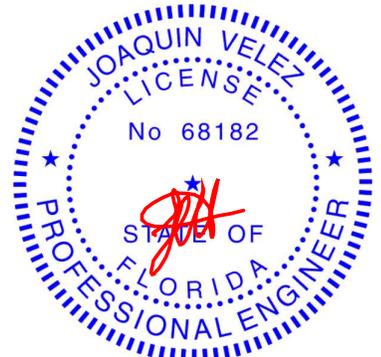
(size) 1=Mechanical, 8=0-3-8
 Max Horz 1=-196(LC 10)
 Max Uplift 1=-222(LC 12), 8=-228(LC 12)
 Max Grav 1=801(LC 1), 8=801(LC 1)

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

TOP CHORD 1-3=-1035/405, 3-4=-796/403, 4-5=-798/397, 5-6=-1148/431
 BOT CHORD 1-11=-312/839, 10-11=-312/839, 9-10=-312/924, 8-9=-479/1165
 WEBS 3-10=-331/217, 4-10=-254/598, 5-10=-469/247, 5-9=-4/316, 6-9=-271/188, 6-8=-1295/551

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-1-12, Zone2 10-1-12 to 14-4-11, Zone1 14-4-11 to 21-7-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=222, 8=228.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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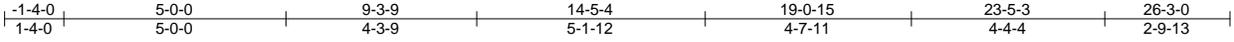
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss D04	Truss Type Roof Special Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959203
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:24 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-3gnCZExhPuyQbCgyz8FaJY11HcY8OP9Gug_sw?zDxOn



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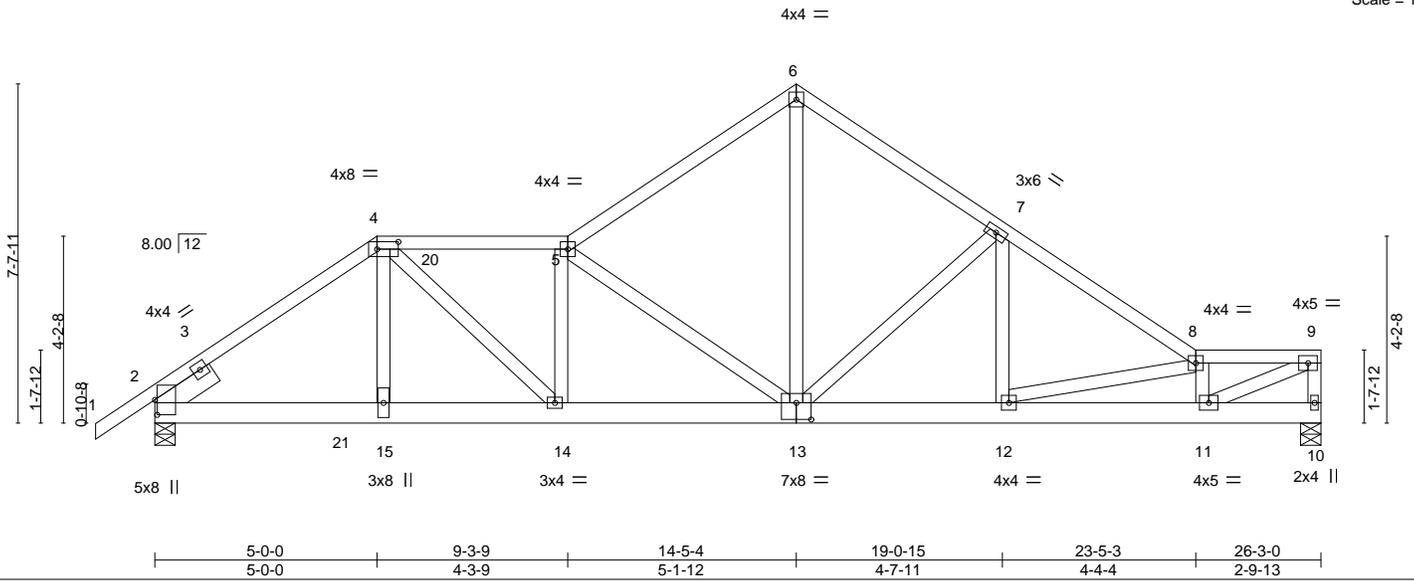


Plate Offsets (X,Y)-- [2:0-4-1,0-0-10], [4:0-5-12,0-2-0], [13:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL) -0.10	13-14	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.90	Vert(CT) -0.18	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Horz(CT) 0.05	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.11	13-14	>999	240		
							Weight: 177 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0

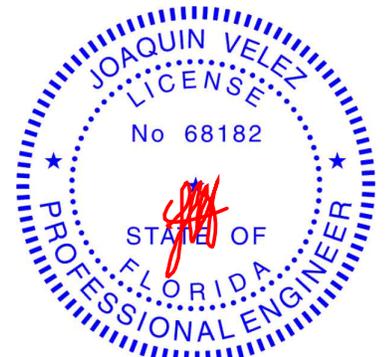
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-7-3 oc bracing.

REACTIONS. (size) 10=0-5-8, 2=0-5-8
 Max Horz 2=222(LC 26)
 Max Uplift 10=-340(LC 8), 2=-710(LC 8)
 Max Grav 10=1124(LC 1), 2=1883(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2391/860, 4-5=-2191/788, 5-6=-1434/530, 6-7=-1436/543, 7-8=-1836/587, 8-9=-1917/576, 9-10=-1007/317
 BOT CHORD 2-15=-651/1923, 14-15=-663/1957, 13-14=-687/2199, 12-13=-431/1499, 11-12=-619/2030
 WEBS 4-15=-350/901, 4-14=-420/710, 5-14=-357/284, 5-13=-1329/536, 6-13=-425/1246, 7-13=-528/232, 7-12=-12/328, 8-12=-553/195, 8-11=-997/371, 9-11=-617/2057

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=340, 2=710.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1003 lb down and 443 lb up at 4-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-5=-54, 5-6=-54, 6-8=-54, 8-9=-54, 10-16=-20
 Concentrated Loads (lb)
 Vert: 21=-1003(B)



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

May 23, 2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Custom Made
6240322	D05	Roof Special Girder	1	1	T33959204

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:25 2024 Page 2
 ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-XsLamayKAB4HDMF9WrmpslrD40xl7z1P7KjPTSzDxOm

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 24=-430(F)

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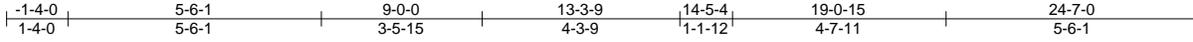
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959205
6240322	D06	Roof Special	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:26 2024 Page 1

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4x4 =

Scale = 1:49.8

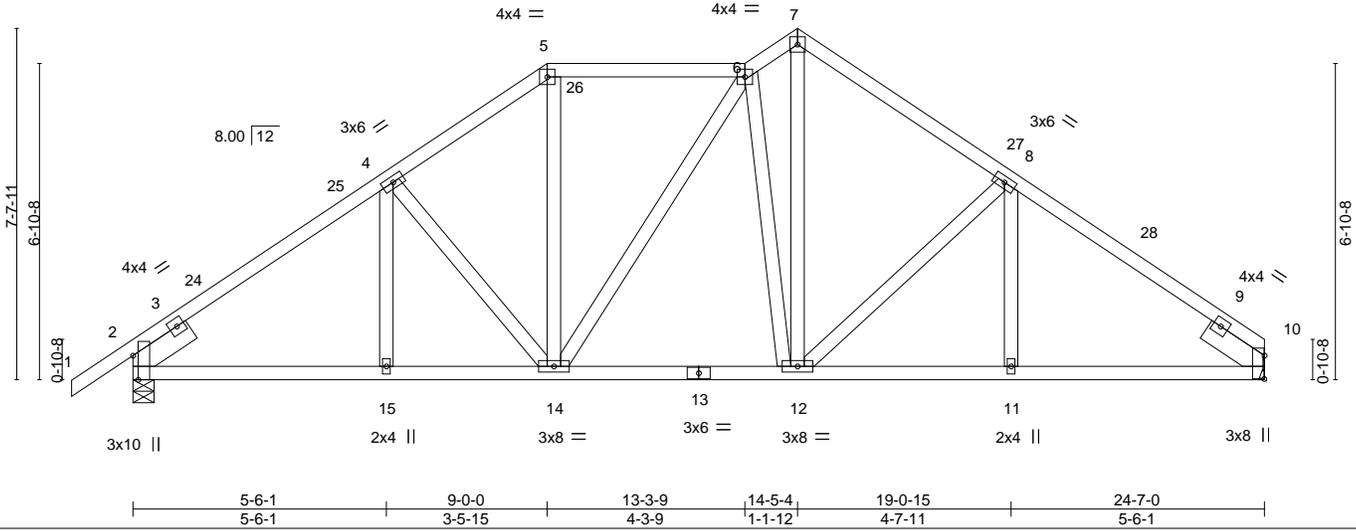


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [10:0-6-1,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.50	Vert(LL) -0.05	11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.10	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.04	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Wind(LL) 0.05	12	>999	240	Weight: 158 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

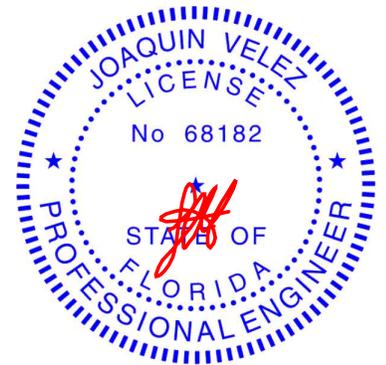
(size) 10=Mechanical, 2=0-5-8
 Max Horz 2=234(LC 11)
 Max Uplift 10=-254(LC 12), 2=-330(LC 12)
 Max Grav 10=908(LC 1), 2=984(LC 1)

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

TOP CHORD 2-4=-1183/442, 4-5=-1006/469, 5-6=-800/429, 6-7=-885/488, 7-8=-975/452,
 8-10=-1198/446
 BOT CHORD 2-15=-270/966, 14-15=-270/966, 12-14=-178/843, 11-12=-277/929, 10-11=-277/929
 WEBS 5-14=-110/330, 6-12=-527/307, 7-12=-372/785, 8-12=-303/203

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone3 9-0-0 to 13-3-9, Zone1 13-3-9 to 14-5-4, Zone2 14-5-4 to 18-8-3, Zone1 18-8-3 to 24-7-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=254, 2=330.



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

May 23,2024

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Job 6240322	Truss D08	Truss Type COMMON	Qty 3	Ply 1	Custom Made Job Reference (optional)	T33959207
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

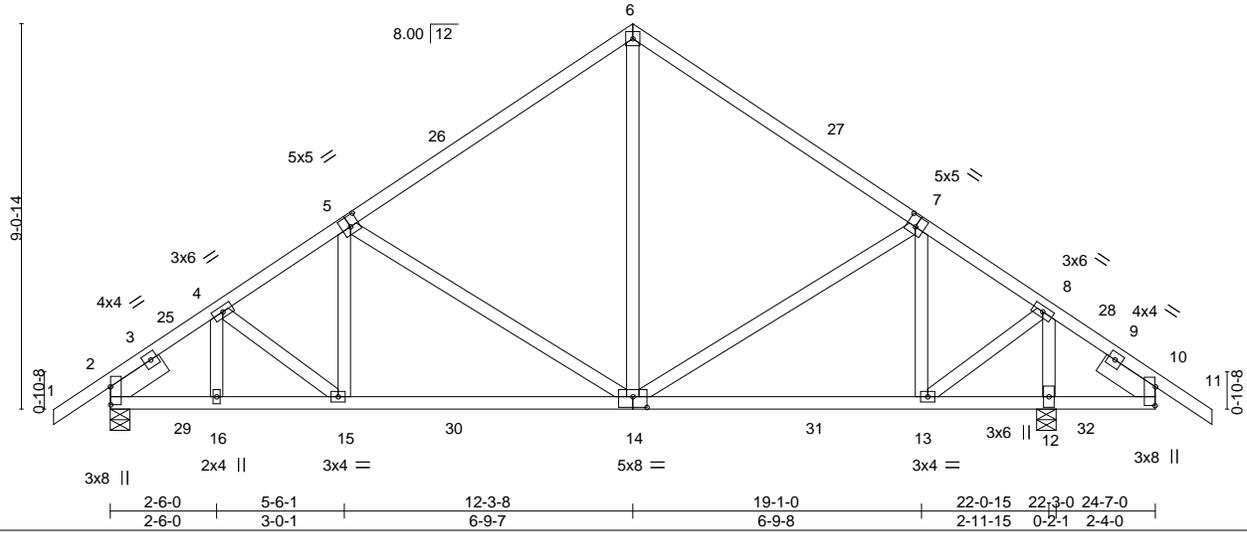
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:27 2024 Page 1

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4x4 =

Scale = 1:53.9



Job 6240322	Truss D09	Truss Type Common	Qty 4	Ply 1	Custom Made Job Reference (optional)	T33959208
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:28 2024 Page 1

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4x4 =

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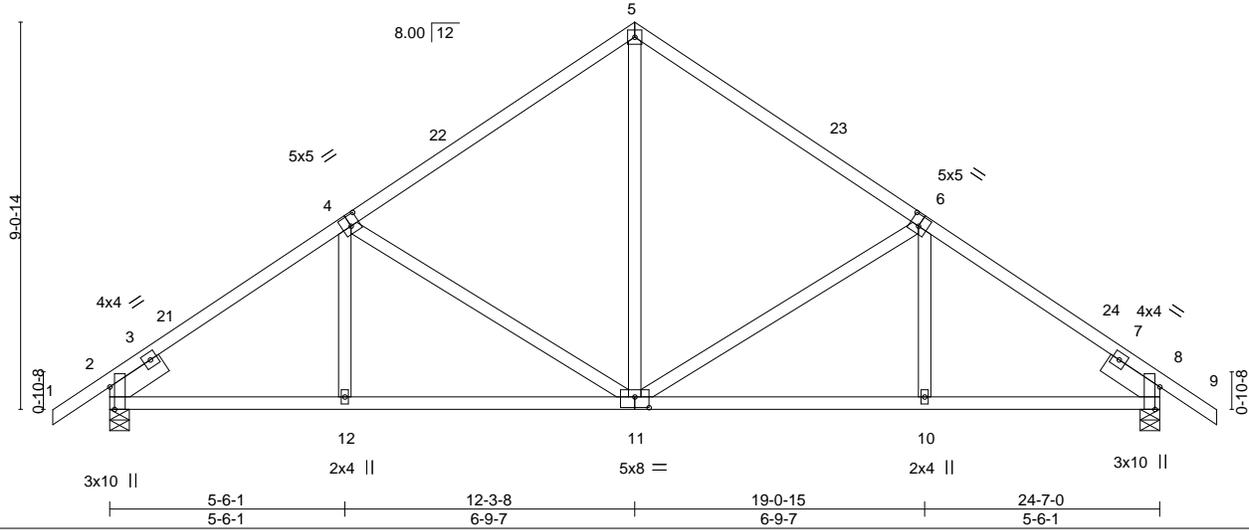


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [8:0-6-5,Edge], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.54	Vert(LL) -0.07	10-11	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.58	Vert(CT) -0.15	10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.05	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.06	10-11	>999	240	Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

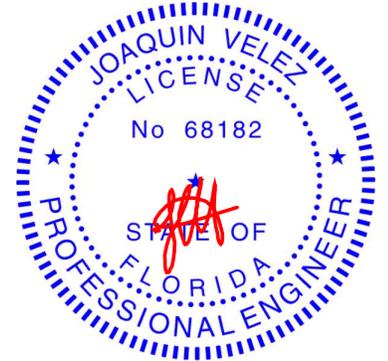
(size) 2=0-5-8, 8=0-5-8
 Max Horz 2=288(LC 11)
 Max Uplift 2=-328(LC 12), 8=-328(LC 12)
 Max Grav 2=982(LC 1), 8=982(LC 1)

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

TOP CHORD 2-4=-1203/421, 4-5=-896/406, 5-6=-896/406, 6-8=-1203/421
 BOT CHORD 2-12=-205/1039, 11-12=-206/1038, 10-11=-227/938, 8-10=-226/939
 WEBS 5-11=-180/566, 6-11=-410/255, 4-11=-410/255

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 25-11-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 8=328.



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

May 23, 2024

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Job 6240322	Truss D10	Truss Type Hip	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959209
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:28 2024 Page 1

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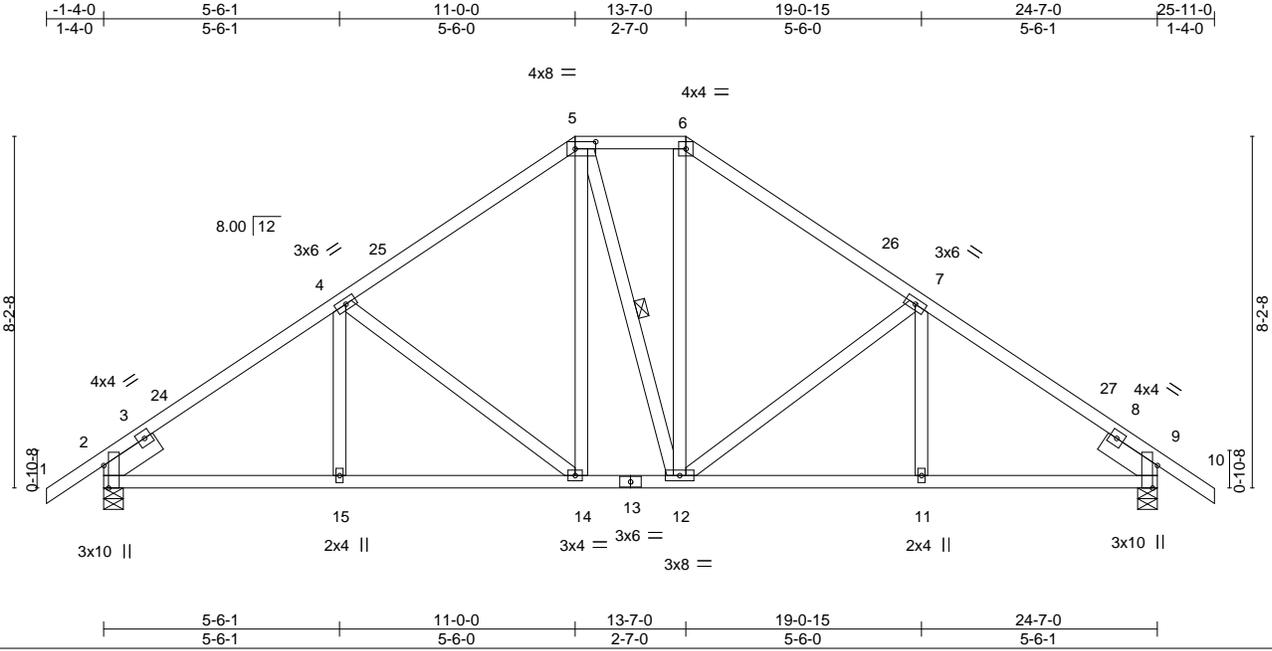


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [5:0-5-12,0-2-0], [9:0-6-5,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.50	Vert(LL) -0.06	14-15	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.54	Vert(CT) -0.13	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.05	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.05	14-15	>999	240	Weight: 158 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-12

REACTIONS.

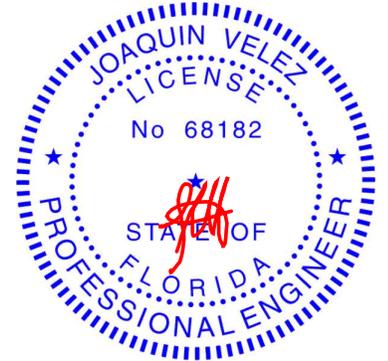
(size) 2=0-5-8, 9=0-5-8
 Max Horz 2=262(LC 11)
 Max Uplift 2=-328(LC 12), 9=-328(LC 12)
 Max Grav 2=982(LC 1), 9=982(LC 1)

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

TOP CHORD 2-4=-1196/404, 4-5=-932/409, 5-6=-708/406, 6-7=-933/402, 7-9=-1196/403
 BOT CHORD 2-15=-196/1014, 14-15=-196/1014, 12-14=-477/737, 11-12=-218/928, 9-11=-218/928
 WEBS 4-14=-352/208, 5-14=-80/290, 6-12=-90/286, 7-12=-351/207

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone3 11-0-0 to 13-7-0, Zone2 13-7-0 to 17-9-15, Zone1 17-9-15 to 25-11-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 9=328.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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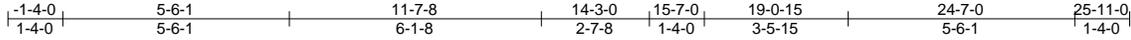
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss D11	Truss Type Roof Special	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959210
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:29 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-Qea5cy?qEQbjizYwhrl0b0t6dLf3pQ?2xhdcDzDxOI



4x4 =

Scale = 1:55.7

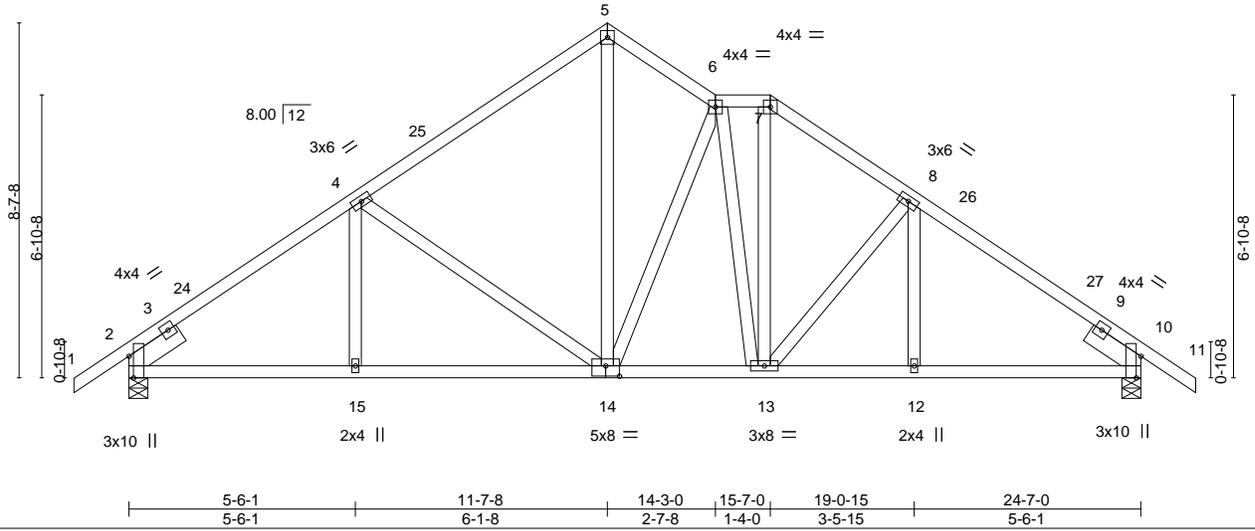


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [10:0-6-5,Edge], [14:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.50	Vert(LL) -0.06	14-15	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.56	Vert(CT) -0.14	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.05	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Wind(LL) 0.06	14-15	>999	240	Weight: 164 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

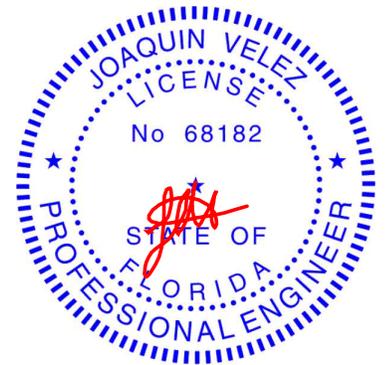
(size) 2=0-5-8, 10=0-5-8
 Max Horz 2=-274(LC 10)
 Max Uplift 2=-328(LC 12), 10=-328(LC 12)
 Max Grav 2=982(LC 1), 10=982(LC 1)

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

TOP CHORD 2-4=-1200/433, 4-5=-917/428, 5-6=-824/446, 6-7=-793/423, 7-8=-999/453,
 8-10=-1182/428
 BOT CHORD 2-15=-209/1025, 14-15=-209/1025, 13-14=-117/817, 12-13=-226/911, 10-12=-226/911
 WEBS 4-14=-377/237, 5-14=-295/665, 6-14=-406/253, 7-13=-150/364, 8-13=-257/183

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-7-8, Zone3 11-7-8 to 14-3-0, Zone1 14-3-0 to 15-7-0, Zone2 15-7-0 to 19-9-15, Zone1 19-9-15 to 25-11-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 10=328.



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

May 23, 2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 6240322	Truss D12	Truss Type Roof Special	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959211
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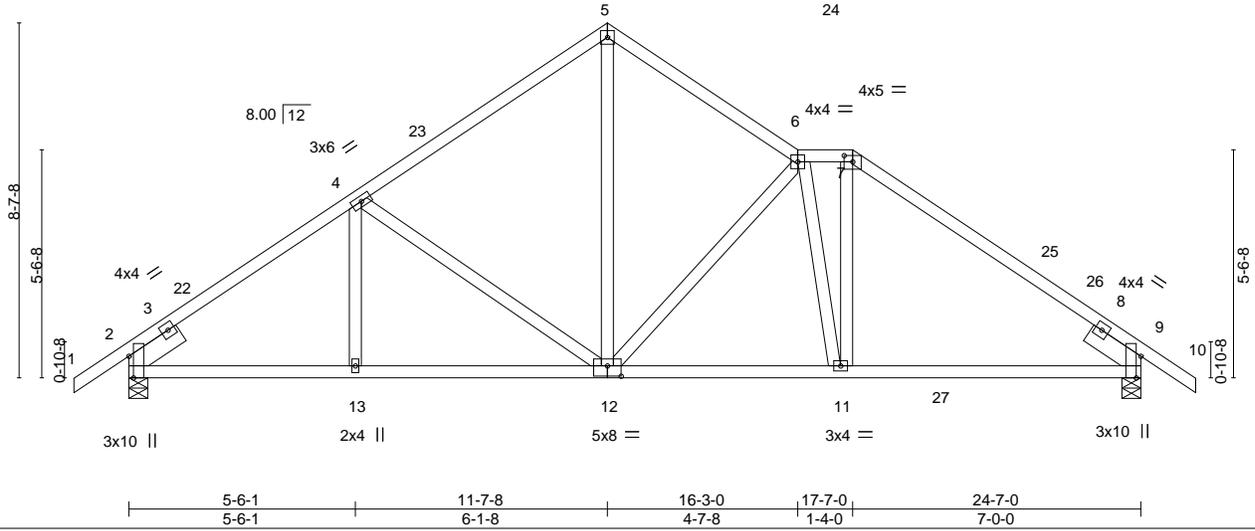
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:30 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZizGdXv-ug8TpHOS?kjaK776JOM_ZpY061fdoE?8HbRA8fzDxOh



Scale = 1:55.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL) -0.09	12-13	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.64	Vert(CT) -0.16	12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.04	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.05	11-20	>999	240	Weight: 146 lb	FT = 20%

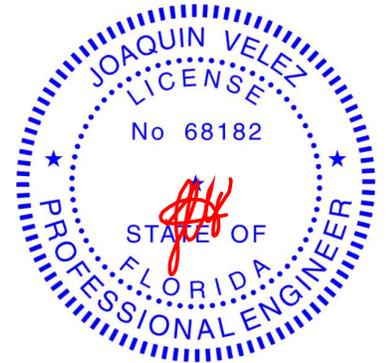
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 9=0-5-8
 Max Horz 2=274(LC 11)
 Max Uplift 2=-328(LC 12), 9=-328(LC 12)
 Max Grav 2=1099(LC 17), 9=1117(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1327/439, 4-5=-992/432, 5-6=-976/429, 6-7=-1047/447, 7-9=-1282/427
 BOT CHORD 2-13=-208/1225, 12-13=-208/1225, 11-12=-206/1112, 9-11=-189/1020
 WEBS 4-12=-436/238, 5-12=-257/757, 6-12=-554/284, 6-11=-319/110, 7-11=-51/536

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-7-8, Zone2 11-7-8 to 15-10-7, Zone1 15-10-7 to 17-7-0, Zone2 17-7-0 to 21-9-15, Zone1 21-9-15 to 25-11-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 9=328.



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

May 23,2024

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Job 6240322	Truss D14	Truss Type Roof Special Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959213
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:31 2024 Page 1
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4x4 =

Scale = 1:55.7

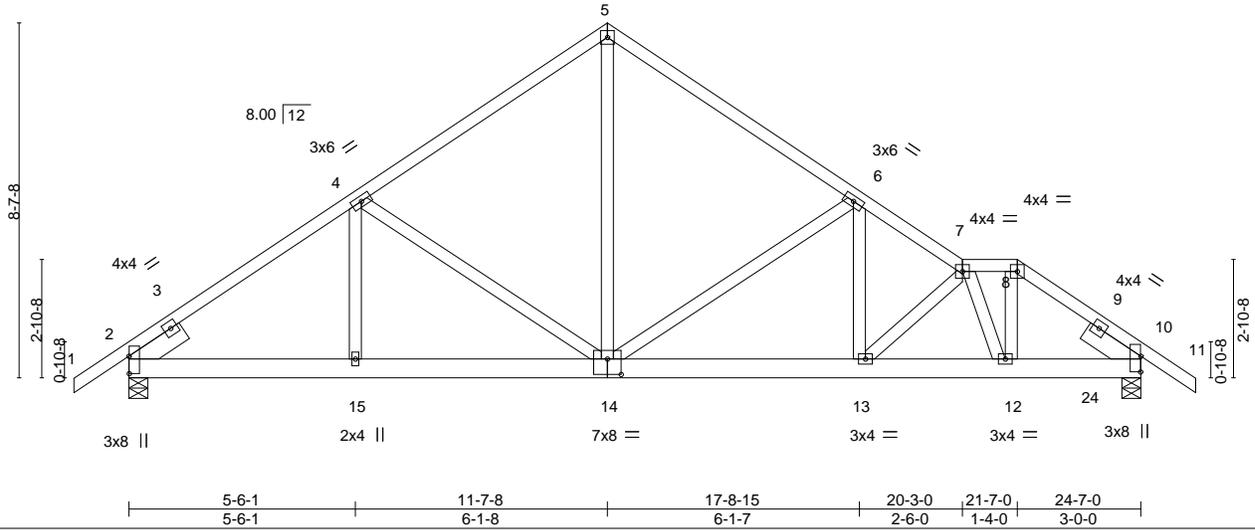


Plate Offsets (X,Y)-- [2:0-5-1,0-0-2], [10:0-4-9,0-0-2], [14:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	Vert(LL) -0.04	13-14	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.09	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.02	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.05	13-14	>999	240	Weight: 169 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-5-8, 10=0-5-8
 Max Horz 2=274(LC 7)
 Max Uplift 2=-338(LC 8), 10=-521(LC 8)
 Max Grav 2=1004(LC 1), 10=1385(LC 1)

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

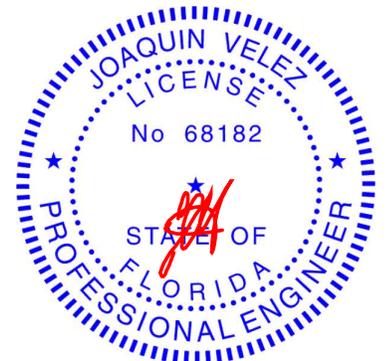
TOP CHORD 2-4=-1239/375, 4-5=-969/369, 5-6=-970/369, 6-7=-1438/463, 7-8=-1158/405, 8-10=-1392/448
 BOT CHORD 2-15=-168/1060, 14-15=-168/1060, 13-14=-240/1205, 12-13=-336/1428, 10-12=-256/1120
 WEBS 4-14=-388/209, 5-14=-206/653, 6-14=-617/290, 6-13=-23/359, 7-13=-315/136, 7-12=-643/241, 8-12=-170/658

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=338, 10=521.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 425 lb down and 211 lb up at 23-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-5=-54, 5-7=-54, 7-8=-54, 8-11=-54, 16-20=-20
 Concentrated Loads (lb)
 Vert: 24=-425(F)



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

May 23, 2024

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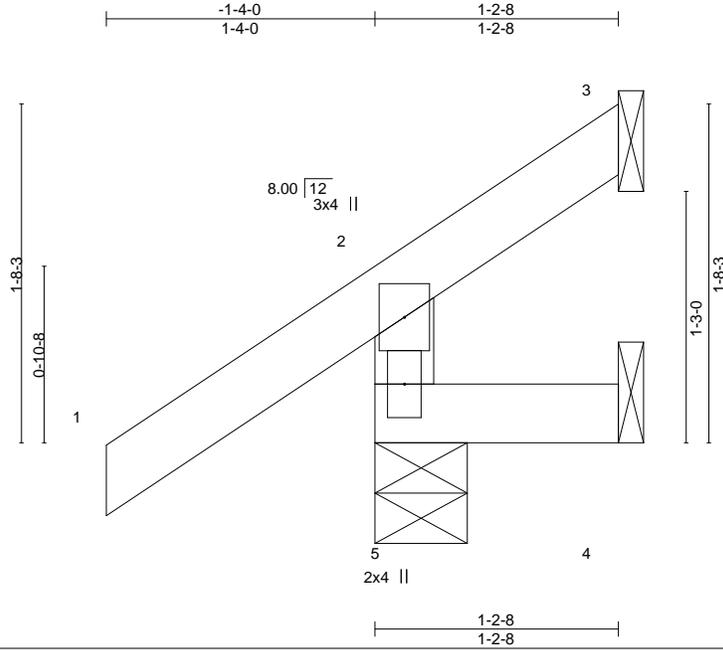
MiTek®

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

Job 6240322	Truss EJ1	Truss Type Jack-Open	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959214
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:31 2024 Page 1
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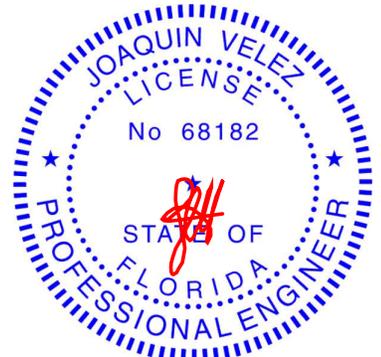
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	Vert(LL) 0.00	5	>999	360		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT) 0.00	5	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR	Wind(LL) -0.00	5	>999	240		Weight: 7 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-2-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=91(LC 12)
 Max Uplift 5=111(LC 12), 3=12(LC 1), 4=5(LC 1)
 Max Grav 5=175(LC 1), 3=13(LC 8), 4=16(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=149/299

- 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=111.



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

May 23,2024

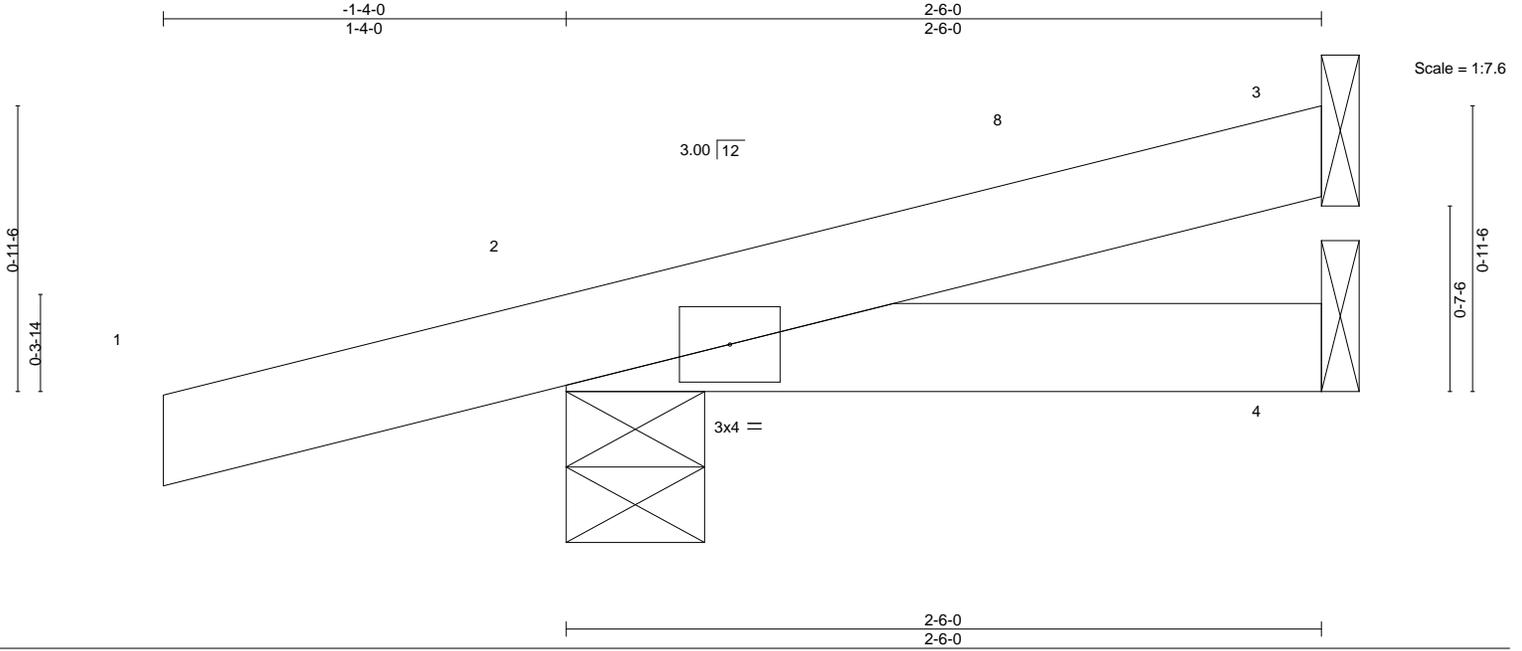
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6240322	Truss EJ2A	Truss Type Jack-Open	Qty 3	Ply 1	Custom Made Job Reference (optional)	T33959215
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:32 2024 Page 1

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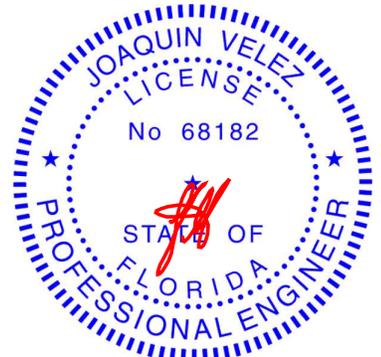
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.21	Vert(LL) -0.00	7	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.05	Vert(CT) -0.00	7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP	Wind(LL) 0.00	7	>999	240		
							Weight: 10 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
 Max Horz 2=46(LC 12)
 Max Uplift 3=-17(LC 12), 2=-116(LC 12)
 Max Grav 3=44(LC 1), 2=182(LC 1), 4=37(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-5-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=116.



