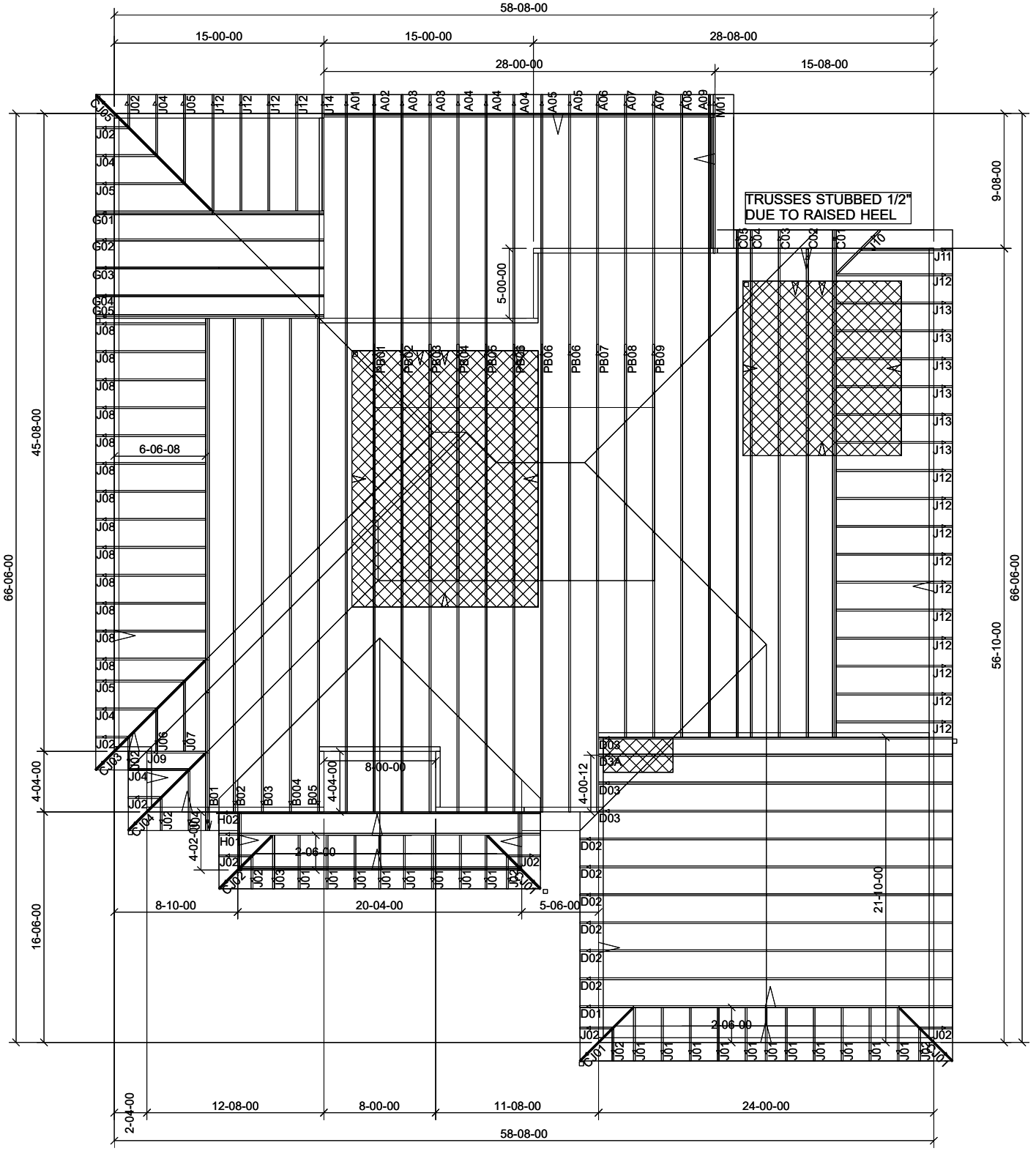


ROOF PITCH: 7/12

CLG PITCH: 16" DEPTH
STEP TRAYS MBR & FR

O.H.: 16" PLUMB CUT

WIND: 130 MPH

EXP: "B"

LOADING: 40 PSF

WALLS: 2 X 4 X 10'

DATE: 12/2/2021

REVISED: 6/3/2022

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

RE: WESTON_OAKS_LOT_53 - PAYNE

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

Site Information:

Customer Info: BRUCE SCHAFER Project Name: PAYNE Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: GAINESVILLE 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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 59 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	T27911803	A01	6/3/22	23	T27911825	CJ04	6/3/22
2	T27911804	A02	6/3/22	24	T27911826	CJ05	6/3/22
3	T27911805	A03	6/3/22	25	T27911827	D01	6/3/22
4	T27911806	A04	6/3/22	26	T27911828	D02	6/3/22
5	T27911807	A05	6/3/22	27	T27911829	D03	6/3/22
6	T27911808	A06	6/3/22	28	T27911830	D3A	6/3/22
7	T27911809	A07	6/3/22	29	T27911831	G01	6/3/22
8	T27911810	A08	6/3/22	30	T27911832	G02	6/3/22
9	T27911811	A09	6/3/22	31	T27911833	G03	6/3/22
10	T27911812	B01	6/3/22	32	T27911834	G04	6/3/22
11	T27911813	B02	6/3/22	33	T27911835	G05	6/3/22
12	T27911814	B03	6/3/22	34	T27911836	H01	6/3/22
13	T27911815	B004	6/3/22	35	T27911837	H02	6/3/22
14	T27911816	B05	6/3/22	36	T27911838	J01	6/3/22
15	T27911817	C01	6/3/22	37	T27911839	J02	6/3/22
16	T27911818	C02	6/3/22	38	T27911840	J03	6/3/22
17	T27911819	C03	6/3/22	39	T27911841	J04	6/3/22
18	T27911820	C04	6/3/22	40	T27911842	J05	6/3/22
19	T27911821	C05	6/3/22	41	T27911843	J06	6/3/22
20	T27911822	CJ01	6/3/22	42	T27911844	J07	6/3/22
21	T27911823	CJ02	6/3/22	43	T27911845	J08	6/3/22
22	T27911824	CJ03	6/3/22	44	T27911846	J09	6/3/22

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

Truss Design Engineer's Name: Magid, Michael
My license renewal date for the state of Florida is February 28, 2023.

Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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.

RE: WESTON_OAKS_LOT_53 - PAYNE

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

Site Information:

Customer Info: BRUCE SCHAFER Project Name: PAYNE Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: GAINESVILLE State: FL

No.	Seal#	Truss Name	Date
45	T27911847	J10	6/3/22
46	T27911848	J11	6/3/22
47	T27911849	J12	6/3/22
48	T27911850	J13	6/3/22
49	T27911851	J14	6/3/22
50	T27911852	M01	6/3/22
51	T27911853	PB01	6/3/22
52	T27911854	PB02	6/3/22
53	T27911855	PB03	6/3/22
54	T27911856	PB04	6/3/22
55	T27911857	PB05	6/3/22
56	T27911858	PB06	6/3/22
57	T27911859	PB07	6/3/22
58	T27911860	PB08	6/3/22
59	T27911861	PB09	6/3/22

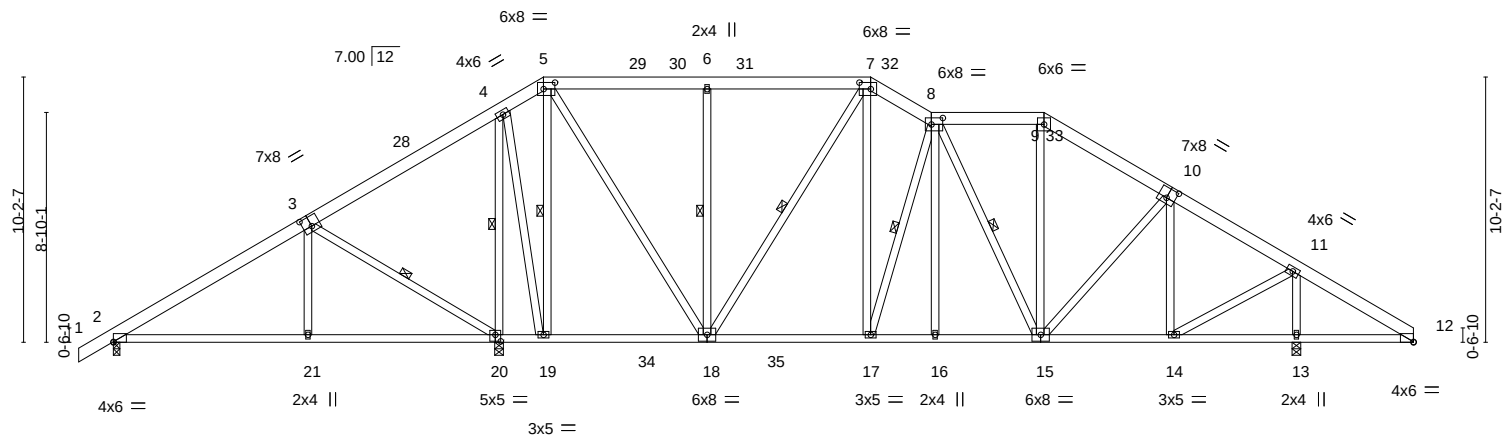
Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A01	Roof Special	1	1	T27911803
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:22 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-yGpPMCKdkeLfK7myttvm7qLptK43qGsIX5DMmsz9znt

1-4-0	7-5-13	14-10-0	16-6-8	22-10-0	29-1-8	31-5-8	35-9-8	40-7-12	45-6-0	50-0-0
1-4-0	7-5-13	7-4-3	1-8-8	6-3-8	6-3-8	2-4-0	4-4-0	4-10-4	4-10-4	4-6-0

Scale = 1:88.6



7-5-13	14-10-0	16-6-8	22-10-0	29-1-8	31-5-8	35-9-8	40-7-12	45-6-0	45-8-0	50-0-0
7-5-13	7-4-3	1-8-8	6-3-8	6-3-8	2-4-0	4-4-0	4-10-4	4-10-4	0-2-0	4-4-0

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-4-0,0-4-8], [5:0-5-4,0-3-0], [7:0-5-4,0-3-0], [8:0-5-4,0-3-0], [10:0-4-0,0-4-8], [12:0-0-0,0-0-4], [20:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.11	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.20	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 407 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-20, 4-20, 5-19, 6-18, 7-18, 8-17, 8-15

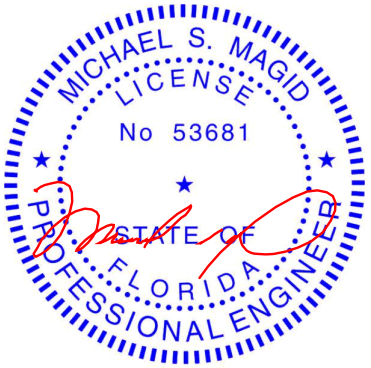
REACTIONS. (size) 2=0-3-0, 20=0-4-0, 13=0-4-0
Max Horz 2=195(LC 11)
Max Uplift 2=-38(LC 12), 13=-1(LC 12)
Max Grav 2=707(LC 17), 20=2105(LC 17), 13=1797(LC 18)

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

TOP CHORD	2-3=-724/30, 4-5=-450/172, 5-6=-884/151, 6-7=-884/151, 7-8=-1277/149, 8-9=-1089/118, 9-10=-1281/105, 10-11=-1160/50, 11-12=-159/333
BOT CHORD	2-21=0/632, 20-21=0/630, 18-19=0/280, 17-18=0/1068, 16-17=0/1177, 15-16=0/1179, 14-15=0/900
WEBS	3-21=0/339, 3-20=-677/42, 4-20=-1700/52, 4-19=0/1083, 5-19=-771/0, 5-18=-35/1115, 6-18=-430/100, 7-18=-448/0, 7-17=0/737, 8-17=-486/63, 8-15=-365/25, 9-15=0/329, 10-14=-460/102, 11-14=-48/1265, 11-13=-1645/201

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior(1) 3-8-0 to 16-6-8, Exterior(2R) 16-6-8 to 21-6-8, Interior(1) 21-6-8 to 29-1-8, Exterior(2E) 29-1-8 to 31-5-8, Interior(1) 31-5-8 to 35-9-8, Exterior(2R) 35-9-8 to 40-7-6, Interior(1) 40-7-6 to 50-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A02	PIGGYBACK BASE	1	1	T27911804
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:24 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-ufwAntMtGGcMaRwL_IxECFQ9m8l7I9Ob_OiSrkz9znr

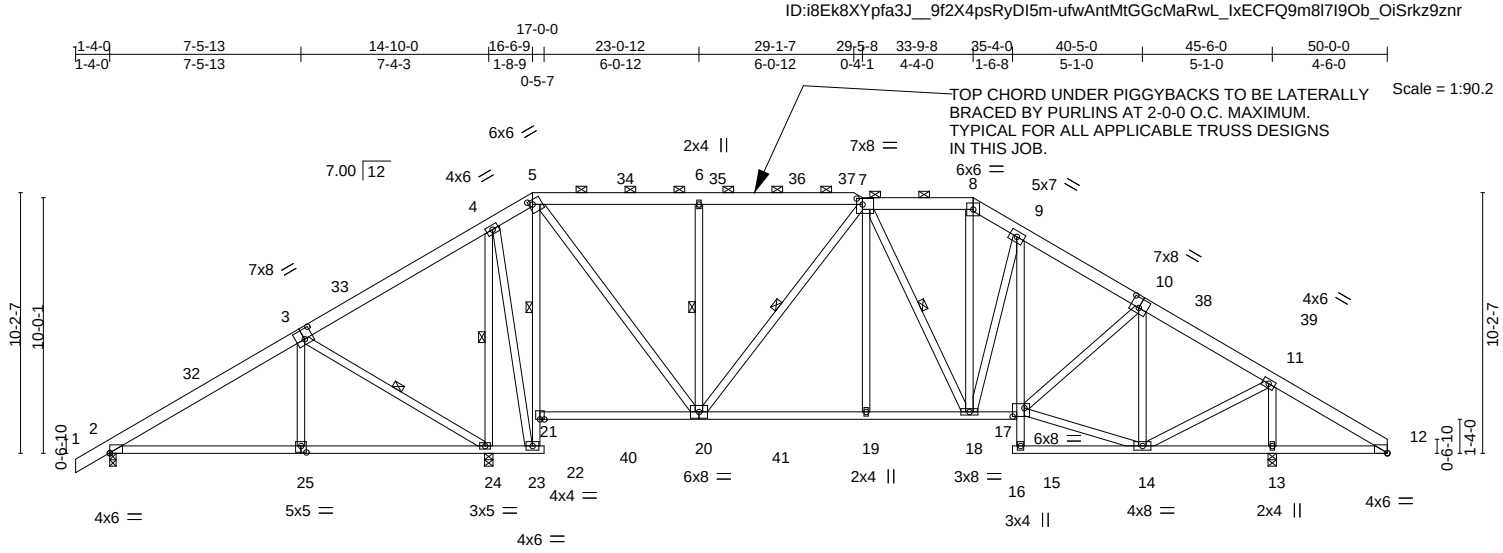


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-4-0,0-4-8], [5:0-1-12,0-2-0], [7:0-2-12,0-2-12], [10:0-4-0,0-4-8], [12:0-0-0,0-0-4], [17:0-5-8,0-4-0], [25:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.13	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.24	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 404 lb	FT = 20%

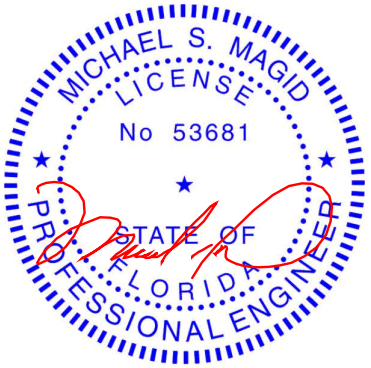
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 5-21
5-4-0 oc bracing: 21-23
10-0-0 oc bracing: 15-17
WEBS 1 Row at midpt 3-24, 4-24, 6-20, 7-20, 7-18

REACTIONS. (size) 2=0-3-0, 24=0-4-0, 13=0-4-0
Max Horz 2=193(LC 11)
Max Uplift 2=-113(LC 12), 13=-35(LC 12)
Max Grav 2=490(LC 21), 24=2518(LC 17), 13=1685(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-277/177, 3-4=0/637, 4-5=-111/267, 5-6=-712/204, 6-7=-714/203, 7-8=-1050/151, 8-9=-1221/167, 9-10=-1342/128, 10-11=-1065/86, 11-12=-164/327
BOT CHORD 23-24=-384/0, 21-23=-1239/0, 5-21=-1063/0, 19-20=0/986, 18-19=0/991, 17-18=0/1071
WEBS 3-24=-595/53, 4-24=-1874/0, 4-23=0/1169, 5-20=0/1331, 6-20=-465/84, 7-20=-570/0, 7-19=0/341, 8-18=-50/391, 9-18=-381/63, 14-17=0/785, 10-17=-8/362, 10-14=-617/67, 11-14=-31/1147, 11-13=-1522/150