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

May 23, 2024

Job 6240322	Truss EJ3A	Truss Type Jack-Open	Qty 10	Ply 1	Custom Made Job Reference (optional)	T33959216
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Tibbetts Lumber Co., LLC (Ocala, FL),

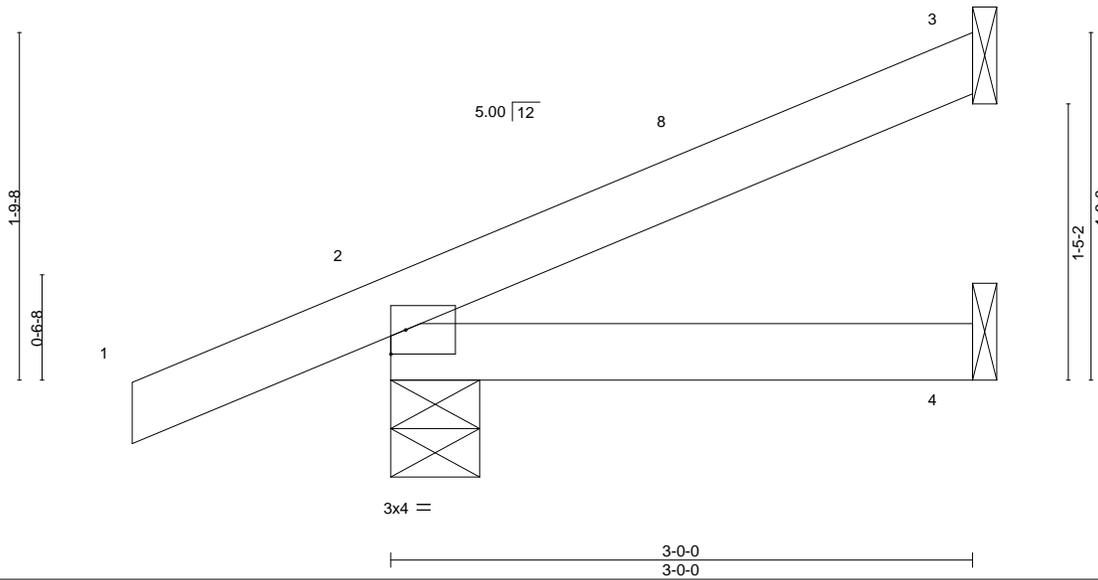
Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:32 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-qCGEEz1jXLzLZQHVrPOSeEdR5qUyGfKRkvwHCYzDxOf



Scale = 1:11.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.20	Vert(LL) -0.00	4-7	>999	360		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(CT) -0.01	4-7	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP	Wind(LL) 0.00	4-7	>999	240		Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

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

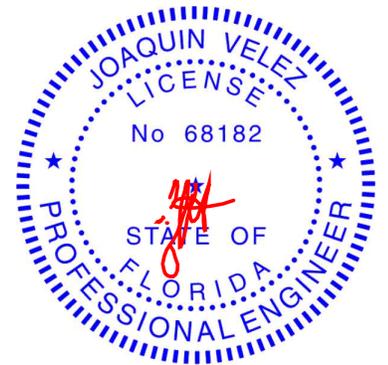
REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=85(LC 12)
Max Uplift 3=-42(LC 12), 2=-106(LC 12)
Max Grav 3=64(LC 17), 2=197(LC 1), 4=52(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=106.



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

May 23, 2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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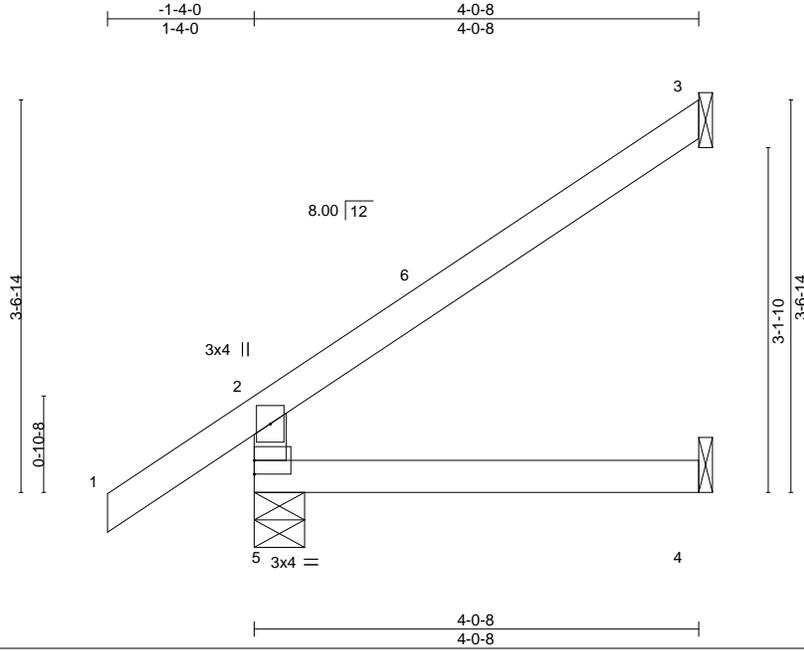
Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959217
6240322	EJ4	Jack-Open	1	1		

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:32 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-qCGEEz1jXLzLZQHVRpOSeEdPGqQ5GfKrvwHCYzDxOf



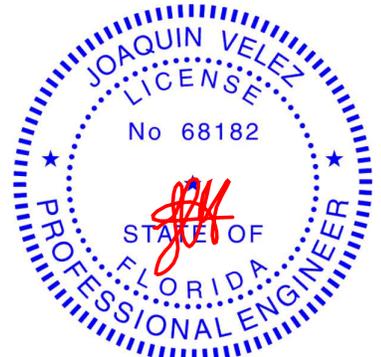
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.38	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.32	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR	Wind(LL)	0.03	4-5	>999	240		
								Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=167(LC 12)
 Max Uplift 5=80(LC 12), 3=-85(LC 12)
 Max Grav 5=237(LC 1), 3=105(LC 17), 4=71(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-200/312

- 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 3-11-12 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
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.



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

May 23,2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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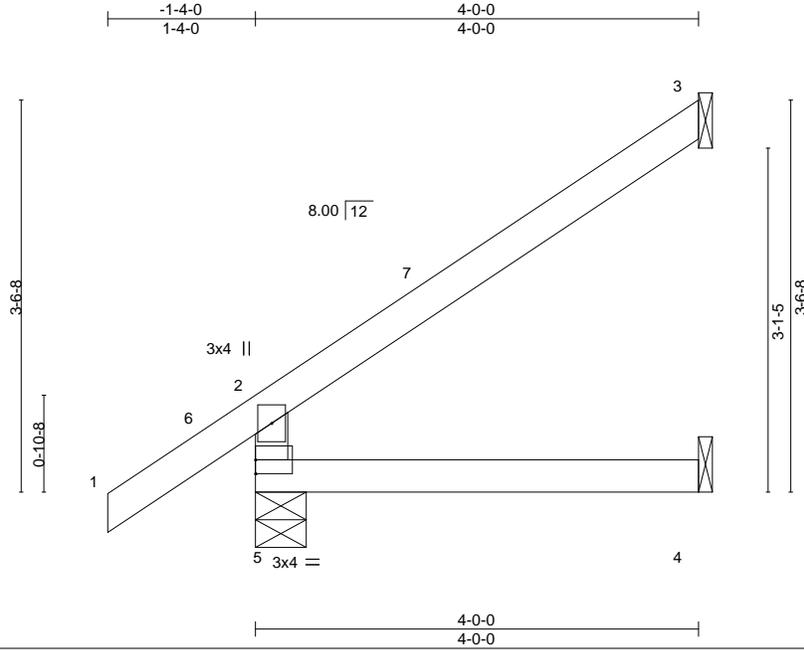
Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959218
6240322	EJ4A	Jack-Open	5	1		

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:33 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-IPpcRJ2Lf59Bash_XwhARAA9EnQ?i_bzZfq_l_zDxOe



Scale = 1:20.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0-0	TC 0.37	Vert(LL)	-0.01	4-5	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.32	Vert(CT)	-0.02	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.03	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Wind(LL)	0.02	4-5	>999		
	Code FBC2023/TPI2014						Weight: 16 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 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

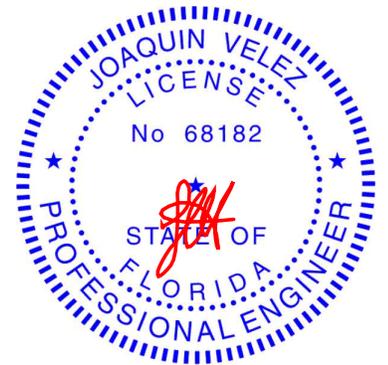
(size) 5=0-5-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=166(LC 12)
 Max Uplift 5=81(LC 12), 3=-84(LC 12)
 Max Grav 5=236(LC 1), 3=104(LC 17), 4=70(LC 3)

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

TOP CHORD 2-5=-199/311

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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 3-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain load requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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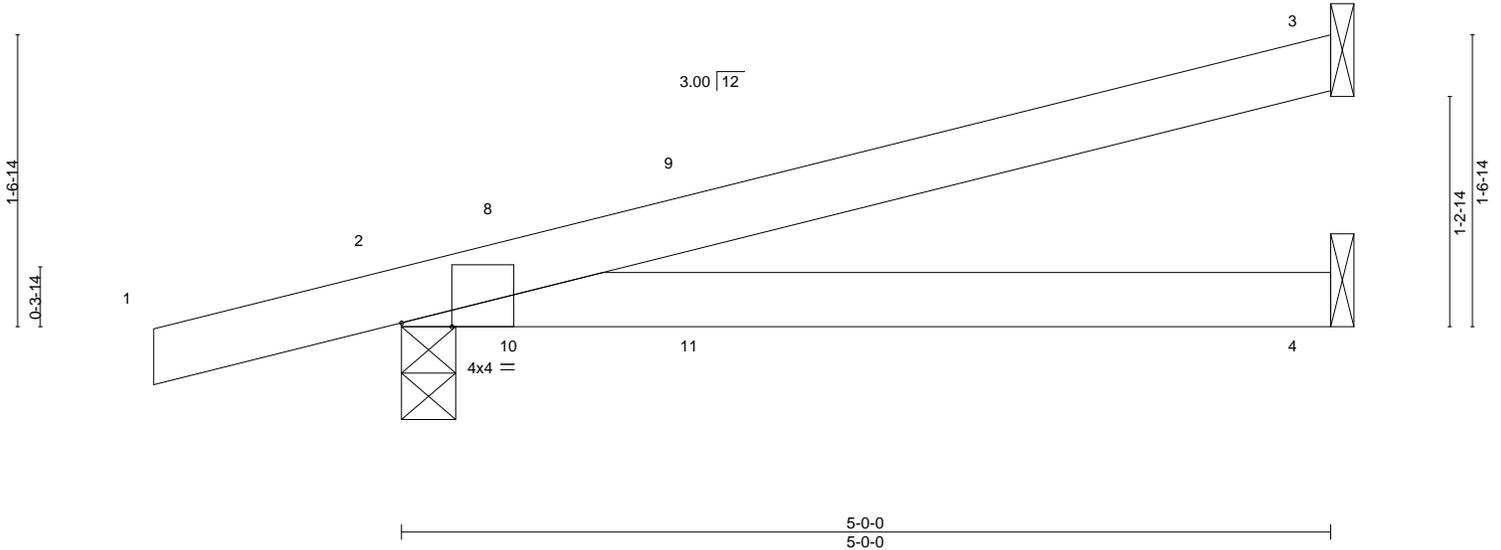
Job 6240322	Truss EJ5P	Truss Type JACK-OPEN	Qty 3	Ply 1	Custom Made Job Reference (optional)	T33959219
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:33 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-IPpcRJ2Lf59Bash_XwhARAZKEme?i_bzZfqL_zDxDe



Scale = 1:12.3



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	in	(loc)	l/defl	L/d	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(LL)	0.08	4-7	>701	Weight: 17 lb FT = 20%			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Vert(CT)	-0.05	4-7	>999				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP		Horz(CT)	-0.00	3	n/a				

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

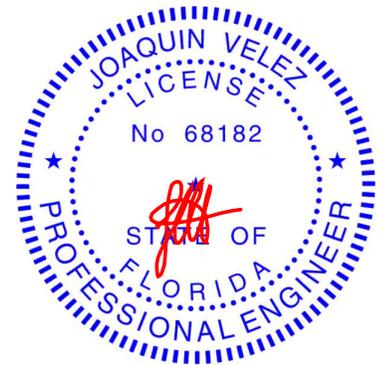
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 3=73(LC 12), 2=-201(LC 12), 4=-48(LC 12)
Max Grav 3=111(LC 1), 2=264(LC 1), 4=85(LC 3)

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

NOTES-

- 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=201.



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

May 23, 2024

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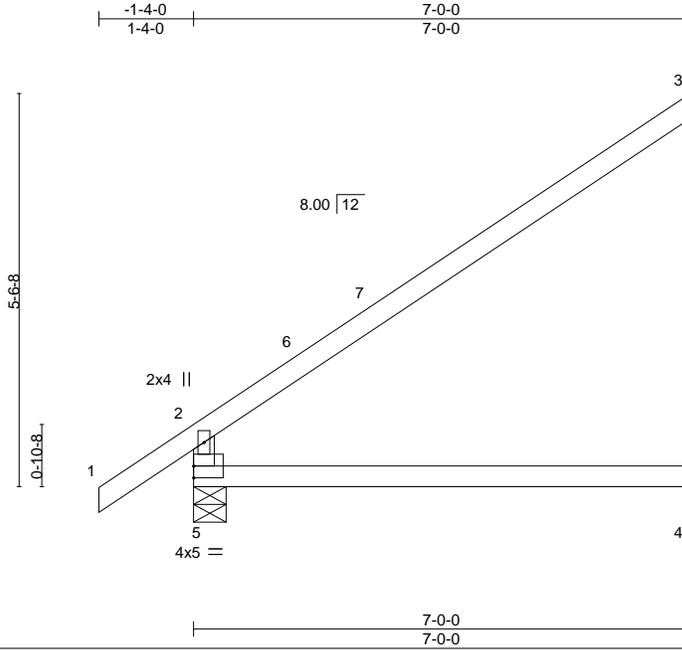
Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959220
6240322	EJ7	Jack-Open	6	1		

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:34 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-mbN_ff3z3yD0okRtYERwjfjgye2Ek9EKCDPOHQzDxDd



Scale: 3/8"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	Vert(LL)	-0.10	4-5	>790	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.54	Vert(CT)	-0.22	4-5	>372		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.12	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Wind(LL)	0.12	4-5	>662		
	Code FBC2023/TPI2014						Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

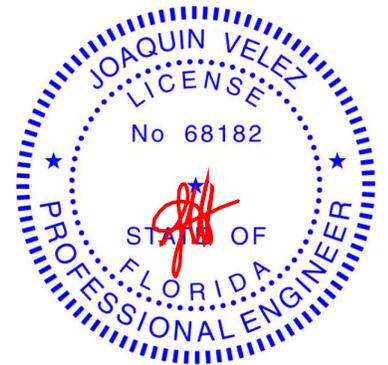
(size) 5=0-5-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=248(LC 12)
 Max Uplift 5=-78(LC 12), 3=-163(LC 12)
 Max Grav 5=340(LC 1), 3=200(LC 17), 4=128(LC 3)

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

TOP CHORD 2-5=-278/318

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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 3=163.



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

May 23,2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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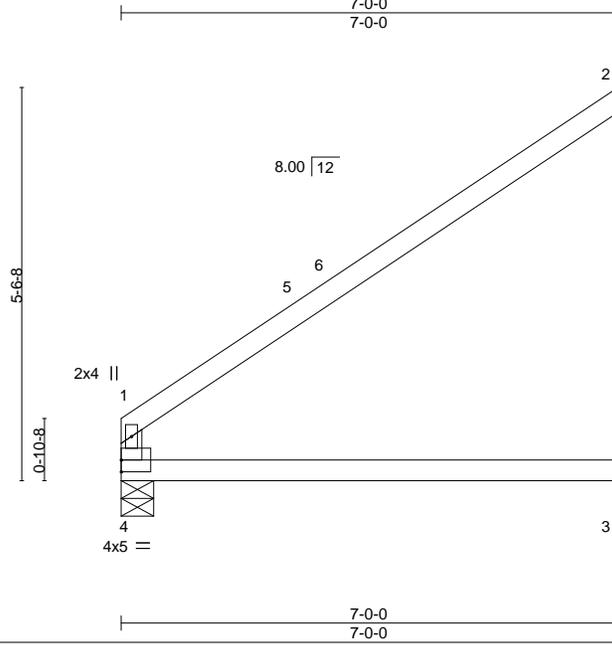
Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959221
6240322	EJ7A	Jack-Open	1	1		

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:34 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tIzGdXv-mbN_ff3z3yD0okRtYERwjjjike2zk9EKCDPOHQzDxDd



Scale: 3/8"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	Vert(LL)	-0.11	3-4	>757	360	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.55	Vert(CT)	-0.23	3-4	>357	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.12	2	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Wind(LL)	0.13	3-4	>643	240		
	Code FBC2023/TPI2014							Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

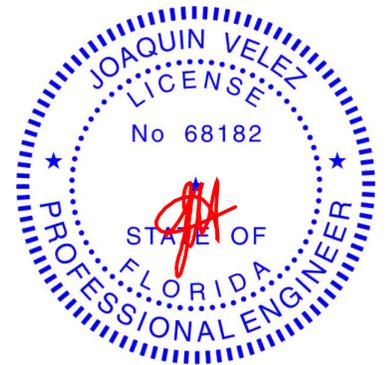
REACTIONS.

(size) 4=0-5-8, 2=Mechanical, 3=Mechanical
 Max Horz 4=186(LC 12)
 Max Uplift 2=-169(LC 12)
 Max Grav 4=251(LC 1), 2=207(LC 17), 3=130(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=169.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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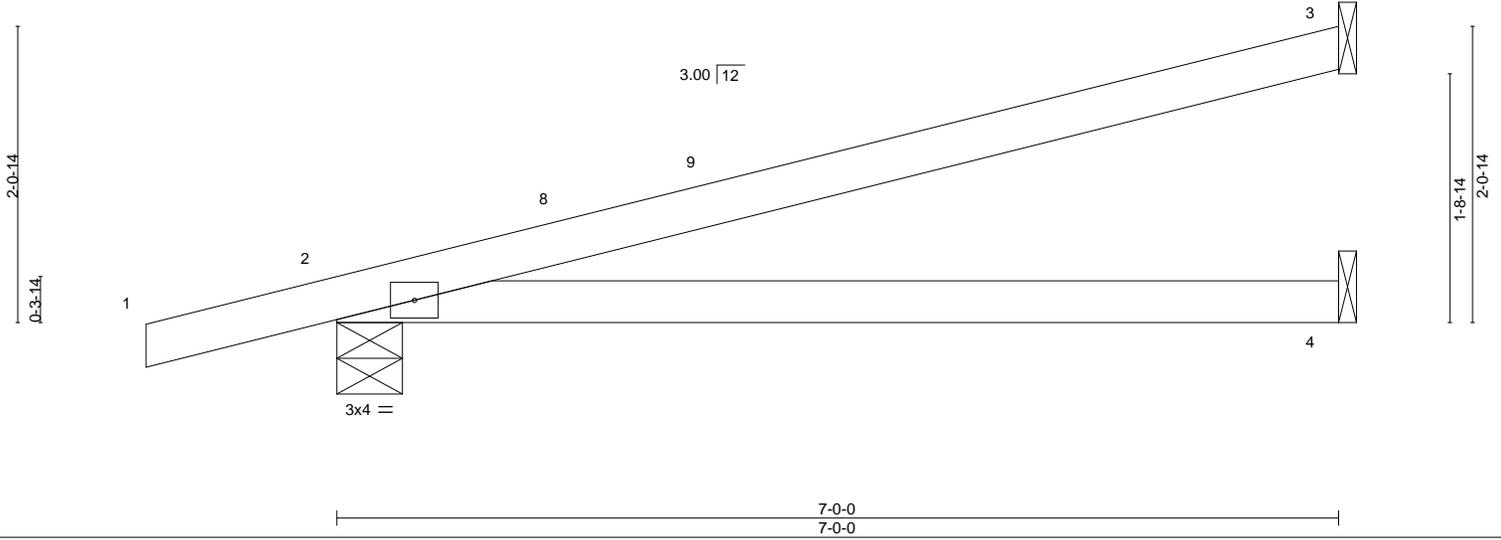
Job 6240322	Truss EJ7B	Truss Type Jack-Open	Qty 13	Ply 1	Custom Made Job Reference (optional)	T33959222
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:35 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-EnxMs?4bqGLtQu046yy9FsFq22MiTcUuQt8xpszdXoc



Scale: 3/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	Vert(LL)	-0.10	4-7	>811	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.65	Vert(CT)	-0.22	4-7	>381		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.19	4-7	>443		
	Code FBC2023/TPI2014						Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

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

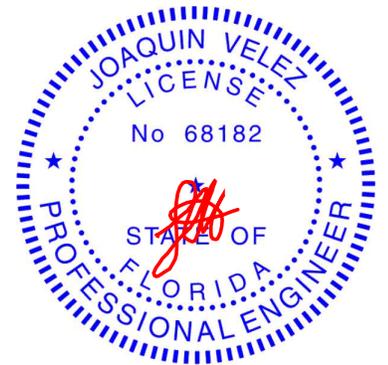
REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=92(LC 12)
Max Uplift 3=-89(LC 12), 2=-143(LC 12)
Max Grav 3=162(LC 1), 2=336(LC 1), 4=122(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=143.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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314.434.1200 / MiTek-US.com

Job 6240322	Truss F01	Truss Type GABLE	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959223
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:35 2024 Page 1

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4x4 =

Scale = 1:55.3

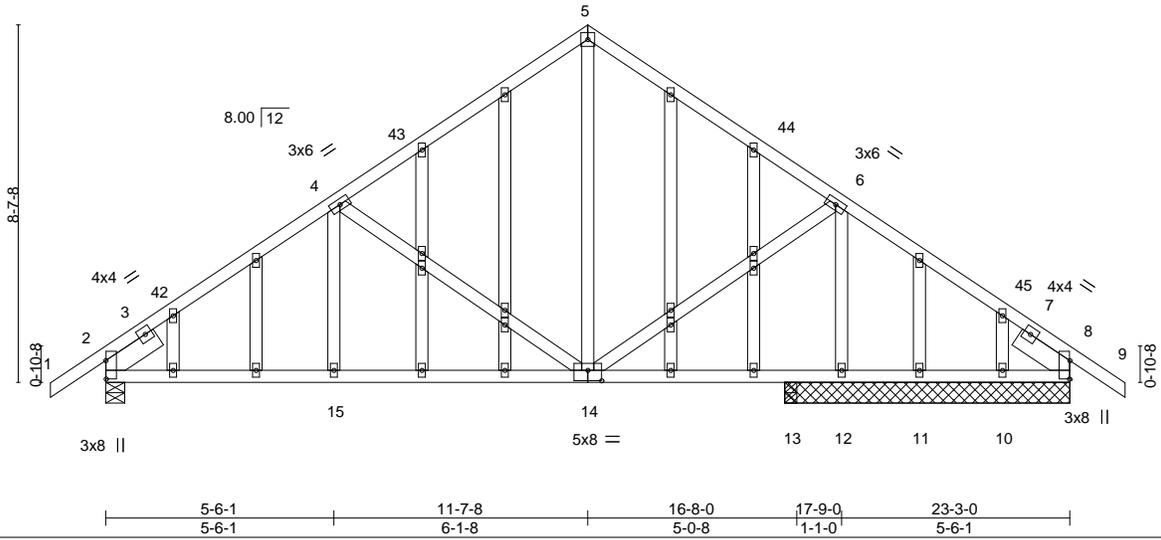


Plate Offsets (X,Y)-- [2:0-5-5,0-0-2], [8:0-5-5,0-0-2], [14:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL) -0.03	14-15	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.08	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01	13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.02	14-15	>999	240		
							Weight: 181 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

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. Except: 10-0-0 oc bracing: 2-15,14-15.

REACTIONS.

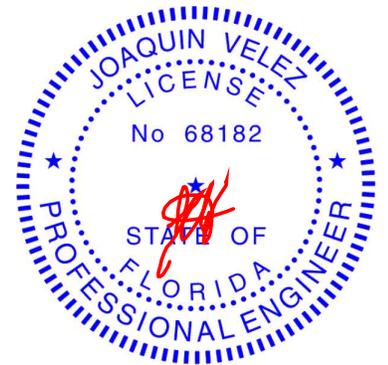
All bearings 6-10-8 except (jt=length) 2=0-5-8, 13=0-3-8.
 (lb) - Max Horz 2=-274(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 10 except 2=-270(LC 12), 12=-252(LC 12), 8=-135(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 8, 11, 10, 13, 8 except 2=710(LC 1), 12=776(LC 1)

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

TOP CHORD 2-4=-779/313, 4-5=-461/297, 5-6=-464/304
 BOT CHORD 2-15=-117/718, 14-15=-117/718
 WEBS 6-14=0/459, 6-12=-777/310, 4-14=-425/252

NOTES-

- Unbalanced roof live loads HAVING been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-7-8, Zone2 11-7-8 to 15-10-7, Zone1 15-10-7 to 24-7-0 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=270, 12=252, 8=135, 8=135.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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 314.434.1200 / MiTek-US.com

Job 6240322	Truss F02	Truss Type Common	Qty 6	Ply 1	Custom Made Job Reference (optional)	T33959224
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:36 2024 Page 1

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4x4 =

Scale = 1:51.1

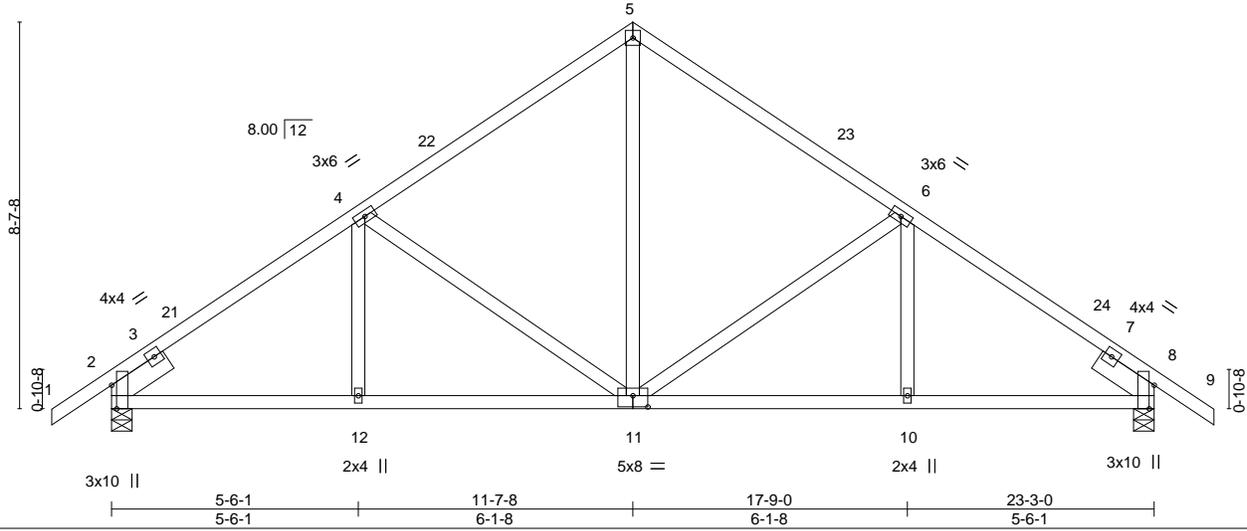


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [8:0-6-5,Edge], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.52	Vert(LL) -0.06 11-12 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Vert(CT) -0.12 11-12 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.05 8 n/a n/a		
			Wind(LL) 0.05 11-12 >999 240	Weight: 133 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

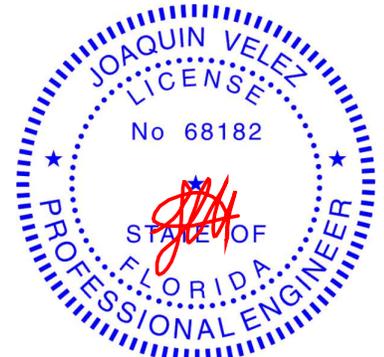
(size) 2=0-5-8, 8=0-5-8
 Max Horz 2=-274(LC 10)
 Max Uplift 2=-314(LC 12), 8=-314(LC 12)
 Max Grav 2=932(LC 1), 8=932(LC 1)

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

TOP CHORD 2-4=-1121/403, 4-5=-838/395, 5-6=-838/395, 6-8=-1121/403
 BOT CHORD 2-12=-186/963, 11-12=-186/963, 10-11=-209/870, 8-10=-209/870
 WEBS 5-11=-186/549, 6-11=-381/242, 4-11=-380/242

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-7-8, Zone2 11-7-8 to 15-10-7, Zone1 15-10-7 to 24-7-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 8=314.



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

May 23,2024

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

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss F03	Truss Type Common	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959225
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:37 2024 Page 1

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4x4 =

Scale = 1:50.5

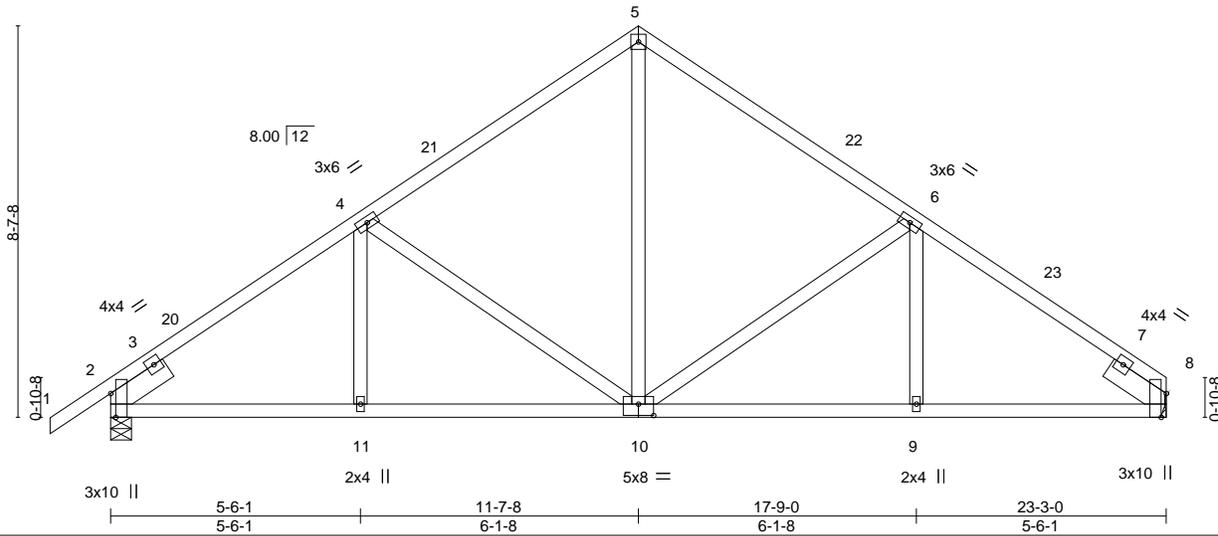


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [8:0-6-5,Edge], [10:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.46	Vert(LL) -0.05	10-11	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.52	Vert(CT) -0.12	10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.04	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.05	10-11	>999	240	Weight: 131 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

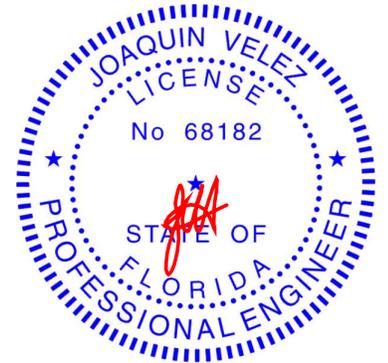
(size) 8=Mechanical, 2=0-5-8
 Max Horz 2=265(LC 11)
 Max Uplift 8=240(LC 12), 2=-316(LC 12)
 Max Grav 8=858(LC 1), 2=934(LC 1)

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

TOP CHORD 2-4=-1124/405, 4-5=-841/396, 5-6=-842/404, 6-8=-1132/427
 BOT CHORD 2-11=-253/950, 10-11=-253/950, 9-10=-248/882, 8-9=-248/882
 WEBS 5-10=-197/552, 6-10=-391/246, 4-10=-380/242

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-7-8, Zone2 11-7-8 to 15-10-7, Zone1 15-10-7 to 23-3-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=240, 2=316.