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior(1) 3-8-0 to 16-6-9, Exterior(2R) 16-6-9 to 23-7-6, Interior(1) 23-7-6 to 33-9-8, Exterior(2R) 33-9-8 to 40-10-6, Interior(1) 40-10-6 to 50-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=113.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A03	PIGGYBACK BASE	2	1	T27911805
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:26 2022 Page 1
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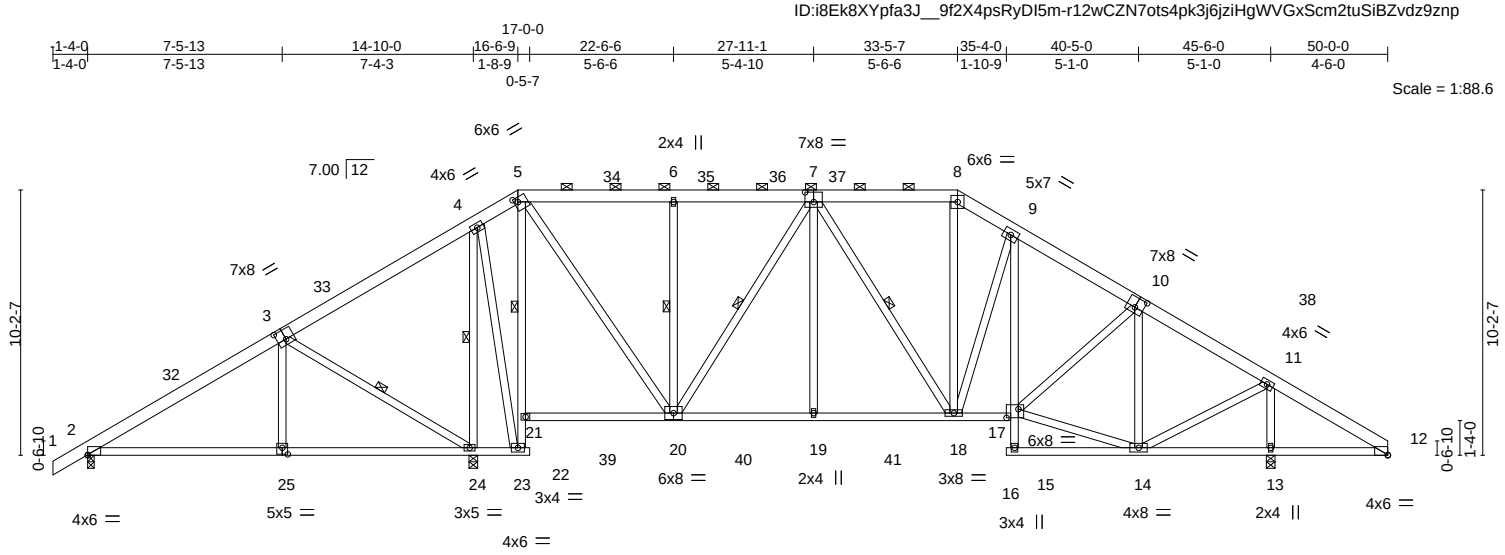


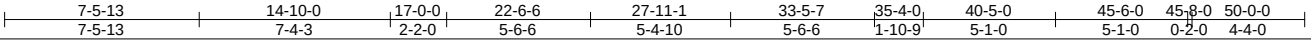


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-4-0,0-4-8], [5:0-1-12,0-2-0], [7:0-4-0,0-4-8], [10:0-4-0,0-4-8], [12:0-0-0,0-0-4], [17:0-5-8,0-4-0], [25:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.10	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.21	25-28	>865	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 404 lb	FT = 20%

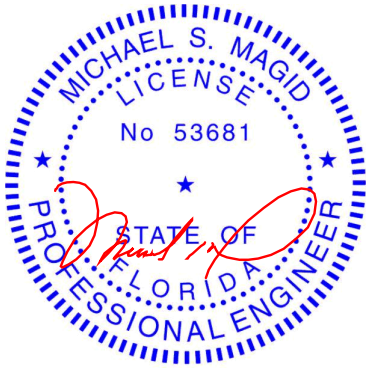
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 5-21
5-4-0 oc bracing: 21-23
10-0-0 oc bracing: 15-17
WEBS 1 Row at midpt 3-24, 4-24, 6-20, 7-20, 7-18

REACTIONS. (size) 2=0-3-0, 24=0-4-0, 13=0-4-0
Max Horz 2=195(LC 11)
Max Uplift 2=-110(LC 12), 13=-33(LC 12)
Max Grav 2=496(LC 21), 24=2521(LC 17), 13=1704(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-288/171, 3-4=0/622, 4-5=-119/264, 5-6=-685/201, 6-7=-685/201, 7-8=-1070/149, 8-9=-1245/163, 9-10=-1371/127, 10-11=-1084/85, 11-12=-164/327
BOT CHORD 23-24=-371/0, 21-23=-1235/0, 5-21=-1075/0, 19-20=0/966, 18-19=0/966, 17-18=0/1094
WEBS 3-24=-594/53, 4-24=-1876/0, 4-23=0/1164, 5-20=0/1338, 6-20=-421/84, 7-20=-658/0, 7-19=0/344, 8-18=-39/377, 9-18=-343/65, 14-17=0/798, 10-17=-7/372, 10-14=-630/65, 11-14=-27/1166, 11-13=-1540/148

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior(1) 3-8-0 to 16-6-9, Exterior(2R) 16-6-9 to 23-7-6, Interior(1) 23-7-6 to 33-5-7, Exterior(2R) 33-5-7 to 40-4-10, Interior(1) 40-4-10 to 50-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=110.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



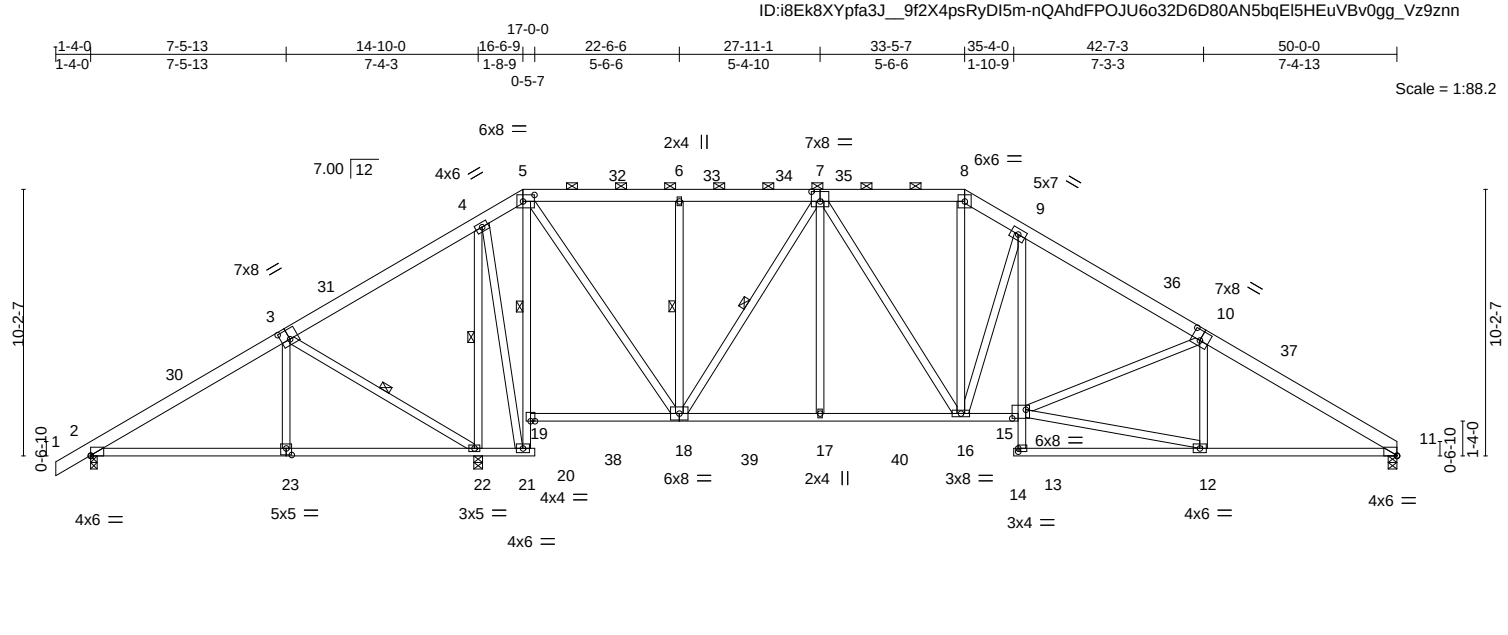
Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A04	PIGGYBACK BASE	3	1	T27911806
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:28 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-nQAhdFPOJU6o32D6D80AN5bqEl5HEuVBv0gg_Vz9znn



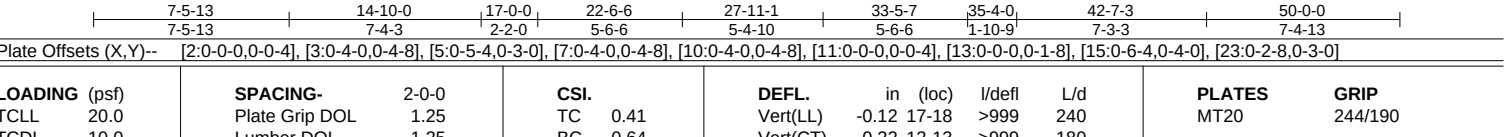


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [3:0-4-0,0-4-8], [5:0-5-4,0-3-0], [7:0-4-0,0-4-8], [10:0-4-0,0-4-8], [11:0-0-0,0-0-4], [13:0-0-0,0-1-8], [15:0-6-4,0-4-0], [23:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.12	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.22	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 396 lb	FT = 20%

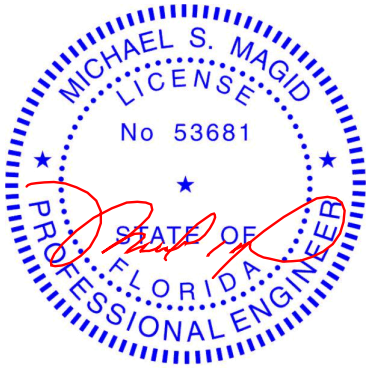
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-11-5 max.): 5-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 5-19
4-8-0 oc bracing: 19-21
10-0-0 oc bracing: 13-15
WEBS 1 Row at midpt 3-22, 4-22, 6-18, 7-18

REACTIONS. (size) 2=0-3-0, 11=0-4-0, 22=0-4-0
Max Horz 2=195(LC 11)
Max Uplift 2=-110(LC 12), 11=-29(LC 12)
Max Grav 2=437(LC 21), 11=1498(LC 18), 22=2847(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-175/315, 3-4=0/795, 4-5=-52/265, 5-6=-751/205, 6-7=-751/205, 7-8=-1472/158, 8-9=-1735/182, 9-10=-2052/137, 10-11=-2332/70
BOT CHORD 21-22=-533/0, 19-21=-1540/0, 5-19=-1367/0, 18-19=-284/6, 17-18=0/1192, 16-17=0/1192, 15-16=0/1671, 9-15=0/704, 11-12=0/1932
WEBS 3-22=-592/53, 4-22=-2160/0, 4-21=0/1421, 5-18=0/1659, 6-18=-423/84, 7-18=-969/0, 7-17=0/341, 7-16=0/378, 8-16=-74/665, 9-16=-928/113, 12-15=-20/1812, 10-15=-282/38

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior(1) 3-8-0 to 16-6-9, Exterior(2R) 16-6-9 to 23-7-6, Interior(1) 23-7-6 to 33-5-7, Exterior(2R) 33-5-7 to 40-6-5, Interior(1) 40-6-5 to 50-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=110.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

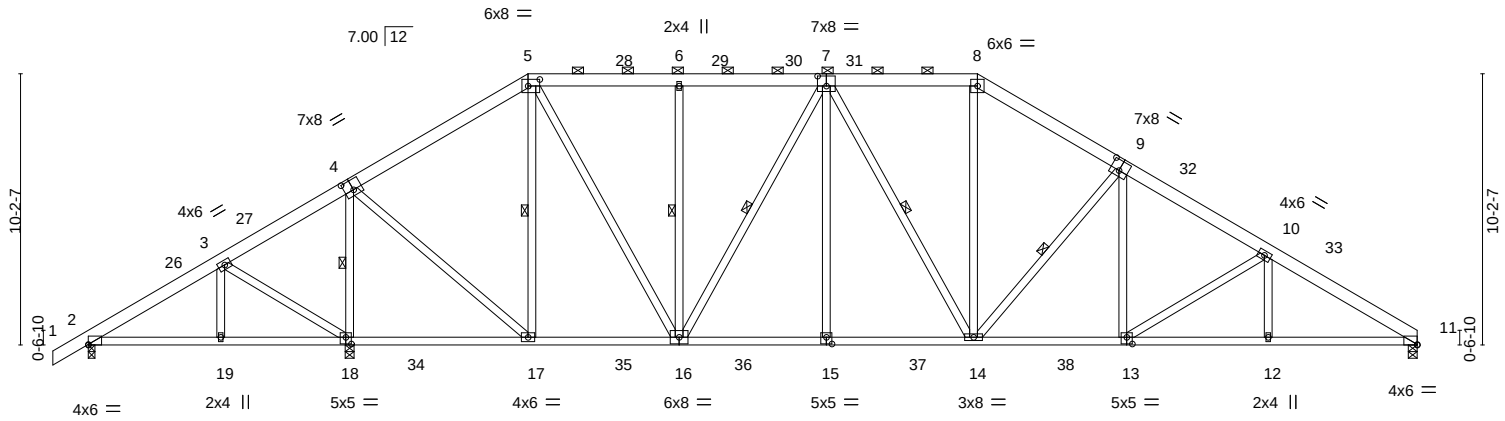
Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A05	PIGGYBACK BASE	2	1	T27911807
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:30 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDl5m-joIR2xRer6MWIMNULY2eSWgDQZm_iwqTNK9n2Oz9znl

1-4-0	4-11-13	9-10-0	16-6-9	22-2-12	27-9-4	33-5-7	38-11-2	44-4-12	50-0-0
1-4-0	4-11-13	4-10-3	6-8-9	5-8-3	5-6-7	5-8-3	5-5-10	5-5-10	5-7-4

Scale = 1:86.7



4-11-13	9-10-0	16-6-9	22-2-12	27-9-4	33-5-7	38-11-2	44-4-12	50-0-0
4-11-13	4-10-3	6-8-9	5-8-3	5-6-7	5-8-3	5-5-10	5-5-10	5-7-4

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [4:0-4-0,0-4-8], [5:0-5-4,0-3-0], [7:0-4-0,0-4-8], [9:0-4-0,0-4-8], [11:0-0-0,0-0-4], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0], [18:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.17	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.31	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 381 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-4-13 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-18, 5-17, 6-16, 7-16, 7-14, 9-14

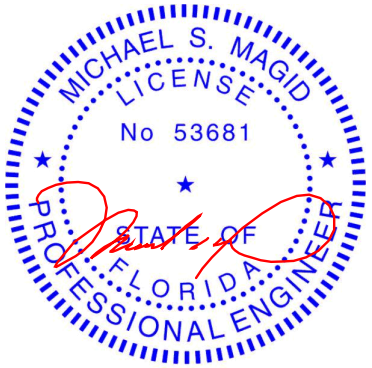
REACTIONS. (size) 2=0-3-0, 18=0-4-0, 11=0-4-0
Max Horz 2=195(LC 11)
Max Uplift 2=-44(LC 12), 11=-1(LC 12)
Max Grav 2=258(LC 21), 18=2768(LC 17), 11=1815(LC 18)

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

TOP CHORD	2-3=-61/308, 3-4=0/725, 4-5=-1090/105, 5-6=-1465/126, 6-7=-1465/126, 7-8=-1818/120, 8-9=-2123/107, 9-10=-2625/70, 10-11=-3081/30
BOT CHORD	17-18=-534/52, 16-17=0/906, 15-16=0/1726, 14-15=0/1726, 13-14=0/2150, 12-13=0/2585, 11-12=0/2585
WEBS	3-18=-566/42, 4-18=-2275/18, 4-17=0/1779, 5-17=-840/47, 5-16=-5/1198, 6-16=-386/86, 7-16=-624/0, 7-15=0/279, 8-14=0/695, 9-14=-652/61, 9-13=0/452, 10-13=-502/57

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-8-0, Interior(1) 3-8-0 to 16-6-9, Exterior(2R) 16-6-9 to 23-7-6, Interior(1) 23-7-6 to 33-5-7, Exterior(2R) 33-5-7 to 40-6-5, Interior(1) 40-6-5 to 50-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

June 4,2022

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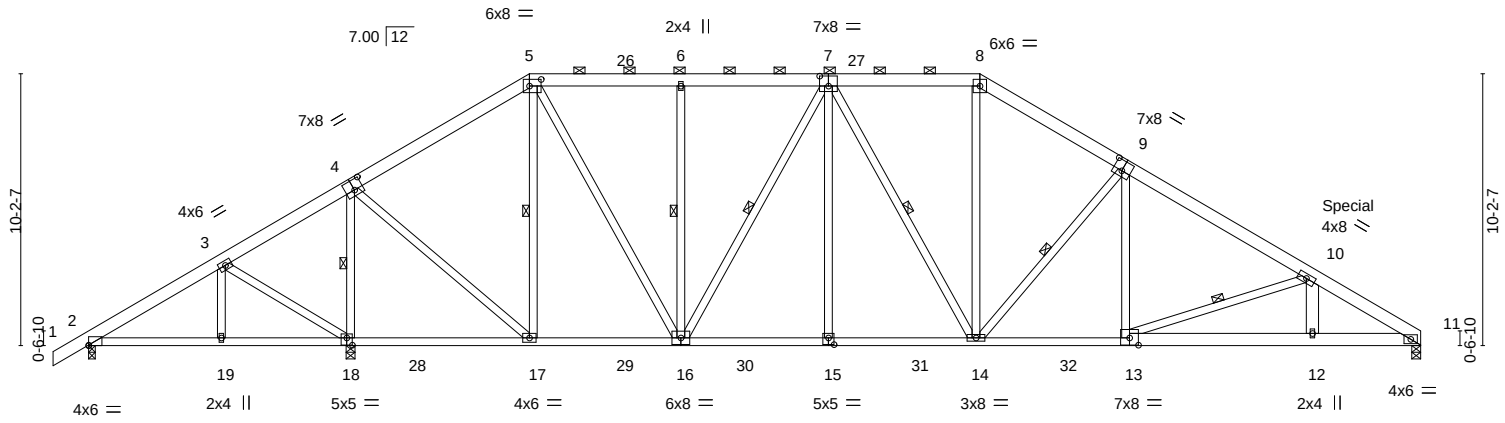
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A06	PIGGYBACK BASE GIRDE	1	1	T27911808
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:32 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-fBPBTcSuNjcEXgXtSz46XxlV1MP0Aqzmqeeu7Hz9znj

1-4-0	4-11-13	9-10-0	16-6-9	22-2-12	27-9-4	33-5-7	38-11-2	44-4-12	45-11-4	50-0-0
1-4-0	4-11-13	4-10-3	6-8-9	5-8-3	5-6-7	5-8-3	5-5-10	5-5-10	1-6-8	4-0-12

Scale = 1:86.5



4-11-13	9-10-0	16-6-9	22-2-12	27-9-4	33-5-7	38-11-2	44-4-12	45-11-4	50-0-0
4-11-13	4-10-3	6-8-9	5-8-3	5-6-7	5-8-3	5-5-10	5-5-10	1-6-8	4-0-12

Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [4:0-4-0,0-4-8], [5:0-5-4,0-3-0], [7:0-4-0,0-4-8], [9:0-4-0,0-4-8], [13:0-4-0,0-3-4], [15:0-2-8,0-3-0], [18:0-2-8,0-3-4]

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	0.49	Vert(LL)	-0.18	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.33	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 392 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 11-13: 2x6 SP No.2
WEBS	2x4 SP No.2 *Except* 10-12: 2x6 SP No.2

REACTIONS. (size) 2=0-3-0, 18=0-4-0, 11=0-4-0
Max Horz 2=195(LC 7)
Max Uplift 2=-82(LC 25)
Max Grav 2=206(LC 17), 18=2874(LC 29), 11=2443(LC 30)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-10 oc purlins, except 2-0-0 oc purlins (5-1-7 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-18, 5-17, 6-16, 7-16, 7-14, 9-14, 10-13

"Special" indicates special hanger(s) or other connection device(s) required at location(s)shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

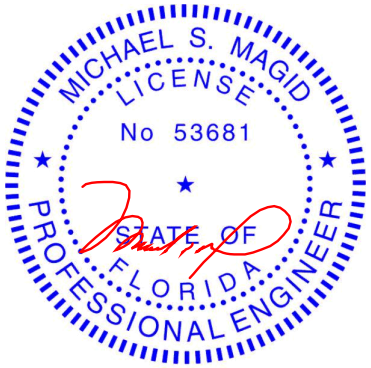
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=0/372, 3-4=0/774, 4-5=-1124/100, 5-6=-1540/104, 6-7=-1540/104, 7-8=-1975/60, 8-9=-2307/40, 9-10=-3001/0, 10-11=-4448/0
BOT CHORD	2-19=-287/71, 18-19=-287/71, 17-18=-572/21, 16-17=0/931, 15-16=0/1844, 14-15=0/1844, 13-14=0/2454, 12-13=0/3813, 11-12=0/3811
WEBS	3-18=-569/40, 4-18=-2380/0, 4-17=0/1868, 5-17=-919/16, 5-16=0/1295, 6-16=-392/71, 7-16=-711/0, 7-15=0/279, 8-14=0/802, 9-14=-882/0, 9-13=0/669, 10-13=-1512/0, 10-12=0/251

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 932 lb down at 45-11-4 on top 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



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

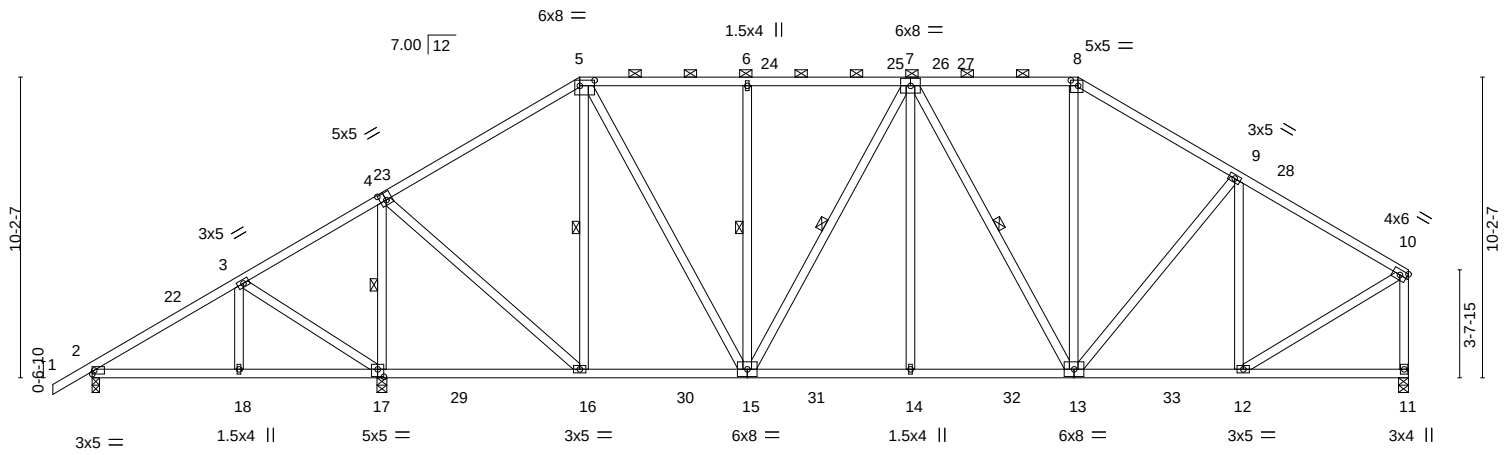
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-8=-60, 8-11=-60, 20-23=-20
   Concentrated Loads (lb)
   Vert: 10=-892(B)

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A07	PIGGYBACK BASE	2	1	T27911809
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:34 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-caXytIU8vKsynzhGaO6acMrpWA9MelW3ly7_B9z9znh

1-4-0	4-11-13	9-10-0	16-6-9	22-2-12	27-9-4	33-5-7	38-11-0	44-8-0
1-4-0	4-11-13	4-10-3	6-8-9	5-8-3	5-6-7	5-8-3	5-5-8	5-9-0

Scale = 1:78.2



4-11-13	9-10-0	16-6-9	22-2-12	27-9-4	33-5-7	38-11-0	44-8-0
4-11-13	4-10-3	6-8-9	5-8-3	5-6-7	5-8-3	5-5-8	5-9-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.10	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.19	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 318 lb	FT = 20%

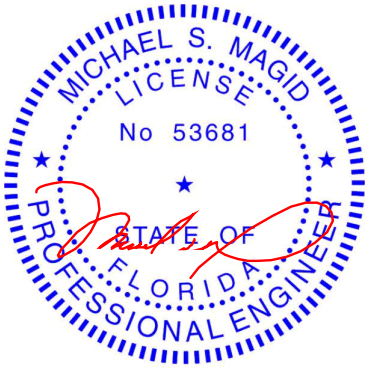
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-1 max.): 5-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-17, 5-16, 6-15, 7-15, 7-13

REACTIONS. (size) 2=0-3-0, 17=0-4-0, 11=0-4-0
Max Horz 2=233(LC 11)
Max Uplift 2=-32(LC 12), 17=-1(LC 12)
Max Grav 2=350(LC 21), 17=2333(LC 17), 11=1593(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-253/39, 3-4=-30/402, 4-5=-1041/94, 5-6=-1252/118, 6-7=-1252/118, 7-8=-1252/118, 8-9=-1504/112, 9-10=-1430/60, 10-11=-1510/28
BOT CHORD 16-17=-283/82, 15-16=0/867, 14-15=0/1391, 13-14=0/1391, 12-13=0/1145
WEBS 3-17=-542/45, 4-17=-1846/32, 4-16=0/1377, 5-16=-619/54, 5-15=-9/866, 6-15=-394/78, 7-15=-319/0, 7-14=0/387, 7-13=-415/0, 8-13=0/406, 9-12=-451/63, 10-12=0/1290

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-1-10, Interior(1) 3-1-10 to 16-6-9, Exterior(2R) 16-6-9 to 22-10-6, Interior(1) 22-10-6 to 33-5-7, Exterior(2R) 33-5-7 to 39-9-4, Interior(1) 39-9-4 to 44-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A08	Hip	1	1	T27911810

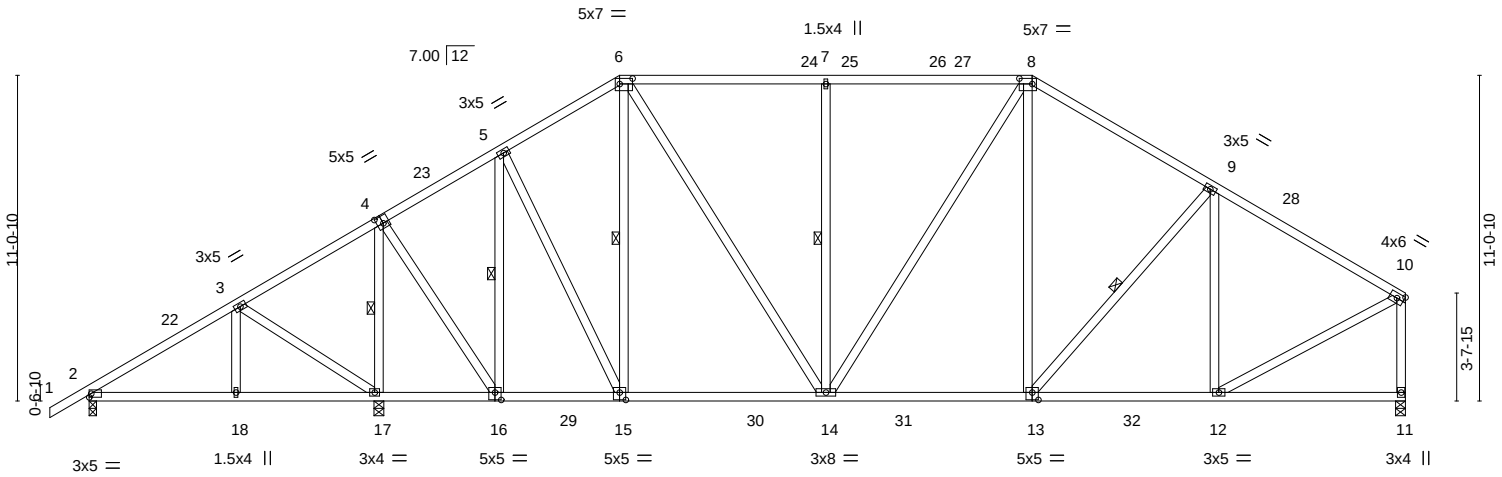
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:35 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-4m5K5eUnge_pO7GS76ep9ZN0MaSJNCrCWcsYjbz9zng

1-4-0	4-11-13	9-10-0	13-11-0	18-0-0	25-0-0	32-0-0	38-2-4	44-8-0
1-4-0	4-11-13	4-10-3	4-1-0	4-1-0	7-0-0	7-0-0	6-2-4	6-5-12

Scale = 1:78.2



4-11-13	9-10-0	13-11-0	18-0-0	25-0-0	32-0-0	38-2-4	44-8-0
4-11-13	4-10-3	4-1-0	4-1-0	7-0-0	7-0-0	6-2-4	6-5-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [6:0-5-4,0-2-4], [8:0-5-4,0-2-4], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0], [16:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.15	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.25	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 322 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-17, 5-16, 6-15, 7-14, 9-13

REACTIONS. (size) 2=0-3-0, 17=0-4-0, 11=0-4-0
Max Horz 2=249(LC 11)
Max Uplift 2=-25(LC 12), 17=-9(LC 12)
Max Grav 2=405(LC 21), 17=2245(LC 17), 11=1610(LC 18)

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

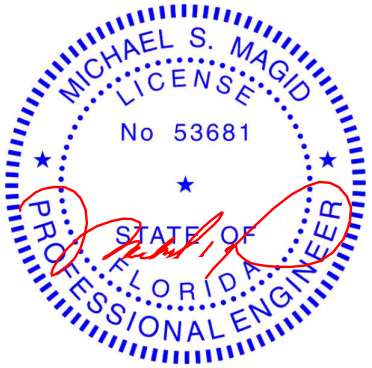
TOP CHORD 2-3=-369/28, 3-4=-56/272, 4-5=-746/89, 5-6=-1092/123, 6-7=-1311/120, 7-8=-1311/120, 8-9=-1504/119, 9-10=-1512/60, 10-11=-1516/30

BOT CHORD 2-18=-65/336, 17-18=-65/336, 15-16=-22/672, 14-15=0/942, 13-14=0/1197, 12-13=0/1208

WEBS 3-17=-516/52, 4-17=-1786/40, 4-16=0/1350, 5-16=-989/40, 5-15=0/647, 6-15=-402/18, 6-14=0/765, 7-14=-475/90, 8-14=-1/267, 8-13=0/280, 9-12=-392/71, 10-12=0/1313

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-1-10, Interior(1) 3-1-10 to 18-0-0, Exterior(2R) 18-0-0 to 24-3-13, Interior(1) 24-3-13 to 32-0-0, Exterior(2R) 32-0-0 to 38-2-4, Interior(1) 38-2-4 to 44-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

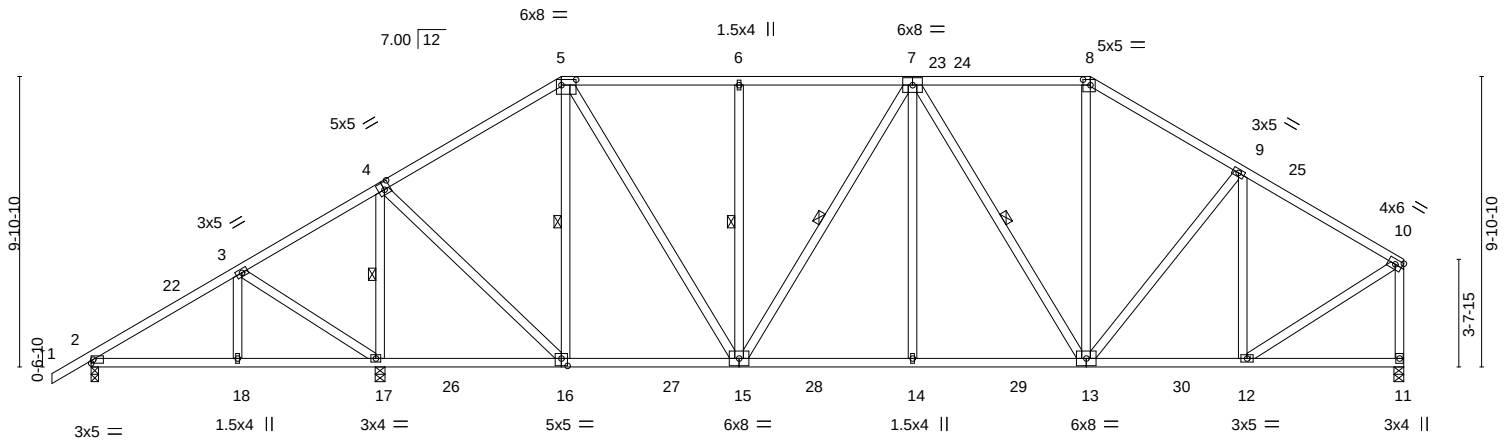
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	A09	Hip	1	1	T27911811
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:37 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-09D4WKW1CFEWeRPqFWgHE_TKDN90r6GV_wLeoUz9zne