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

May 23, 2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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 314.434.1200 / MiTek-US.com

Job 6240322	Truss FG1	Truss Type HALF HIP GIRDER	Qty 1	Ply 3	Custom Made Job Reference (optional)	T33959226
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:39 2024 Page 1

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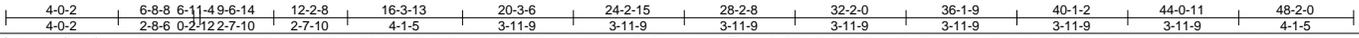
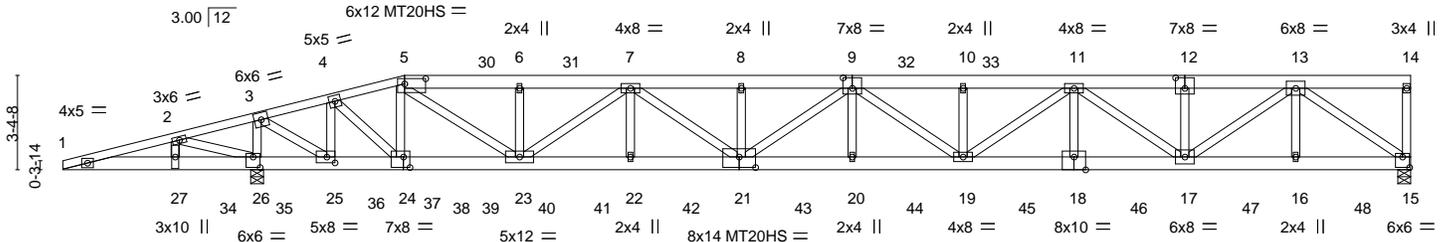


Plate Offsets (X,Y)--	[5:0-9-0,0-2-4], [9:0-4-0,0-4-8], [12:0-4-0,0-4-8], [15:0-3-0,0-4-8], [18:0-5-0,Edge], [21:0-7-0,0-4-8], [24:0-2-12,0-4-8], [25:0-3-8,0-2-8], [26:0-3-0,0-4-8]
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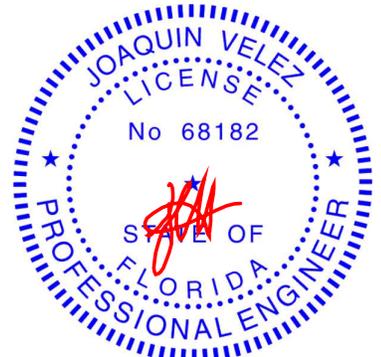
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.56	Vert(LL) 0.82 20-21 >603 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.83	Vert(CT) -0.86 20-21 >573 240		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Horz(CT) 0.15 15 n/a n/a		
				Weight: 990 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS *Except* 1-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 15=0-5-8, 26=0-5-8
 Max Horz 26=124(LC 27)
 Max Uplift 15=-4165(LC 5), 26=-6580(LC 8)
 Max Grav 15=6046(LC 20), 26=11543(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-875/2302, 2-3=-1359/4498, 3-4=-5397/4858, 4-5=-10354/7763, 5-6=-17346/12212,
 6-7=-17343/12210, 7-8=-22904/15721, 8-9=-22909/15722, 9-10=-21428/14655,
 10-11=-21428/14655, 11-12=-13814/9494, 12-13=-13814/9494
 BOT CHORD 1-27=-2193/867, 26-27=-2193/867, 25-26=-4337/1245, 24-25=-4720/5209,
 23-24=-7563/10089, 22-23=-14827/21449, 21-22=-14827/21449, 20-21=-15678/22932,
 19-20=-15678/22931, 18-19=-12598/18370, 17-18=-12598/18370, 16-17=-5299/7697,
 15-16=-5299/7697
 WEBS 2-27=-171/1009, 2-26=-2254/528, 3-26=-8550/5206, 3-25=-6728/11056, 4-25=-5685/3343,
 4-24=-3904/6653, 5-24=-2784/1528, 5-23=-5760/8985, 6-23=-461/297, 7-23=-5115/3248,
 7-22=-1174/1703, 7-21=-1117/1835, 9-21=-313/229, 9-20=-654/908, 9-19=-1866/1335,
 11-19=-2585/3796, 11-18=-639/885, 11-17=-5656/3853, 13-17=-5209/7594,
 13-16=-668/918, 13-15=-9452/6507

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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

May 23, 2024

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959226
6240322	FG1	HALF HIP GIRDER	1	3	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:39 2024 Page 2
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NOTES-

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=4165, 26=6580.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 773 lb down and 241 lb up at 1-9-4, 773 lb down and 241 lb up at 3-9-4, 773 lb down and 241 lb up at 5-9-4, 768 lb down and 557 lb up at 7-9-4, 768 lb down and 561 lb up at 9-1-12, 768 lb down and 563 lb up at 11-1-12, 768 lb down and 564 lb up at 13-1-12, 768 lb down and 564 lb up at 15-1-12, 768 lb down and 564 lb up at 17-1-12, 1174 lb down and 819 lb up at 19-1-12, 426 lb down and 340 lb up at 20-3-12, 426 lb down and 340 lb up at 22-3-12, 426 lb down and 340 lb up at 24-3-12, 422 lb down and 335 lb up at 26-3-12, 422 lb down and 335 lb up at 28-3-12, 422 lb down and 335 lb up at 30-3-12, 422 lb down and 335 lb up at 32-3-12, 422 lb down and 335 lb up at 34-3-12, 422 lb down and 335 lb up at 36-3-12, 422 lb down and 335 lb up at 38-3-12, 422 lb down and 335 lb up at 40-3-12, 422 lb down and 335 lb up at 42-3-12, and 422 lb down and 335 lb up at 44-3-12, and 422 lb down and 335 lb up at 46-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-14=-54, 1-15=-20

Concentrated Loads (lb)

Vert: 27=-773(B) 22=-426(B) 21=-426(B) 20=-422(B) 19=-422(B) 18=-422(B) 17=-422(B) 16=-422(B) 29=-773(B) 34=-773(B) 35=-768(B) 36=-768(B) 37=-768(B) 38=-768(B) 39=-768(B) 40=-768(B) 41=-1174(B) 42=-426(B) 43=-422(B) 44=-422(B) 45=-422(B) 46=-422(B) 47=-422(B) 48=-422(B)

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Job 6240322	Truss H01	Truss Type Common Supported Gable	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959227
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

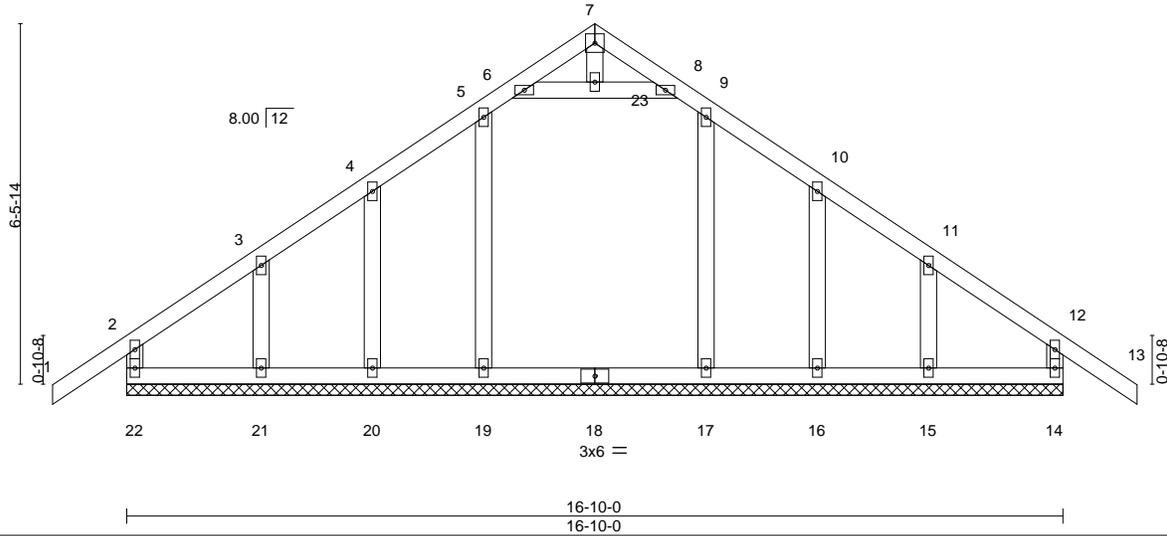
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:40 2024 Page 1

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4x4 =

Scale = 1:41.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	-0.01	13	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.14	Vert(CT)	-0.01	13	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 96 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

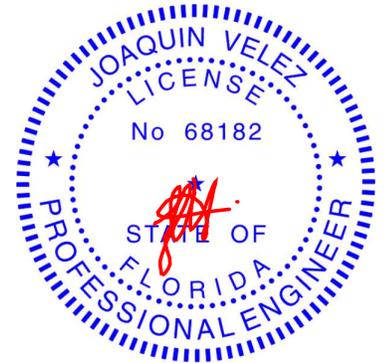
All bearings 16-10-0.
 (lb) - Max Horz 22=-206(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 16, 15 except 22=-112(LC 12), 14=-112(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 22, 14, 20, 21, 16, 15 except 19=345(LC 17), 17=331(LC 18)

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

TOP CHORD 5-6=-167/271, 8-9=-167/270
 WEBS 6-23=-118/256, 8-23=-118/256

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 16, 15 except (jt=lb) 22=112, 14=112.



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

May 23, 2024

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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959228
6240322	I01	Common Supported Gable	1	1		

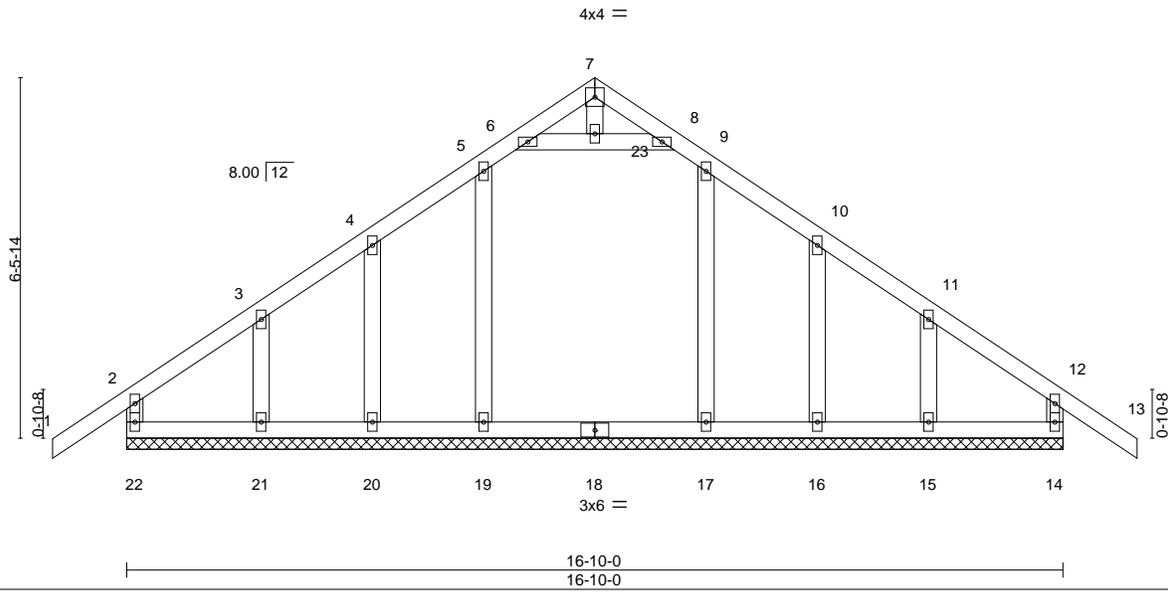
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:40 2024 Page 1

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Scale = 1:41.2



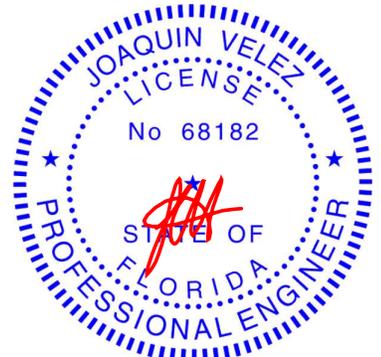
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.14	Vert(LL) -0.01 13 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Vert(CT) -0.01 13 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 14 n/a n/a	Weight: 96 lb	FT = 20%
	Code FBC2023/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 16-10-0.
 (lb) - Max Horz 22=206(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 16, 15 except 22=110(LC 12), 14=110(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 22, 14, 20, 21, 16, 15 except 19=344(LC 17), 17=330(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=166/268, 8-9=166/268
 WEBS 6-23=121/260, 8-23=121/260

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 16, 15 except (jt=lb) 22=110, 14=110.



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

May 23,2024

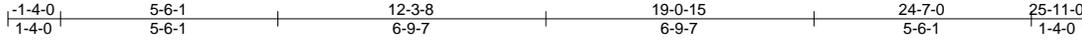
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6240322	Truss J01	Truss Type GABLE	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959229
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:41 2024 Page 1

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4x4 =

Scale = 1:58.1

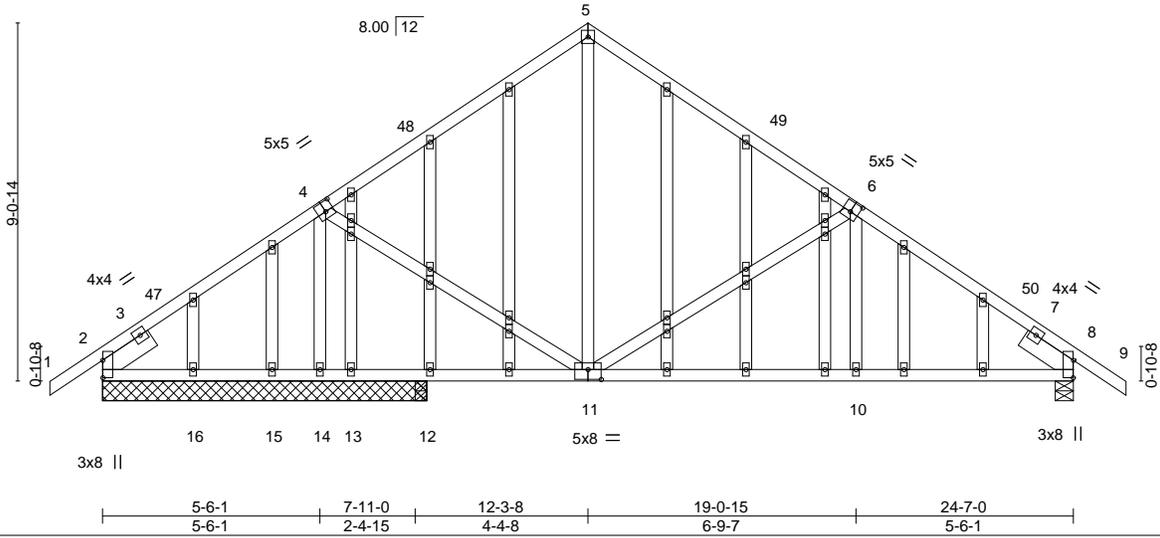


Plate Offsets (X,Y)-- [2:0-5-5,0-0-2], [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [8:0-5-5,0-0-2], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL)	-0.05	10-11	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.38	Vert(CT)	-0.12	10-11	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL)	0.03	10-11	>999		
							Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 10-11,8-10.

REACTIONS.

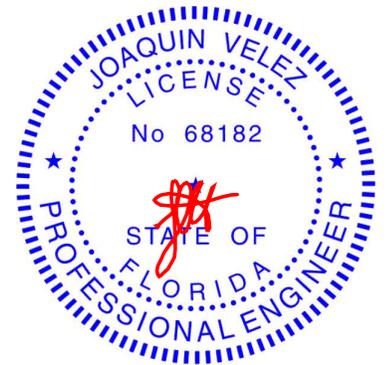
All bearings 8-2-8 except (jt=length) 8=0-5-8, 12=0-3-8, 12=0-3-8.
 (lb) - Max Horz 2=288(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 16 except 2=152(LC 12), 14=287(LC 12), 8=283(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 2, 13, 15, 16, 12, 2 except 14=860(LC 1), 8=755(LC 1)

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

TOP CHORD 4-5=-512/315, 5-6=-509/313, 6-8=-855/334
 BOT CHORD 10-11=-158/656, 8-10=-157/658
 WEBS 6-11=-454/265, 4-11=0/430, 4-14=-823/327

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 25-11-0 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16 except (jt=lb) 2=152, 14=287, 8=283, 2=152.



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

May 23,2024

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

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Job 6240322	Truss J02	Truss Type Common	Qty 5	Ply 1	Custom Made Job Reference (optional)	T33959230
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:42 2024 Page 1

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4x4 =

Scale = 1:53.7

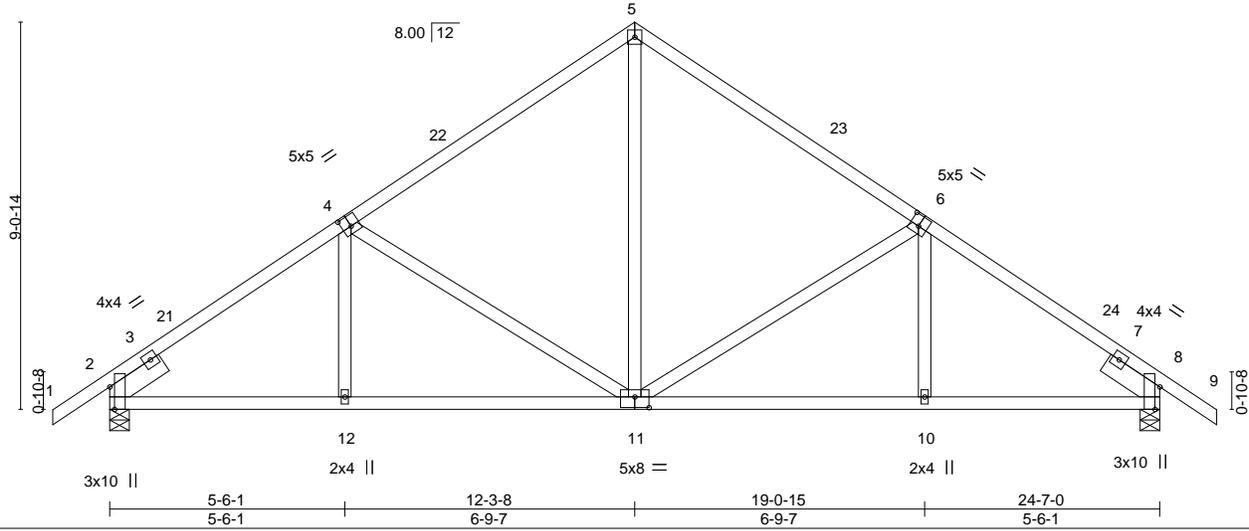


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [8:0-6-5,Edge], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.54	Vert(LL) -0.07	11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.58	Vert(CT) -0.15	11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.05	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.06	11-12	>999	240	Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

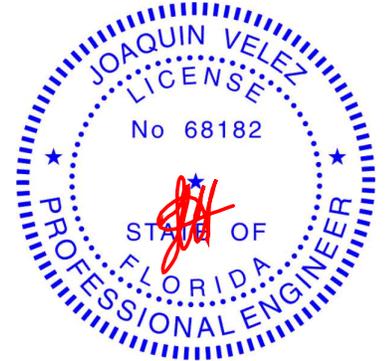
(size) 2=0-5-8, 8=0-5-8
 Max Horz 2=-288(LC 10)
 Max Uplift 2=-328(LC 12), 8=-328(LC 12)
 Max Grav 2=982(LC 1), 8=982(LC 1)

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

TOP CHORD 2-4=-1203/421, 4-5=-896/406, 5-6=-896/406, 6-8=-1203/421
 BOT CHORD 2-12=-205/1039, 11-12=-206/1038, 10-11=-227/938, 8-10=-226/939
 WEBS 5-11=-180/566, 6-11=-410/255, 4-11=-410/255

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 25-11-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 8=328.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 6240322	Truss J03	Truss Type Hip	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959231
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:43 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-?KQOYkAcxjLkN7dcad51aYbGZG7CL9p3G74M5PzDxOU

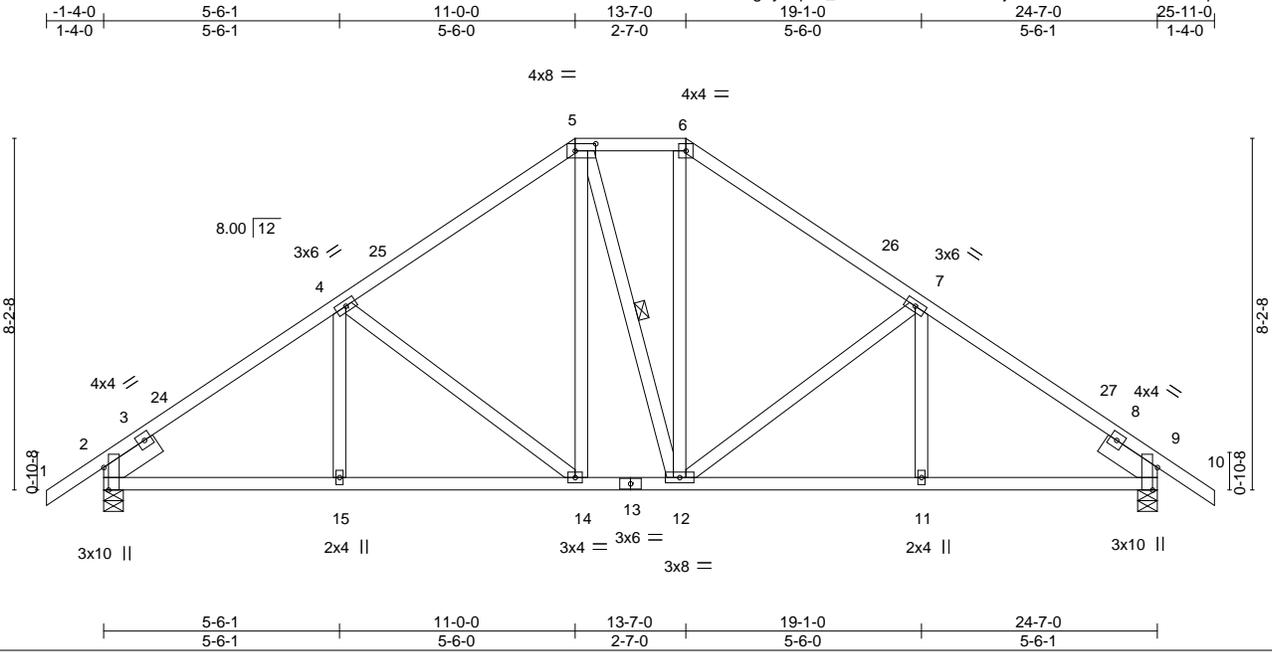


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [5:0-5-12,0-2-0], [9:0-6-5,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.50	Vert(LL) -0.06	14-15	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.54	Vert(CT) -0.13	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.05	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.05	14-15	>999	240	Weight: 158 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-12

REACTIONS.

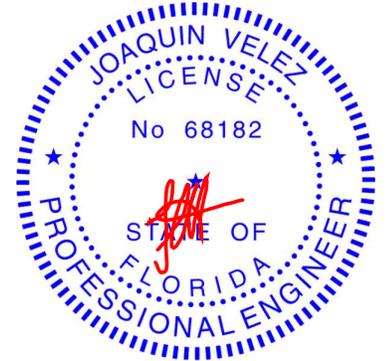
(size) 2=0-5-8, 9=0-5-8
 Max Horz 2=262(LC 11)
 Max Uplift 2=-328(LC 12), 9=-328(LC 12)
 Max Grav 2=982(LC 1), 9=982(LC 1)

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

TOP CHORD 2-4=-1196/404, 4-5=-932/409, 5-6=-708/406, 6-7=-933/402, 7-9=-1196/403
 BOT CHORD 2-15=-196/1014, 14-15=-196/1014, 12-14=-477/737, 11-12=-218/928, 9-11=-218/928
 WEBS 4-14=-352/208, 5-14=-80/290, 6-12=-90/286, 7-12=-351/207

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone3 11-0-0 to 13-7-0, Zone2 13-7-0 to 17-9-15, Zone1 17-9-15 to 25-11-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 9=328.



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

May 23,2024

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

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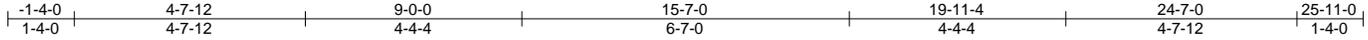
Job 6240322	Truss J04	Truss Type Hip	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959232
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:44 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-TW_mi4BE1Ub?GCo8LcG7m7QXgSA4edCVnqverzDxOT



Scale = 1:46.1

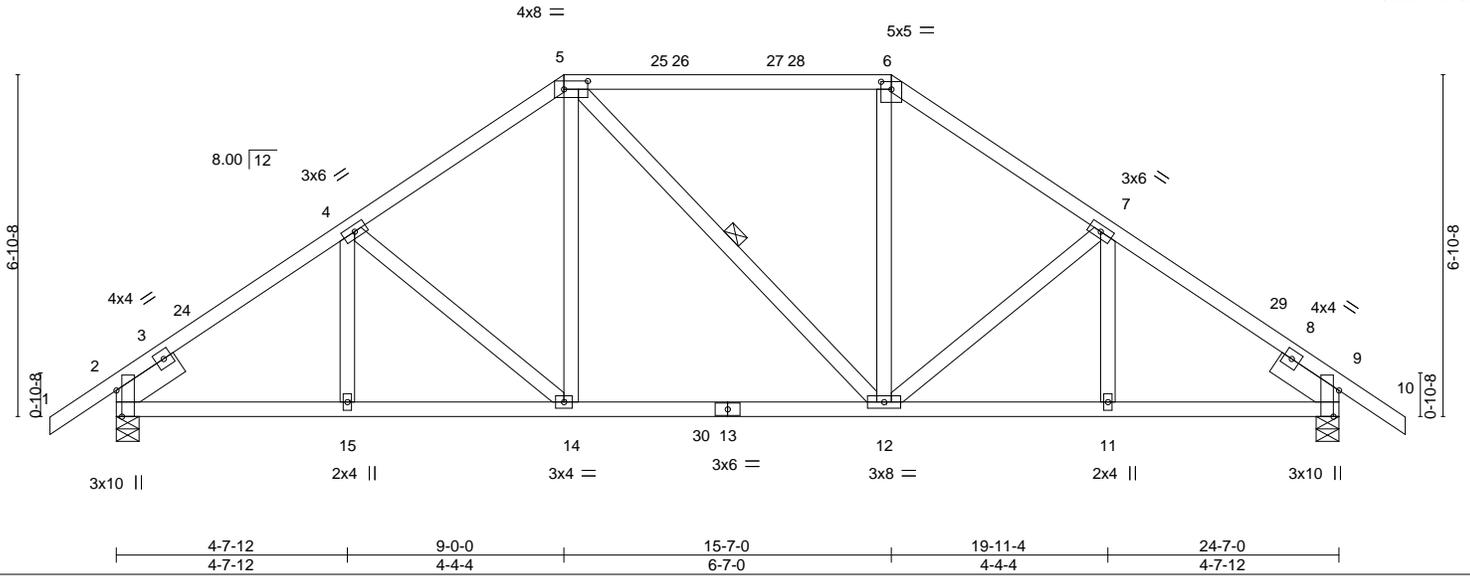


Plate Offsets (X,Y)-- [2:0-6-5,Edge], [5:0-5-12,0-2-0], [6:0-2-8,0-1-13], [9:0-6-5,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL) -0.08	12-14	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.62	Vert(CT) -0.15	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.05	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.05	11-12	>999	240	Weight: 149 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-12

REACTIONS.

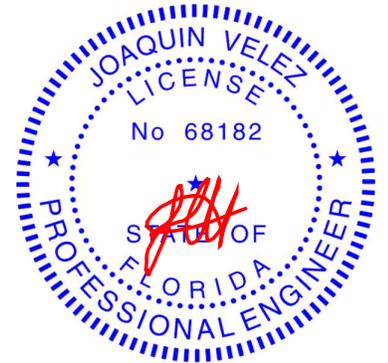
(size) 2=0-5-8, 9=0-5-8
 Max Horz 2=220(LC 11)
 Max Uplift 2=-328(LC 12), 9=-328(LC 12)
 Max Grav 2=1123(LC 17), 9=1117(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1349/406, 4-5=-1153/414, 5-6=-937/406, 6-7=-1143/414, 7-9=-1341/406
 BOT CHORD 2-15=-199/1200, 14-15=-199/1200, 12-14=-99/1027, 11-12=-227/1029, 9-11=-227/1029
 WEBS 5-14=-31/400, 6-12=-26/351

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-7-0, Zone2 15-7-0 to 19-11-4, Zone1 19-11-4 to 25-11-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 9=328.



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

May 23, 2024

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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959233
6240322	J05	Hip Girder	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:45 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-yjY8zQBstLcSdQn?h27VfzgY_4mXP2KMKRZTAHzDxOS



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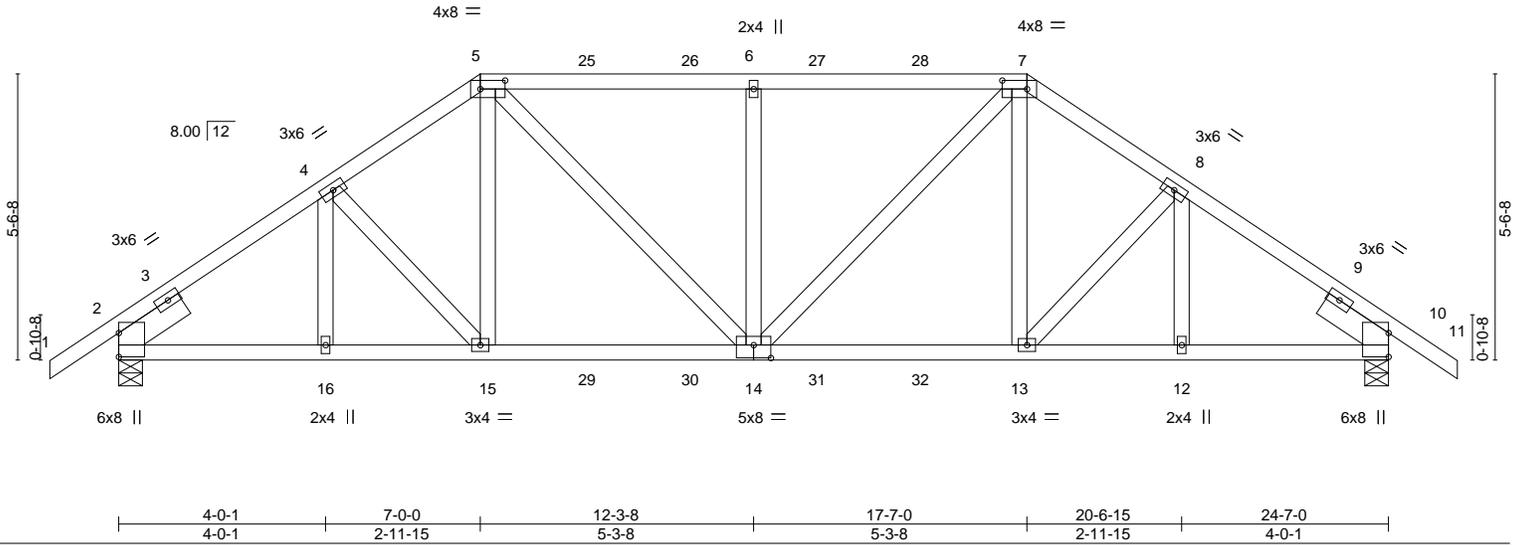


Plate Offsets (X,Y)-- [5:0-5-12,0-2-0], [7:0-5-12,0-2-0], [14:0-4-0,0-3-0]

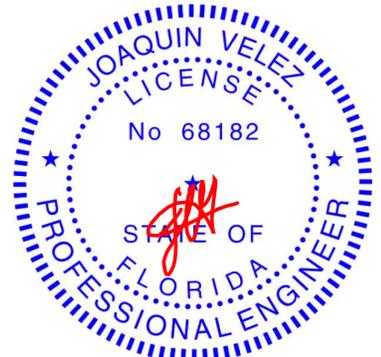
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.76	Vert(LL) -0.11 14 >999 360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.20 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.36	Horz(CT) 0.09 10 n/a n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Wind(LL) 0.15 14 >999 240	Weight: 154 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31 or 2x4 SP SS *Except* 5-7: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 6-11-6 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0	

REACTIONS. (size) 2=0-5-8, 10=0-5-8
 Max Horz 2=177(LC 26)
 Max Uplift 2=-914(LC 8), 10=-901(LC 8)
 Max Grav 2=-1936(LC 31), 10=-1926(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2566/1203, 4-5=-2619/1303, 5-6=-2694/1381, 6-7=-2694/1381, 7-8=-2603/1284, 8-10=-2552/1185
 BOT CHORD 2-16=-857/2124, 15-16=-857/2124, 14-15=-931/2272, 13-14=-883/2201, 12-13=-820/1980, 10-12=-820/1980
 WEBS 4-15=-338/420, 5-15=0/504, 5-14=-357/767, 6-14=-754/680, 7-14=-381/787, 7-13=0/489, 8-13=-336/419

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=914, 10=901.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 330 lb down and 381 lb up at 7-0-0, 163 lb down and 178 lb up at 9-0-12, 163 lb down and 178 lb up at 11-0-12, 163 lb down and 178 lb up at 12-3-8, 163 lb down and 178 lb up at 13-6-4, and 163 lb down and 178 lb up at 15-6-4, and 326 lb down and 371 lb up at 17-7-0 on top chord, and 329 lb down and 110 lb up at 7-0-0, 88 lb down at 9-0-12, 88 lb down at 11-0-12, 88 lb down at 12-3-8, 88 lb down at 13-6-4, and 88 lb down at 15-6-4, and 312 lb down and 90 lb up at 17-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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

May 23, 2024

LOAD CASE(S) Standard
 Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959233
6240322	J05	Hip Girder	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:45 2024 Page 2
 ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-yjY8zQBstLcSdQn?h27VfzgY_4mXP2KMKRZTAHzDxOS

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-7=-54, 7-11=-54, 17-21=-20

Concentrated Loads (lb)

Vert: 5=-210(B) 7=-202(B) 15=-316(B) 14=-54(B) 6=-115(B) 13=-286(B) 25=-115(B) 26=-115(B) 27=-115(B) 28=-115(B) 29=-54(B) 30=-54(B) 31=-54(B) 32=-54(B)

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

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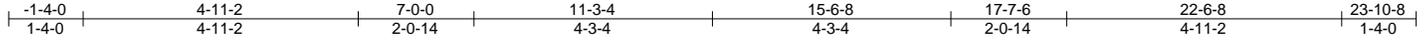
MiTek®

16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959234
6240322	K01	Hip Girder	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:46 2024 Page 1

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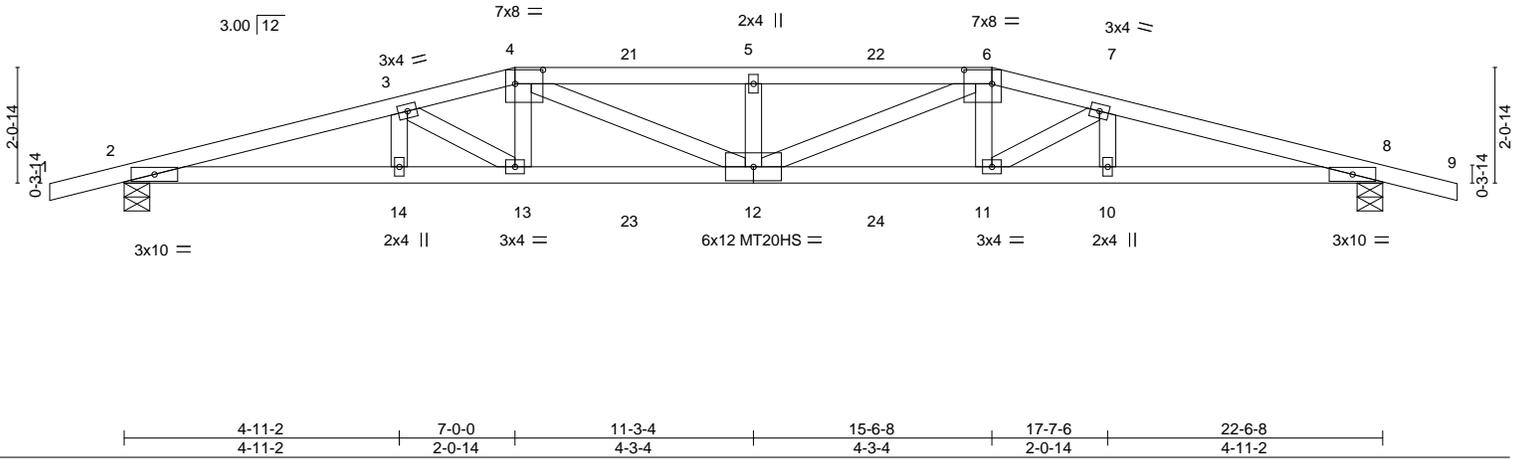


Plate Offsets (X,Y)-- [4:0-6-0,0-3-0], [6:0-6-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.89	Vert(LL) -0.43	12	>625	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.73	Vert(CT) -0.81	12	>335	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.26	Horz(CT) 0.15	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Wind(LL) 0.40	12	>669	240		
							Weight: 100 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-11-15 oc bracing.

REACTIONS.