1-4-0	4-11-13	9-10-0	16-0-0	22-0-9	27-11-7	34-0-0	39-2-4	44-8-0
1-4-0	4-11-13	4-10-3	6-2-0	6-0-9	5-10-13	6-0-9	5-2-4	5-5-12

Scale = 1:78.4



4-11-13	9-10-0	16-0-0	22-0-9	27-11-7	34-0-0	39-2-4	44-8-0
4-11-13	4-10-3	6-2-0	6-0-9	5-10-13	6-0-9	5-2-4	5-5-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-4], [8:0-3-0,0-2-4], [16:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.16	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.28	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 314 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-17, 5-16, 6-15, 7-15, 7-13

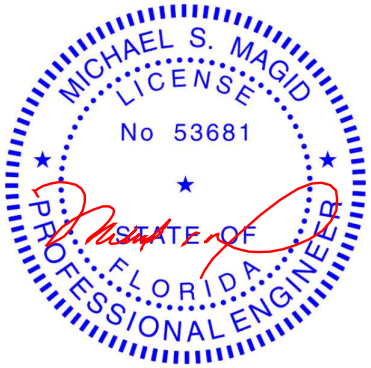
REACTIONS. (size) 2=0-3-0, 17=0-4-0, 11=0-4-0
Max Horz 2=227(LC 11)
Max Uplift 2=-31(LC 12), 17=-1(LC 12)
Max Grav 2=349(LC 21), 17=2340(LC 17), 11=1584(LC 18)

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

TOP CHORD	3-4=-37/379, 4-5=-920/99, 5-6=-1265/115, 6-7=-1265/115, 7-8=-1250/114, 8-9=-1496/108, 9-10=-1393/59, 10-11=-1505/27
BOT CHORD	16-17=-306/88, 15-16=0/780, 14-15=0/1421, 13-14=0/1421, 12-13=0/1116
WEBS	3-17=-505/56, 4-17=-1800/48, 4-16=0/1355, 5-16=-719/38, 5-15=0/988, 6-15=-422/77, 7-15=-334/0, 7-14=0/411, 7-13=-452/0, 8-13=0/402, 9-12=-473/57, 10-12=0/1278

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 3-1-10, Interior(1) 3-1-10 to 16-0-0, Exterior(2R) 16-0-0 to 22-0-9, Interior(1) 22-0-9 to 34-0-0, Exterior(2R) 34-0-0 to 40-3-13, Interior(1) 40-3-13 to 44-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	B01	Roof Special Girder	1	2	T27911812

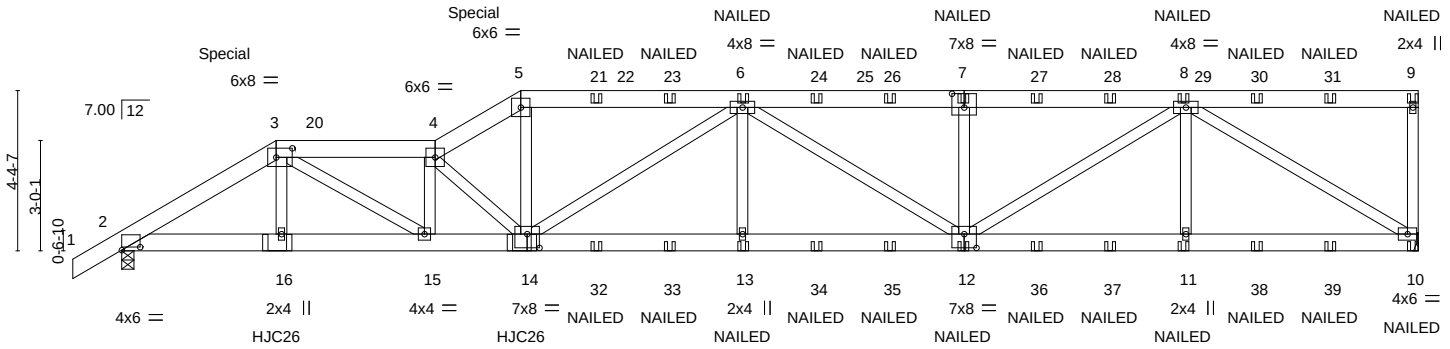
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:42 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-N60zZ1aA0otpkCIo24GSx2AFXOsLWEmE7C3PTiz9znZ

-1-4-0	4-2-8	8-6-8	10-10-8	16-11-0	22-11-8	29-0-0	35-4-0
1-4-0	4-2-8	4-4-0	2-4-0	6-0-8	6-0-8	6-0-8	6-4-0

Scale = 1:62.8



4-2-8	8-6-8	10-10-8	16-11-0	22-11-8	29-0-0	35-4-0
4-2-8	4-4-0	2-4-0	6-0-8	6-0-8	6-0-8	6-4-0

Plate Offsets (X,Y)-- [2:0-6-0,0-1-0], [3:0-5-4,0-3-0], [7:0-4-0,0-4-8], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.18	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.37	13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 510 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 2=0-4-0
Max Horz 2=128(LC 7)
Max Uplift 10=-154(LC 8), 2=-214(LC 8)
Max Grav 10=3055(LC 1), 2=2844(LC 1)

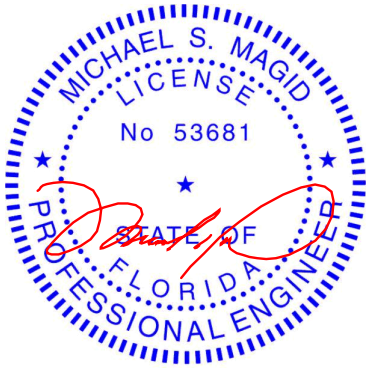
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-5042/350, 3-4=-7260/492, 4-5=-6742/481, 5-6=-5982/440, 6-7=-6098/372, 7-8=-6098/372, 9-10=-378/101
BOT CHORD	2-16=-271/4289, 15-16=-273/4317, 14-15=-457/7367, 13-14=-362/6877, 12-13=-362/6877, 11-12=-195/4005, 10-11=-195/4005
WEBS	3-16=-31/495, 3-15=-205/3444, 4-15=-1880/160, 4-14=-2148/143, 5-14=-160/2733, 6-14=-1076/0, 6-13=0/550, 6-12=-929/80, 7-12=-591/152, 8-12=-150/2493, 8-11=0/557, 8-10=-4690/244

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=154, 2=214.
10) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 6-8-0 oc max. starting at 4-2-14 from the left end to 10-10-14 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 64 lb up at 4-2-8, and 276 lb down and 41 lb up at 10-10-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-4=-60, 4-5=-60, 5-9=-60, 10-17=-20
   Concentrated Loads (lb)
   Vert: 3=25(B) 5=-194(B) 9=-138(B) 10=-63(B) 16=-372(B) 14=-382(B) 6=-116(B) 13=-55(B) 12=-55(B) 7=-116(B) 11=-55(B) 21=-116(B) 23=-116(B) 24=-116(B) 26=-116(B) 27=-116(B) 28=-116(B) 29=-116(B) 30=-116(B) 31=-116(B) 32=-55(B) 33=-55(B) 34=-55(B) 35=-55(B) 36=-55(B) 37=-55(B) 38=-55(B) 39=-55(B)

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	B02	Roof Special	1	1	T27911813

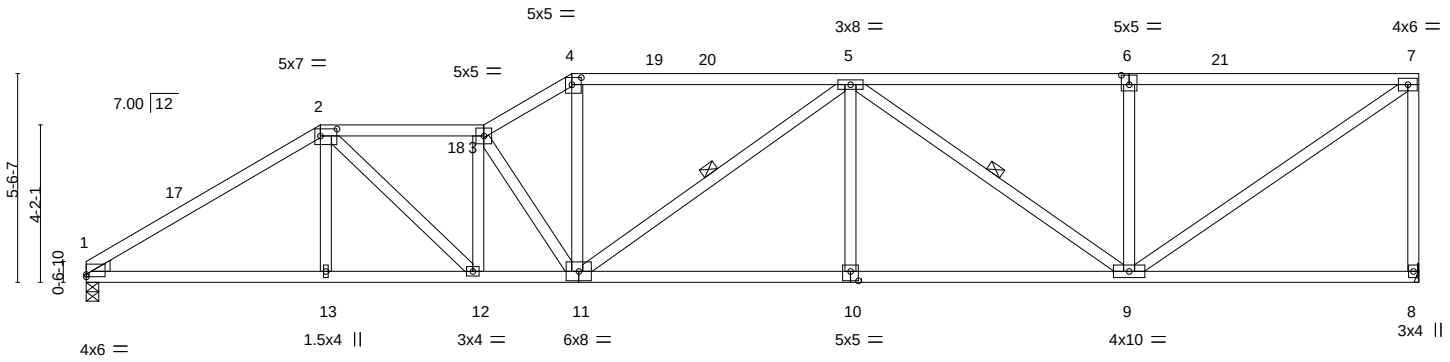
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:43 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-rIaMmNbon5?gMMt_bnnhTFjGqoAmFpXOMsoz?8z9znY

6-2-8	10-6-8	12-10-8	20-3-3	27-7-13	35-4-0
6-2-8	4-4-0	2-4-0	7-4-11	7-4-11	7-8-3

Scale = 1:61.1



6-2-8	10-6-8	12-10-8	20-3-3	27-7-13	35-4-0
6-2-8	4-4-0	2-4-0	7-4-11	7-4-11	7-8-3

Plate Offsets (X,Y)-- [1:0-0-0,0-0-13], [2:0-5-4,0-2-4], [4:0-3-0,0-2-4], [6:0-2-8,0-3-0], [10:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.22	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.51	10-11	>824	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 201 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-11: 2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

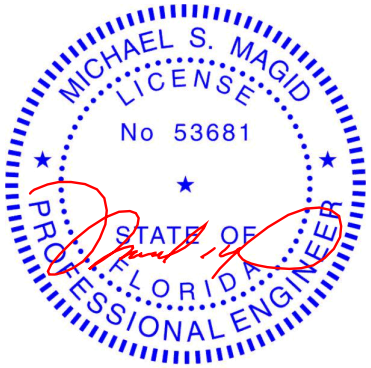
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 5-9

REACTIONS. (size) 1=0-4-0, 8=Mechanical
Max Horz 1=156(LC 11)
Max Uplift 8=-1(LC 12)
Max Grav 1=1408(LC 1), 8=1408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2288/99, 2-3=-2654/128, 3-4=-2543/141, 4-5=-2222/137, 5-6=-1611/85, 6-7=-1611/85, 7-8=-1337/73
BOT CHORD 1-13=-198/1880, 12-13=-196/1883, 11-12=-185/2678, 10-11=-141/2376, 9-10=-141/2376
WEBS 2-12=-25/1051, 3-12=-650/59, 3-11=-901/51, 4-11=0/967, 5-10=0/258, 5-9=-939/87, 6-9=-376/83, 7-9=-39/1905

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-6-6, Interior(1) 3-6-6 to 6-2-8, Exterior(2R) 6-2-8 to 9-8-14, Interior(1) 9-8-14 to 12-10-8, Exterior(2R) 12-10-8 to 16-4-14, Interior(1) 16-4-14 to 35-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 8.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	B03	Roof Special	1	1	T27911814

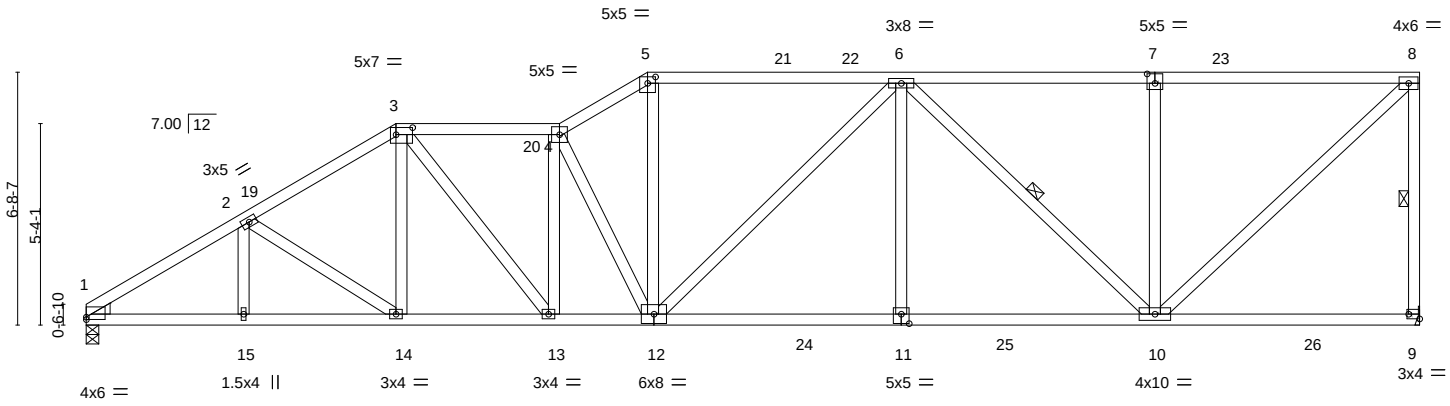
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:44 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-JV8k_jbQYP7XzWSB9VIw0TFTVCVI_EbXbWYWYaz9znX

4-2-1	8-2-8	12-6-8	14-10-8	21-7-3	28-3-13	35-4-0
4-2-1	4-0-7	4-4-0	2-4-0	6-8-11	6-8-11	7-0-3

Scale = 1:61.1



4-2-1	8-2-8	12-6-8	14-10-8	21-7-3	28-3-13	35-4-0
4-2-1	4-0-7	4-4-0	2-4-0	6-8-11	6-8-11	7-0-3

Plate Offsets (X,Y)-- [1:0-0-0,0-0-13], [3:0-5-4,0-2-4], [5:0-2-8,0-2-1], [7:0-2-8,0-3-0], [9:Edge,0-1-8], [11:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.26	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.49	11-12	>863	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 226 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-9, 6-10

REACTIONS. (size) 1=0-4-0, 9=Mechanical
Max Horz 1=191(LC 11)
Max Uplift 9=-2(LC 12)
Max Grav 1=1588(LC 17), 9=1613(LC 17)

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

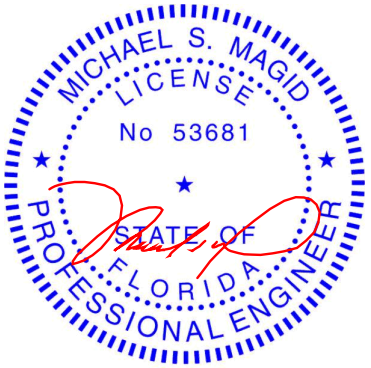
TOP CHORD 1-2=-2589/86, 2-3=-2354/117, 3-4=-2527/132, 4-5=-2462/148, 5-6=-2155/142, 6-7=-1414/99, 7-8=-1414/99, 8-9=-1474/77

BOT CHORD 1-15=-254/2231, 14-15=-254/2231, 13-14=-207/2060, 12-13=-194/2581, 11-12=-142/2154, 10-11=-142/2154

WEBS 3-14=0/301, 3-13=-21/815, 4-13=-519/61, 4-12=-950/58, 5-12=-1/985, 6-11=0/315, 6-10=-1009/86, 7-10=-343/77, 8-10=-47/1882

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-6-6, Interior(1) 3-6-6 to 8-2-8, Exterior(2R) 8-2-8 to 11-8-14, Interior(1) 11-8-14 to 14-10-8, Exterior(2R) 14-10-8 to 18-4-14, Interior(1) 18-4-14 to 35-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	B004	Roof Special	1	1	T27911815

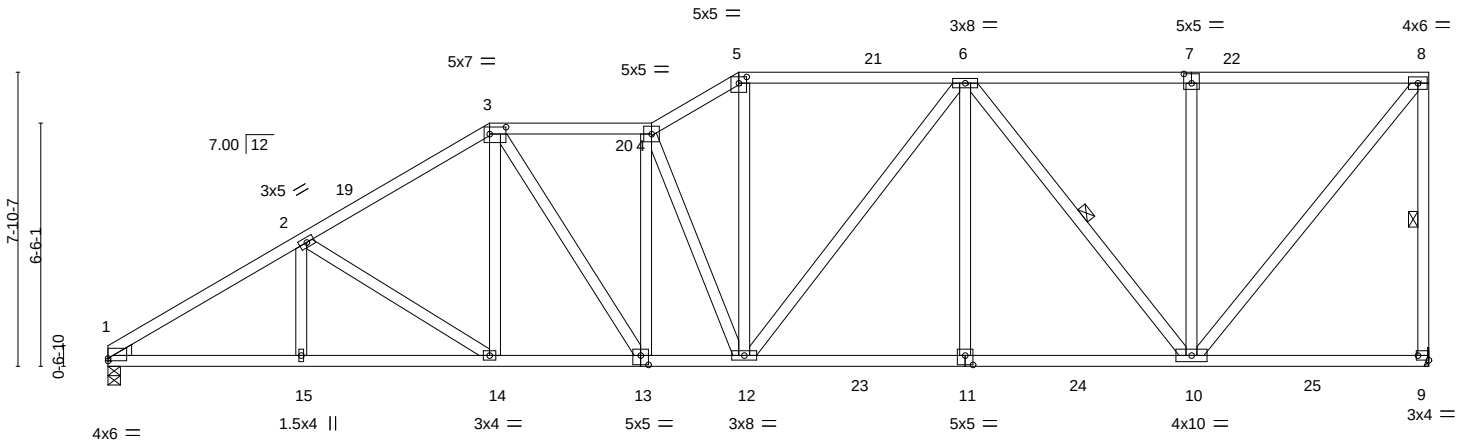
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:38 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-ULnTjgXfzZNNFb_1pEBWmC?UunU_aULfDa5CKwz9znd

5-2-1	10-2-8	14-6-8	16-10-8	22-11-3	28-11-13	35-4-0
5-2-1	5-0-7	4-4-0	2-4-0	6-0-11	6-0-11	6-4-3

Scale = 1:61.6



5-2-1	10-2-8	14-6-8	16-10-8	22-11-3	28-11-13	35-4-0
5-2-1	5-0-7	4-4-0	2-4-0	6-0-11	6-0-11	6-4-3

Plate Offsets (X,Y)-- [1:0-0-0,0-0-13], [3:0-5-4,0-2-4], [5:0-2-8,0-2-1], [7:0-2-8,0-3-0], [9:Edge,0-1-8], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.17	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.31	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 245 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 8-9, 6-10

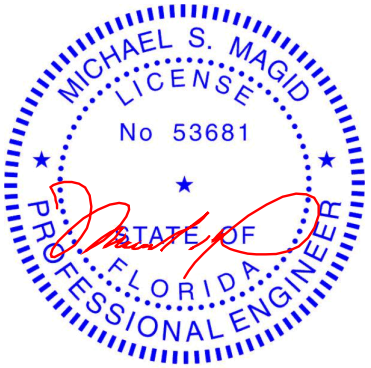
REACTIONS. (size) 1=0-4-0, 9=Mechanical
Max Horz 1=227(LC 11)
Max Uplift 9=-3(LC 12)
Max Grav 1=1594(LC 17), 9=1632(LC 17)

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

TOP CHORD	1-2=-2605/88, 2-3=-2242/125, 3-4=-2177/139, 4-5=-2175/150, 5-6=-1889/143, 6-7=-1125/113, 7-8=-1125/113, 8-9=-1503/81
BOT CHORD	1-15=-276/2255, 14-15=-276/2255, 13-14=-219/1946, 12-13=-201/2240, 11-12=-145/1763, 10-11=-145/1763
WEBS	2-14=-376/67, 3-14=0/397, 3-13=-19/548, 4-13=-412/35, 4-12=-896/85, 5-12=-7/856, 6-12=-41/262, 6-11=0/268, 6-10=-1014/90, 7-10=-311/73, 8-10=-57/1723

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-6-6, Interior(1) 3-6-6 to 10-2-8, Exterior(2R) 10-2-8 to 13-8-14, Interior(1) 13-8-14 to 16-10-8, Exterior(2R) 16-10-8 to 20-4-14, Interior(1) 20-4-14 to 35-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

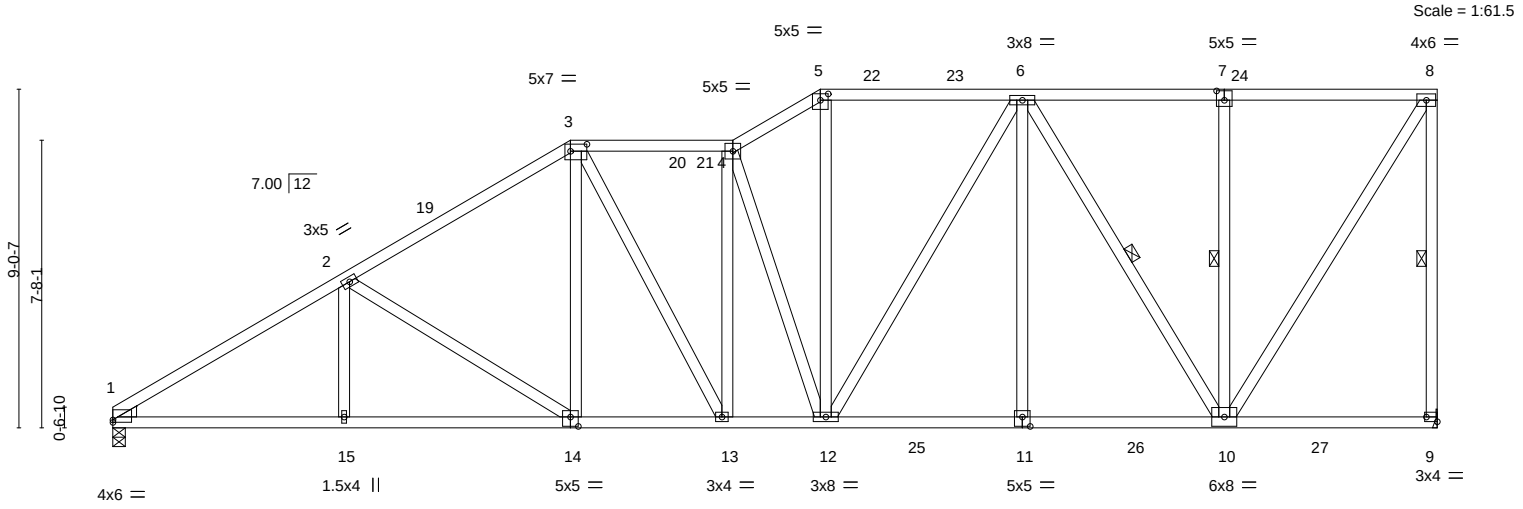
Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	B05	Roof Special	1	1	T27911816
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:46 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-FtGUPPdg40NFDpbZHvKO5uLt7?CPS0iq2q1dcTz9znV

6-2-1	12-2-8	16-6-8	18-10-8	24-3-3	29-7-13	35-4-0
6-2-1	6-0-7	4-4-0	2-4-0	5-4-11	5-4-11	5-8-3

Scale = 1:61.5



6-2-1	12-2-8	16-6-8	18-10-8	24-3-3	29-7-13	35-4-0
6-2-1	6-0-7	4-4-0	2-4-0	5-4-11	5-4-11	5-8-3

Plate Offsets (X,Y)-- [1:0-0-0,0-0-13], [3:0-5-4,0-2-4], [5:0-2-8,0-2-1], [7:0-2-8,0-3-0], [9:Edge,0-1-8], [11:0-2-8,0-3-0], [14:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.15	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.30	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 264 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 8-9, 6-10, 7-10

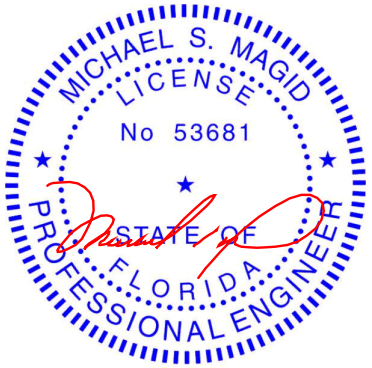
REACTIONS. (size) 1=0-4-0, 9=Mechanical
Max Horz 1=262(LC 11)
Max Uplift 9=-4(LC 12)
Max Grav 1=1596(LC 17), 9=1644(LC 17)

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

TOP CHORD	1-2=-2599/88, 2-3=-2095/137, 3-4=-1903/144, 4-5=-1876/161, 5-6=-1629/152, 6-7=-907/127, 7-8=-907/127, 8-9=-1525/86
BOT CHORD	1-15=-294/2259, 14-15=-294/2259, 13-14=-233/1802, 12-13=-202/1957, 11-12=-148/1452, 10-11=-148/1452
WEBS	2-15=0/252, 2-14=-541/72, 3-14=0/449, 3-13=-0/371, 4-12=-940/83, 5-12=-18/725, 6-12=-57/424, 6-10=-1041/97, 7-10=-279/69, 8-10=-68/1629

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-6-6, Interior(1) 3-6-6 to 12-2-8, Exterior(2R) 12-2-8 to 15-8-14, Interior(1) 15-8-14 to 18-10-8, Exterior(2R) 18-10-8 to 22-4-14, Interior(1) 22-4-14 to 35-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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) 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017

Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	C01	Roof Special Girder	1	2	T27911817

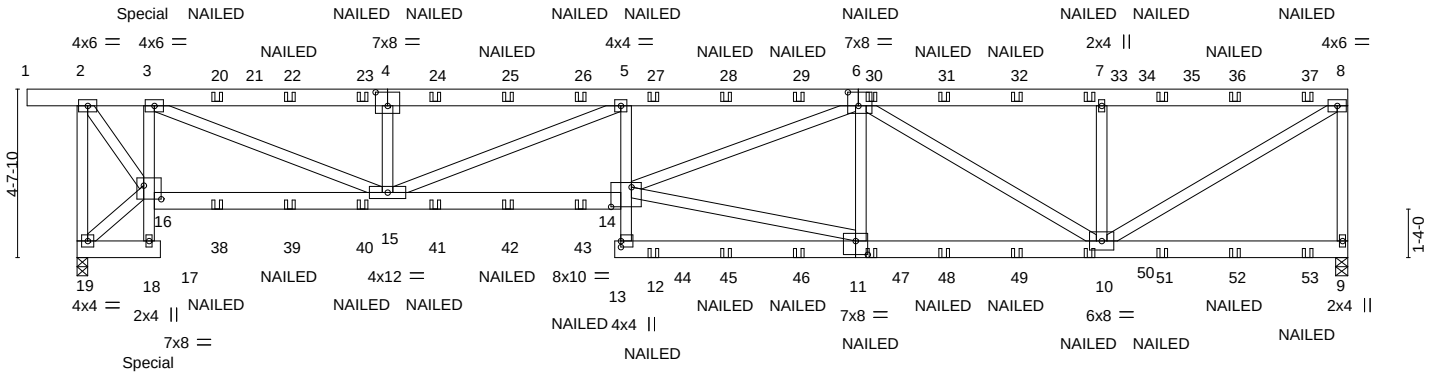
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:50 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-8fV?EmgB8FtghRvKWlPLGkVZ6ddvOvrQzR?rlEz9znR

-1-4-8	2-3-8	8-6-8	14-9-8	21-6-12	28-2-4	34-11-8
1-4-8	2-3-8	6-3-0	6-3-0	6-9-4	6-7-8	6-9-4

Scale: 3/16"=1'



2-3-8	8-6-8	14-9-8	21-6-12	28-2-4	34-11-8
2-3-8	6-3-0	6-3-0	6-9-4	6-7-8	6-9-4

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [6:0-3-8,0-4-8], [11:0-4-0,0-4-8], [12:0-2-0,0-0-0], [14:0-6-12,0-6-8], [16:0-5-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.28	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.56	13	>747	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 544 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
3-18,5-12: 2x4 SP No.2, 14-16: 2x6 SP SS
WEBS 2x4 SP No.2

BRACING-

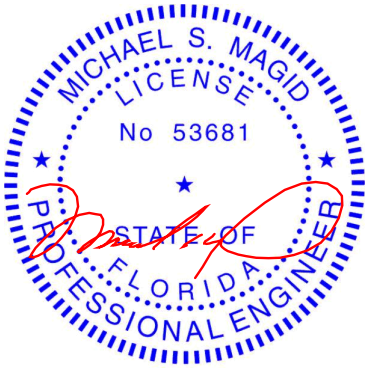
TOP CHORD Structural wood sheathing directly applied or 4-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 16-18, 12-14

REACTIONS. (size) 19=0-3-8, 9=0-4-0
Max Horz 19=-117(LC 6)
Max Uplift 19=-210(LC 8), 9=-117(LC 8)
Max Grav 19=3053(LC 1), 9=3040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-3005/176, 2-3=-2229/192, 3-4=-6846/177, 4-5=-6846/177, 5-6=-9904/377, 6-7=-4074/193, 7-8=-4074/193, 8-9=-2885/185
BOT CHORD 3-16=-2706/236, 15-16=-253/2377, 14-15=-290/10027, 12-14=0/334, 5-14=0/651, 11-12=0/510, 10-11=-186/5964
WEBS 2-16=-269/3743, 3-15=-20/4884, 4-15=-634/141, 5-15=-3454/208, 11-14=-199/5604, 6-14=-139/4272, 6-11=-1110/190, 6-10=-2228/69, 7-10=-986/278, 8-10=-176/4763

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=210, 9=117.
9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 200 lb down and 165 lb up at 1-9-8 on top chord, and 94 lb down and 60 lb up at 1-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-8=-60, 18-19=-20, 17-18=-20, 14-16=-20, 12-13=-20, 9-12=-20

Concentrated Loads (lb)

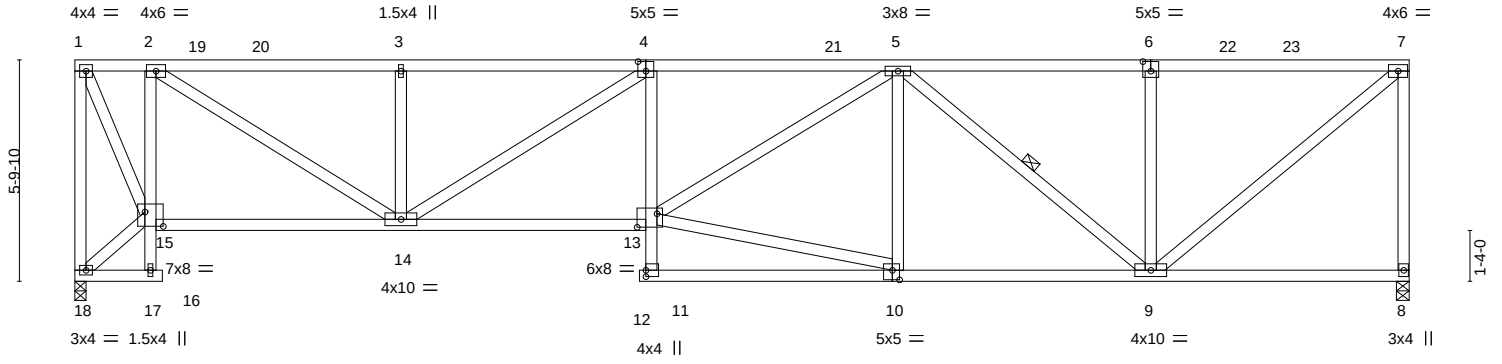
Vert: 18=-28(B) 3=-138(B) 20=-114(B) 22=-114(B) 23=-114(B) 24=-114(B) 25=-114(B) 26=-114(B) 27=-129(B) 28=-129(B) 29=-129(B) 30=-129(B) 31=-129(B) 32=-129(B) 33=-129(B) 35=-129(B) 36=-129(B) 37=-130(B) 38=-77(B) 39=-77(B) 40=-77(B) 41=-77(B) 42=-77(B) 43=-77(B) 44=-61(B) 45=-61(B) 46=-61(B) 47=-61(B) 48=-61(B) 49=-61(B) 50=-61(B) 51=-61(B) 52=-61(B) 53=-61(B)

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	C02	Roof Special	1	1	T27911818
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:52 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-41dlfSiRgs7Oxk3jdARpL9ap?QG7sl4jRlUxq6z9znP

2-3-8	8-6-8	14-9-8	21-6-12	28-2-4	34-11-8
2-3-8	6-3-0	6-3-0	6-9-4	6-7-8	6-9-4

Scale = 1:60.4



2-3-8	8-6-8	14-9-8	21-6-12	28-2-4	34-11-8
2-3-8	6-3-0	6-3-0	6-9-4	6-7-8	6-9-4

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-2-4,0-3-0], [11:0-2-0,0-0-0], [13:0-6-4,0-4-4], [15:0-5-12,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.18	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.38	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 232 lb	FT = 20%

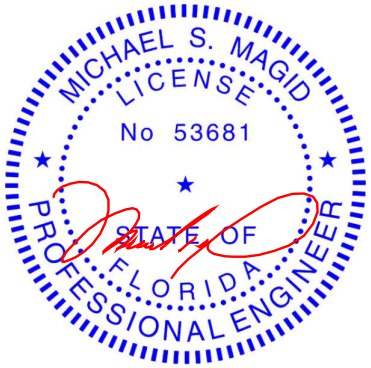
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 15-17, 11-13
WEBS 1 Row at midpt 5-9