(size) 2=0-5-8, 8=0-5-8
Max Horz 2=-32(LC 24)
Max Uplift 2=-477(LC 8), 8=-477(LC 8)
Max Grav 2=1788(LC 1), 8=1788(LC 1)

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

TOP CHORD 2-3=-6023/1362, 3-4=-5913/1340, 4-5=-6773/1537, 5-6=-6773/1537, 6-7=-5913/1340, 7-8=-6023/1362
BOT CHORD 2-14=-1265/5819, 13-14=-1265/5819, 12-13=-1219/5783, 11-12=-1219/5783, 10-11=-1265/5819, 8-10=-1265/5819
WEBS 3-13=-342/246, 4-13=-16/604, 4-12=-255/1143, 5-12=-571/335, 6-12=-255/1143, 6-11=-16/604, 7-11=-343/246

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=477, 8=477.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 203 lb up at 7-0-0, 108 lb down and 105 lb up at 9-0-12, 108 lb down and 105 lb up at 11-0-12, 108 lb down and 105 lb up at 11-5-12, and 108 lb down and 105 lb up at 13-5-12, and 210 lb down and 203 lb up at 15-6-8 on top chord, and 367 lb down and 42 lb up at 7-0-0, 82 lb down at 9-0-12, 82 lb down at 11-0-12, 82 lb down at 11-5-12, and 82 lb down at 13-5-12, and 367 lb down and 42 lb up at 15-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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

May 23, 2024

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Custom Made
6240322	K01	Hip Girder	1	1	T33959234

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:46 2024 Page 2
 ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-Qv6XAmCvEekJEaMBFfkCBDgft61YWBV5J0ikzDxOR

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 6-9=-54, 15-18=-20

Concentrated Loads (lb)

Vert: 4=-163(F) 6=-163(F) 13=-367(F) 12=-135(F) 5=-216(F) 11=-367(F) 21=-108(F) 22=-108(F) 23=-68(F) 24=-68(F)

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

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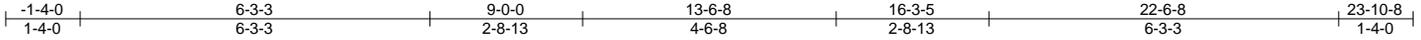
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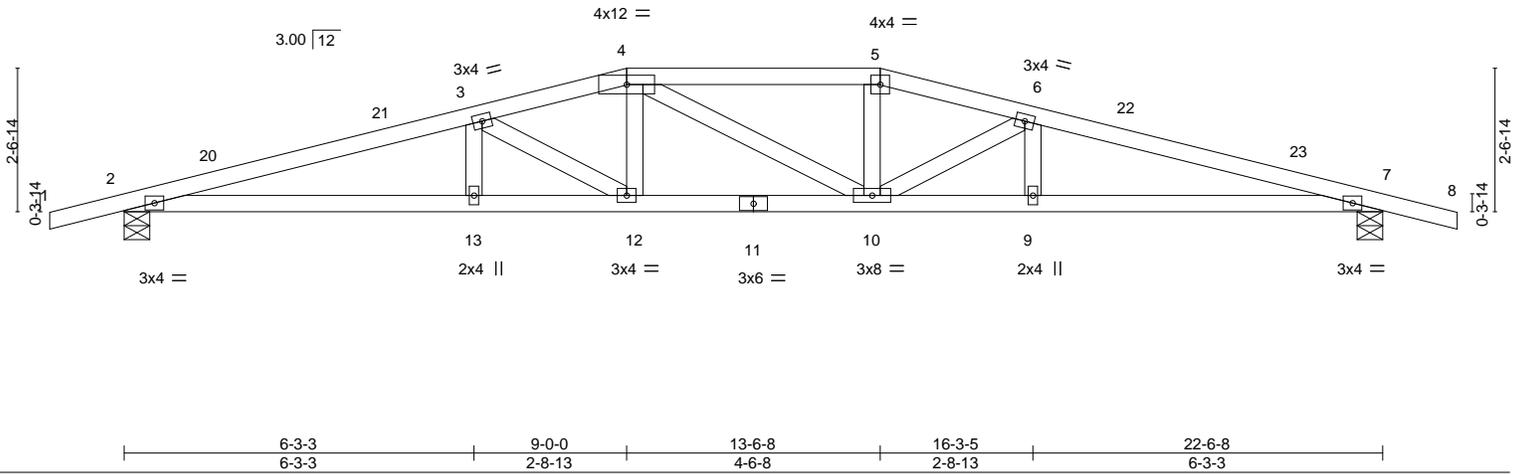
Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959235
6240322	K02	Hip	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:46 2024 Page 1

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Scale = 1:41.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.77	Vert(LL) -0.17 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.10	Vert(CT) -0.33 10-12 >819 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 7 n/a n/a		
	Code FBC2023/TPI2014		Wind(LL) 0.18 10-12 >999 240	Weight: 97 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-3-1 oc bracing.

REACTIONS.

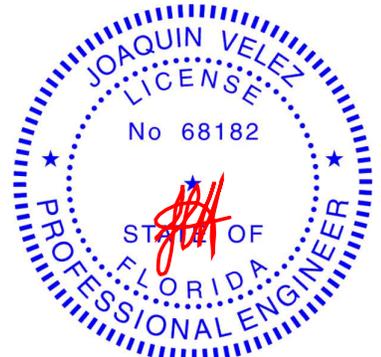
(size) 2=0-5-8, 7=0-5-8
 Max Horz 2=-38(LC 9)
 Max Uplift 2=-307(LC 12), 7=-307(LC 12)
 Max Grav 2=906(LC 1), 7=906(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2517/1280, 3-4=-2043/1093, 4-5=-1980/1125, 5-6=-2043/1137, 6-7=-2517/1321
 BOT CHORD 2-13=-1175/2420, 12-13=-1175/2420, 10-12=-939/1979, 9-10=-1222/2419,
 7-9=-1222/2419
 WEBS 3-12=-538/276, 4-12=-92/320, 5-10=-74/321, 6-10=-537/273

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone3 9-0-0 to 13-6-8, Zone2 13-6-8 to 17-9-7, Zone1 17-9-7 to 23-10-8 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=307, 7=307.



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

May 23, 2024

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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959236
6240322	K03	Hip	1	1		

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:47 2024 Page 1

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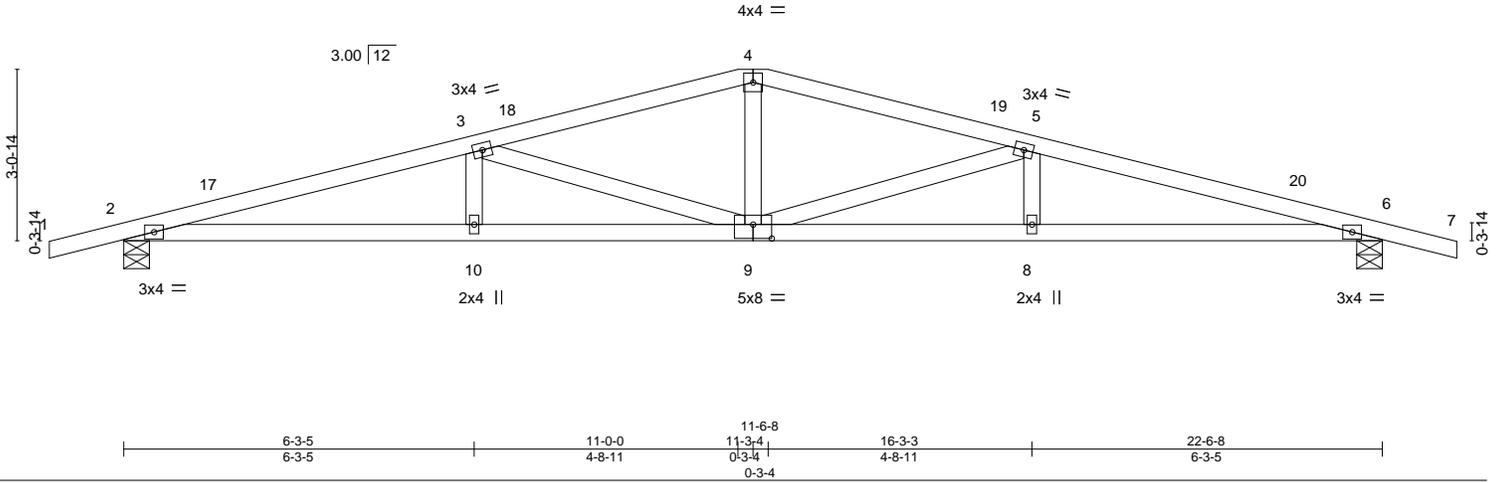
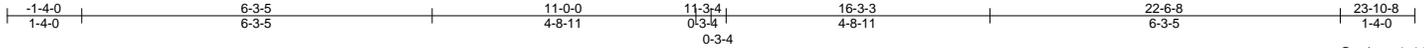


Plate Offsets (X,Y)-- [9:0-4-0-0-3-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	Vert(LL) -0.17	9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.76	Vert(CT) -0.32	9-10	>841	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.08	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.17	9	>999	240	Weight: 95 lb	FT = 20%

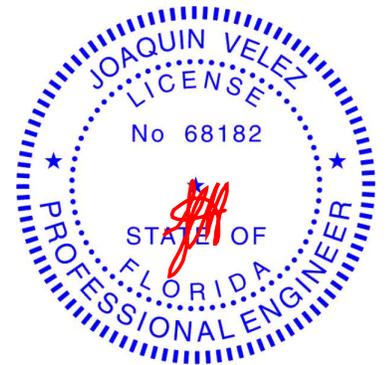
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-2-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-11-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
 Max Horz 2=-43(LC 9)
 Max Uplift 2=-307(LC 12), 6=-307(LC 12)
 Max Grav 2=906(LC 1), 6=906(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2531/1070, 3-4=-1775/785, 4-5=-1775/785, 5-6=-2531/1069
 BOT CHORD 2-10=-974/2435, 9-10=-974/2435, 8-9=-982/2435, 6-8=-982/2435
 WEBS 3-9=-813/377, 5-9=-813/377, 4-9=-144/578

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-3-4, Zone2 11-3-4 to 15-6-3, Zone1 15-6-3 to 23-10-8 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=307, 6=307.



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

May 23,2024

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MiTek®

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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959237
6240322	K04	Common	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:47 2024 Page 1

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Job Reference (optional)



Scale = 1:40.4

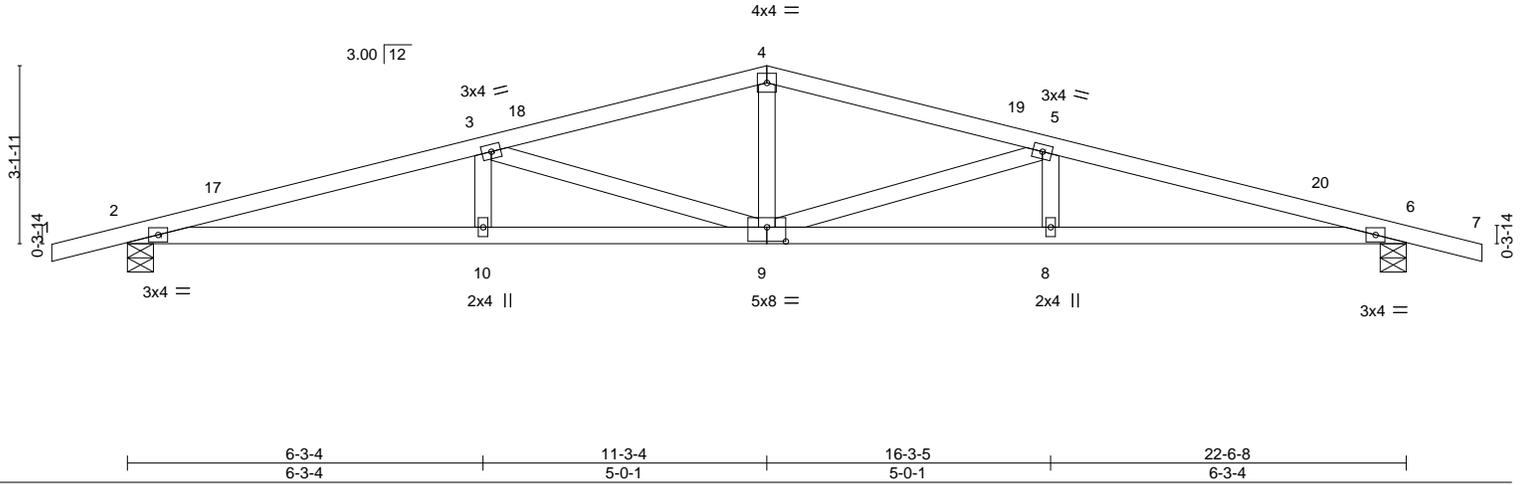


Plate Offsets (X,Y)--	[9:0-4-0-0-3-0]
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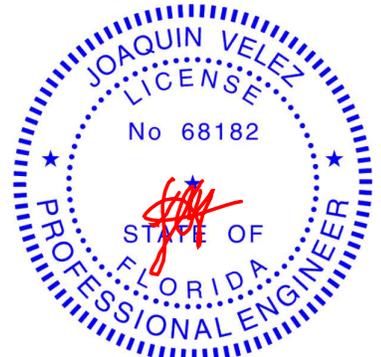
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	Vert(LL) -0.17	9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.76	Vert(CT) -0.32	9-10	>842	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.08	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.17	9	>999	240	Weight: 95 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-7 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-11-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-5-8, 6=0-5-8
 Max Horz 2=44(LC 8)
 Max Uplift 2=-307(LC 12), 6=-307(LC 12)
 Max Grav 2=906(LC 1), 6=906(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2531/1071, 3-4=-1758/779, 4-5=-1758/779, 5-6=-2531/1071
 BOT CHORD 2-10=-965/2435, 9-10=-965/2435, 8-9=-984/2435, 6-8=-984/2435
 WEBS 4-9=-151/590, 5-9=-829/387, 3-9=-829/387

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-3-4, Zone2 11-3-4 to 15-6-3, Zone1 15-6-3 to 23-10-8 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=307, 6=307.



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

May 23,2024

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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959238
6240322	K05	COMMON	3	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:48 2024 Page 1

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Job Reference (optional)



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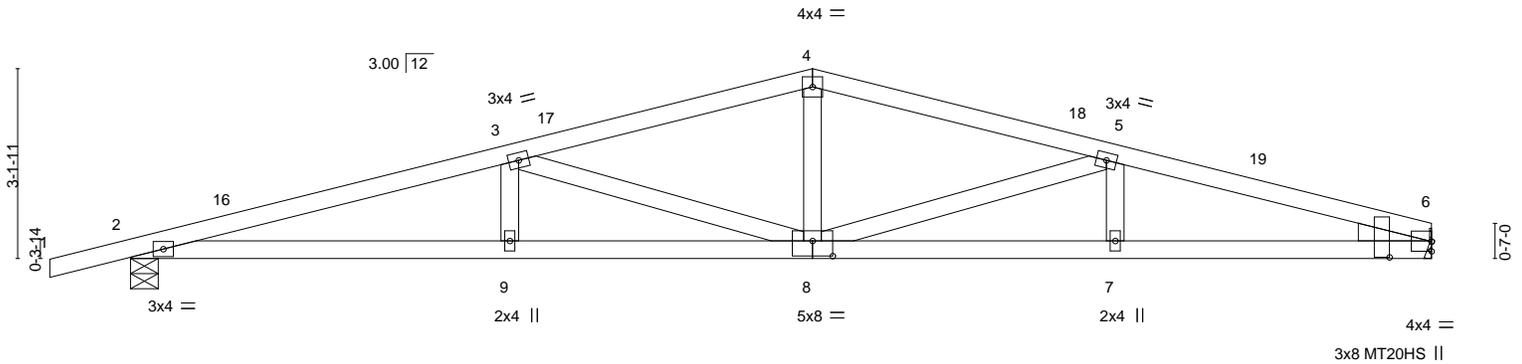


Plate Offsets (X,Y)-- [6:0-3-2,0-8-5], [6:0-0-0,0-1-15], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL) -0.14	9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.73	Vert(CT) -0.27	7-8	>970	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.06	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Wind(LL) 0.14	9	>999	240		
							Weight: 91 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-9-6 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=Mechanical
 Max Horz 2=57(LC 8)
 Max Uplift 2=298(LC 12), 6=221(LC 12)
 Max Grav 2=870(LC 1), 6=793(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2384/1100, 3-4=-1620/783, 4-5=-1616/795, 5-6=-2060/987
 BOT CHORD 2-9=-1029/2292, 8-9=-1029/2292, 7-8=-890/1967, 6-7=-890/1967
 WEBS 4-8=-147/503, 5-8=-528/260, 3-8=-822/402

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-3-4, Zone2 11-3-4 to 15-6-3, Zone1 15-6-3 to 21-6-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=298, 6=221.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 6240322	Truss K06	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959239
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:48 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-MHDHbREImG_0UuVaNAhCHcl5XHna0OMoQPo7nczDxOP



Scale = 1:39.0

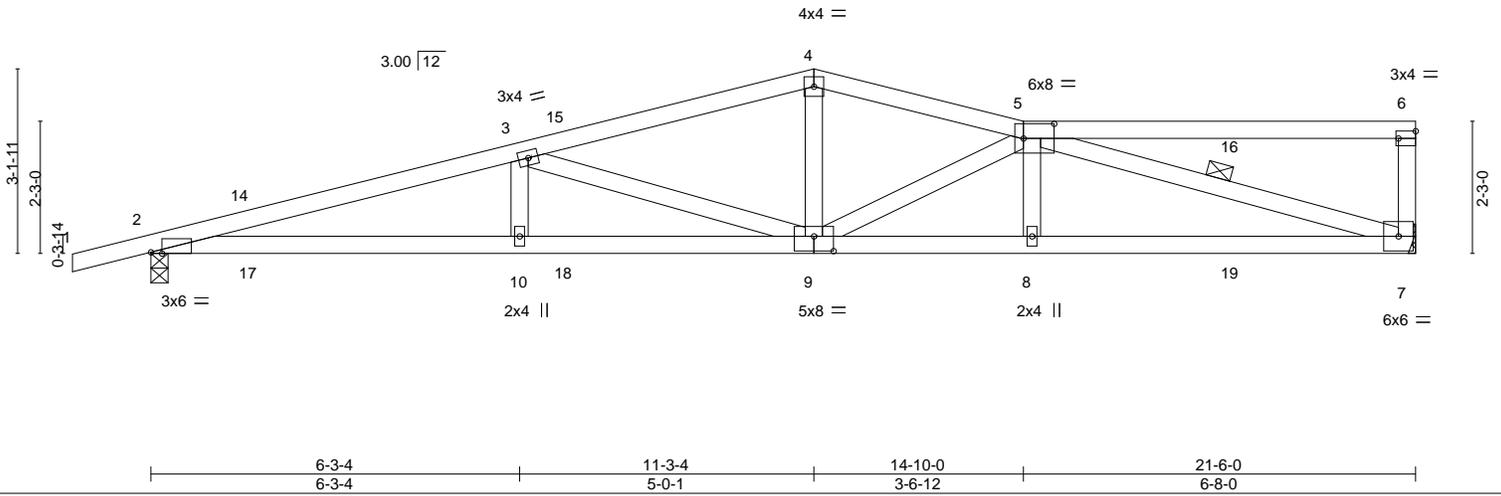


Plate Offsets (X,Y)--	[2:0-2-4,Edge], [5:0-6-4,0-3-0], [6:Edge,0-1-8], [9:0-4-0,0-3-0]
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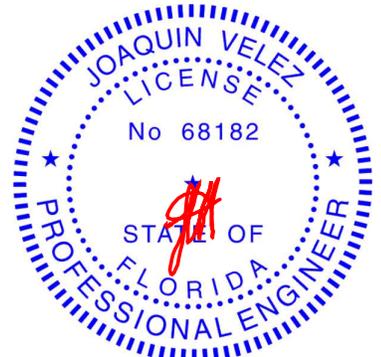
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.72	Vert(LL) -0.14 10 >999 360		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.41	Vert(CT) -0.27 9-10 >959 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 7 n/a n/a		
	Code FBC2023/TPI2014		Wind(LL) 0.26 9-10 >970 240	Weight: 100 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-9-10 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=Mechanical, 2=0-3-8
 Max Horz 2=103(LC 8)
 Max Uplift 7=-539(LC 12), 2=-609(LC 12)
 Max Grav 7=788(LC 1), 2=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2370/2173, 3-4=-1580/1540, 4-5=-1568/1527
 BOT CHORD 2-10=-2181/2279, 9-10=-2181/2279, 8-9=-1820/1865, 7-8=-1827/1872
 WEBS 3-9=-840/789, 4-9=-519/540, 5-9=-467/433, 5-7=-1857/1828

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-3-4, Zone3 11-3-4 to 14-10-0, Zone1 14-10-0 to 21-4-4 zone; cantilever left and right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=539, 2=609.



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

May 23, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6240322	Truss K07	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959240
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:49 2024 Page 1
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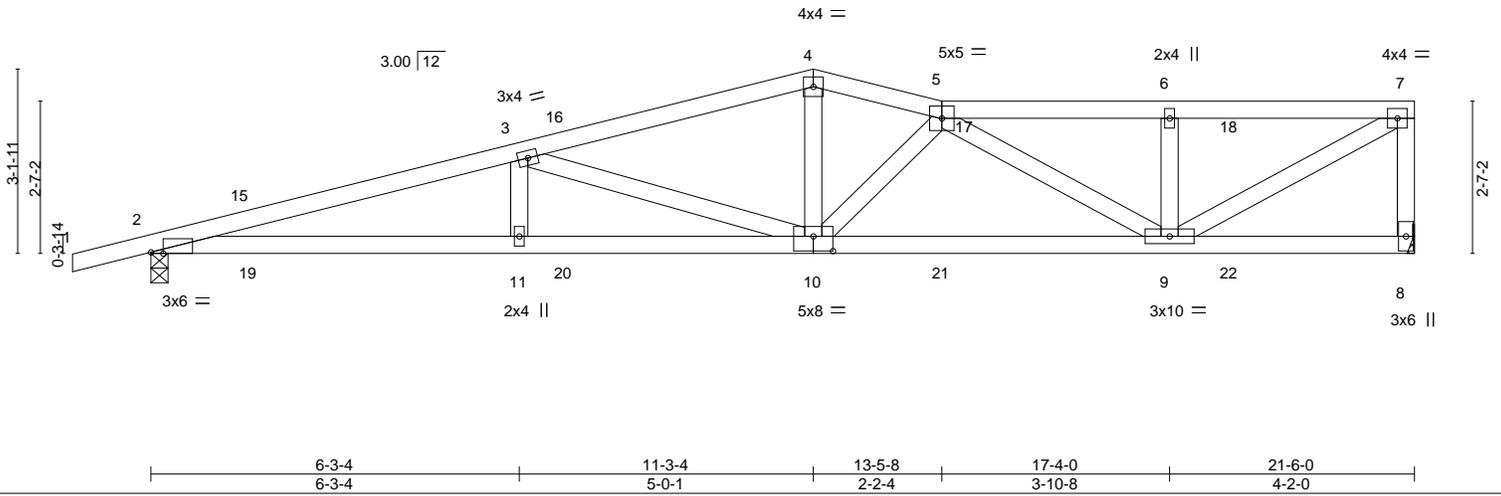


Plate Offsets (X,Y)--	[2:0-2-8,Edge], [10:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL) -0.13	11	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.24	11-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.06	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.24	11-14	>999	240	Weight: 103 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-9-8 oc bracing.

REACTIONS.

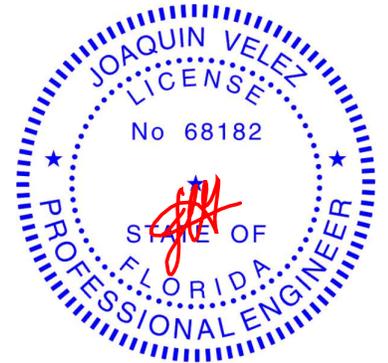
(size) 8=Mechanical, 2=0-3-8
Max Horz 2=115(LC 12)
Max Uplift 8=-541(LC 12), 2=-608(LC 12)
Max Grav 8=788(LC 1), 2=864(LC 1)

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

TOP CHORD 2-3=-2367/2163, 3-4=-1587/1484, 4-5=-1560/1502, 5-6=-1166/1116, 6-7=-1166/1116, 7-8=-752/765
BOT CHORD 2-11=-2187/2276, 10-11=-2187/2276, 9-10=-1590/1688
WEBS 3-10=-825/773, 4-10=-519/555, 5-10=-305/249, 5-9=-607/595, 7-9=-1252/1318

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 1-4-0 to 1-8-0, Zone1 1-8-0 to 11-3-4, Zone3 11-3-4 to 13-5-8, Zone1 13-5-8 to 21-4-4 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=541, 2=608.



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

May 23, 2024

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

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Job 6240322	Truss K08	Truss Type HALF HIP	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959241
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:50 2024 Page 1

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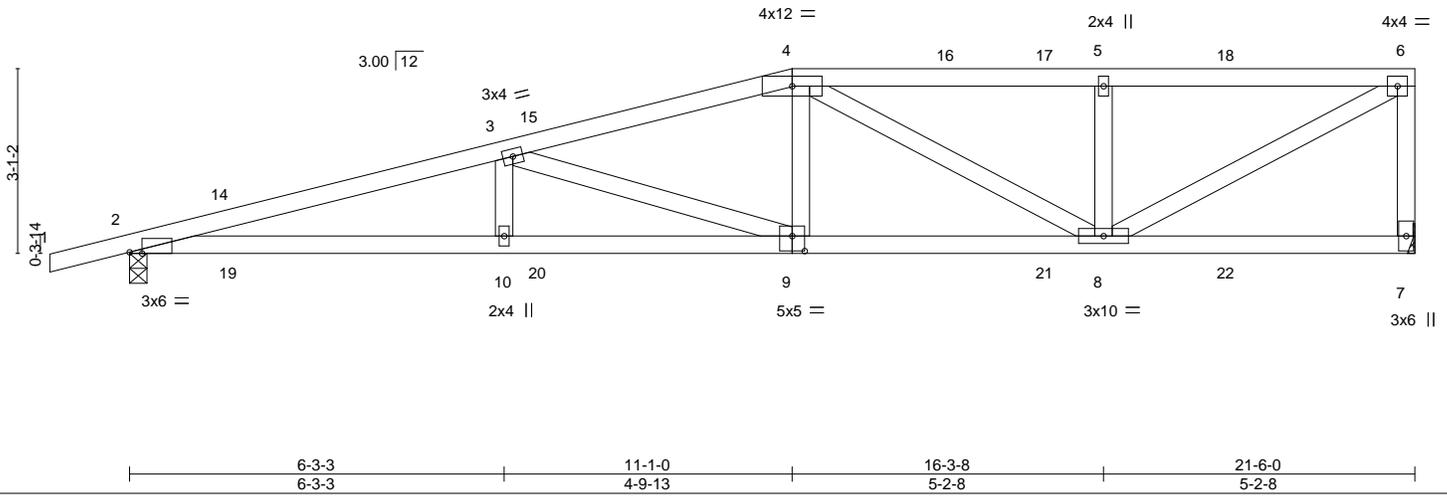


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [9:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.54	Vert(LL) -0.12	10	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.73	Vert(CT) -0.23	10-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.05	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.23	10-13	>999	240	Weight: 103 lb	FT = 20%

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

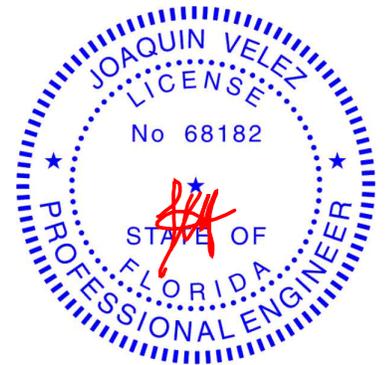
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 3-9-7 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-8
 Max Horz 2=135(LC 12)
 Max Uplift 7=-543(LC 12), 2=-606(LC 12)
 Max Grav 7=788(LC 1), 2=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2365/2144, 3-4=-1609/1477, 4-5=-1149/1069, 5-6=-1149/1069, 6-7=-739/717
 BOT CHORD 2-10=-2191/2274, 9-10=-2191/2274, 8-9=-1466/1527
 WEBS 3-9=-786/764, 4-9=-352/374, 4-8=-429/450, 5-8=-318/266, 6-8=-1200/1283

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-1-0, Zone2 11-1-0 to 15-3-15, Zone1 15-3-15 to 21-4-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=543, 2=606.



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

May 23, 2024

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16023 Swingley Ridge Rd.
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Job 6240322	Truss K09	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959242
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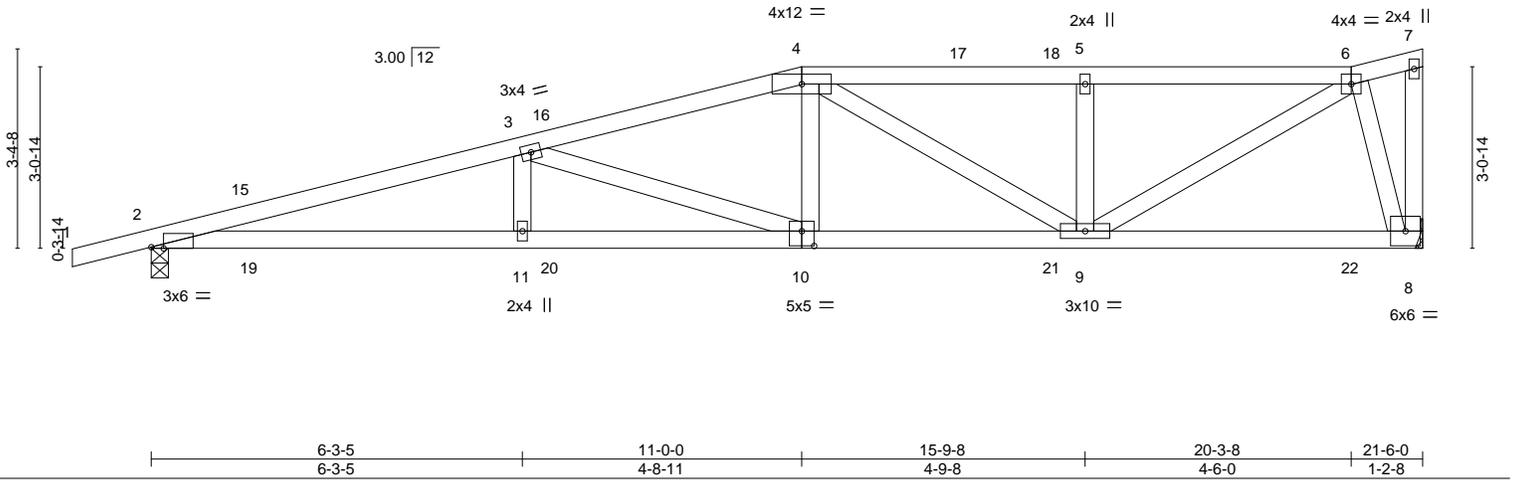
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:50 2024 Page 1

ID:hhuEHMS9WugZyGq6sr_tLzGdXv-IgLL107F?ItEkjBfyUbjgM1NRD5T_UH15tiHrVzDxON



Scale = 1:38.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.73	Vert(LL) -0.12 11 >999 360		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.51	Vert(CT) -0.23 11-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 8 n/a n/a		
	Code FBC2023/TPI2014		Wind(LL) 0.23 11-14 >999 240	Weight: 106 lb	FT = 20%

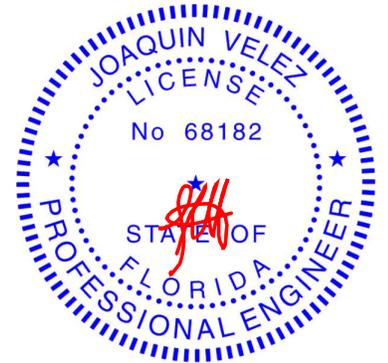
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-3-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 3-9-8 oc bracing.

REACTIONS. (size) 8=Mechanical, 2=0-3-8
 Max Horz 2=145(LC 12)
 Max Uplift 8=-544(LC 12), 2=-604(LC 12)
 Max Grav 8=788(LC 1), 2=864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2364/2114, 3-4=-1616/1454, 4-5=-1221/1132, 5-6=-1221/1132
 BOT CHORD 2-11=-2180/2273, 10-11=-2180/2273, 9-10=-1462/1534, 8-9=-261/292
 WEBS 3-10=-779/758, 4-10=-343/358, 4-9=-363/411, 5-9=-280/248, 6-9=-1040/1091,
 6-8=-788/697

- 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 21-4-4 zone; cantilever left and right exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=544, 2=604.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job 6240322	Truss K10	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959243
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:51 2024 Page 1

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Scale = 1:38.8

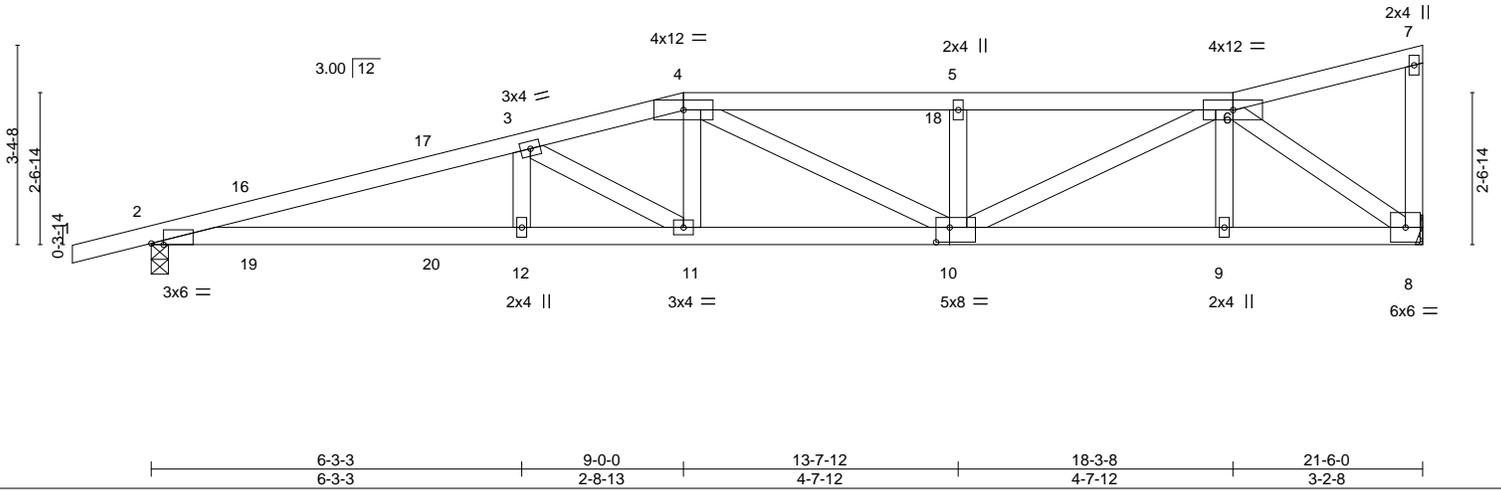


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [10:0-2-12,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.57	Vert(LL) -0.12	11	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT) -0.23	12-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.06	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.23	12-15	>999	240	Weight: 105 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 3-8-12 oc bracing.

REACTIONS.

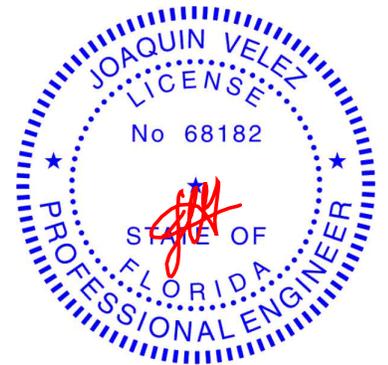
(size) 8=Mechanical, 2=0-3-8
 Max Horz 2=145(LC 12)
 Max Uplift 8=-544(LC 12), 2=-604(LC 12)
 Max Grav 8=788(LC 1), 2=864(LC 1)

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

TOP CHORD 2-3=-2353/2139, 3-4=-1869/1701, 4-5=-1760/1608, 5-6=-1778/1624
 BOT CHORD 2-12=-2216/2261, 11-12=-2216/2261, 10-11=-1742/1810, 9-10=-872/938, 8-9=-866/933
 WEBS 3-11=-539/566, 4-11=-340/319, 5-10=-283/249, 6-10=-905/931, 6-8=-1152/1066

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 21-4-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=544, 2=604.



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

May 23, 2024

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

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MiTek®

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

Job 6240322	Truss K11	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959244
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:51 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tIzGdXv-msvQDTGd2BMbLLE82JEVvEwdVUoQDdIE6M0nNxzDxOM



Scale = 1:38.8

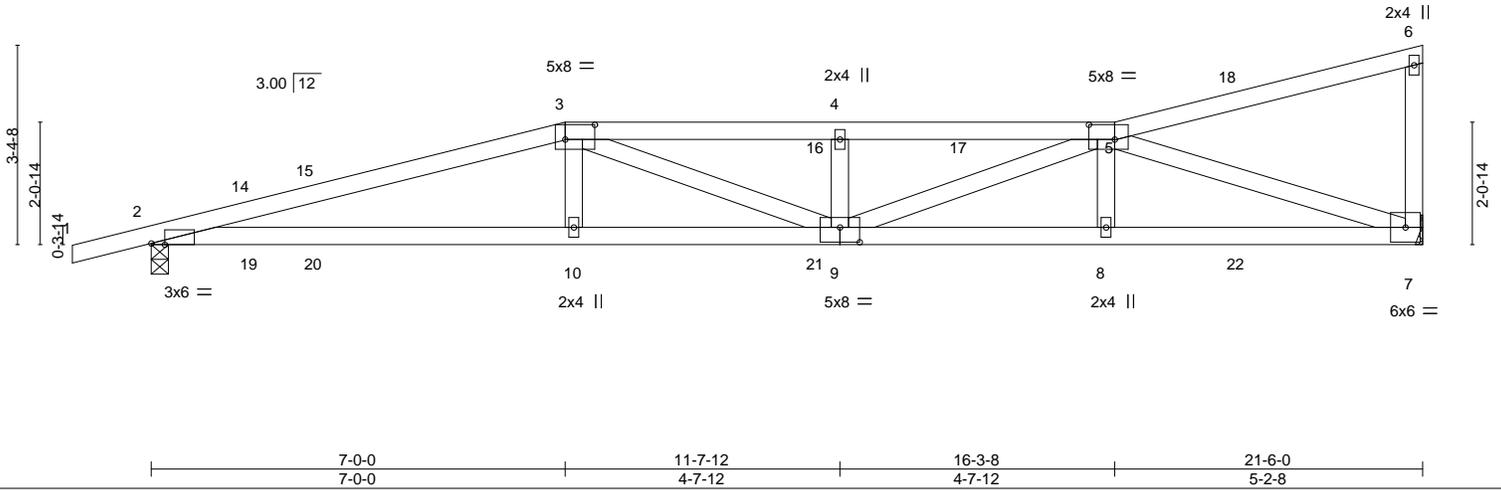


Plate Offsets (X,Y)-- [2:0-2-12,Edge], [3:0-6-0,0-3-0], [5:0-5-4,0-3-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.50	Vert(LL) -0.15	9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.78	Vert(CT) -0.29	9	>893	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Horz(CT) 0.07	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.28	10-13	>901	240	Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-7-14 oc bracing.

REACTIONS.

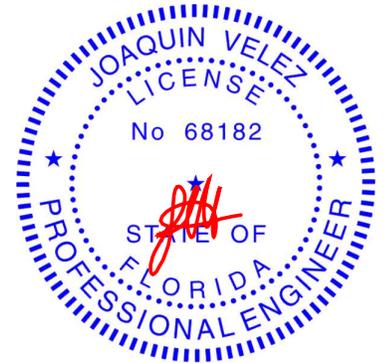
(size) 7=Mechanical, 2=0-3-8
Max Horz 2=145(LC 12)
Max Uplift 7=544(LC 12), 2=604(LC 12)
Max Grav 7=788(LC 1), 2=864(LC 1)

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

TOP CHORD 2-3=-2255/2015, 3-4=-2374/2144, 4-5=-2374/2144
BOT CHORD 2-10=-2076/2161, 9-10=-2091/2174, 8-9=-1575/1758, 7-8=-1565/1750
WEBS 3-10=-180/256, 4-9=-252/226, 5-9=-684/659, 5-7=-1823/1624

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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 21-4-4 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=544, 2=604.



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

May 23, 2024

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

Job 6240322	Truss K12	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959245
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:52 2024 Page 1

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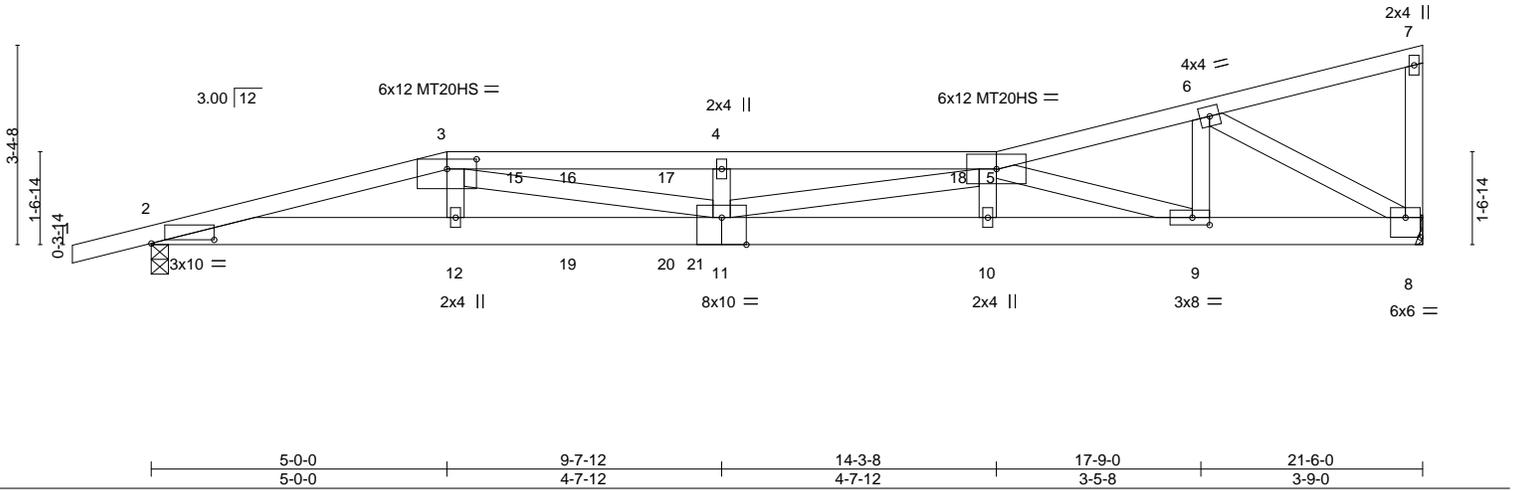


Plate Offsets (X,Y)-- [2:1-0-12,0-0-12], [3:0-6-0,0-2-0], [8:0-3-0,0-4-0], [9:0-3-8,0-1-8], [11:0-5-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.99	Vert(LL) -0.41	11	>617	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.64	Vert(CT) -0.75	11	>339	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.93	Horz(CT) 0.08	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.69	11	>369	240		
							Weight: 118 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 8=Mechanical, 2=0-3-8
Max Horz 2=147(LC 23)
Max Uplift 8=-799(LC 8), 2=-1035(LC 8)
Max Grav 8=1194(LC 1), 2=1573(LC 1)

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

TOP CHORD 2-3=-5481/3459, 3-4=-7053/4557, 4-5=-7053/4557, 5-6=-1959/1235
BOT CHORD 2-12=-3440/5295, 11-12=-3482/5365, 10-11=-3568/5429, 9-10=-3556/5413,
8-9=-1252/1883
WEBS 3-12=-344/581, 3-11=-1185/1743, 4-11=-314/196, 5-11=-1223/1677, 5-9=-3735/2437,
6-9=-873/1311, 6-8=-2148/1428

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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=799, 2=1035.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 135 lb up at 5-0-0, and 57 lb down and 88 lb up at 7-0-12, and 57 lb down and 88 lb up at 8-8-12 on top chord, and 223 lb down and 179 lb up at 5-0-0, 45 lb down and 68 lb up at 7-0-12, and 45 lb down and 68 lb up at 8-8-12, and 639 lb down and 453 lb up at 9-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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



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

May 23, 2024

Continued on page 2

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959245
6240322	K12	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:52 2024 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-3=-54, 3-5=-54, 5-7=-54, 2-8=-20
- Concentrated Loads (lb)
 - Vert: 3=-57(B) 12=-223(B) 16=-57(B) 17=-57(B) 19=-42(B) 20=-42(B) 21=-639(B)

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

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MiTek®

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

Job 6240322	Truss KJ1	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959246
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Tibbetts Lumber Co., LLC (Ocala, FL),

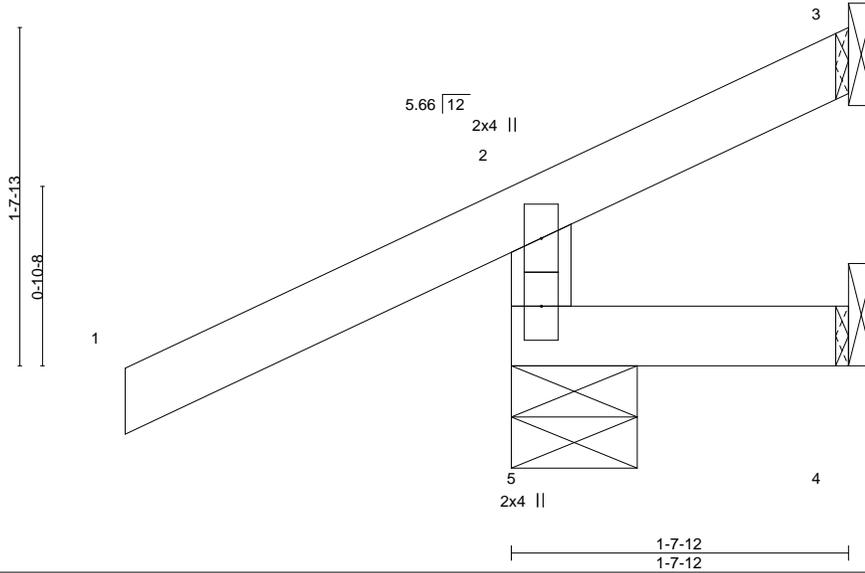
Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:52 2024 Page 1

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Scale = 1:11.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR	Wind(LL)	-0.00	5	>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 1-7-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-7-6, 4=Mechanical, 3=Mechanical
 Max Horz 5=89(LC 8)
 Max Uplift 5=176(LC 8), 4=-34(LC 19), 3=-158(LC 19)
 Max Grav 5=240(LC 1), 4=26(LC 27), 3=152(LC 27)

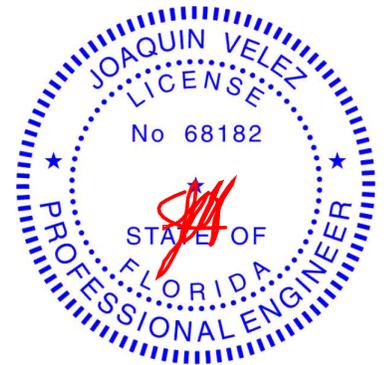
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=176, 3=158.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 73 lb up at 1-7-10, and 67 lb down and 73 lb up at 1-7-10 on top chord, and 4 lb down and 13 lb up at 1-7-10, and 4 lb down and 13 lb up at 1-7-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-3=-54, 4-5=-20
 Concentrated Loads (lb)
 Vert: 3=37(F=19, B=19)



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

May 23, 2024

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MiTek®

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Job 6240322	Truss KJ2A	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959247
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Tibbetts Lumber Co LLC, Ocala, FL 34472

8.730 s Nov 16 2023 MiTek Industries, Inc. Thu May 23 15:56:02 2024 Page 1
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Scale = 1:10.5

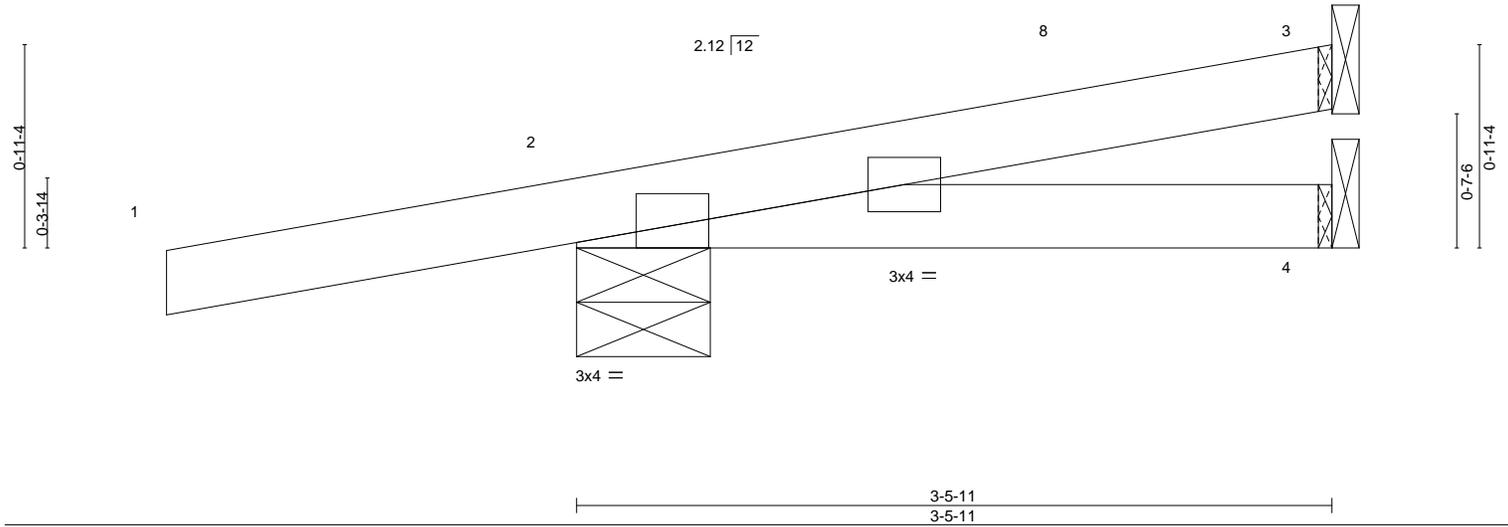


Plate Offsets (X,Y)-- [2:0-3-5,Edge]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	TC	in (loc)	l/defl	L/d	MT20	244/190	
TCLL 20.0	Plate Grip DOL	1.25	0.50	Vert(LL)	-0.00	7 >999			
TCDL 7.0	Lumber DOL	1.25	0.11	Vert(CT)	-0.01	7 >999			
BCLL 0.0 *	Rep Stress Incr	NO	0.00	Horz(CT)	0.00	4 n/a			
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP	Wind(LL)	0.01	7 >999			
							Weight: 13 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

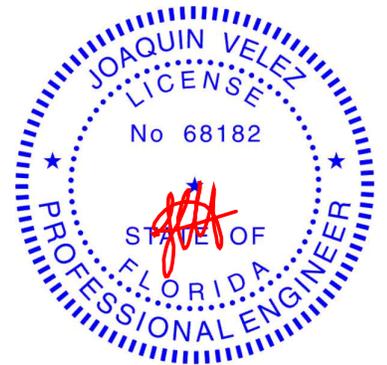
REACTIONS. (lb/size) 3=62/Mechanical, 2=256/0-7-6 (min. 0-1-8), 4=36/Mechanical
Max Horz 2=49(LC 8)
Max Uplift 3=-25(LC 8), 2=-180(LC 8)
Max Grav 3=62(LC 1), 2=256(LC 1), 4=52(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C 2-4-5 to 3-4-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3 and 180 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:

May 23, 2024

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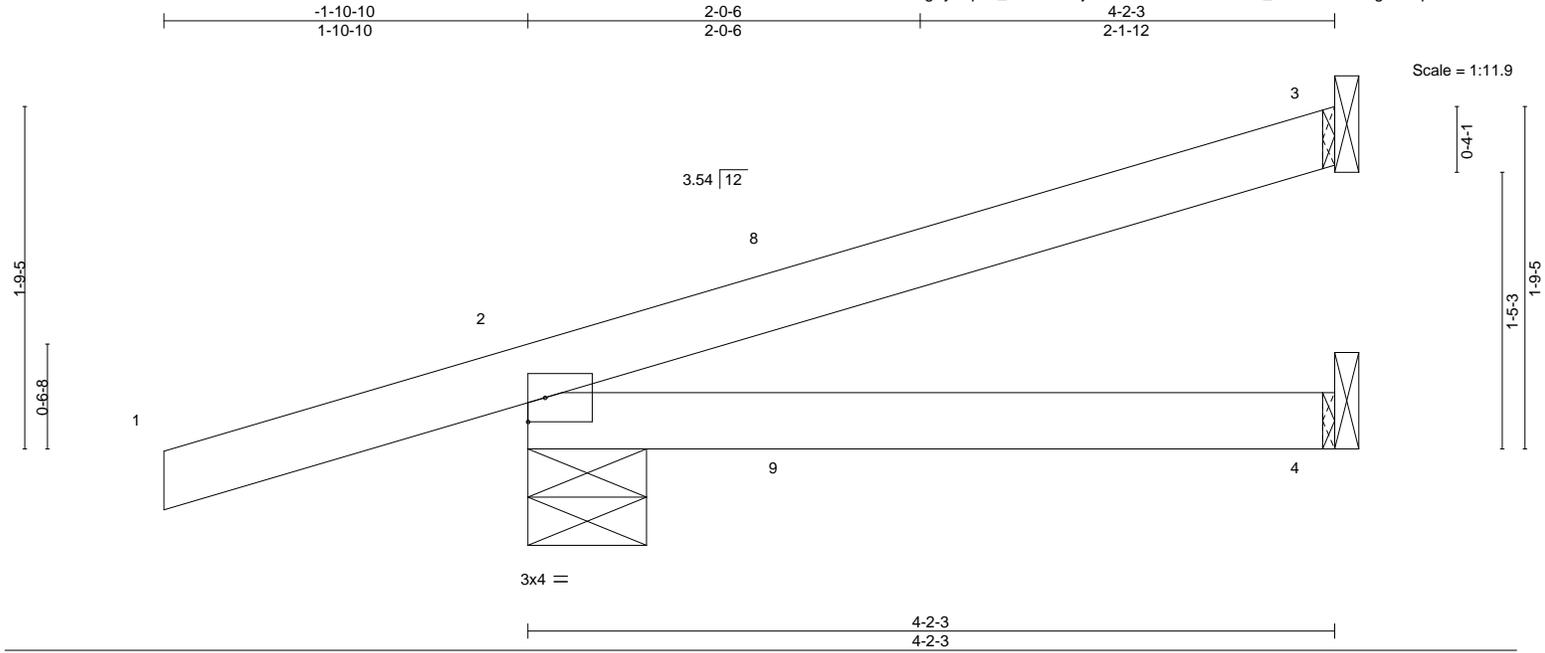
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959248
6240322	KJ3A	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:53 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-jF1Ae9luocJafOX9kHN_f?1EldAhixXZgVuSqDxOK



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL) 0.02	4-7	>999	360		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Vert(CT) -0.03	4-7	>999	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.01	2	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP	Wind(LL) -0.03	4-7	>999	240			
								Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

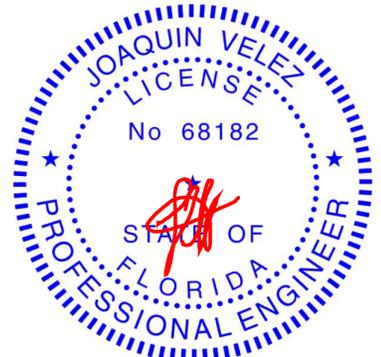
REACTIONS. (size) 3=Mechanical, 2=0-7-6, 4=Mechanical
 Max Horz 2=85(LC 8)
 Max Uplift 3=51(LC 8), 2=-159(LC 8)
 Max Grav 3=90(LC 1), 2=277(LC 1), 4=73(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=159.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 58 lb up at 1-4-15, and 76 lb down and 58 lb up at 1-4-15 on top chord, and 25 lb down and 14 lb up at 1-4-15, and 25 lb down and 14 lb up at 1-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 4-5=-20



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

May 23, 2024

Job 6240322	Truss KJ4	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959249
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Tibbetts Lumber Co., LLC (Ocala, FL),

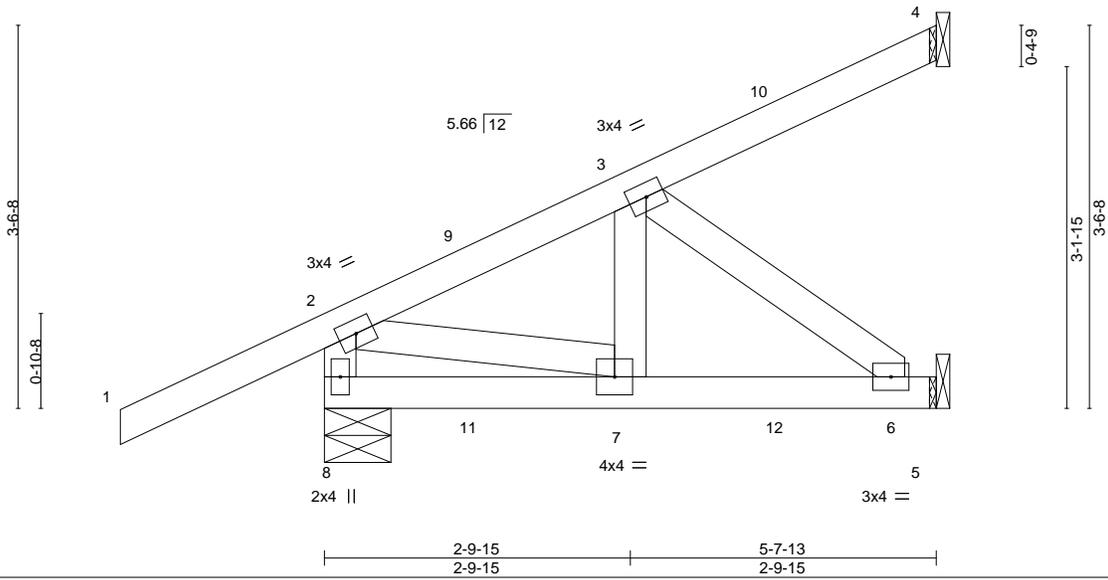
Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:54 2024 Page 1

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Scale = 1:21.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.10	Vert(LL) -0.00 6-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.06	Vert(CT) -0.01 6-7 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 4 n/a n/a		
	Code FBC2023/TPI2014		Wind(LL) -0.00 6-7 >999 240	Weight: 32 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-7-6, 4=Mechanical, 5=Mechanical
 Max Horz 8=166(LC 8)
 Max Uplift 8=-192(LC 8), 4=-63(LC 8), 5=-48(LC 5)
 Max Grav 8=318(LC 31), 4=85(LC 19), 5=138(LC 32)

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

TOP CHORD 2-8=-296/200, 2-3=-254/67
 WEBS 2-7=-69/317

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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=1b) 8=192.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 105 lb up at 1-4-15, 87 lb down and 105 lb up at 1-4-15, and 95 lb down and 87 lb up at 4-2-15, and 95 lb down and 87 lb up at 4-2-15 on top chord, and 4 lb down and 13 lb up at 1-4-15, 4 lb down and 13 lb up at 1-4-15, and 15 lb down and 1 lb up at 4-2-15, and 15 lb down and 1 lb up at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-4=-54, 5-8=-20
 Concentrated Loads (lb)
 Vert: 9=54(F=27, B=27) 12=1(F=1, B=1)



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

May 23, 2024

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959250
6240322	KJ4A	Diagonal Hip Girder	1	1		

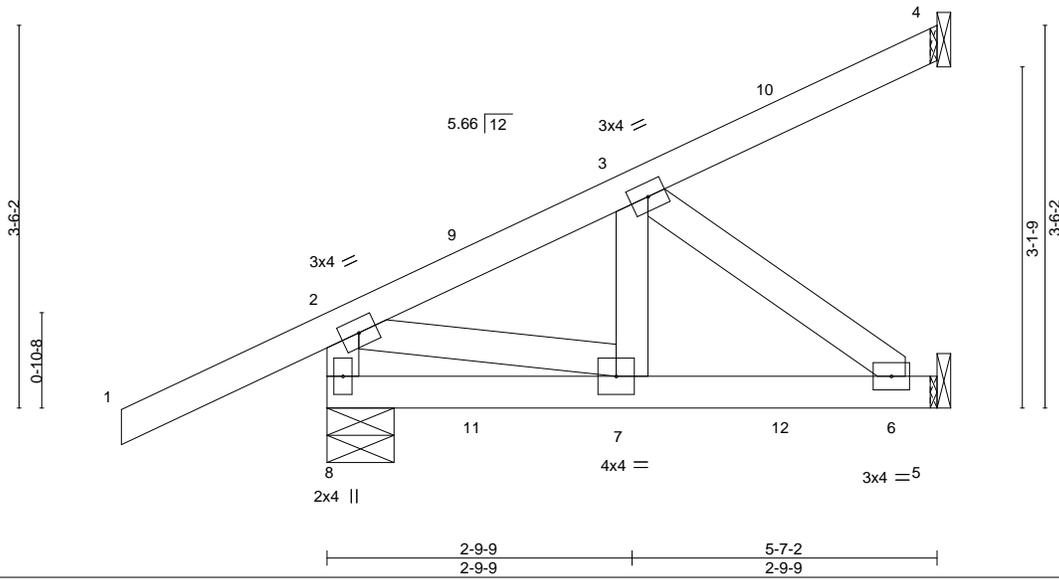
Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:55 2024 Page 1
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Scale = 1:21.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL)	-0.00	6-7	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.10	Vert(CT)	-0.01	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.06	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Wind(LL)	-0.00	6-7	>999		
	Code FBC2023/TPI2014						Weight: 32 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-7-6, 4=Mechanical, 5=Mechanical
Max Horz 8=165(LC 8)
Max Uplift 8=193(LC 8), 4=64(LC 8), 5=48(LC 5)
Max Grav 8=316(LC 31), 4=85(LC 19), 5=136(LC 32)

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

TOP CHORD 2-8=-294/201, 2-3=-251/66
WEBS 2-7=-68/314

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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 8=193.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 105 lb up at 1-4-15, 87 lb down and 105 lb up at 1-4-15, and 94 lb down and 87 lb up at 4-2-15, and 94 lb down and 87 lb up at 4-2-15 on top chord, and 4 lb down and 13 lb up at 1-4-15, 4 lb down and 13 lb up at 1-4-15, and 16 lb down and 1 lb up at 4-2-15, and 16 lb down and 1 lb up at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 9=54(F=27, B=27) 12=1(F=1, B=1)



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

May 23, 2024

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Job 6240322	Truss KJ5P	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959251
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:55 2024 Page 1
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Scale = 1:16.6

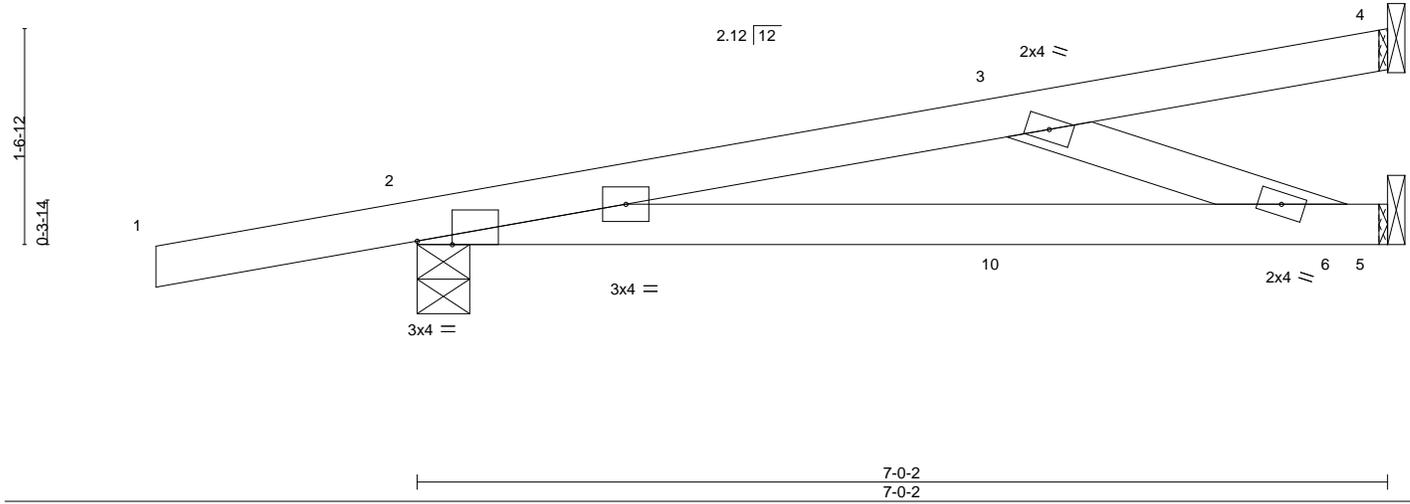


Plate Offsets (X,Y)--	[2:0-3-1,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.05	6-9	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.11	6-9	>742		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS	Wind(LL)	0.07	6-9	>999	Weight: 28 lb	FT = 20%

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

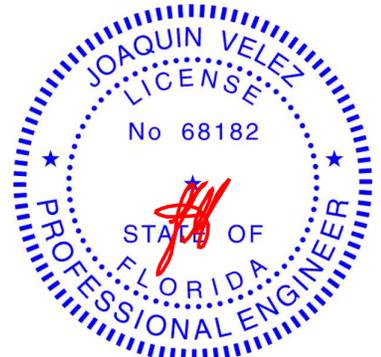
REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
 Max Horz 2=77(LC 4)
 Max Uplift 4=-43(LC 19), 2=-236(LC 4), 5=-84(LC 4)
 Max Grav 4=46(LC 1), 2=380(LC 1), 5=210(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-501/230
 BOT CHORD 2-6=-259/493
 WEBS 3-6=-518/272

- 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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=236.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 51 lb up at 4-2-15, and 29 lb down and 51 lb up at 4-2-15 on top chord, and 9 lb down and 41 lb up at 4-2-15, and 9 lb down and 41 lb up at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 5-7=-20
 Concentrated Loads (lb)
 Vert: 3=-2(F=-1, B=-1) 10=-18(F=-9, B=-9)



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

May 23, 2024

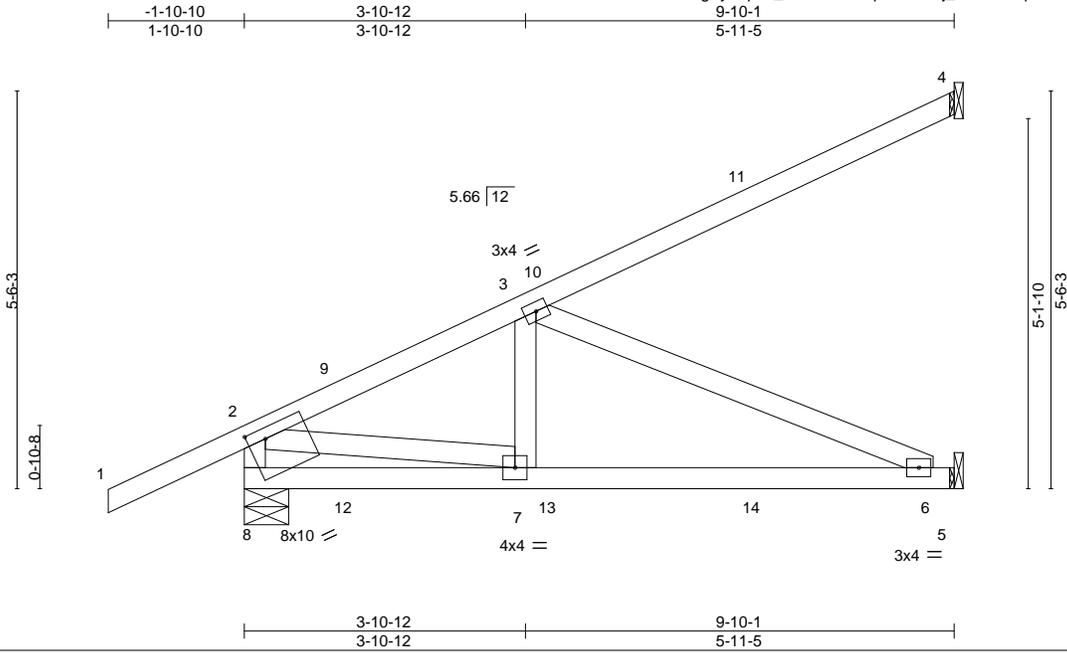
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6240322	Truss KJ7	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959252
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:56 2024 Page 1
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Scale: 3/8"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	Vert(LL) -0.07	6-7	>999	360	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.66	Vert(CT) -0.15	6-7	>775	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.41	Horz(CT) -0.01	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL) -0.03	6-7	>999	240		
	Code FBC2023/TP12014						Weight: 52 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 8=0-7-6, 4=Mechanical, 5=Mechanical
Max Horz 8=247(LC 8)
Max Uplift 8=-248(LC 8), 4=-153(LC 8), 5=-81(LC 8)
Max Grav 8=510(LC 31), 4=174(LC 31), 5=302(LC 31)

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

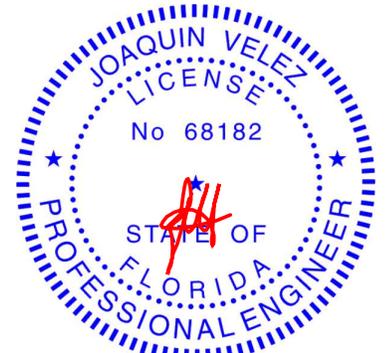
TOP CHORD 2-8=-496/250, 2-3=-656/196
BOT CHORD 7-8=-269/62, 6-7=-293/561
WEBS 2-7=-252/642, 3-6=-610/318

NOTES-

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=248, 4=153.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 105 lb up at 1-4-15, 87 lb down and 105 lb up at 1-4-15, 96 lb down and 88 lb up at 4-2-15, 96 lb down and 88 lb up at 4-2-15, and 134 lb down and 146 lb up at 7-0-14, and 134 lb down and 146 lb up at 7-0-14 on top chord, and 4 lb down and 13 lb up at 1-4-15, 4 lb down and 13 lb up at 1-4-15, 15 lb down and 1 lb up at 4-2-15, 15 lb down and 1 lb up at 4-2-15, and 39 lb down at 7-0-14, and 39 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 9=54(F=27, B=27) 11=-72(F=-36, B=-36) 13=1(F=1, B=1) 14=-48(F=-24, B=-24)



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

May 23, 2024

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

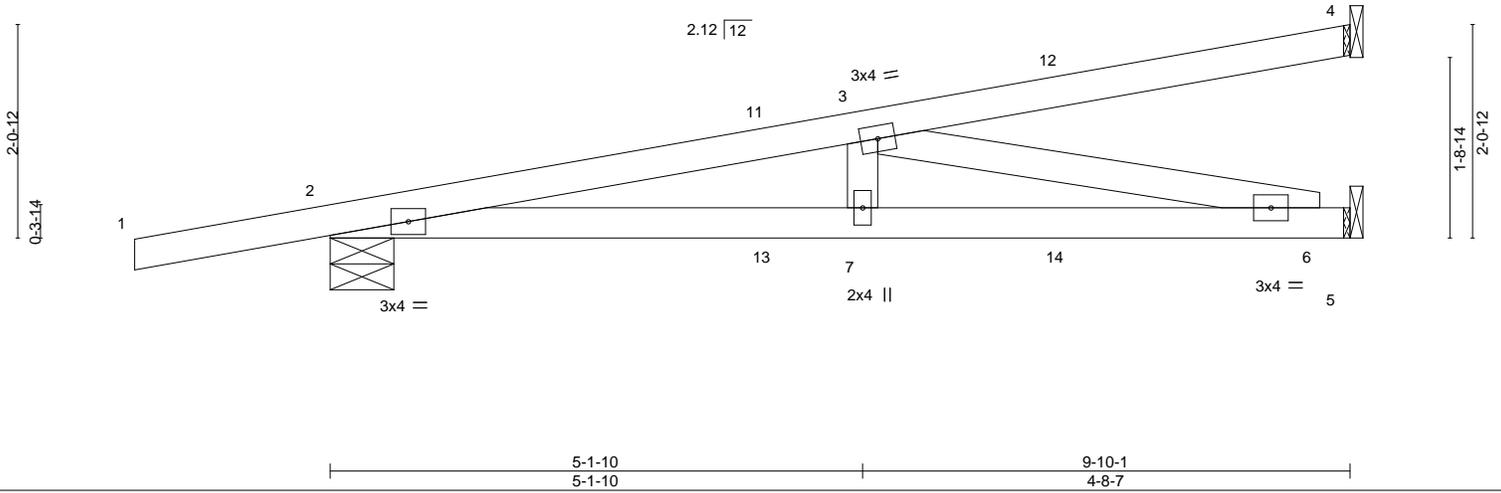
Job 6240322	Truss KJ7B	Truss Type Diagonal Hip Girder	Qty 3	Ply 1	Custom Made Job Reference (optional)	T33959253
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:56 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-7qjJGAKmtj_uR676rsq4cldVKVYvu_rzFekY39zDxOH



Scale = 1:22.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.63	Vert(LL) -0.06 6-7 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.50	Vert(CT) -0.12 6-7 >982 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.02 5 n/a n/a		
			Wind(LL) 0.05 7 >999 240	Weight: 40 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

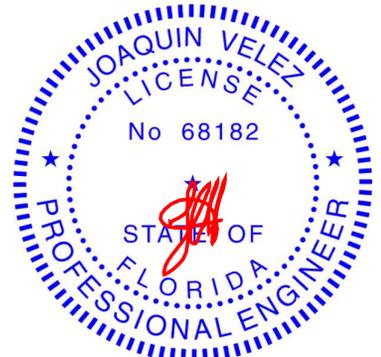
REACTIONS. (size) 4=Mechanical, 2=0-7-6, 5=Mechanical
 Max Horz 2=100(LC 4)
 Max Uplift 4=-77(LC 4), 2=-231(LC 4), 5=-33(LC 4)
 Max Grav 4=131(LC 1), 2=522(LC 1), 5=328(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1342/249
 BOT CHORD 2-7=-296/1315, 6-7=-296/1315
 WEBS 3-7=0/267, 3-6=-1344/303

- 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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=231.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 40 lb up at 4-2-15, 29 lb down and 40 lb up at 4-2-15, and 52 lb down and 80 lb up at 7-0-14, and 52 lb down and 80 lb up at 7-0-14 on top chord, and 14 lb down at 4-2-15, 14 lb down at 4-2-15, and 34 lb down at 7-0-14, and 34 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 5-8=-20
 Concentrated Loads (lb)
 Vert: 11=-2(F=-1, B=-1) 12=-69(F=-35, B=-35) 13=-18(F=-9, B=-9) 14=-67(F=-34, B=-34)