REACTIONS. (size) 18=0-3-8, 8=0-4-0
Max Horz 18=-154(LC 8)
Max Grav 18=1396(LC 1), 8=1390(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1359/416, 1-2=-635/251, 2-3=-2203/552, 3-4=-2203/552, 4-5=-2937/677, 5-6=-1368/328, 6-7=-1368/328, 7-8=-1328/345
BOT CHORD 2-15=-1249/396, 14-15=-340/691, 13-14=-756/2951, 4-13=0/273, 9-10=-549/2123
WEBS 1-15=-426/1483, 2-14=-433/1812, 3-14=-444/220, 4-14=-891/202, 10-13=-558/2050, 5-13=-245/969, 5-10=-375/192, 5-9=-982/279, 6-9=-330/165, 7-9=-373/1735

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 31-9-12, Corner(3) 31-9-12 to 34-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

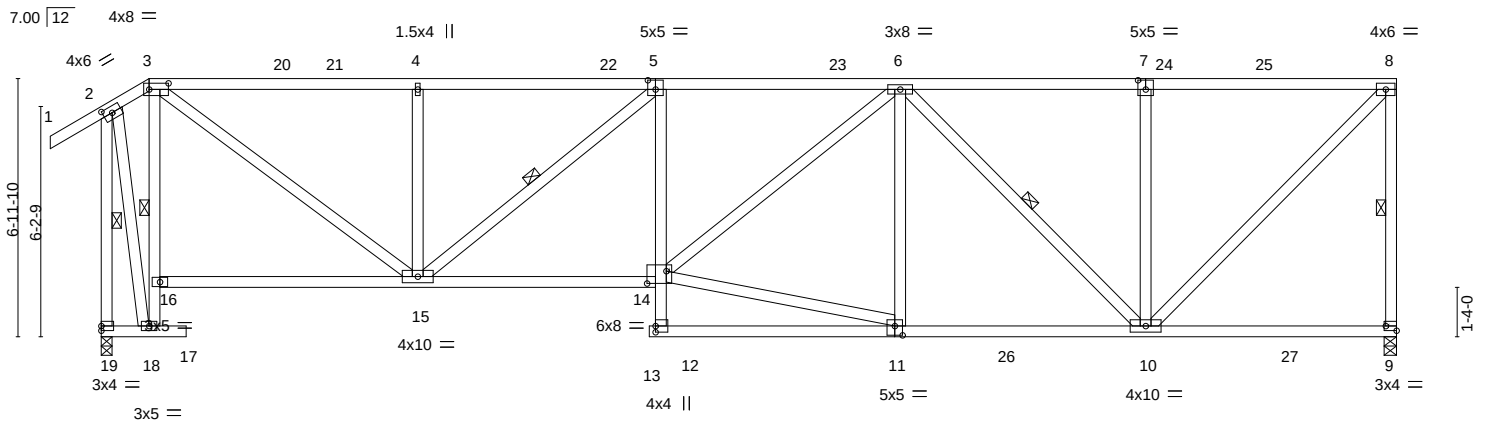
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	C03	Half Hip	1	1	T27911819
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:53 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-YEB8toi3RAFFYuevBuy2tM70Nqa9bGxsfPDVMZz9znO

-1-4-8 1-3-8 2-3-8 8-6-8 14-9-8 21-6-12 28-2-4 34-11-8
1-4-8 1-3-8 1-0-0 6-3-0 6-3-0 6-9-4 6-7-8 6-9-4

Scale = 1:62.2



1-3-8 2-3-8 8-6-8 14-9-8 21-6-12 28-2-4 34-11-8
1-3-8 1-0-0 6-3-0 6-3-0 6-9-4 6-7-8 6-9-4

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [3:0-6-4,0-2-0], [5:0-2-8,0-3-0], [7:0-2-8,0-3-0], [9:Edge,0-1-8], [11:0-2-8,0-3-0], [12:0-2-0,0-0-0], [14:0-6-4,0-4-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.71	Vert(LL)	-0.19	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC	0.83	Vert(CT)	-0.36	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.69	Horz(CT)	0.37	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014	Matrix-AS							Weight: 253 lb	FT = 20%

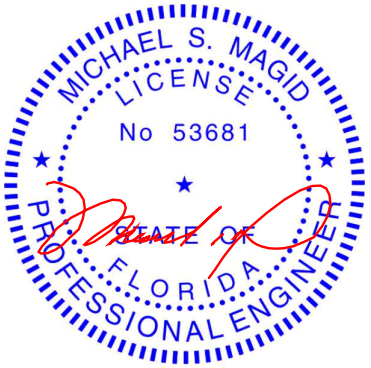
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-18,6-11,7-10: 2x4 SP SS

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 8-9, 3-18, 5-15, 6-10, 2-19

REACTIONS. (size) 9=0-4-0, 19=0-3-8
Max Horz 19=200(LC 9)
Max Uplift 9=-2(LC 12), 19=-20(LC 12)
Max Grav 9=1569(LC 17), 19=1612(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-445/117, 3-4=-1941/66, 4-5=-1941/66, 5-6=-2531/54, 6-7=-1300/59, 7-8=-1300/59, 8-9=-1436/40, 2-19=-1588/63
BOT CHORD 15-16=-186/411, 14-15=0/2570, 5-14=0/275, 10-11=0/1959
WEBS 16-18=-1225/53, 3-16=-1147/74, 3-15=0/1971, 4-15=-502/95, 5-15=-814/0, 11-14=-9/1875, 6-14=-2/780, 6-11=-292/63, 6-10=-953/31, 7-10=-331/73, 8-10=0/1766, 2-18=0/1284

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-8 to 6-2-13, Interior(1) 6-2-13 to 34-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 19.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	C04	Hip	1	1	T27911820

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:54 2022 Page 1

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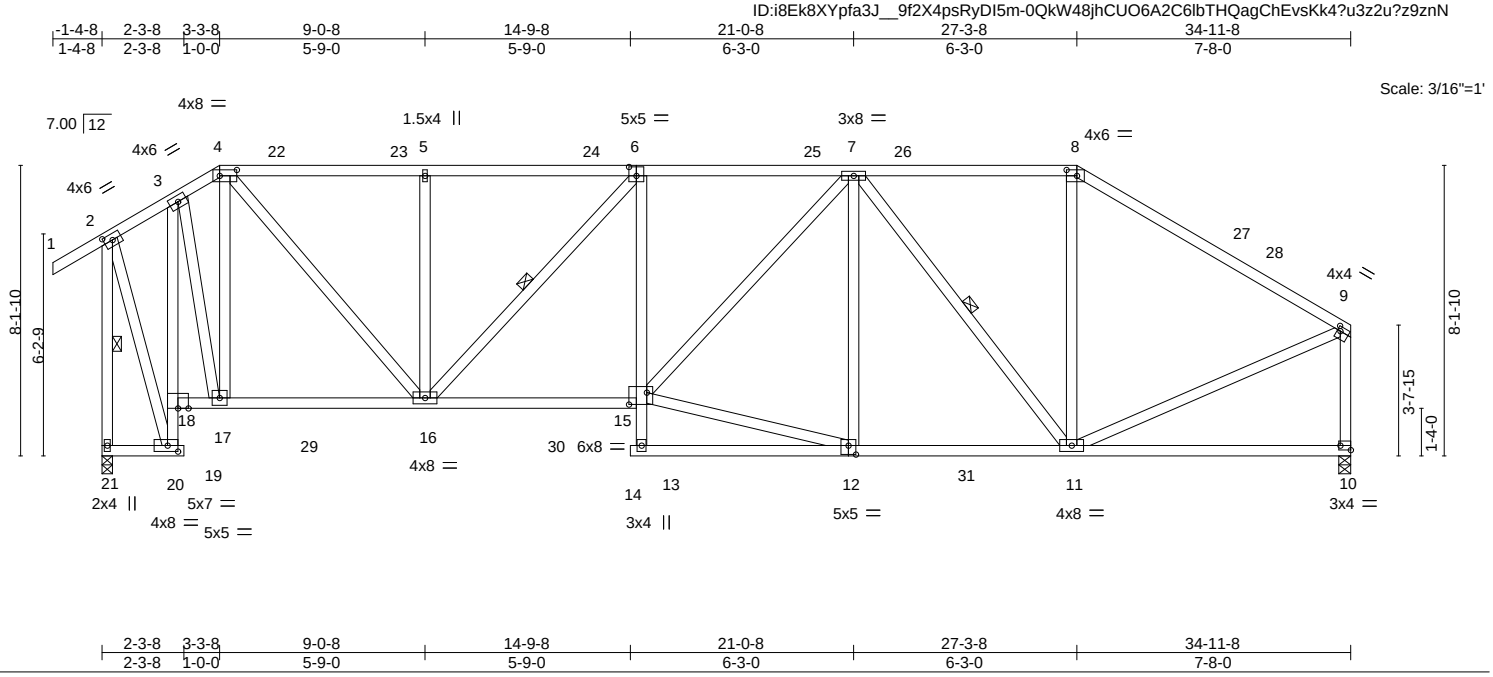


2-3-8 3-3-8 9-0-8 14-9-8 21-0-8 27-3-8 34-11-8
2-3-8 1-0-0 5-9-0 5-9-0 6-3-0 6-3-0 7-8-0

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [4:0-5-12,0-2-0], [6:0-2-8,0-3-0], [8:0-3-8,0-2-0], [9:0-1-0,0-1-8], [10:Edge,0-1-8], [12:0-2-8,0-3-0], [15:0-6-0,0-4-0], [20:0-3-8,0-2-0]

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	0.67	Vert(LL)	-0.15	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.27	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							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, except end verticals.
BOT CHORD	Rigid ceiling directly applied. Except: 4-5-0 oc bracing: 18-20 10-0-0 oc bracing: 13-15
WEBS	1 Row at midpt 6-16, 7-11, 2-21

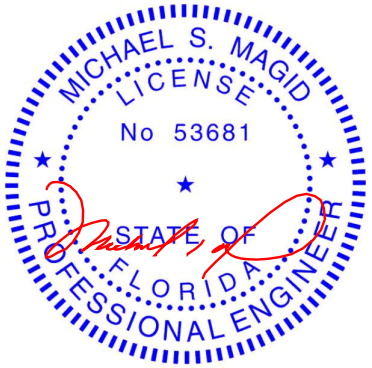
REACTIONS. (size) 21=0-3-8, 10=0-4-0
Max Horz 21=-211(LC 10)
Max Uplift 21=-28(LC 12)
Max Grav 21=1654(LC 17), 10=1568(LC 18)

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

TOP CHORD	2-3=-603/117, 3-4=-884/88, 4-5=-1679/81, 5-6=-1679/81, 6-7=-2130/71, 7-8=-1268/89, 8-9=-1539/66, 2-21=-1778/43, 9-10=-1447/42
BOT CHORD	18-20=-1176/3, 3-18=-1358/0, 17-18=-70/558, 16-17=-48/815, 15-16=0/2180, 6-15=0/297, 11-12=0/1718
WEBS	3-17=0/1224, 4-17=-861/56, 4-16=0/1434, 5-16=-418/82, 6-16=-725/0, 12-15=0/1683, 7-15=0/673, 7-12=-281/51, 7-11=-783/14, 8-11=0/440, 2-20=0/1360, 9-11=0/1274

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-8 to 2-0-9, Interior(1) 2-0-9 to 3-3-8, Exterior(2R) 3-3-8 to 8-2-13, Interior(1) 8-2-13 to 27-3-8, Exterior(2R) 27-3-8 to 32-2-13, Interior(1) 32-2-13 to 34-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	C05	Hip	1	1	T27911821

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:56 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-ypsGVqlyj5eqQMMUs0WlV?lWg1blohIILNS9zuz9znL

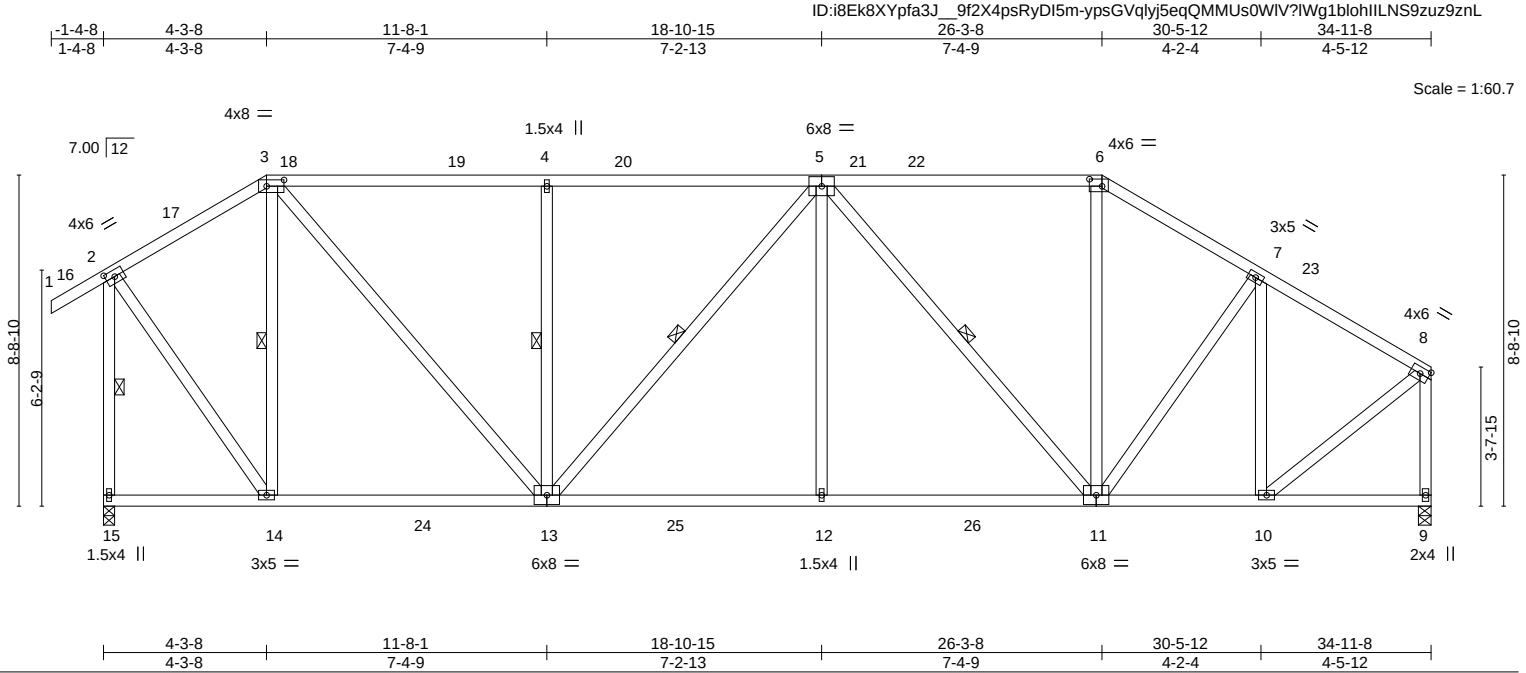


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [3:0-5-8,0-2-0], [6:0-4-0,0-2-4]

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	0.83	Vert(LL)	-0.17	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.31	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 256 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-14, 4-13, 5-13, 5-11, 2-15

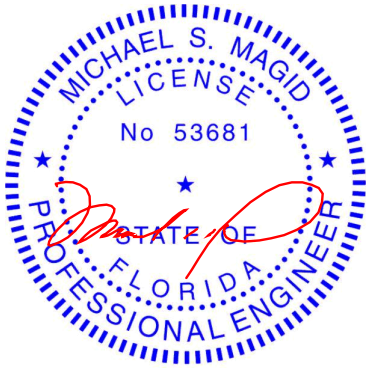
REACTIONS. (size) 15=0-3-8, 9=0-4-0
Max Horz 15=-222(LC 10)
Max Uplift 15=-34(LC 12), 9=-2(LC 12)
Max Grav 15=1668(LC 17), 9=1587(LC 18)

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

TOP CHORD	2-3=-952/106, 3-4=-1508/114, 4-5=-1508/114, 5-6=-1276/105, 6-7=-1502/99, 7-8=-1273/58, 2-15=-1648/55, 8-9=-1520/26
BOT CHORD	13-14=-30/819, 12-13=0/1715, 11-12=0/1715, 10-11=0/1032
WEBS	3-14=-731/67, 3-13=-16/1188, 4-13=-525/105, 5-13=-313/0, 5-12=0/496, 5-11=-709/0, 6-11=0/394, 7-11=-8/406, 7-10=-614/43, 2-14=0/1292, 8-10=0/1266