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

May 23, 2024

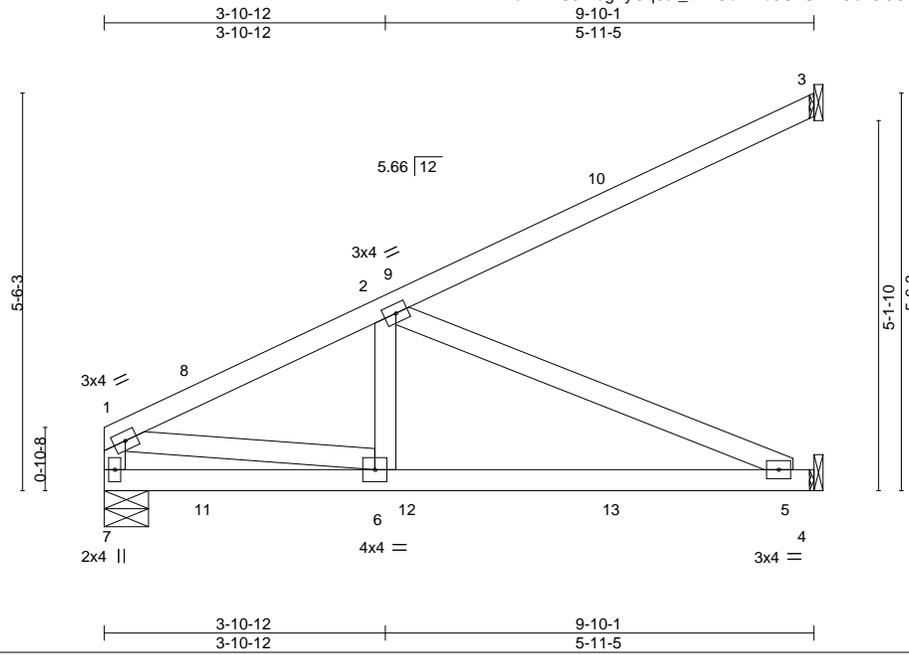
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959254
6240322	KJ7C	Diagonal Hip Girder	1	1		

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

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:57 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-b0GhUWLOe16l3GhIOZLJ9VAbbtSdS57UIT6bbzDxOG



Scale: 3/8"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.72	Vert(LL) -0.07	5-6	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.67	Vert(CT) -0.15	5-6	>761	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.44	Horz(CT) -0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.03	5-6	>999	240	Weight: 49 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 7=0-7-6, 3=Mechanical, 4=Mechanical
Max Horz 7=187(LC 8)
Max Uplift 7=-121(LC 8), 3=-156(LC 8), 4=-102(LC 8)
Max Grav 7=441(LC 28), 3=175(LC 27), 4=320(LC 27)

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

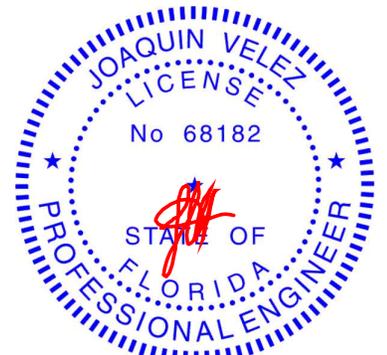
TOP CHORD 1-7=-427/116, 1-2=-680/222
BOT CHORD 5-6=-343/602
WEBS 1-6=-241/604, 2-5=-655/373

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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=121, 3=156, 4=102.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 50 lb up at 1-4-15, 71 lb down and 50 lb up at 1-4-15, 97 lb down and 97 lb up at 4-2-15, 96 lb down and 88 lb up at 4-2-15, and 137 lb down and 153 lb up at 7-0-14, and 134 lb down and 146 lb up at 7-0-14 on top chord, and 5 lb down and 11 lb up at 1-4-15, 5 lb down and 11 lb up at 1-4-15, 16 lb down and 19 lb up at 4-2-15, 15 lb down and 1 lb up at 4-2-15, and 41 lb down and 41 lb down at 7-0-14, and 39 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-7=-20
Concentrated Loads (lb)
Vert: 10=-79(F=-36, B=-43) 11=-2(F=-1, B=-1) 12=-4(F=1, B=-5) 13=-54(F=-24, B=-30)



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

May 23, 2024

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314.434.1200 / MiTek-US.com

Job 6240322	Truss L01	Truss Type JACK-CLOSED	Qty 3	Ply 1	Custom Made Job Reference (optional)	T33959255
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:57 2024 Page 1
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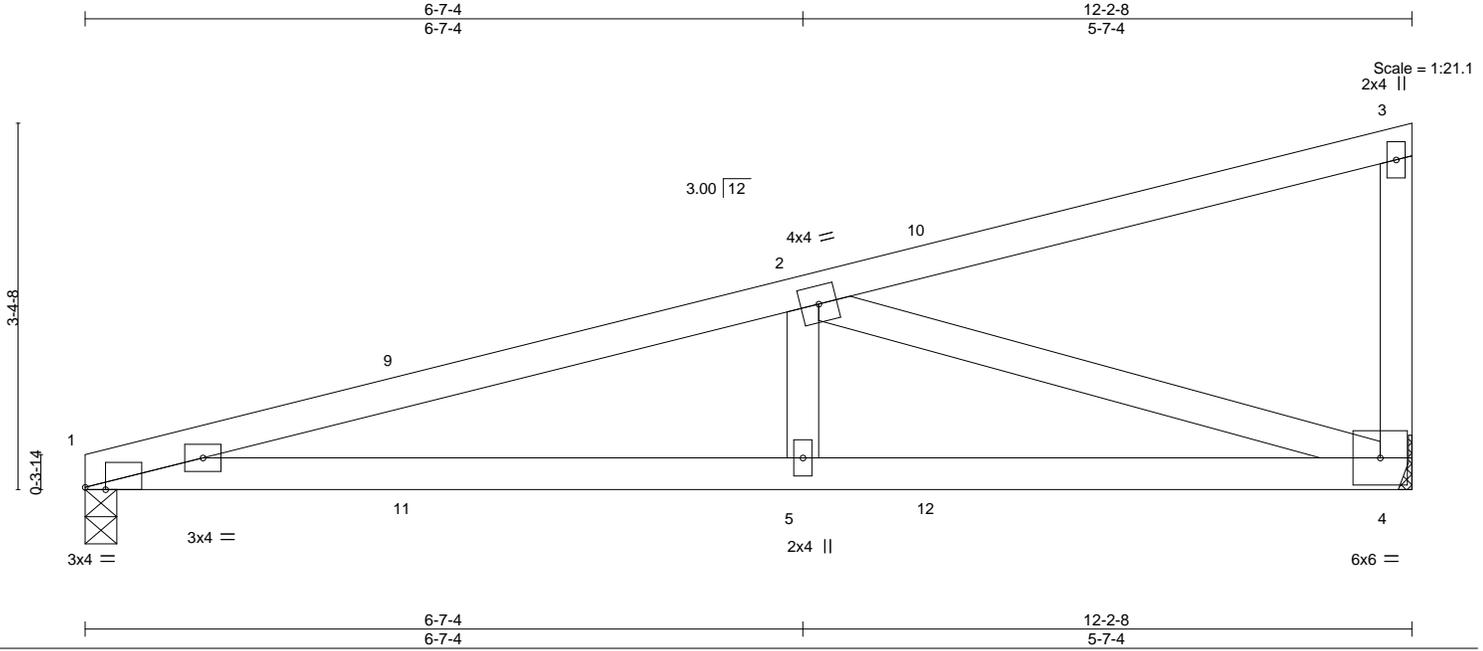


Plate Offsets (X,Y)-- [1:0-2-4,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.56	Vert(LL) -0.07	5-8	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.51	Vert(CT) -0.14	5-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) -0.02	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.16	5-8	>912	240		
							Weight: 51 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-9 oc bracing.

REACTIONS.

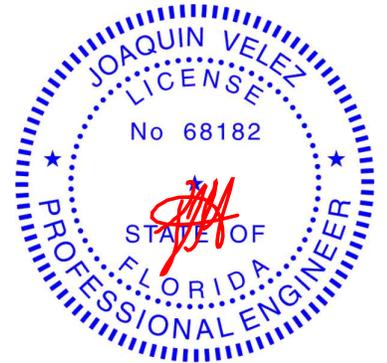
(size) 1=0-3-8, 4=Mechanical
Max Horz 1=124(LC 12)
Max Uplift 1=-288(LC 12), 4=-320(LC 12)
Max Grav 1=446(LC 1), 4=446(LC 1)

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

TOP CHORD 1-2=-1018/1076
BOT CHORD 1-5=-1207/970, 4-5=-1207/970
WEBS 2-5=-223/279, 2-4=-1014/1263

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-0-12 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=288, 4=320.



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

May 23, 2024

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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Chesterfield, MO 63017
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Job 6240322	Truss L02	Truss Type JACK-CLOSED	Qty 11	Ply 1	Custom Made Job Reference (optional)	T33959256
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:58 2024 Page 1
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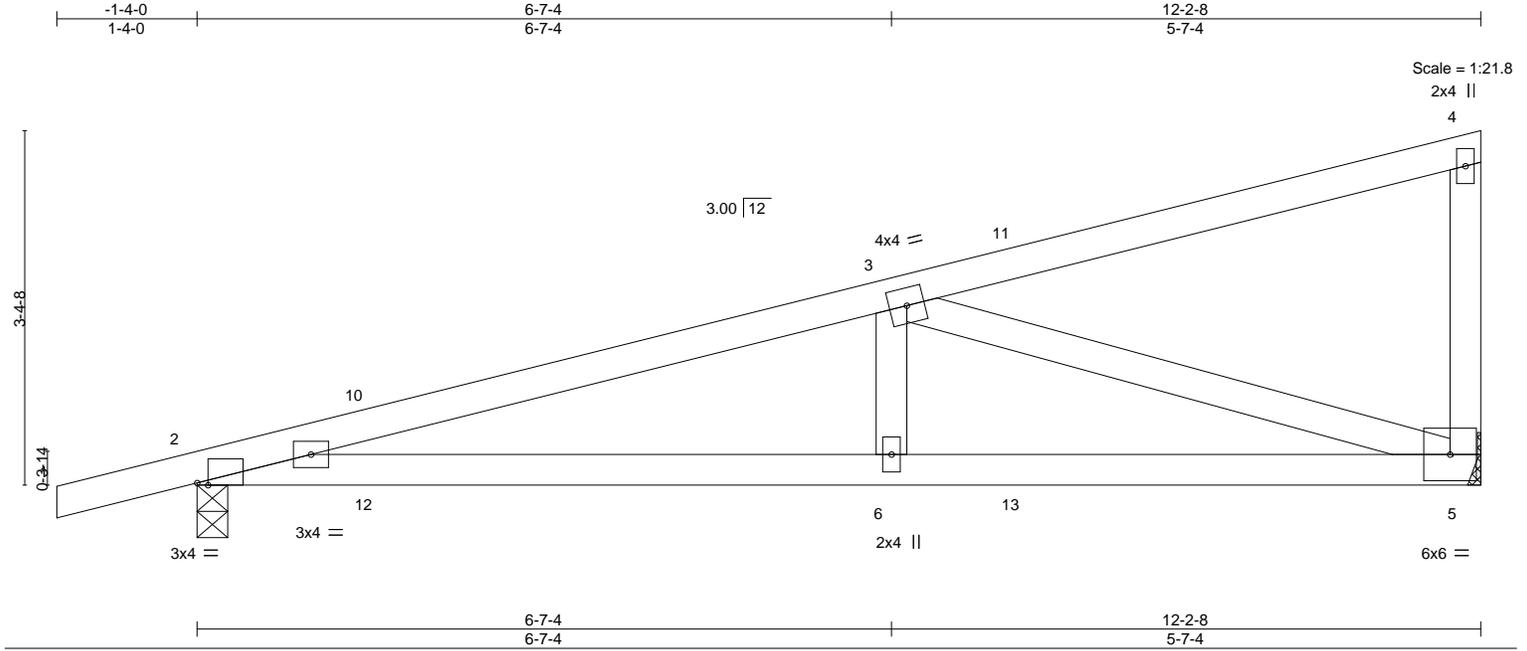


Plate Offsets (X,Y)-- [2:0-1-4,Edge]

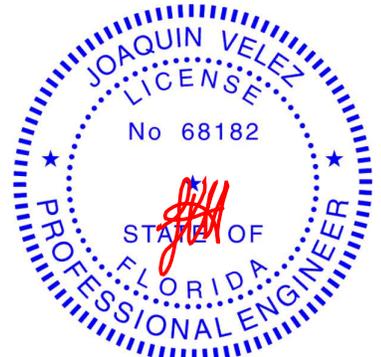
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.47	Vert(LL) -0.06 6-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.56	Vert(CT) -0.13 6-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.02 5 n/a n/a		
	Code FBC2023/TPI2014		Wind(LL) 0.13 6-9 >999 240	Weight: 53 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-0-7 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 5=Mechanical
 Max Horz 2=145(LC 12)
 Max Uplift 2=-365(LC 12), 5=-315(LC 12)
 Max Grav 2=522(LC 1), 5=442(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-999/1058
 BOT CHORD 2-6=-1189/950, 5-6=-1189/950
 WEBS 3-6=-202/277, 3-5=-994/1244

- 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 12-0-12 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=365, 5=315.



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

May 23, 2024

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Job 6240322	Truss M01	Truss Type JACK-CLOSED	Qty 6	Ply 1	Custom Made Job Reference (optional)	T33959257
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:58 2024 Page 1
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Scale = 1:19.0

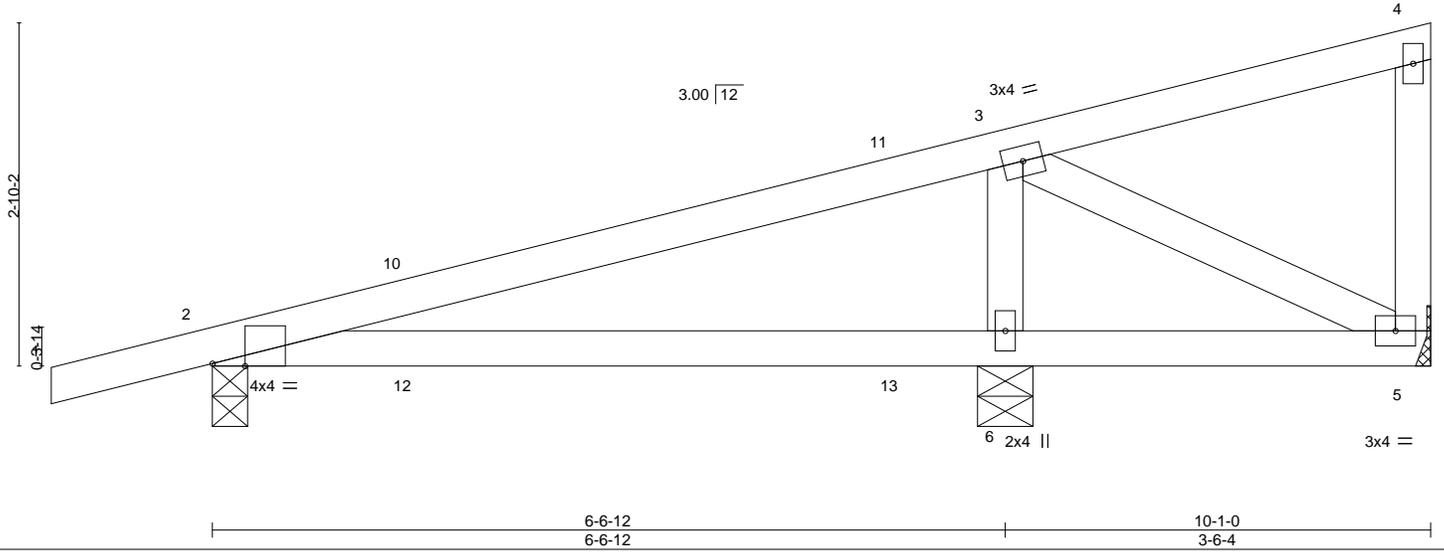


Plate Offsets (X,Y)-- [2:0-3-4,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.31	Vert(LL) 0.11 6-9 >687 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Vert(CT) -0.09 6-9 >832 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.00 5 n/a n/a		
	Code FBC2023/TPI2014			Weight: 43 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

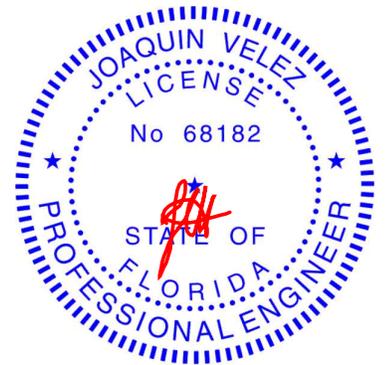
(size) 2=0-3-8, 6=0-5-8, 5=Mechanical
Max Horz 2=123(LC 12)
Max Uplift 2=-214(LC 12), 6=-247(LC 12), 5=-12(LC 12)
Max Grav 2=291(LC 1), 6=451(LC 1), 5=74(LC 17)

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

WEBS 3-6=-290/394

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-11-4 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=214, 6=247.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job 6240322	Truss M02	Truss Type MONOPITCH	Qty 11	Ply 1	Custom Made Job Reference (optional)	T33959258
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:58 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-3Dq3hsL0PKEcqQGVyHsYhjroJlJmXeGjyDf71zDxOF

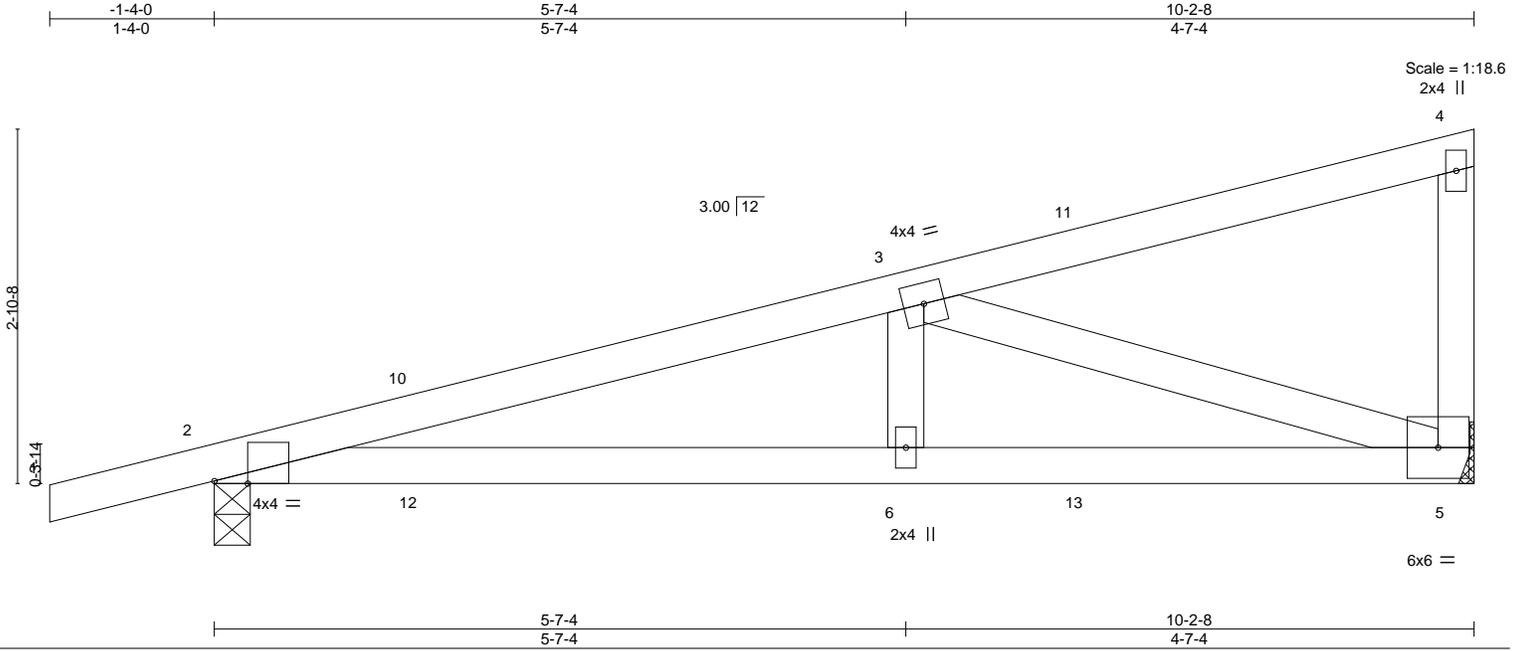


Plate Offsets (X,Y)--	[2:0-3-4,Edge]
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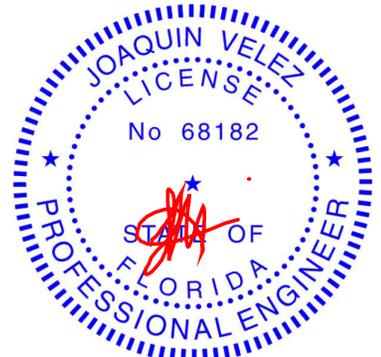
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL) -0.04	6-9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.35	Vert(CT) -0.07	6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) -0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.08	6-9	>999	240	Weight: 45 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-4-11 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 5=Mechanical
 Max Horz 2=125(LC 12)
 Max Uplift 2=-318(LC 12), 5=-262(LC 12)
 Max Grav 2=449(LC 1), 5=368(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-794/950
 BOT CHORD 2-6=-1087/754, 5-6=-1087/754
 WEBS 3-5=-773/1101

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 10-0-12 zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=318, 5=262.



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

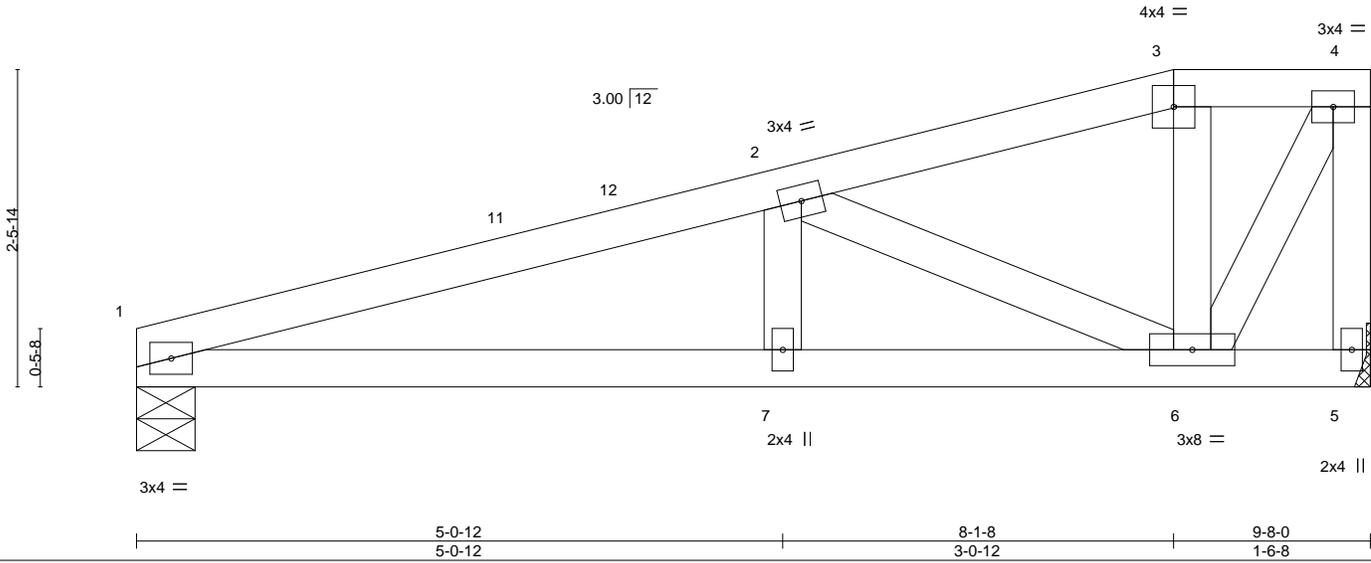
May 23, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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Job 6240322	Truss M03	Truss Type Half Hip	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959259
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:59 2024 Page 1
 ID:hhuEHms9WugZyGq6sr_tZizGdXv-XPORvCMfAeMTlarhW_NnEwF2hjeQ5RdQycyCFTzDxOE
 5-0-12 5-0-12 8-1-8 3-0-12 9-8-0 8-1-8 9-8-0 1-6-8

Scale = 1:18.0



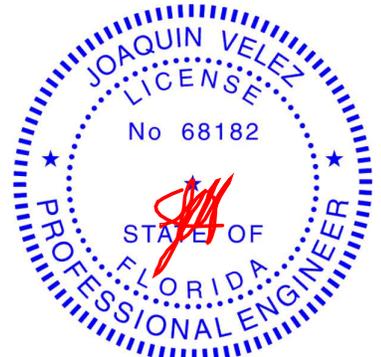
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) -0.02	7-10	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(CT) -0.04	7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.03	7-10	>999	240	Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=0-5-8, 5=Mechanical
 Max Horz 1=84(LC 12)
 Max Uplift 1=-88(LC 12), 5=-109(LC 12)
 Max Grav 1=352(LC 1), 5=352(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-713/543, 4-5=-337/356
 BOT CHORD 1-7=-643/665, 6-7=-643/665
 WEBS 2-6=-530/498, 4-6=-348/348

- 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-1-8, Zone3 8-1-8 to 9-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=109.



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

May 23, 2024

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Job 6240322	Truss MG1	Truss Type JACK-CLOSED GIRDER	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959260
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:11:59 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-XPORvCMfAeMTIarhW_NnEwF0gjYM5SBQycyCFTzDxOE
5-0-0
5-0-0

Scale = 1:10.5

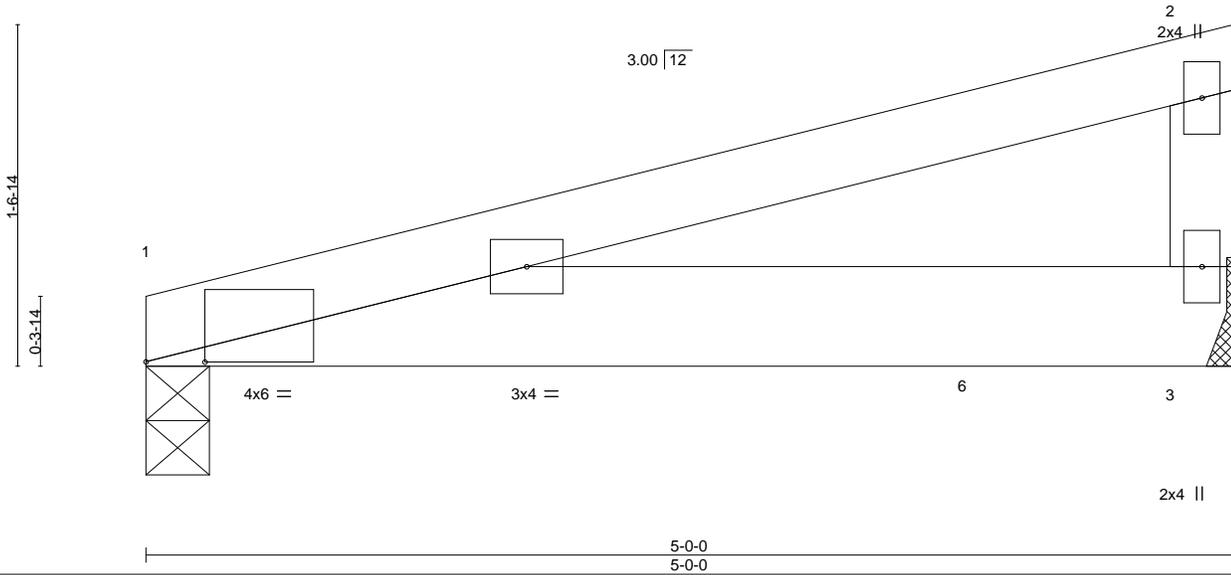


Plate Offsets (X,Y)-- [1:0-3-4,0-0-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.65	Vert(LL) 0.07 3-5 >771 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Vert(CT) -0.08 3-5 >710 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 3 n/a n/a		
	Code FBC2023/TPI2014			Weight: 21 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 3=Mechanical
Max Horz 1=49(LC 23)
Max Uplift 1=-346(LC 8), 3=-433(LC 8)
Max Grav 1=542(LC 1), 3=659(LC 1)

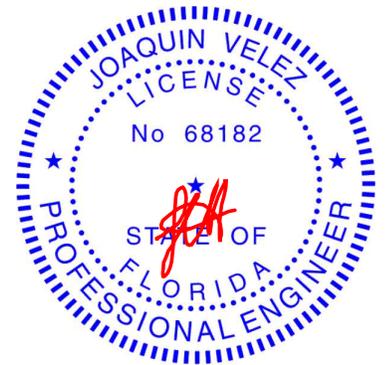
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=346, 3=433.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 426 lb down and 308 lb up at 1-10-12, and 427 lb down and 308 lb up at 3-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 5=-426(B) 6=-427(B)



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

May 23, 2024

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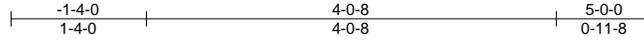
Job 6240322	Truss MG2	Truss Type Jack-Closed Girder	Qty 1	Ply 2	Custom Made Job Reference (optional)	T33959261
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Tibbetts Lumber Co., LLC (Ocala, FL),

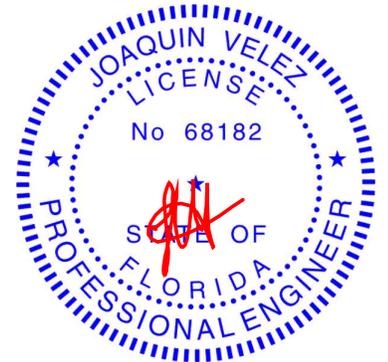
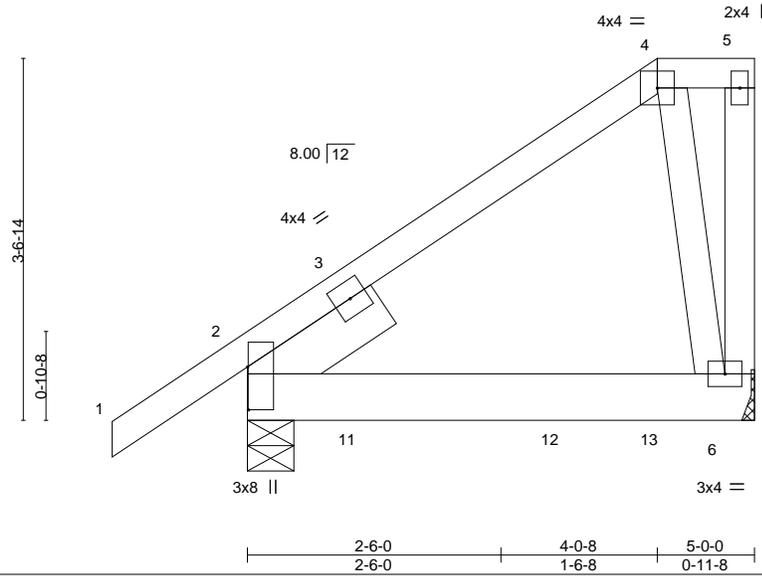
Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:00 2024 Page 1

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Scale = 1:22.6



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

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.38	Vert(LL) -0.04	6-9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.61	Vert(CT) -0.07	6-9	>809	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT) 0.02	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MP	Wind(LL) 0.04	6-9	>999	240	Weight: 70 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-6-0

BRACING-

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

REACTIONS.

(size) 2=0-5-8, 6=Mechanical
Max Horz 2=168(LC 8)
Max Uplift 2=363(LC 8), 6=423(LC 8)
Max Grav 2=1152(LC 1), 6=1023(LC 1)

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

TOP CHORD 2-4=778/291

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=363, 6=423.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 79 lb up at 4-10-4, and 98 lb down and 106 lb up at 4-0-8 on top chord, and 781 lb down and 240 lb up at 1-0-12, and 781 lb down and 242 lb up at 3-0-12, and 164 lb down and 63 lb up at 4-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

May 23, 2024

Continued on page 2

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

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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959261
6240322	MG2	Jack-Closed Girder	1	2	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:00 2024 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-4=-54, 4-5=-54, 6-7=-20
- Concentrated Loads (lb)
 - Vert: 4=-40(F) 5=-47(F) 11=-781(B) 12=-781(B) 13=-98(F)

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

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Job 6240322	Truss MG3	Truss Type Jack-Closed Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959262
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:01 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-UoWCKuOviFdAYu?3dPQFJLKO0WGWZMiiPwRjkMzDxOC

3-3-8
3-3-8

Scale = 1:8.5

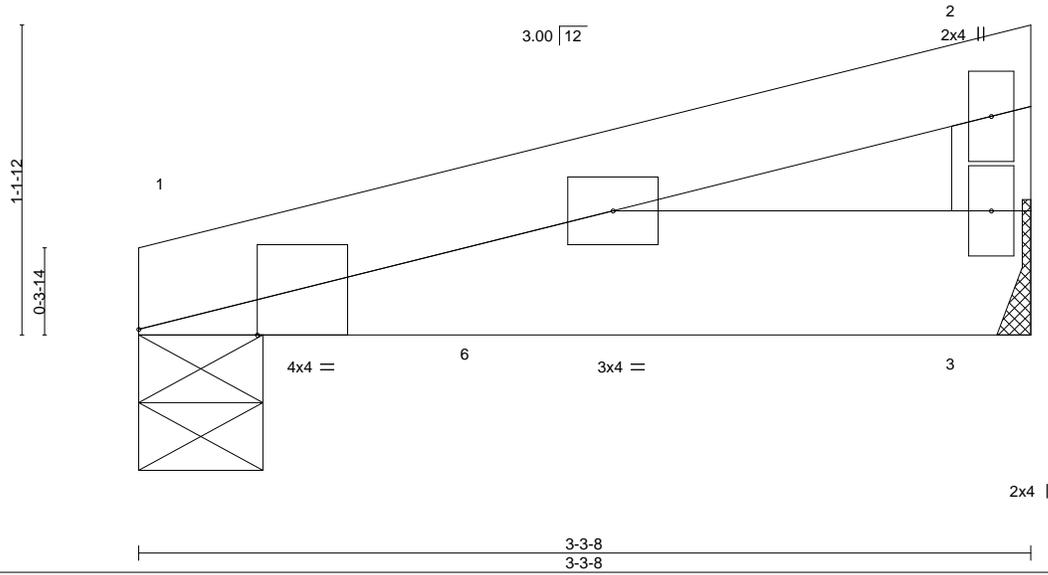


Plate Offsets (X,Y)-- [1:0-5-4,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.31	Vert(LL)	-0.01	5	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.54	Vert(CT)	-0.02	5	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP	Wind(LL)	0.01	5	>999	Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=0-5-8, 3=Mechanical
Max Horz 1=30(LC 8)
Max Uplift 1=-190(LC 8), 3=-136(LC 8)
Max Grav 1=653(LC 1), 3=450(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=190, 3=136.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 888 lb down and 274 lb up at 1-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 6=-888(B)



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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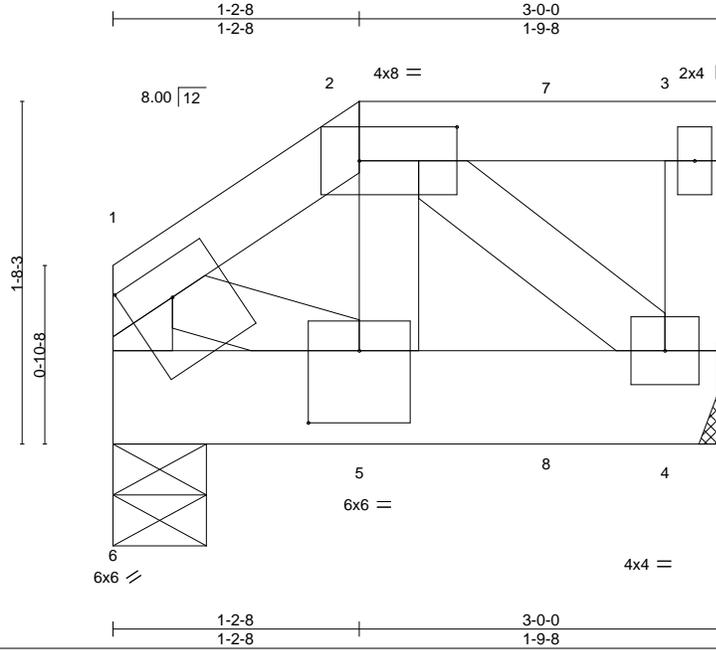
Job 6240322	Truss MG4	Truss Type Half Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959263
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:01 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tLzGdXv-UoWCKuOviFdAYu?3dPQFJLKS6WMLZL_iPwRjkmzDxOC



Scale = 1:11.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.16	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	FBC2023/TP12014	Matrix-MP	Wind(LL)	0.00	5	>999	Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 6=0-5-8, 4=Mechanical
 Max Horz 6=30(LC 8)
 Max Uplift 6=-202(LC 8), 4=-191(LC 8)
 Max Grav 6=534(LC 1), 4=445(LC 1)

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

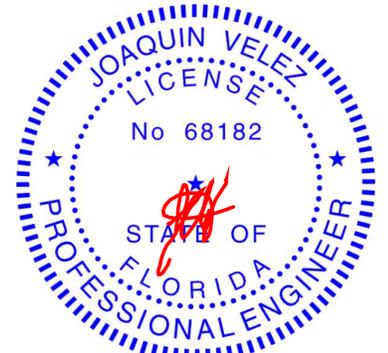
TOP CHORD 1-2=-441/175, 1-6=-438/176
 BOT CHORD 4-5=-172/413
 WEBS 2-5=-137/554, 2-4=-527/219, 1-5=-153/388

NOTES-

- 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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=202, 4=191.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 195 lb down and 225 lb up at 1-2-8, and 56 lb down and 55 lb up at 2-3-4 on top chord, and 839 lb down and 259 lb up at 1-0-12, and 25 lb down and 43 lb up at 1-2-8, and 5 lb down and 11 lb up at 2-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-3=-54, 4-6=-20
 Concentrated Loads (lb)
 Vert: 2=47(F) 5=-839(B) 7=14(F)



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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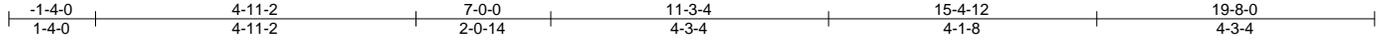
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss N01	Truss Type Half Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959264
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:02 2024 Page 1

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Scale = 1:35.3

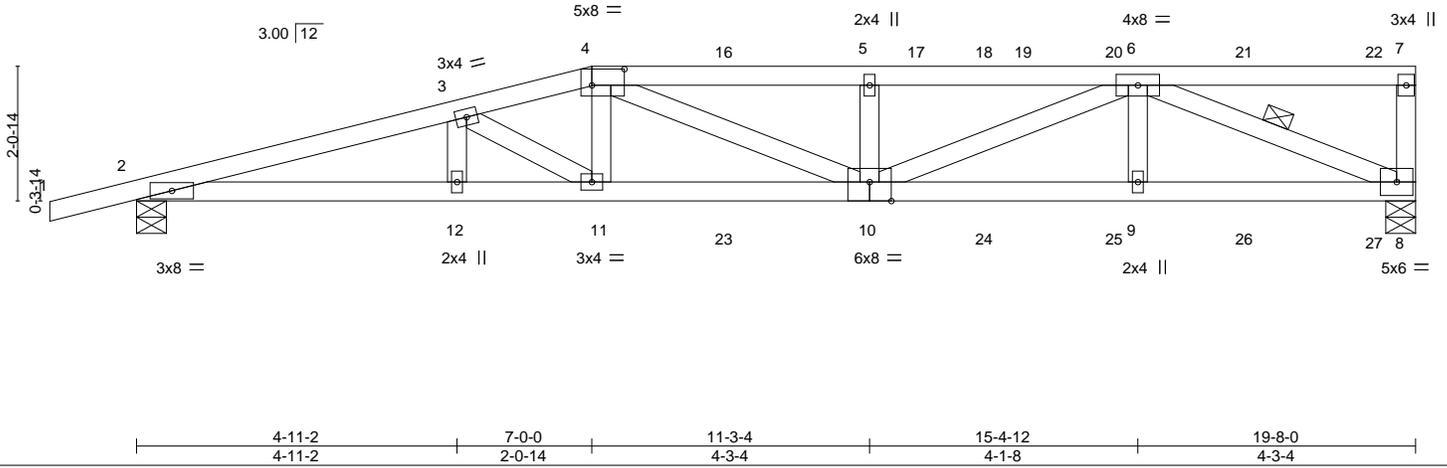


Plate Offsets (X,Y)-- [4:0-6-0,0-3-0], [10:0-4-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(LL) -0.25 10-11 >936 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.44	Vert(CT) -0.47 10-11 >495 240		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Horz(CT) 0.10 8 n/a n/a		
			Wind(LL) 0.23 10-11 >999 240	Weight: 93 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 8=0-5-8, 2=0-5-8
 Max Horz 2=93(LC 27)
 Max Uplift 8=377(LC 8), 2=395(LC 8)
 Max Grav 8=1694(LC 1), 2=1428(LC 1)

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

TOP CHORD 2-3=-4627/1045, 3-4=-4448/1009, 4-5=-4520/1024, 5-6=-4520/1024, 7-8=-255/140
 BOT CHORD 2-12=-1050/4467, 11-12=-1050/4467, 10-11=-991/4362, 9-10=-695/3101, 8-9=-695/3101
 WEBS 3-11=-343/209, 4-11=-13/607, 4-10=-68/252, 5-10=-463/266, 6-10=-359/1545, 6-9=0/352, 6-8=-3281/736

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=377, 2=395.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 203 lb up at 7-0-0, 108 lb down and 105 lb up at 9-0-12, 108 lb down and 105 lb up at 11-0-12, 108 lb down and 105 lb up at 13-0-12, 108 lb down and 105 lb up at 15-0-12, and 108 lb down and 105 lb up at 17-0-12, and 123 lb down and 100 lb up at 19-0-12 on top chord, and 367 lb down and 42 lb up at 7-0-0, 82 lb down at 9-0-12, 82 lb down at 11-0-12, 82 lb down at 13-0-12, 82 lb down at 15-0-12, and 82 lb down at 17-0-12, and 93 lb down at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



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

May 23, 2024

Continued on page 2

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

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Job	Truss	Truss Type	Qty	Ply	Custom Made
6240322	N01	Half Hip Girder	1	1	T33959264

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:02 2024 Page 2
 ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-y_4aXEOXTZI191aGB6xUsZiO3wWGJjHseaBsGozDxOB

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 8-13=-20

Concentrated Loads (lb)

Vert: 4=-163(F) 11=-367(F) 10=-68(F) 5=-108(F) 16=-108(F) 18=-108(F) 20=-108(F) 21=-108(F) 22=-123(F) 23=-68(F) 24=-68(F) 25=-68(F) 26=-68(F) 27=-73(F)

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

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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss N02	Truss Type Half Hip	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959265
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:02 2024 Page 1

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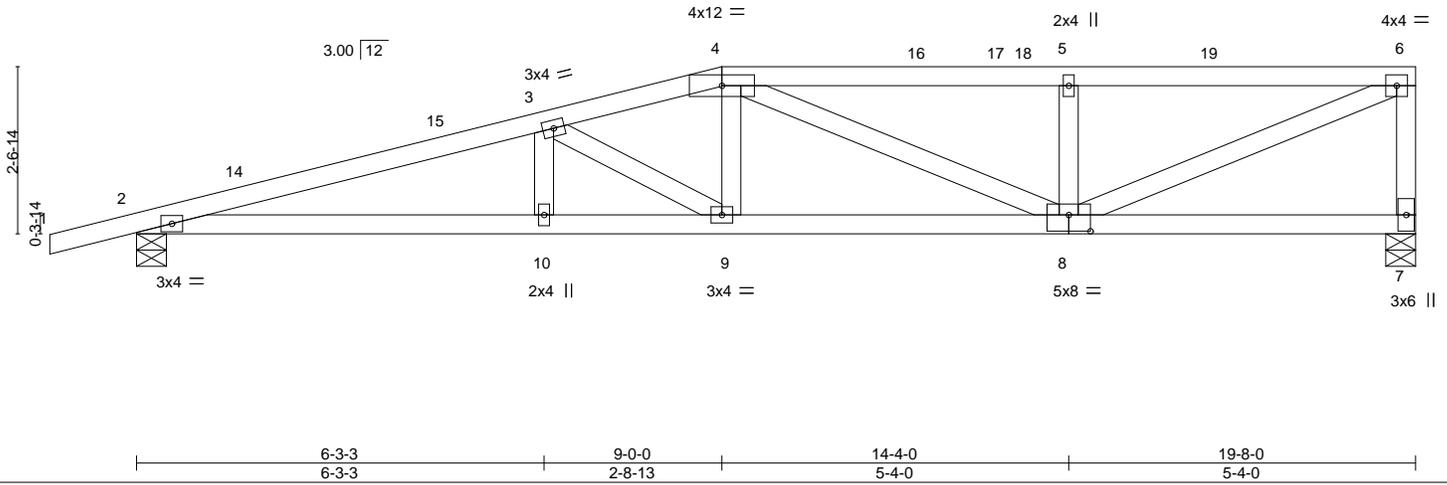


Plate Offsets (X,Y)-- [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.68	Vert(LL) -0.10 10-13 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Vert(CT) -0.20 10-13 >999 240		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.04 7 n/a n/a		
			Wind(LL) 0.11 10 >999 240	Weight: 92 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-6-7 oc bracing.

REACTIONS.

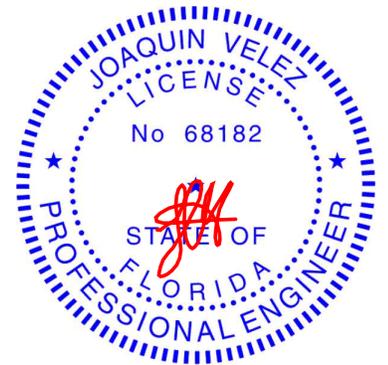
(size) 7=0-5-8, 2=0-5-8
 Max Horz 2=114(LC 12)
 Max Uplift 7=-206(LC 12), 2=-273(LC 12)
 Max Grav 7=720(LC 1), 2=797(LC 1)

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

TOP CHORD 2-3=-2085/1039, 3-4=-1602/810, 4-5=-1282/645, 5-6=-1282/645, 6-7=-669/419
 BOT CHORD 2-10=-1093/2001, 9-10=-1093/2001, 8-9=-809/1552
 WEBS 3-9=-537/333, 4-9=-116/333, 4-8=-293/184, 5-8=-323/292, 6-8=-692/1361

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 19-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=206, 2=273.



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

May 23,2024

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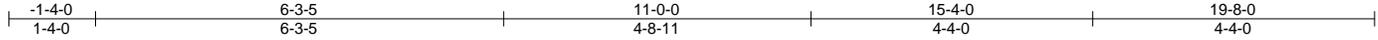
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 6240322	Truss N03	Truss Type Half Hip	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959266
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:03 2024 Page 1

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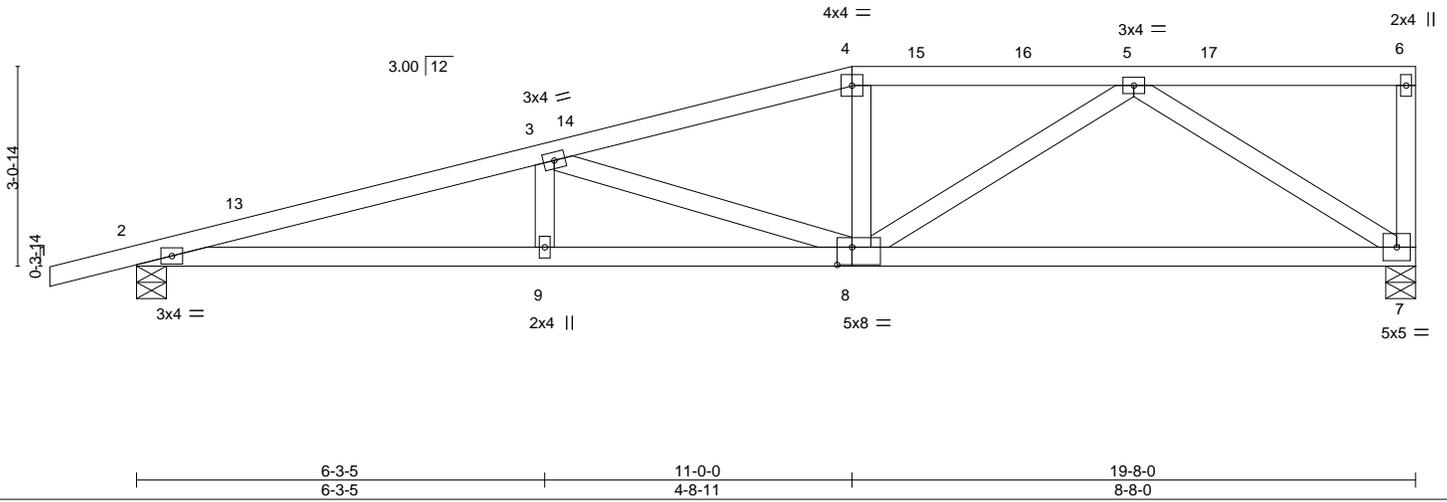


Plate Offsets (X,Y)-- [8:0-2-12,0-3-4]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.42	Vert(LL) -0.16	7-8	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT) -0.34	7-8	>690	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.05	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.11	9-12	>999	240		
							Weight: 92 lb	FT = 20%

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

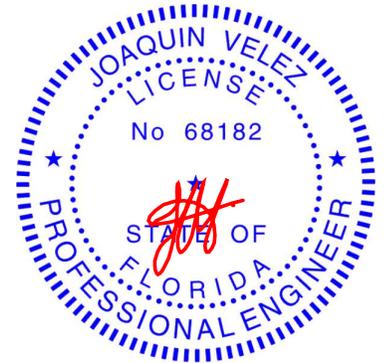
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-6-10 oc bracing.

REACTIONS. (size) 7=0-5-8, 2=0-5-8
 Max Horz 2=134(LC 12)
 Max Uplift 7=-208(LC 12), 2=-270(LC 12)
 Max Grav 7=720(LC 1), 2=797(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2086/1016, 3-4=-1368/652, 4-5=-1293/666
 BOT CHORD 2-9=-1098/2004, 8-9=-1098/2004, 7-8=-500/849
 WEBS 3-8=-751/456, 5-8=-196/528, 5-7=-978/604

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-4-0, Zone1 15-4-0 to 19-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=208, 2=270.



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

May 23,2024

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

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MiTek®

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

Job 6240322	Truss N04	Truss Type GABLE	Qty 1	Ply 3	Custom Made Job Reference (optional)	T33959267
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:04 2024 Page 1

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Scale = 1:36.1

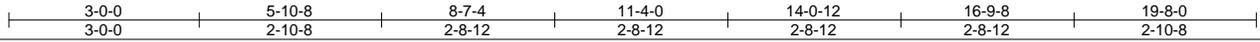
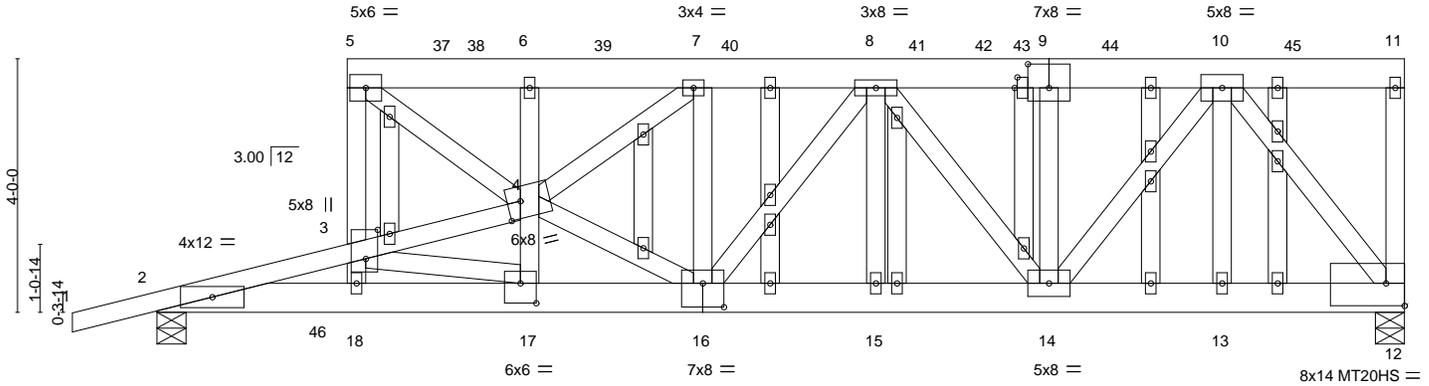


Plate Offsets (X,Y)-- [3:0-5-8,0-2-4], [4:0-2-8,0-3-4], [9:0-4-0,0-4-8], [12:Edge,0-4-4], [16:0-4-0,0-4-8], [17:0-3-0,0-3-12], [26:0-2-0,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.73	Vert(LL) -0.21	17-18	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.88	Vert(CT) -0.36	17-18	>656	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.64	Horz(CT) 0.08	12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.18	17-18	>999	240		
							Weight: 530 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x6 SP No.2 *Except*
2-16: 2x6 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

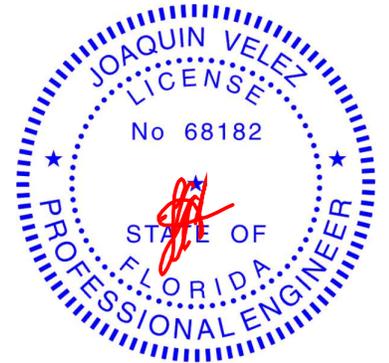
(size) 12=0-5-8, 2=0-5-8
Max Horz 2=191(LC 8)
Max Uplift 12=-2329(LC 5), 2=-1739(LC 8)
Max Grav 12=9018(LC 2), 2=6384(LC 2)

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

TOP CHORD 2-3=-21314/5548, 3-4=-13283/3464, 3-5=-5935/1549, 5-6=-6738/1792, 6-7=-6966/1854, 7-8=-11573/3038, 8-9=-10027/2602, 9-10=-10027/2602, 11-12=-638/184
BOT CHORD 2-18=-5488/20569, 17-18=-5488/20569, 16-17=-3575/13453, 15-16=-3068/11761, 14-15=-3068/11761, 13-14=-1659/6417, 12-13=-1659/6417
WEBS 4-5=-2169/8475, 3-17=-7639/2048, 4-17=-897/3544, 4-6=-2332/649, 4-16=-2084/595, 7-16=-222/1037, 8-16=-313/108, 8-14=-2840/764, 9-14=-2331/646, 10-14=-1545/5914, 10-12=-10400/2689, 3-18=-1670/473, 4-7=-5768/1482

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-5-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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

May 23, 2024

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. For additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959267
6240322	N04	GABLE	1	3	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:05 2024 Page 2
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NOTES-

- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=2329, 2=1739.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 279 lb down and 145 lb up at 3-1-12, 1697 lb down and 475 lb up at 5-0-12, 1697 lb down and 475 lb up at 7-0-12, 1697 lb down and 475 lb up at 9-0-12, 1697 lb down and 475 lb up at 11-0-12, 1697 lb down and 475 lb up at 13-0-12, 1697 lb down and 475 lb up at 15-0-12, and 1697 lb down and 475 lb up at 17-0-12, and 1733 lb down and 475 lb up at 17-11-4 on top chord, and 264 lb down and 85 lb up at 2-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 5-11=-54, 2-12=-20

Concentrated Loads (lb)

Vert: 3=-257 8=-1498(F) 10=-1498(F) 38=-1498(F) 39=-1498(F) 40=-1498(F) 42=-1498(F) 44=-1498(F) 45=-1497 46=-264(B)

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Job 6240322	Truss P01	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959268
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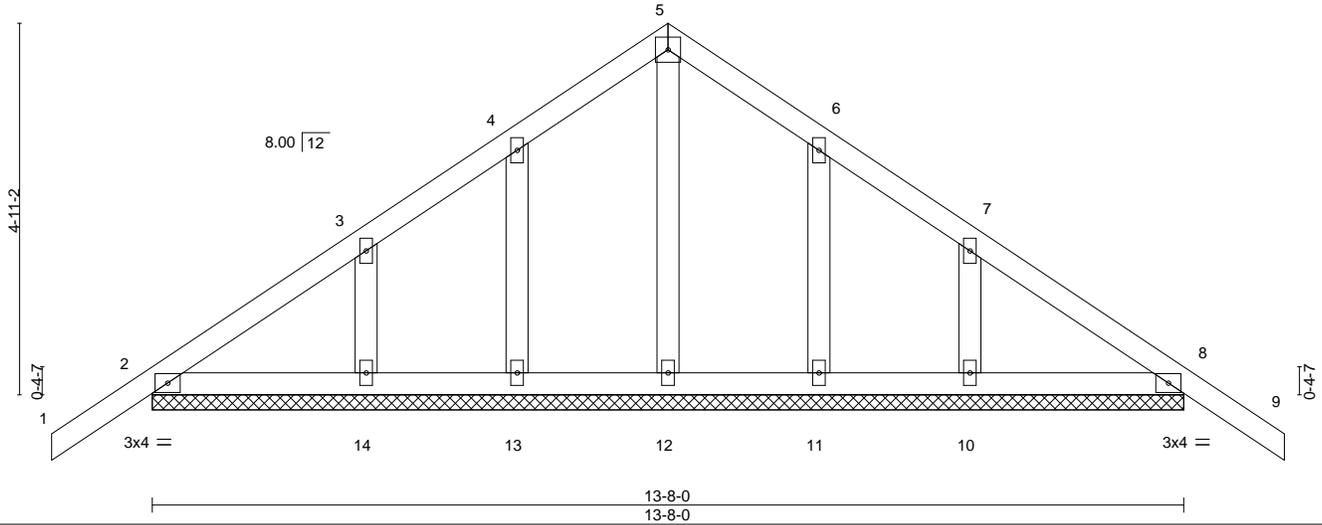
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:05 2024 Page 1
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4x4 =

Scale = 1:30.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.06	Vert(LL) -0.00 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Vert(CT) -0.00 9 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code FBC2023/TPI2014			Weight: 71 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 13-8-0.

(lb) - Max Horz 2=-172(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 13, 14, 11, 10 except 2=-113(LC 12), 8=-113(LC 12)

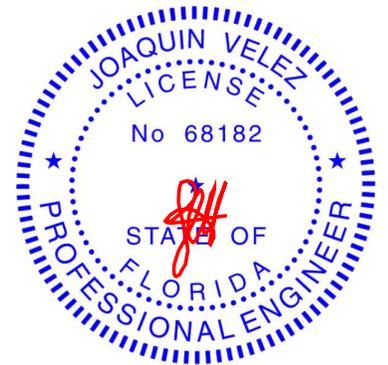
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

WEBS 3-14=-186/251, 7-10=-186/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 11, 10 except (jt=lb) 2=113, 8=113.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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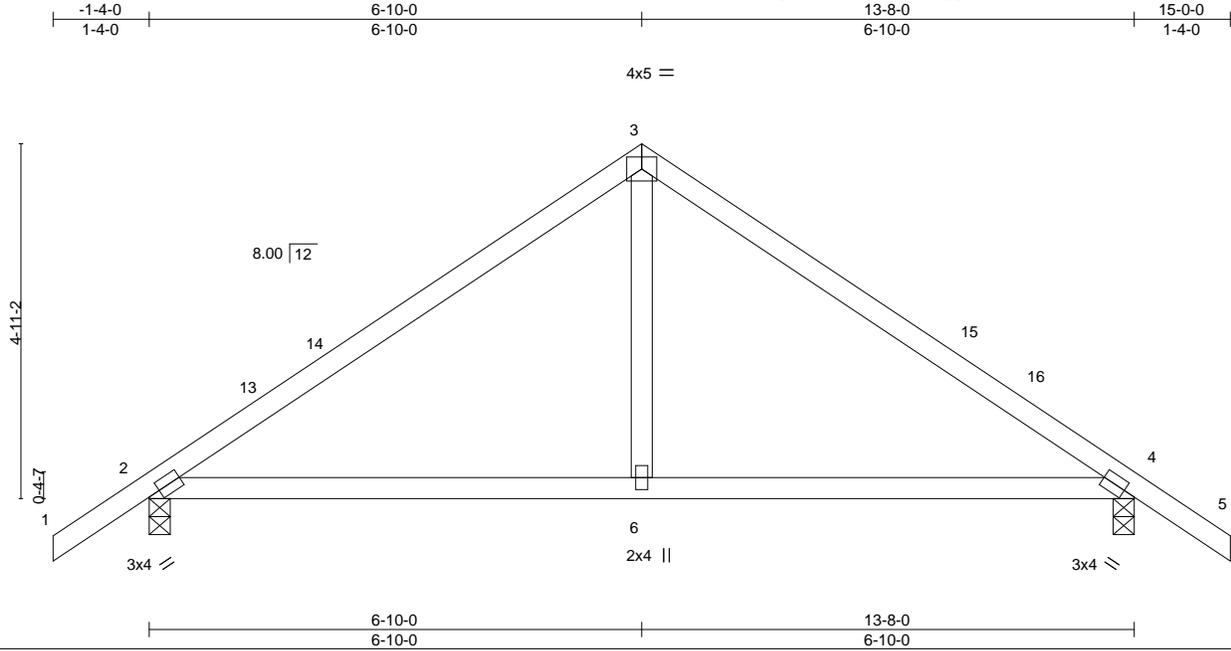
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Job 6240322	Truss P02	Truss Type COMMON	Qty 3	Ply 1	Custom Made Job Reference (optional)	T33959269
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Tibbetts Lumber Co LLC, Ocala, FL 34472

8.730 s Nov 16 2023 MiTek Industries, Inc. Thu May 23 15:56:28 2024 Page 1
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Scale: 3/8"=1'

Plate Offsets (X,Y)--	[2:0-2-0,0-1-8], [4:0-2-0,0-1-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) 0.13	6-12	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.12	6-9	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.01	4	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 56 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-7-3 oc bracing.

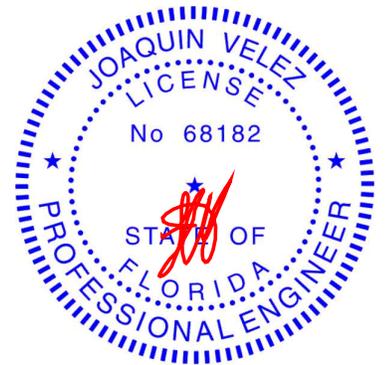
REACTIONS. (lb/size) 2=578/0-3-8 (min. 0-1-8), 4=578/0-3-8 (min. 0-1-8)
Max Horz 2=-172(LC 10)
Max Uplift 2=-417(LC 12), 4=-417(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-608/567, 13-14=-543/571, 3-14=-516/591, 3-15=-516/591, 15-16=-543/571,
4-16=-608/567
BOT CHORD 2-6=-274/429, 4-6=-274/429
WEBS 3-6=-280/319

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C 11-0-15 to 15-0-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 417 lb uplift at joint 2 and 417 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:

May 23,2024

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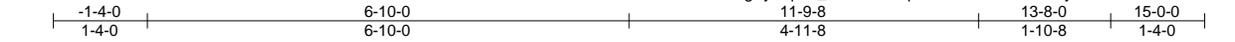
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Job 6240322	Truss P03	Truss Type COMMON	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959270
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

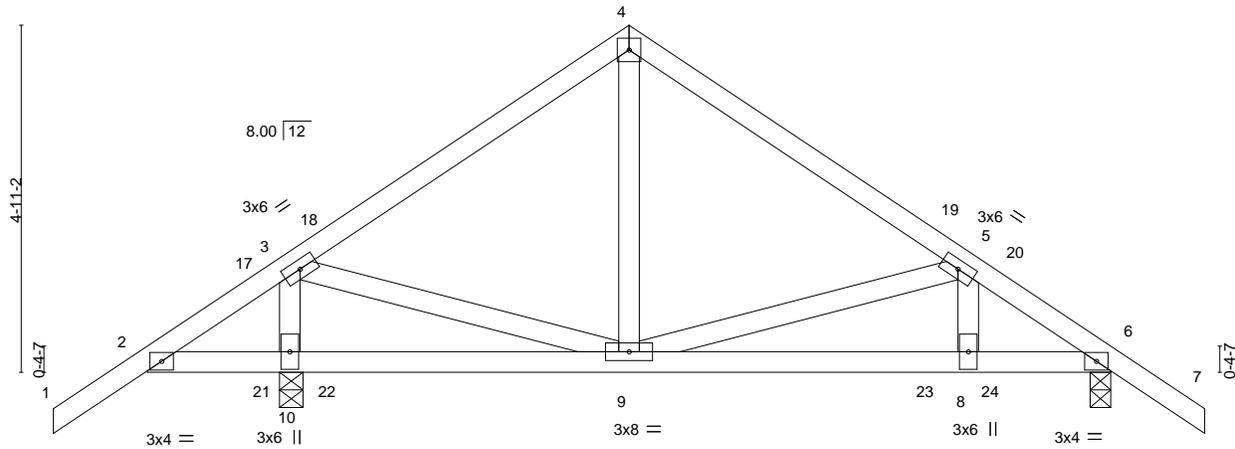
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:06 2024 Page 1

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4x4 =

Scale = 1:32.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.25	Vert(LL) 0.03 8-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.20	Vert(CT) -0.03 8-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.00 10 n/a n/a		
	Code FBC2023/TPI2014			Weight: 74 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

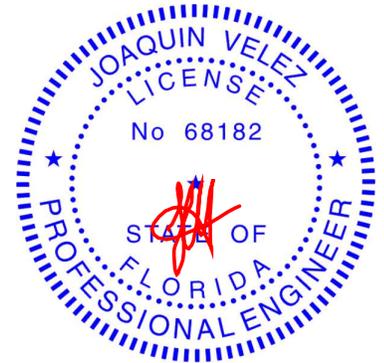
(size) 6=0-3-8, 10=0-4-0
 Max Horz 6=-172(LC 10)
 Max Uplift 6=-345(LC 12), 10=-489(LC 12)
 Max Grav 6=477(LC 1), 10=678(LC 1)

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

TOP CHORD 2-3=-377/238, 3-4=-364/367, 4-5=-362/391, 5-6=-603/606
 BOT CHORD 2-10=-151/441, 9-10=-151/441, 8-9=-427/507, 6-8=-427/507
 WEBS 3-10=-614/721, 3-9=-465/406, 5-9=-290/439

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-10-0, Zone2 6-10-0 to 11-0-15, Zone1 11-0-15 to 15-0-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=345, 10=489.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
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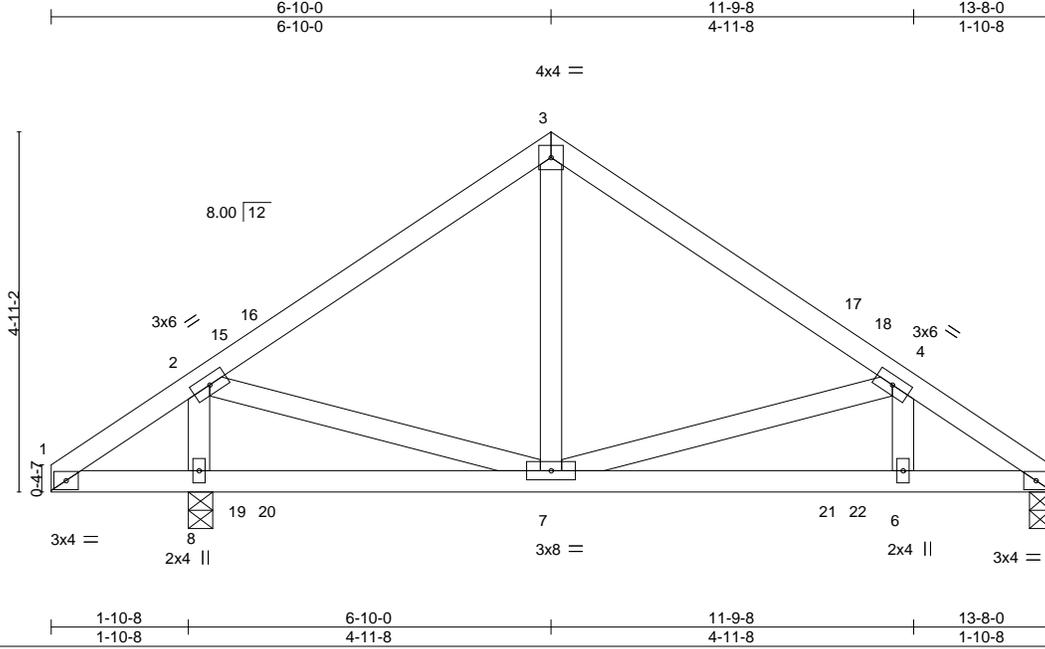
Job 6240322	Truss P04	Truss Type COMMON	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959271
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:07 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-lxtTaxSgH5NKGpSD_gXFYcaOsxNJz2Gbnudy0zDxO6



Scale = 1:31.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.26	Vert(LL) 0.03 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.14	Vert(CT) -0.03 6-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.01 8 n/a n/a		
	Code FBC2023/TPI2014			Weight: 69 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

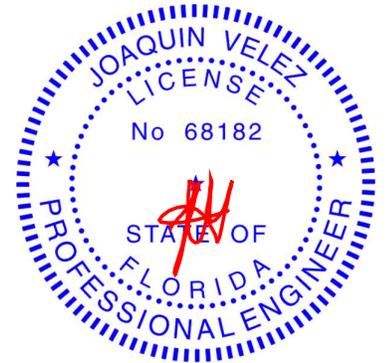
(size) 5=0-3-8, 8=0-4-0
 Max Horz 5=-144(LC 10)
 Max Uplift 5=-285(LC 12), 8=-404(LC 12)
 Max Grav 5=418(LC 1), 8=593(LC 1)

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

TOP CHORD 2-3=-399/424, 3-4=-397/438, 4-5=-668/750
 BOT CHORD 6-7=-598/562, 5-6=-598/562
 WEBS 2-8=-519/566, 2-7=-212/294, 4-7=-319/461

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-10-0, Zone2 6-10-0 to 11-0-15, Zone1 11-0-15 to 13-8-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=285, 8=404.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job 6240322	Truss P05	Truss Type COMMON	Qty 2	Ply 1	Custom Made Job Reference (optional)	T33959272
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:07 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-ixtTaxSgH5NKGpSD_gXFYcaNYxOAZ4hbnsudy0zDxD6

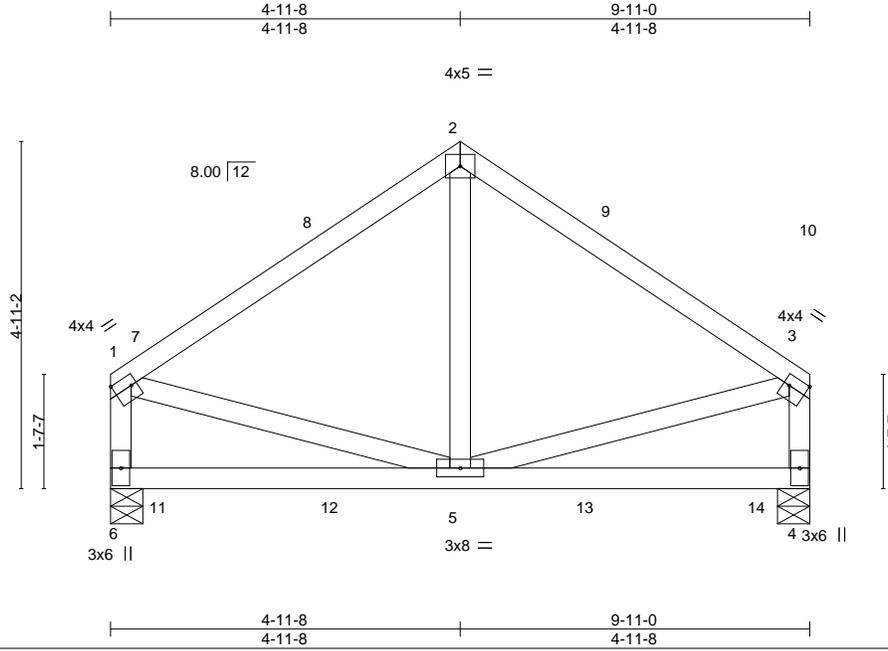


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [3:Edge,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.20	Vert(LL) 0.02 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Vert(CT) -0.02 5-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.00 4 n/a n/a		
	Code FBC2023/TPI2014			Weight: 57 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

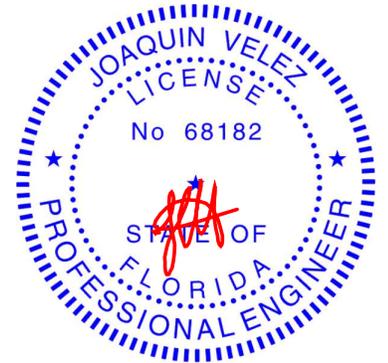
(size) 6=0-5-8, 4=0-5-8
 Max Horz 6=-102(LC 10)
 Max Uplift 6=-242(LC 12), 4=-242(LC 12)
 Max Grav 6=356(LC 1), 4=356(LC 1)

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

TOP CHORD 1-2=-324/400, 2-3=-324/400, 1-6=-313/425, 3-4=-313/425

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 4-11-8, Zone2 4-11-8 to 9-2-7, Zone1 9-2-7 to 9-9-4 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=242, 4=242.