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-8 to 2-1-7, Interior(1) 2-1-7 to 4-3-8, Exterior(2R) 4-3-8 to 9-2-13, Interior(1) 9-2-13 to 26-3-8, Exterior(2R) 26-3-8 to 31-2-13, Interior(1) 31-2-13 to 34-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
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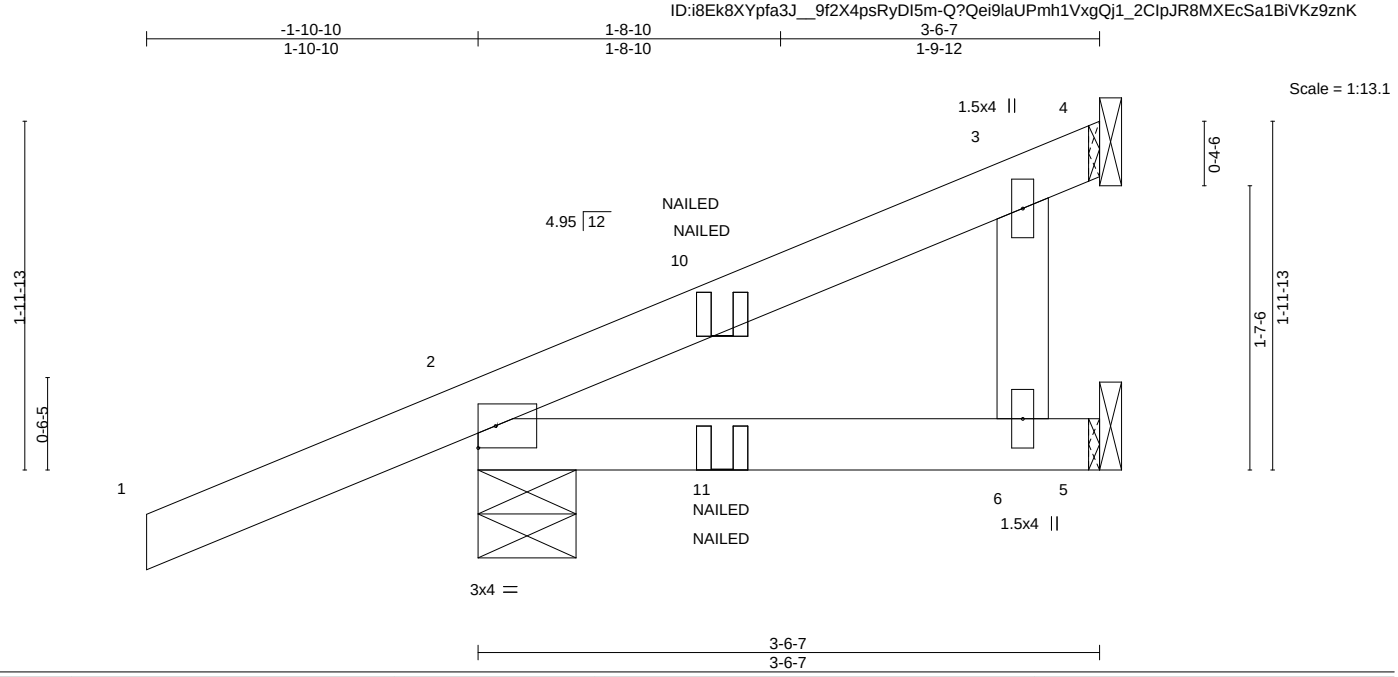
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	CJ01	Diagonal Hip Girder	3	1	T27911822
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:57 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-Q?Qei9laUPmh1VxgQj1_2ClpJR8MXEcSa1BiVKz9znK



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	0.26	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 16 lb	FT = 20%

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

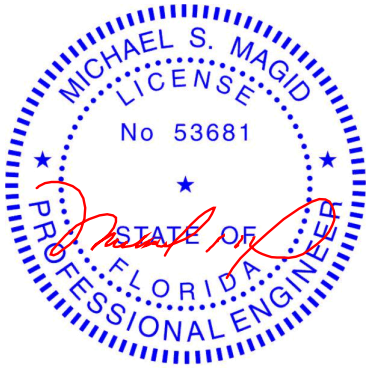
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-6-11, 5=Mechanical
Max Horz 2=63(LC 24)
Max Uplift 2=-52(LC 8), 5=-16(LC 8)
Max Grav 4=57(LC 3), 2=283(LC 1), 5=84(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical 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) 2, 5.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-7=-20



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Date:

June 4,2022

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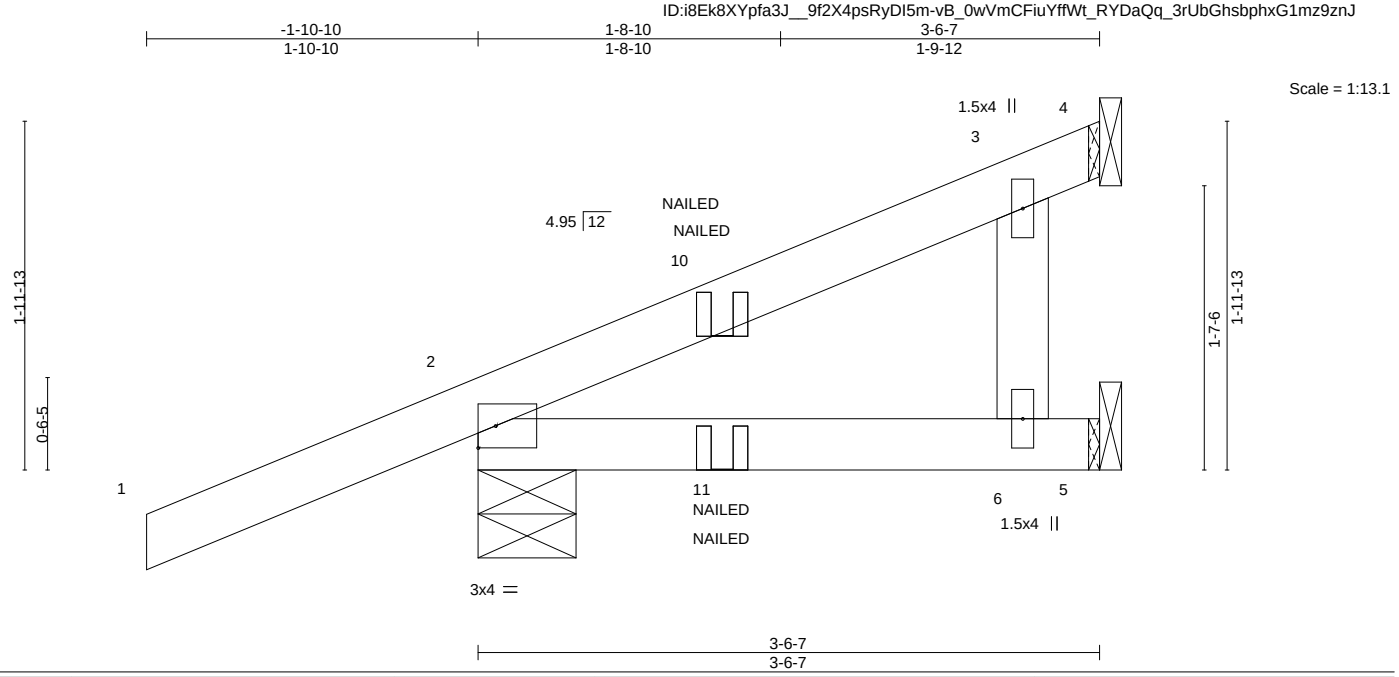
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	CJ02	Diagonal Hip Girder	1	1	T27911823
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:58 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-vB_0wVmCFiuYffWt_RYDaQq_3rUbGhsbphxG1mz9znJ



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	0.26	Vert(LL)	0.01	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 16 lb	FT = 20%

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

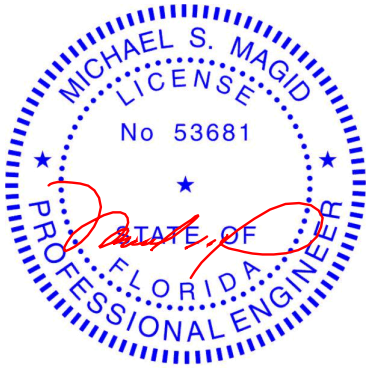
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-6-11, 5=Mechanical
Max Horz 2=63(LC 8)
Max Uplift 2=-52(LC 8), 5=-16(LC 8)
Max Grav 4=57(LC 3), 2=283(LC 1), 5=84(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical 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) 2, 5.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-7=-20



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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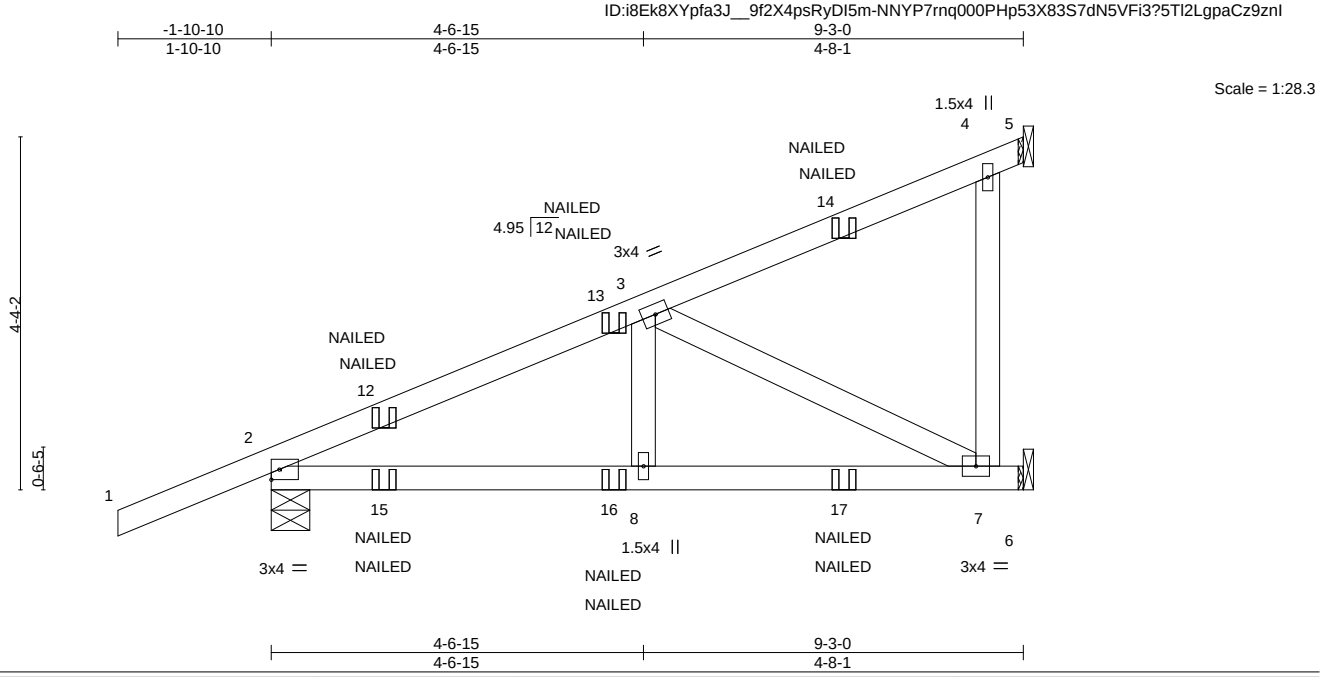
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	CJ03	Diagonal Hip Girder	1	1	T27911824

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:44:59 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-NNYP7rnq000PHp53X83S7dN5VFi3?5Tl2LgpaCz9znI



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	0.54	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 46 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) 5=Mechanical, 2=0-5-11, 6=Mechanical
Max Horz 2=119(LC 8)
Max Uplift 2=-41(LC 8), 6=-114(LC 8)
Max Grav 5=206(LC 3), 2=536(LC 1), 6=355(LC 1)

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

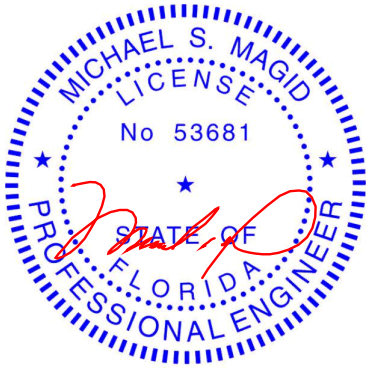
TOP CHORD	2-3=-659/0
BOT CHORD	2-8=-39/564, 7-8=-39/564
WEBS	3-7=-631/43

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical 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) 2 except (jt=lb) 6=114.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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: 1-5=-60, 6-9=-20
   Concentrated Loads (lb)
   Vert: 13=-0(F) 14=-96(F=-51, B=-45) 16=-12(F=-10, B=-2) 17=-62(F=-33, B=-28)



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

June 4,2022

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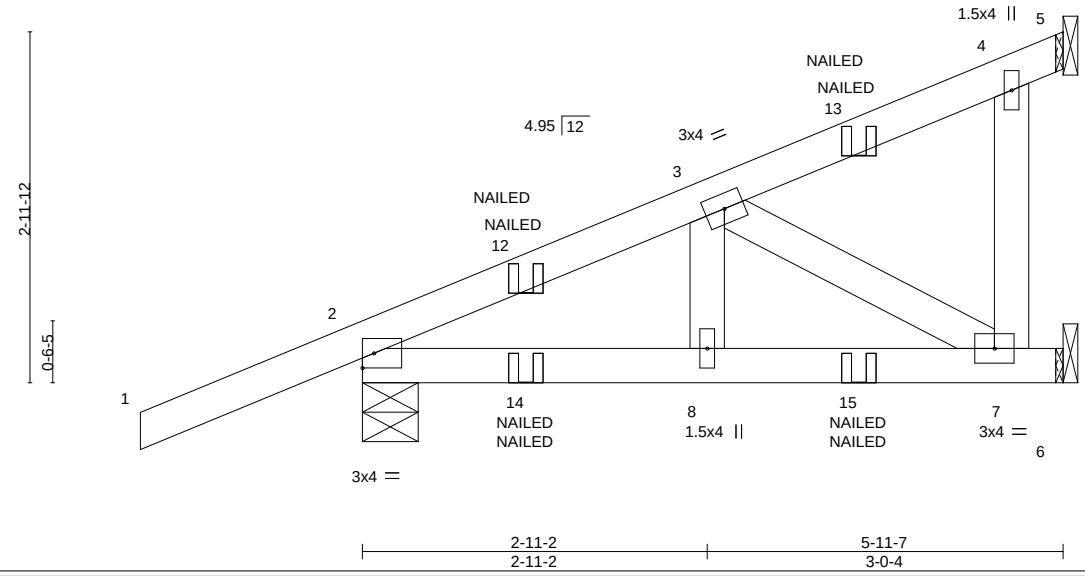
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	CJ04	Diagonal Hip Girder	1	1	T27911825
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:00 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-ra6nLBoSnK8GuzgF5sahgrwKZf8zkbouG?QM6fz9znH

-1-10-10 / 1-10-10 | 2-11-2 / 2-11-2 | 5-11-7 / 3-0-4

Scale = 1:19.6



2-11-2 / 2-11-2 | 5-11-7 / 3-0-4

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	0.26	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 31 lb	FT = 20%

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

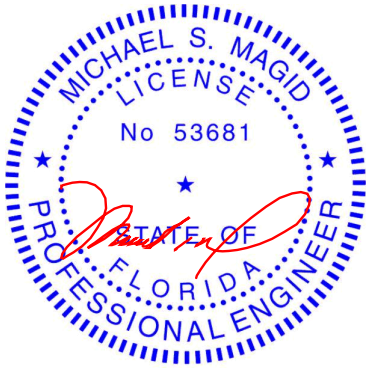
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-5-11, 6=Mechanical
Max Horz 2=87(LC 8)
Max Uplift 2=-42(LC 8), 6=-22(LC 5)
Max Grav 5=86(LC 3), 2=368(LC 1), 6=138(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-287/0
WEBS 3-7=-264/9

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical 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) 2, 6.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 15=-4(F=-2, B=-2)



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	CJ05	Diagonal Hip Girder	1	1	T27911826
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:02 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-nyDXltpjJxOz8HqeDHd9lG?cvSkiCRHBkJvTAXz9znF