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

May 23, 2024

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MiTek®

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

Job 6240322	Truss PB1	Truss Type GABLE	Qty 2	Ply 1	Custom Made Job Reference (optional)	T33959273
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Tibbetts Lumber Co., LLC (Ocala, FL),

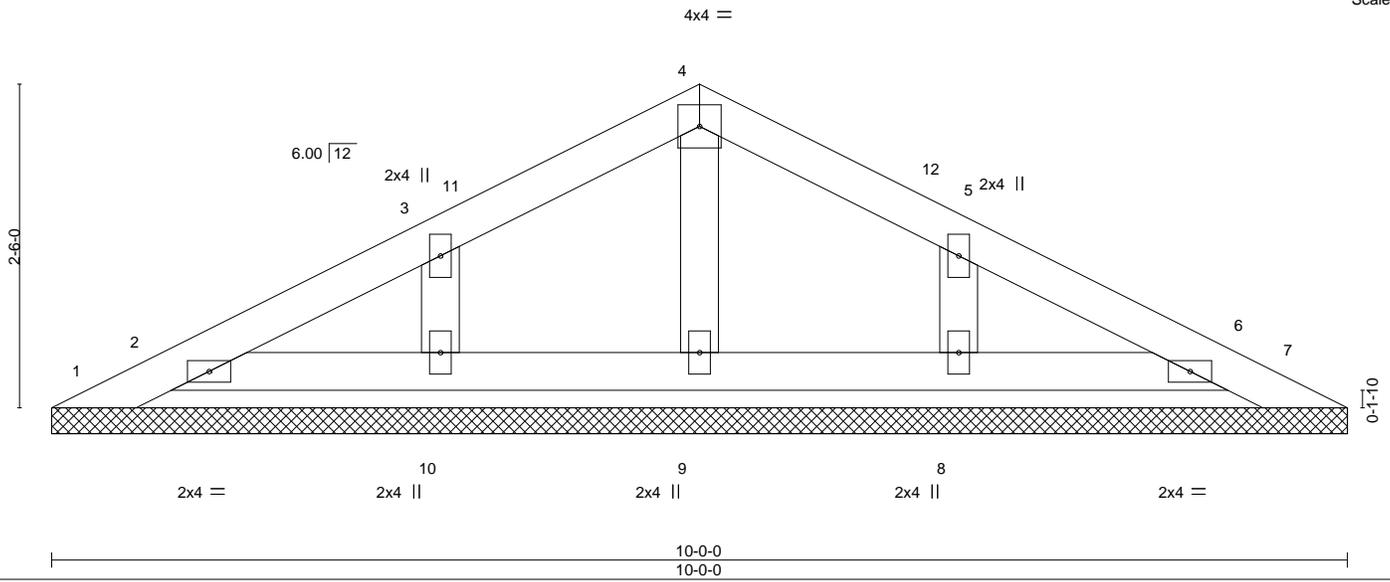
Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:08 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-m8RroHTI2PVbty1QYN2u5q7dKLn_iXzk0WeBUSzDxO5



Scale = 1:17.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.09	Vert(LL) n/a	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT) n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S		Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

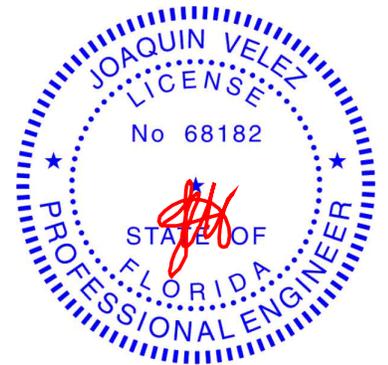
All bearings 10-0-0.
 (lb) - Max Horz 1=-66(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

WEBS 3-10=-129/251, 5-8=-128/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-3-15 to 3-3-15, Zone1 3-3-15 to 5-0-0, Zone2 5-0-0 to 9-0-15, Zone1 9-0-15 to 9-8-1 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 10, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

May 23,2024

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

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959274
6240322	PB2	Piggyback	15	1		

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

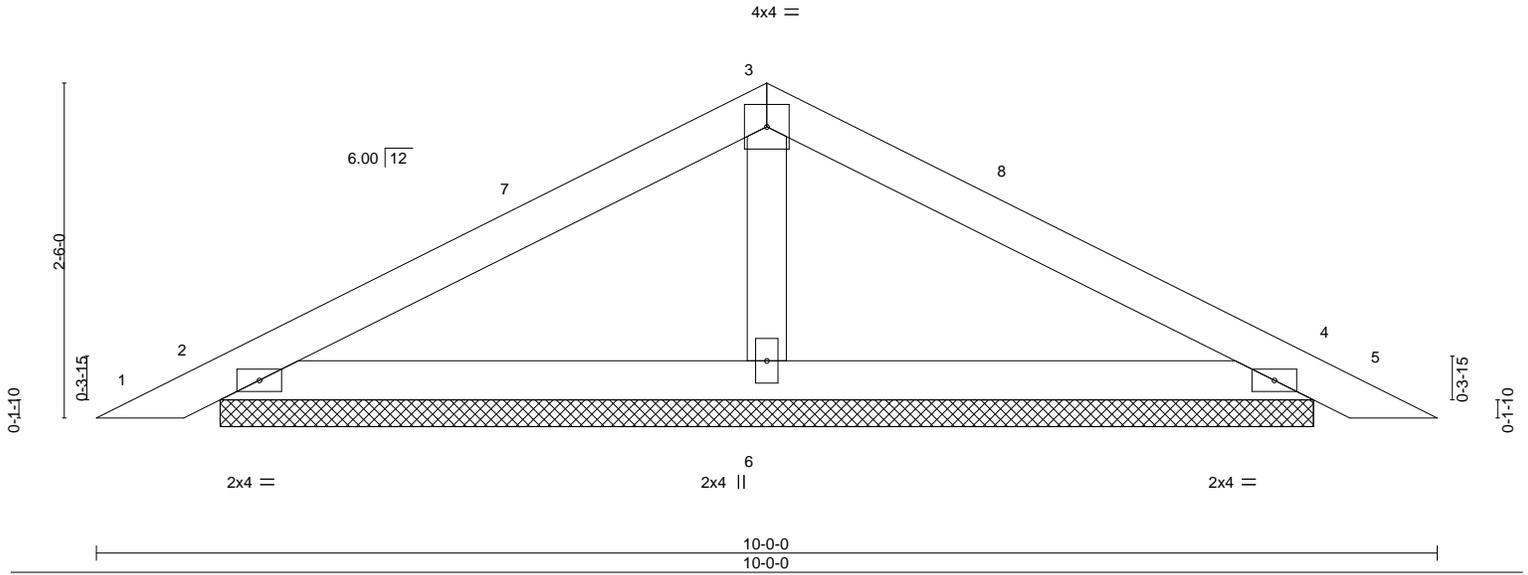
Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:08 2024 Page 1
ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-m8RroHTI2PVBty1QYN2u5q7atLpiXyk0WeBUSzDxO5

5-0-0
5-0-0

10-0-0
5-0-0

Scale = 1:17.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.25	TC 0.27	Vert(LL) 0.01	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.18	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 31 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.

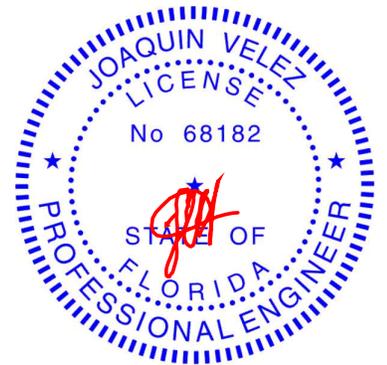
REACTIONS.

(size) 2=8-1-14, 4=8-1-14, 6=8-1-14
Max Horz 2=-66(LC 10)
Max Uplift 2=-88(LC 12), 4=-88(LC 12), 6=-58(LC 12)
Max Grav 2=173(LC 23), 4=173(LC 24), 6=327(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-207/256

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-3-15 to 3-3-15, Zone1 3-3-15 to 5-0-0, Zone2 5-0-0 to 9-0-15, Zone1 9-0-15 to 9-8-1 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

May 23, 2024

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959275
6240322	PB3	GABLE	2	1		

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

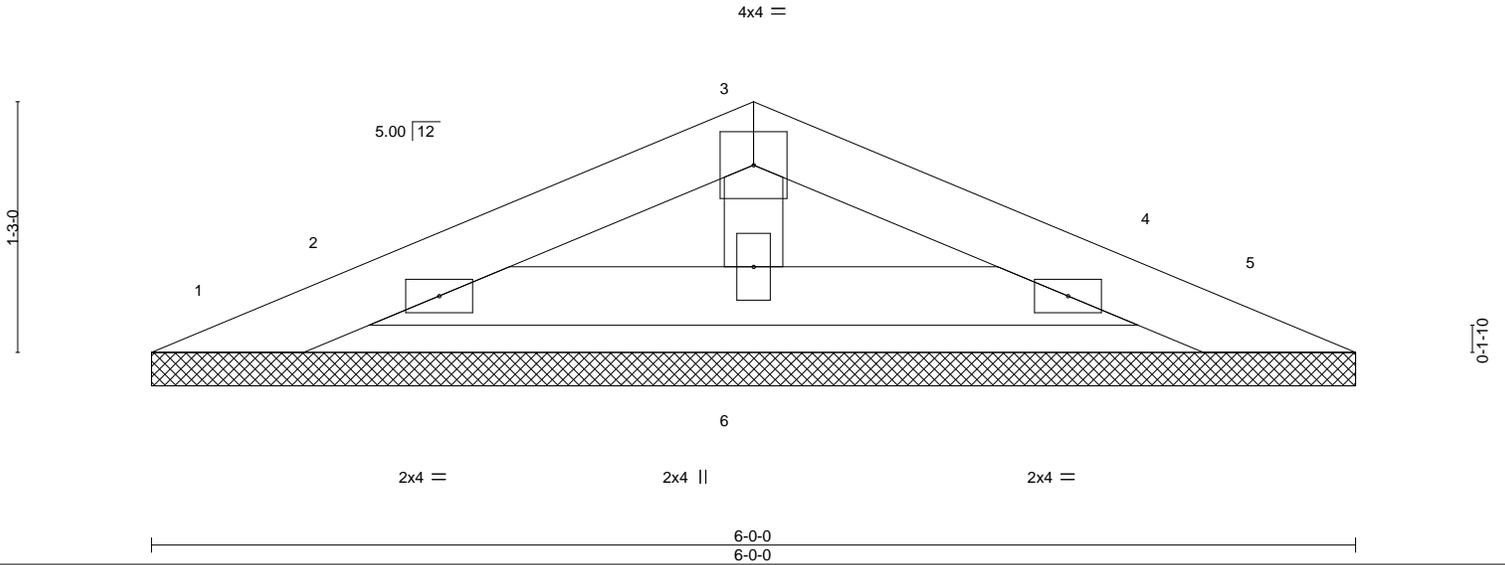
Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:09 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-FK?D?dUwpid2V6cc5Z7e1goOI7DR_VuFANK0uzDxO4

6-0-0
6-0-0

Scale = 1:11.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 16 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 6-0-0.

(lb) - Max Horz 1=-27(LC 10)

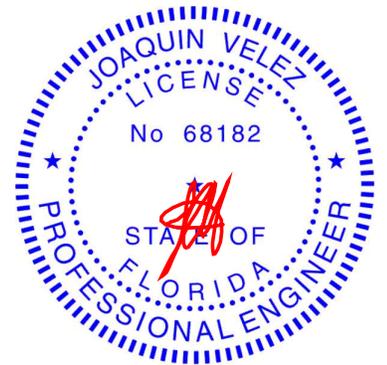
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

May 23, 2024

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MiTek®

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

Job 6240322	Truss PB4	Truss Type Piggyback	Qty 16	Ply 1	Custom Made Job Reference (optional)	T33959276
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:09 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tIzGdXv-FK?D?dUwpid2V6cc55Z7e1gnml4hR_yuFANk0uzDxO4



Scale = 1:11.8

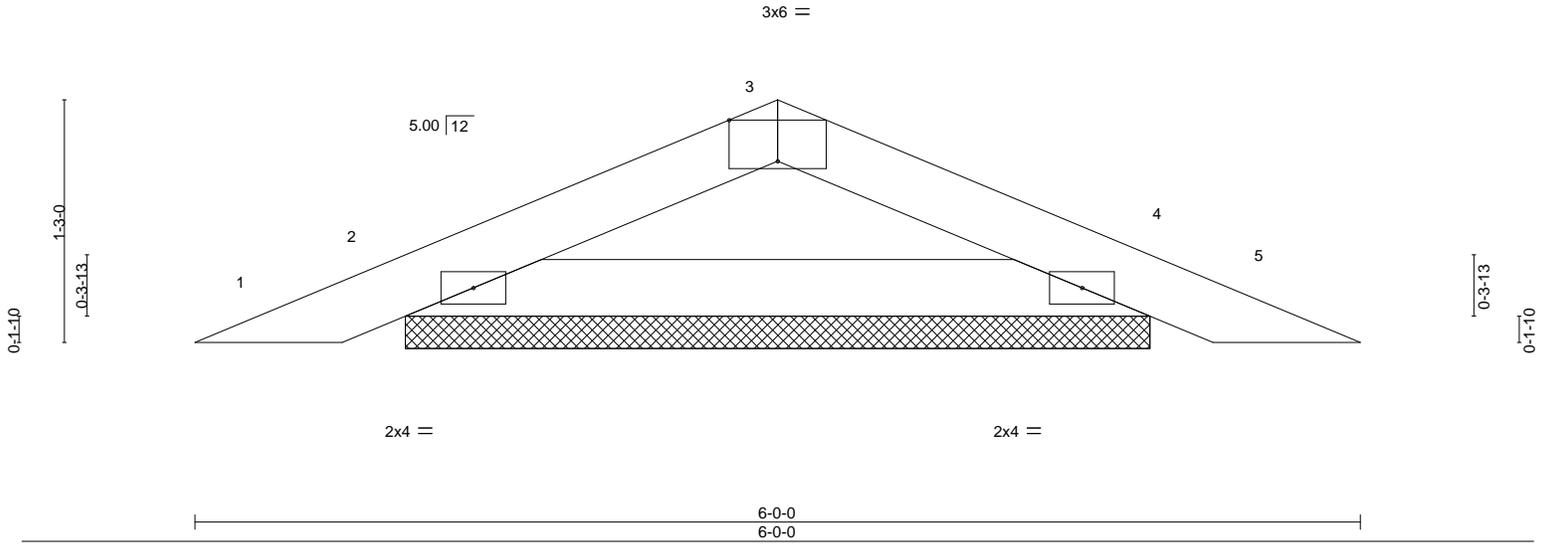


Plate Offsets (X,Y)--	[3:0-3:0,Edge]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.13	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.20	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

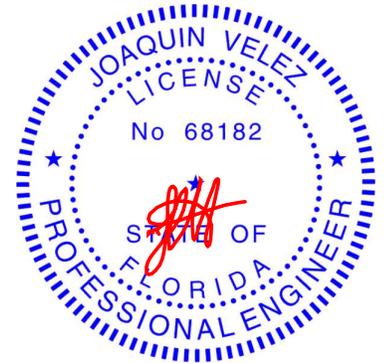
(size) 2=3-10-0, 4=3-10-0
Max Horz 2=-27(LC 10)
Max Uplift 2=-78(LC 12), 4=-78(LC 12)
Max Grav 2=180(LC 1), 4=180(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-138/276, 3-4=-138/274

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

May 23,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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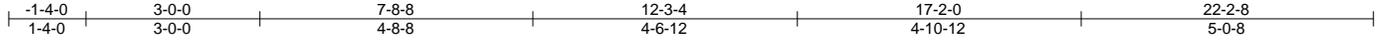
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 6240322	Truss R01	Truss Type Half Hip Girder	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959277
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:10 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-jWZbCzVYa0lv7GBofo4MAFCwn9OqANw1Tq7IYLzDxO3



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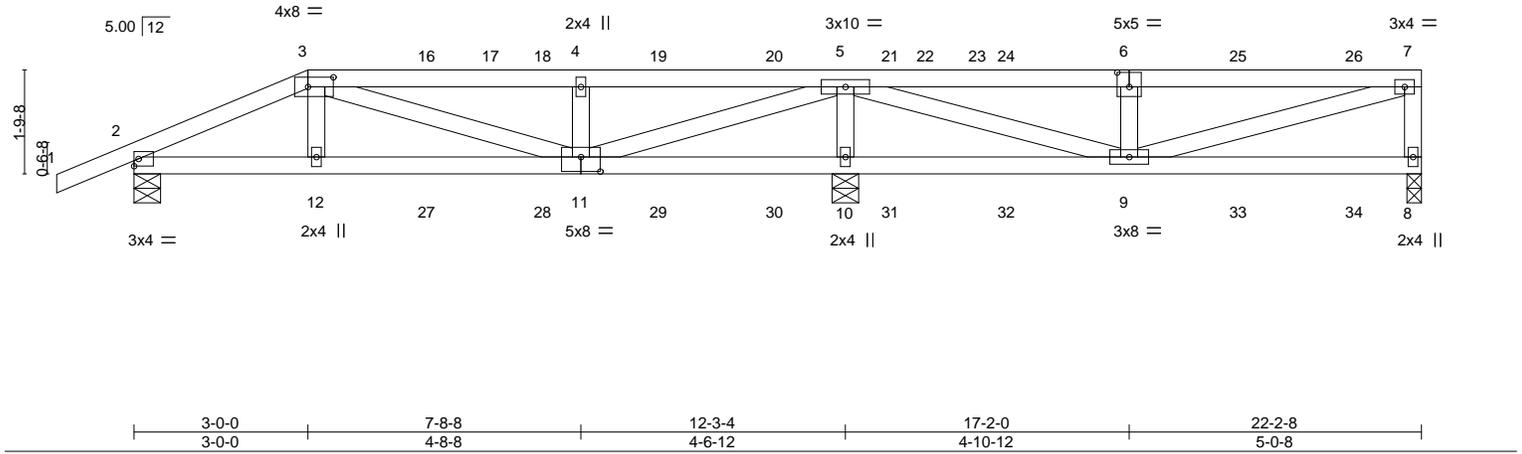


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [6:0-2-8,0-3-0], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) -0.03	11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.07	11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Wind(LL) 0.04	11-12	>999	240		
							Weight: 105 lb	FT = 20%

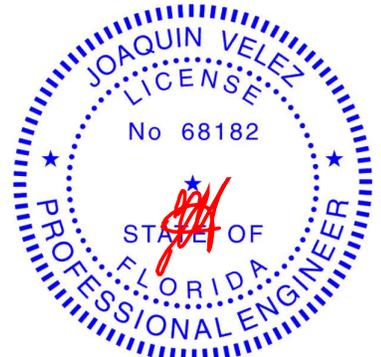
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=0-3-0, 2=0-5-8, 10=0-5-8
 Max Horz 2=87(LC 27)
 Max Uplift 8=-98(LC 5), 2=-190(LC 8), 10=-302(LC 8)
 Max Grav 8=314(LC 1), 2=512(LC 1), 10=1087(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-753/168, 3-4=-672/193, 4-5=-672/193, 5-6=-450/146, 6-7=-450/146, 7-8=-253/125
 BOT CHORD 2-12=-171/667, 11-12=-164/676, 10-11=-467/129, 9-10=-467/129
 WEBS 4-11=-280/183, 5-11=-334/1199, 5-10=-948/358, 5-9=-277/959, 6-9=-294/202, 7-9=-133/408

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=190, 10=302.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 170 lb down and 133 lb up at 3-0-0, 71 lb down and 54 lb up at 5-0-12, 67 lb down and 54 lb up at 7-0-12, 67 lb down and 54 lb up at 9-0-12, 67 lb down and 54 lb up at 11-0-12, 67 lb down and 54 lb up at 13-0-12, 69 lb down and 54 lb up at 15-0-12, 71 lb down and 54 lb up at 17-0-12, and 71 lb down and 54 lb up at 19-0-12, and 71 lb down and 54 lb up at 21-0-12 on top chord, and 69 lb down at 3-0-0, 20 lb down at 5-0-12, 20 lb down at 7-0-12, 20 lb down at 9-0-12, 20 lb down at 11-0-12, 20 lb down at 13-0-12, 20 lb down at 15-0-12, 20 lb down at 17-0-12, and 20 lb down at 19-0-12, and 20 lb down at 21-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



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

May 23, 2024

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959277
6240322	R01	Half Hip Girder	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:10 2024 Page 2
ID:hhuEHmS9WugZyGq6sr_tZlzGdXv-jWZbCzVYa0lv7GBofo4MAFCwn9OqANw1Tq71YLzDxO3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-7=-54, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-23(B) 12=-20(B) 6=-10(B) 9=-9(B) 16=-10(B) 18=-10(B) 19=-10(B) 20=-10(B) 21=-10(B) 24=-10(B) 25=-10(B) 26=-10(B) 27=-9(B) 28=-9(B) 29=-9(B)
30=-9(B) 31=-9(B) 32=-9(B) 33=-9(B) 34=-9(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 6240322	Truss T01	Truss Type Half Hip Girder	Qty 1	Ply 1	Custom Made	T33959279
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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:11 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-Bj6zQJVAlKtmkQm_DVbbjSI54YkevsWBiU5r5nzDxO2

Job Reference (optional)



Scale: 1/2"=1'

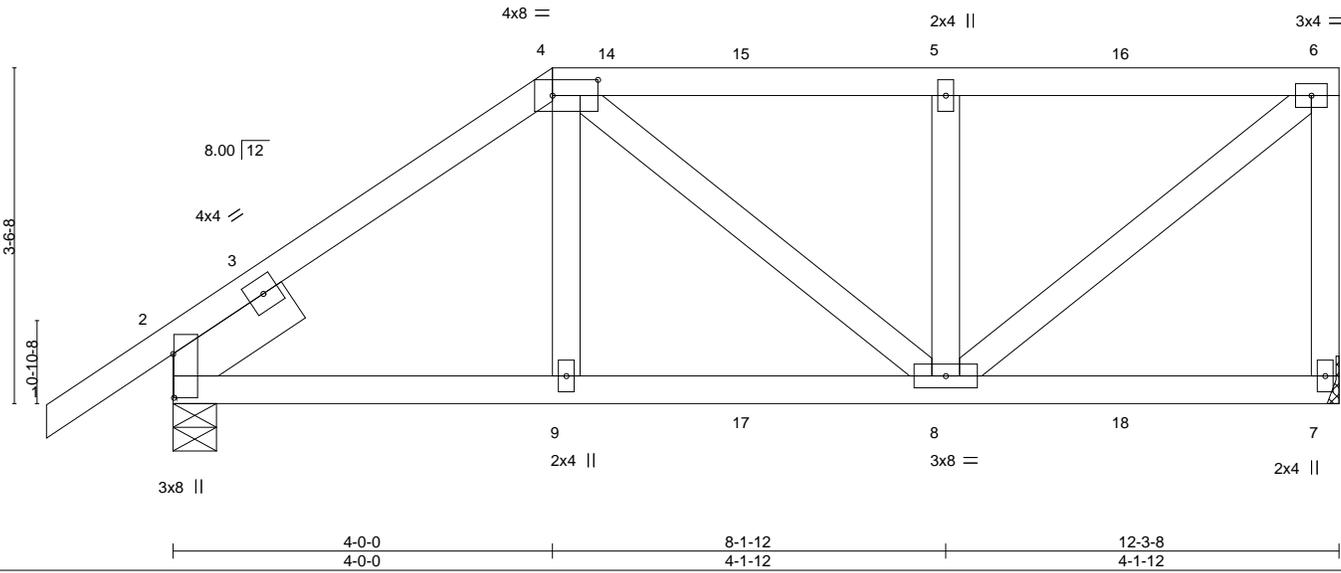


Plate Offsets (X,Y)-- [2:0-5-9,0-0-2], [4:0-5-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.27	Vert(LL) -0.02	8-9	>999	360	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.36	Vert(CT) -0.04	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.16	Horz(CT) -0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS	Wind(LL) 0.03	8-9	>999	240		
							Weight: 71 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=Mechanical, 2=0-5-8
 Max Horz 2=167(LC 8)
 Max Uplift 7=321(LC 5), 2=310(LC 8)
 Max Grav 7=712(LC 31), 2=699(LC 31)

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

TOP CHORD 2-4=-760/316, 4-5=-597/272, 5-6=-597/272, 6-7=-634/357
 BOT CHORD 2-9=-295/600, 8-9=-295/609
 WEBS 5-8=-335/281, 6-8=-343/751

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl.; GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=321, 2=310.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 197 lb down and 198 lb up at 4-0-0, 105 lb down and 99 lb up at 6-0-12, 105 lb down and 99 lb up at 8-0-12, and 105 lb down and 99 lb up at 10-0-12, and 89 lb down and 92 lb up at 12-1-12 on top chord, and 155 lb down and 75 lb up at 4-0-0, 32 lb down at 6-0-12, 32 lb down at 8-0-12, and 32 lb down at 10-0-12, and 48 lb down at 12-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-6=-54, 7-10=-20



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

May 23, 2024

Continued on page 2

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 Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Custom Made	T33959279
6240322	T01	Half Hip Girder	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:11 2024 Page 2
 ID:hhuEHmS9WugZyGq6sr_tZlZGdXv-Bj6zQJVALKtmkQm_DVbbjSI54YkevsWBiUsr5nzDxO2

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-40(F) 7=-28(F) 9=-84(F) 5=-32(F) 8=-19(F) 6=-57(F) 15=-32(F) 16=-32(F) 17=-19(F) 18=-19(F)

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

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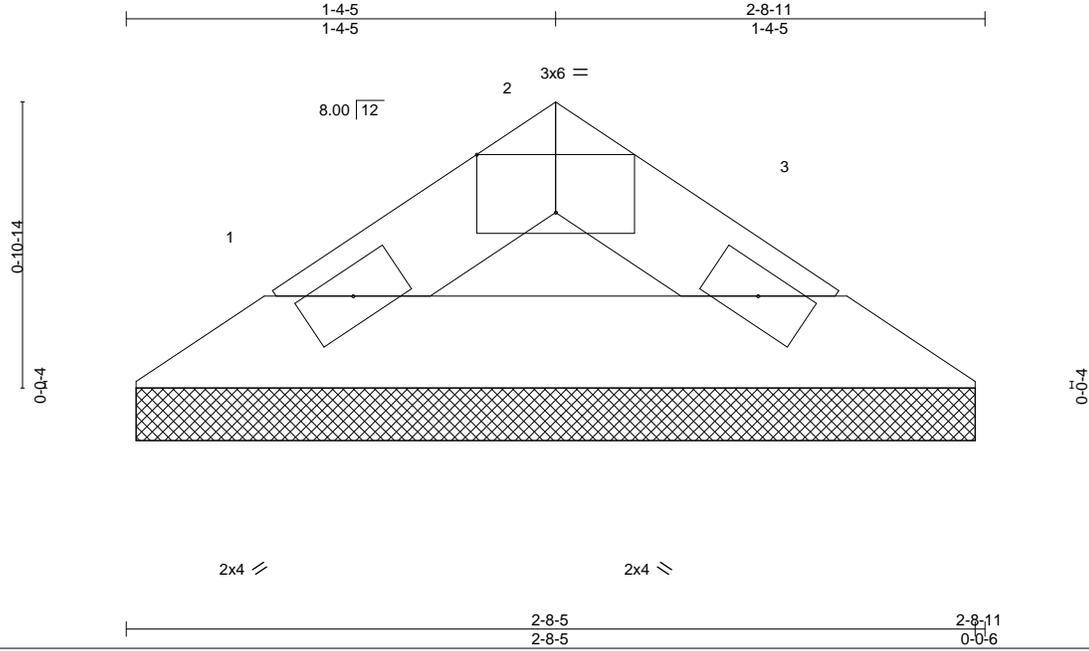
Job 6240322	Truss V3	Truss Type Valley	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959280
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:12 2024 Page 1

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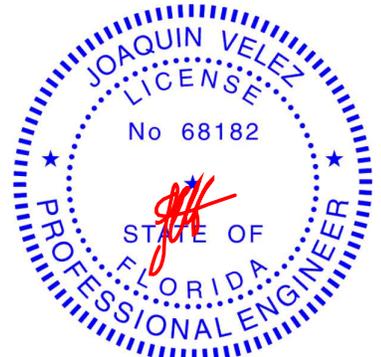
LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-P					Weight: 7 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-7-15, 3=2-7-15
 Max Horz 1=19(LC 10)
 Max Uplift 1=18(LC 12), 3=18(LC 12)
 Max Grav 1=65(LC 1), 3=65(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

May 23, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
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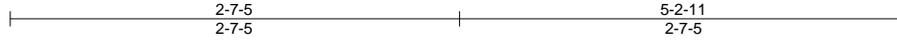
Job 6240322	Truss V5	Truss Type Valley	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959281
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Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

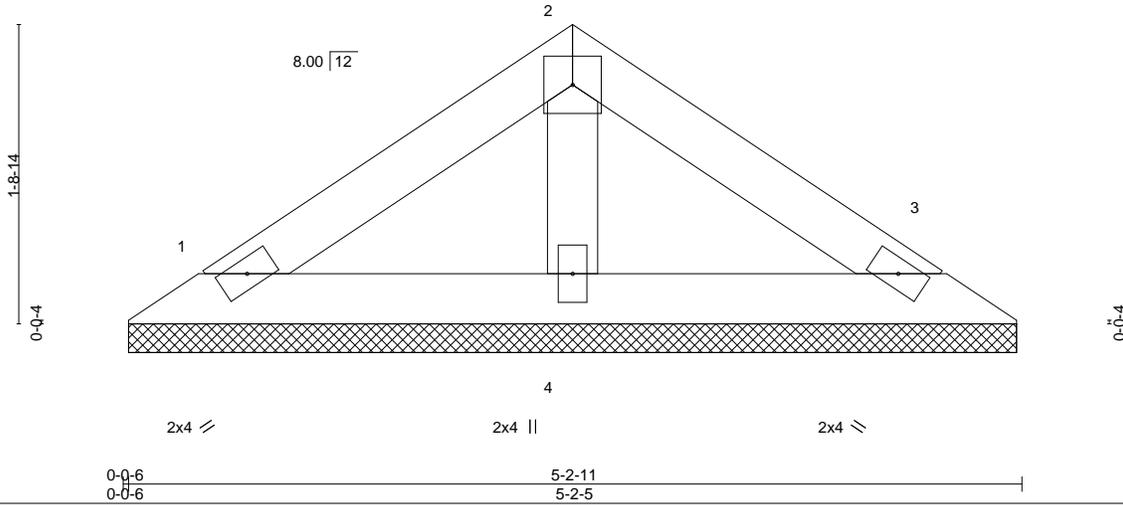
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:12 2024 Page 1

ID:hhuEHmS9WugZyGq6sr_tIzGdXv-fvgMdfWo6d?dMaLbnD6qFgllY8neLDKx8cOdDzDxO1



4x4 =

Scale = 1:13.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 17 lb	FT = 20%
	Code FBC2023/TPI2014							

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 5-2-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

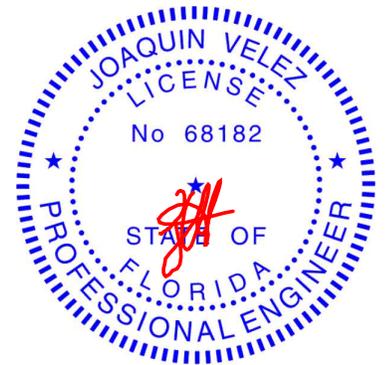
REACTIONS.

(size) 1=5-1-15, 3=5-1-15, 4=5-1-15
 Max Horz 1=-45(LC 10)
 Max Uplift 1=-37(LC 12), 3=-37(LC 12), 4=-14(LC 12)
 Max Grav 1=84(LC 1), 3=84(LC 1), 4=148(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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

May 23, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 6240322	Truss V8	Truss Type Valley	Qty 1	Ply 1	Custom Made Job Reference (optional)	T33959282
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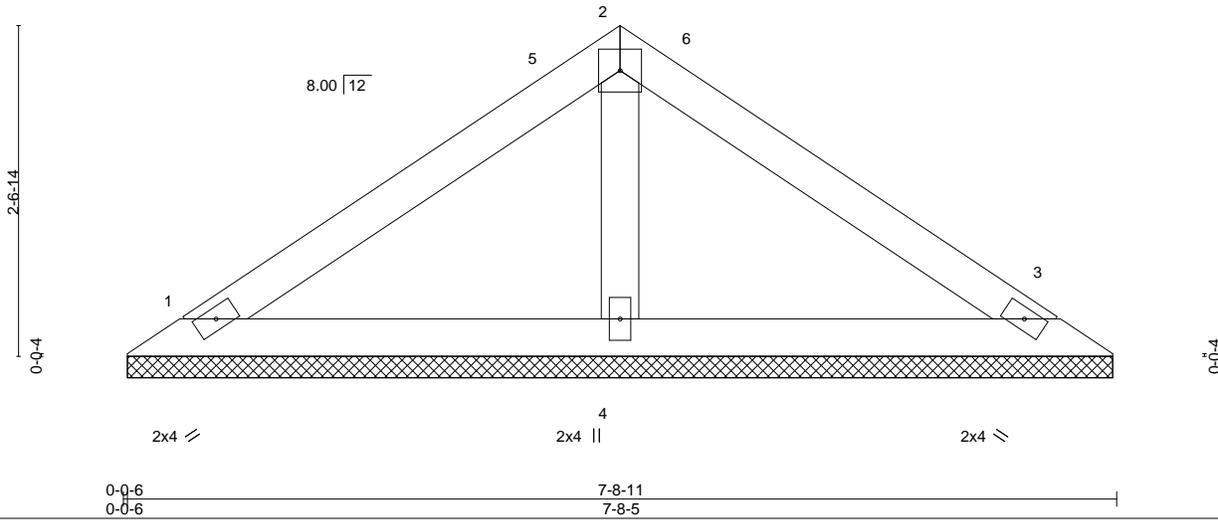
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed May 22 13:12:13 2024 Page 1
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4x4 =

Scale = 1:17.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 26 lb	FT = 20%
	Code FBC2023/TPI2014							

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.

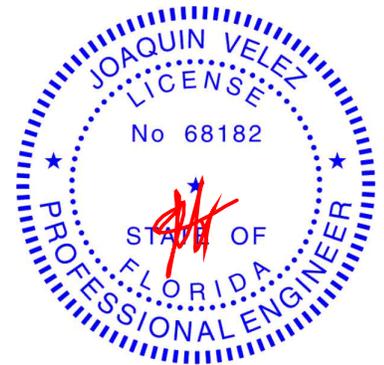
REACTIONS.

(size) 1=7-7-15, 3=7-7-15, 4=7-7-15
Max Horz 1=-71(LC 10)
Max Uplift 1=-47(LC 12), 3=-47(LC 12), 4=-46(LC 12)
Max Grav 1=121(LC 1), 3=122(LC 18), 4=258(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 3-10-5, Zone3 3-10-5 to 7-2-14 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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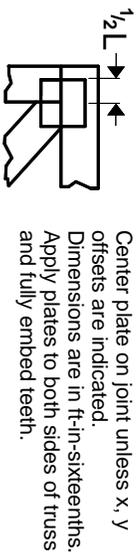
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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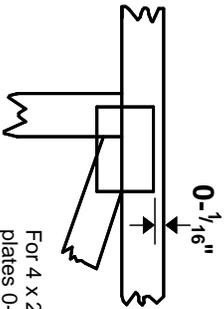
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Symbols

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 MITtek software or upon request.

PLATE SIZE

4 X 4

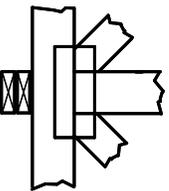
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

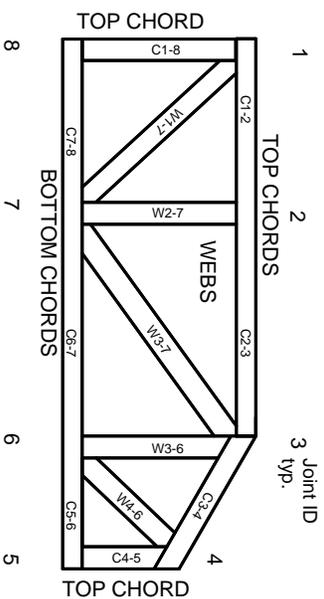


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: 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-1-1988, ESR-2-362, ESR-2-685, ESR-3-282
ESR-4-722, ESL-1-388

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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

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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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023