-1-10-10 / 1-10-10 | 4-10-13 / 4-10-13 | 9-10-13 / 4-11-15

Scale = 1:30.7

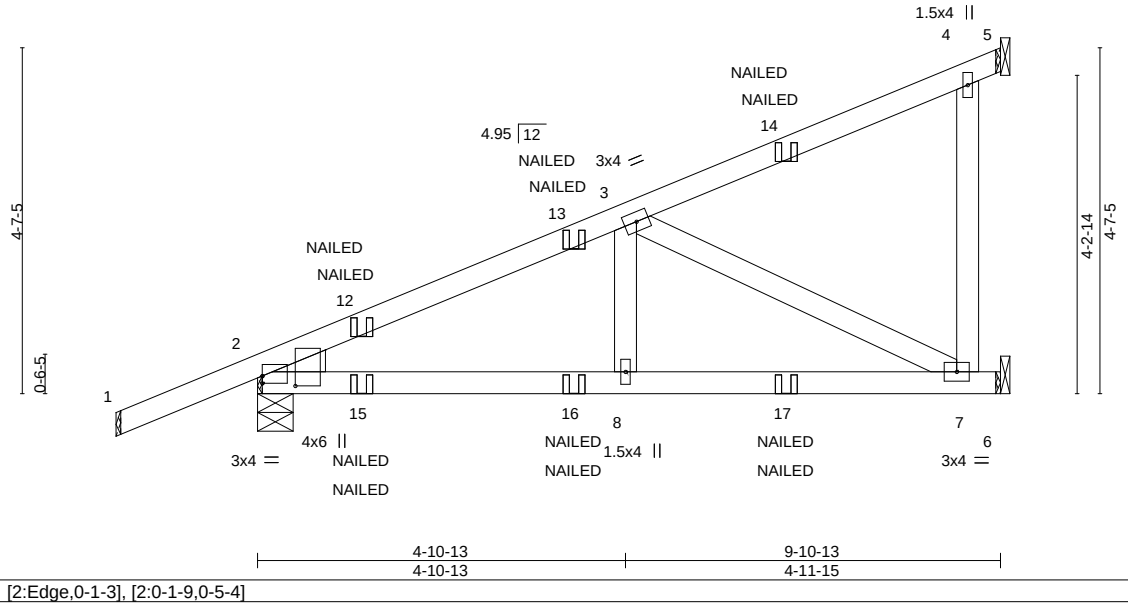


Plate Offsets (X,Y)-- [2:Edge,0-1-3], [2:0-1-9,0-5-4]

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	0.53	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.10	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 51 lb	FT = 20%

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

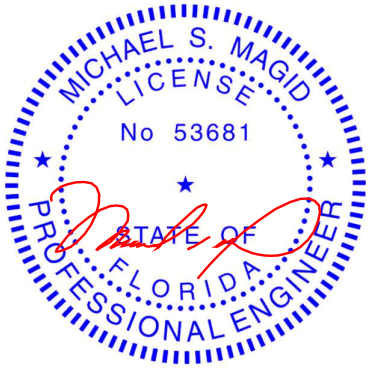
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-5-11, 6=Mechanical
Max Horz 2=126(LC 24)
Max Uplift 2=-38(LC 8), 6=-120(LC 8)
Max Grav 5=218(LC 3), 2=562(LC 1), 6=374(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-699/0
BOT CHORD 2-8=-39/612, 7-8=-39/612
WEBS 3-8=0/268, 3-7=-682/43

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical 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) 2 except (jt=lb) 6=120.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 14=-91(F=-45, B=-45) 16=-4(F=-2, B=-2) 17=-56(F=-28, B=-28)



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	D01	Hip Girder	1	1	T27911827
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:04 2022 Page 1
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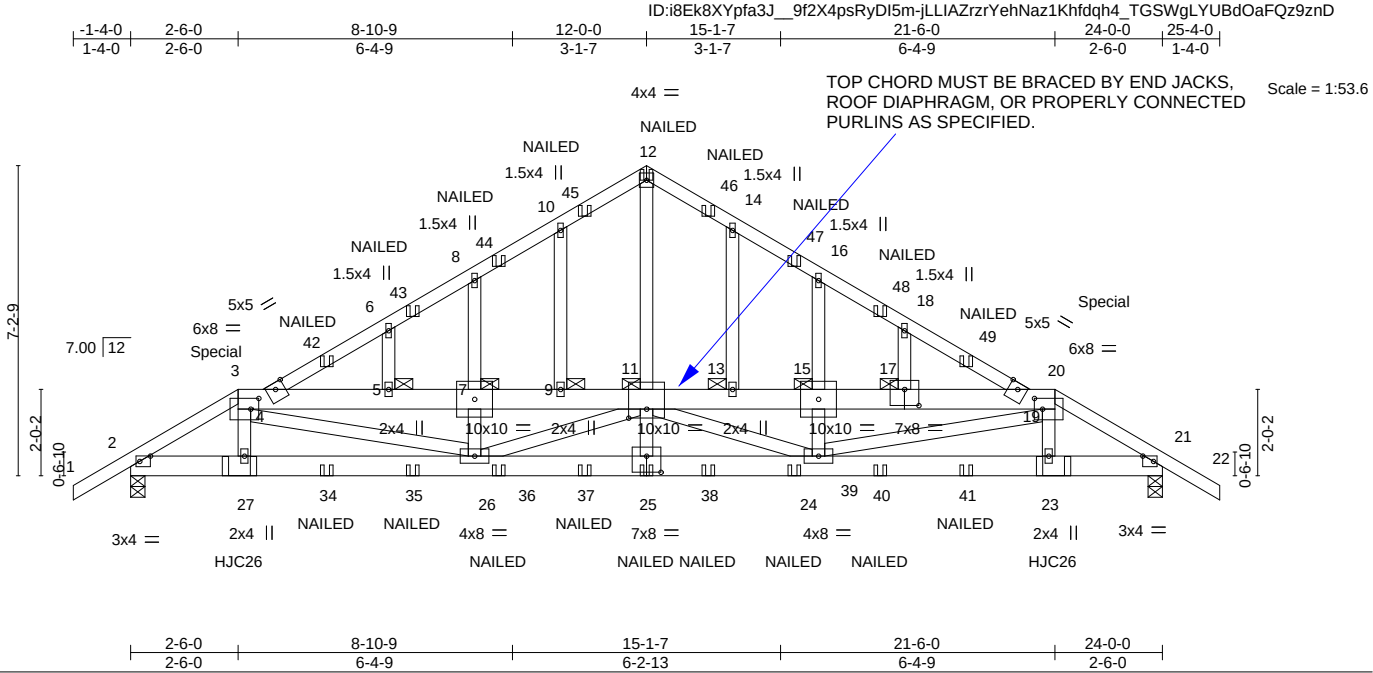


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-2-4,0-3-0], [11:0-5-0,0-2-8], [17:0-4-0,0-4-8], [20:0-2-4,0-3-0], [21:0-3-0,Edge], [25:0-4-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.06	24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.12	24	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.03	21	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 210 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 3-17,17-20: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 21=0-4-0
Max Horz 2=-130(LC 23)
Max Uplift 2=-70(LC 8), 21=-70(LC 8)
Max Grav 2=1057(LC 29), 21=1057(LC 30)

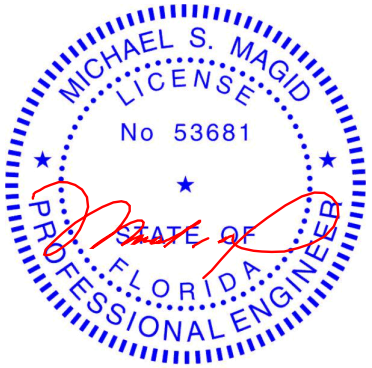
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 11, 9, 7, 5, 13, 15, 17

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.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1647/51, 3-4=-1661/83, 4-5=-879/109, 5-7=-879/109, 7-9=-814/90, 9-11=-814/90, 11-13=-915/110, 13-15=-915/110, 15-17=-990/131, 17-19=-990/131, 19-20=-1769/106, 20-21=-1649/54, 4-6=-1092/7, 6-8=-1050/42, 8-10=-1073/79, 10-12=-1048/108, 12-14=-1056/109, 14-16=-1088/82, 16-18=-1030/34, 18-19=-1118/10
BOT CHORD 2-27=0/1480, 26-27=0/1484, 25-26=0/764, 24-25=0/764, 23-24=0/1439, 21-23=0/1436
WEBS 11-12=-72/891, 7-26=-396/116, 15-16=-266/74, 15-24=-461/131, 3-26=-36/375, 11-26=-91/1066, 11-24=-112/1148, 20-24=-55/459

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 18-11-4 oc max. starting at 2-6-6 from the left end to 21-5-10 to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 58 lb up at 2-6-0, and 108 lb down and 58 lb up at 21-5-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-4=-60, 19-20=-60, 20-22=-60, 28-31=-20, 4-12=-60, 12-19=-60
   Concentrated Loads (lb)
   Vert: 3=58(F) 20=58(F) 27=-57(F) 23=-57(F) 12=-0(F) 25=-1(F) 34=-1(F) 35=-1(F) 36=-1(F) 37=-1(F) 38=-1(F) 39=-1(F) 40=-1(F) 41=-1(F) 42=-0(F) 43=-0(F) 44=-0(F) 45=-0(F) 46=-0(F) 47=-0(F) 48=-0(F) 49=-0(F)

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	D02	Common	6	1	T27911828
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:05 2022 Page 1

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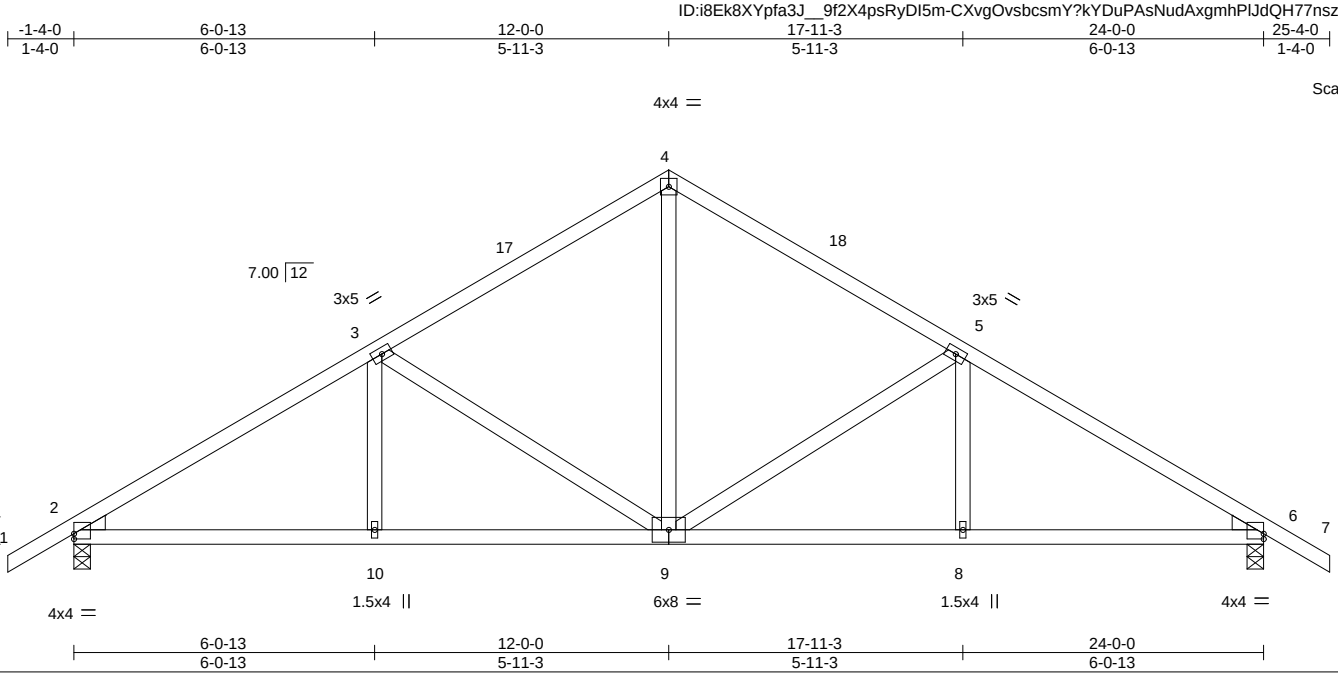


Plate Offsets (X,Y)-- [2:0-0-0,0-1-5], [6:Edge,0-1-5]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.06	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.15	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 124 lb	FT = 20%

LUMBER-

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

BRACING-

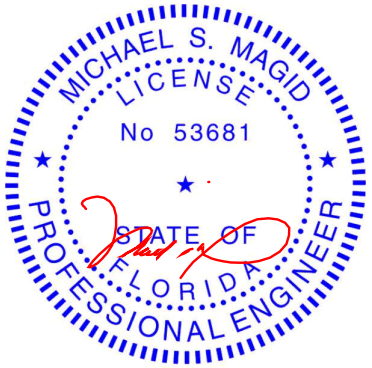
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=135(LC 11)
Max Uplift 2=-32(LC 12), 6=-32(LC 12)
Max Grav 2=1040(LC 1), 6=1040(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1476/52, 3-4=-1026/105, 4-5=-1026/105, 5-6=-1476/52
BOT CHORD 2-10=0/1194, 9-10=0/1194, 8-9=0/1194, 6-8=0/1194
WEBS 4-9=-4/595, 5-9=-482/62, 5-8=0/261, 3-9=-482/62, 3-10=0/261

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 2, 6.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	D03	Common	3	1	T27911829
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:06 2022 Page 1
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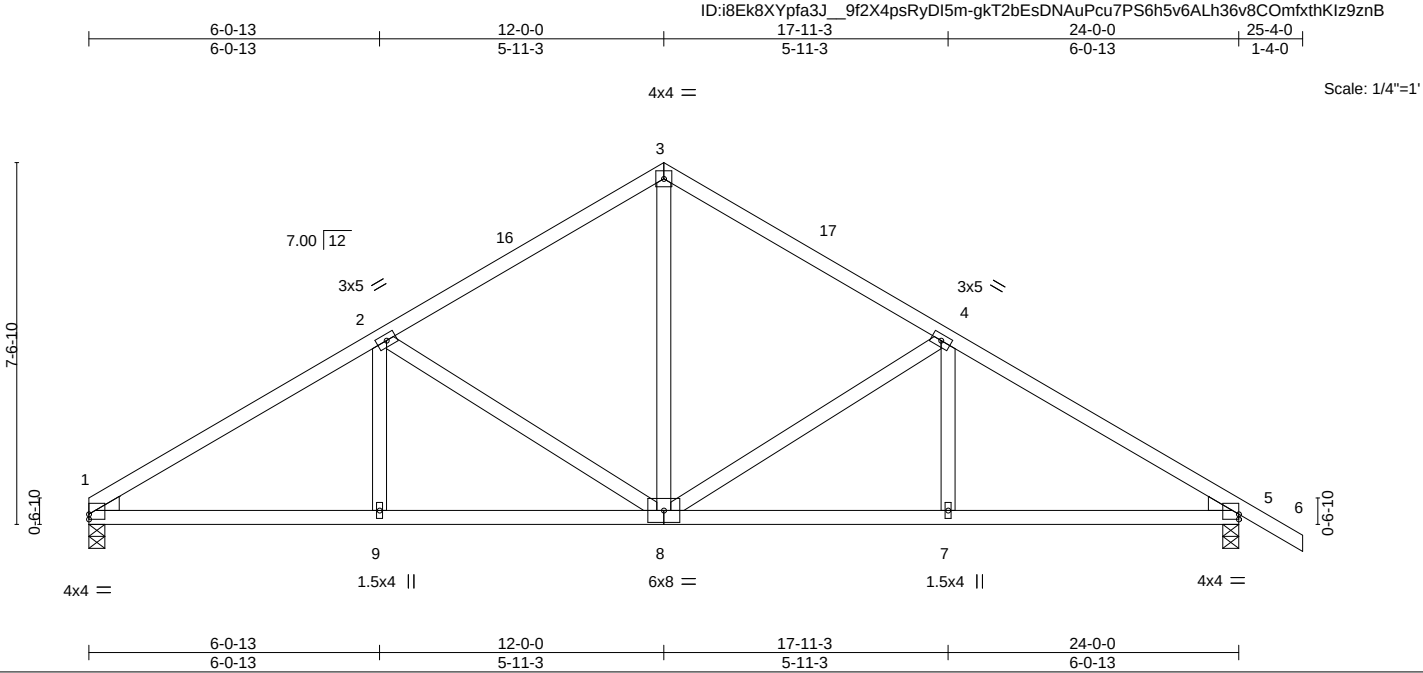


Plate Offsets (X,Y)-- [1:0-0-0,0-1-5], [5:Edge,0-1-5]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.06	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.15	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 122 lb	FT = 20%

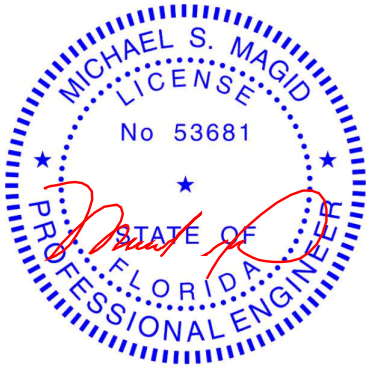
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-4-0, 5=0-4-0
Max Horz 1=-131(LC 10)
Max Uplift 5=-34(LC 12)
Max Grav 1=958(LC 1), 5=1042(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1490/59, 2-3=-1031/108, 3-4=-1030/106, 4-5=-1481/54
BOT CHORD 1-9=0/1209, 8-9=0/1209, 7-8=0/1198, 5-7=0/1198
WEBS 3-8=-7/601, 4-8=-482/62, 4-7=0/261, 2-8=-494/64, 2-9=0/263

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 5.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	D3A	Roof Special	1	1	T27911830
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:08 2022 Page 1
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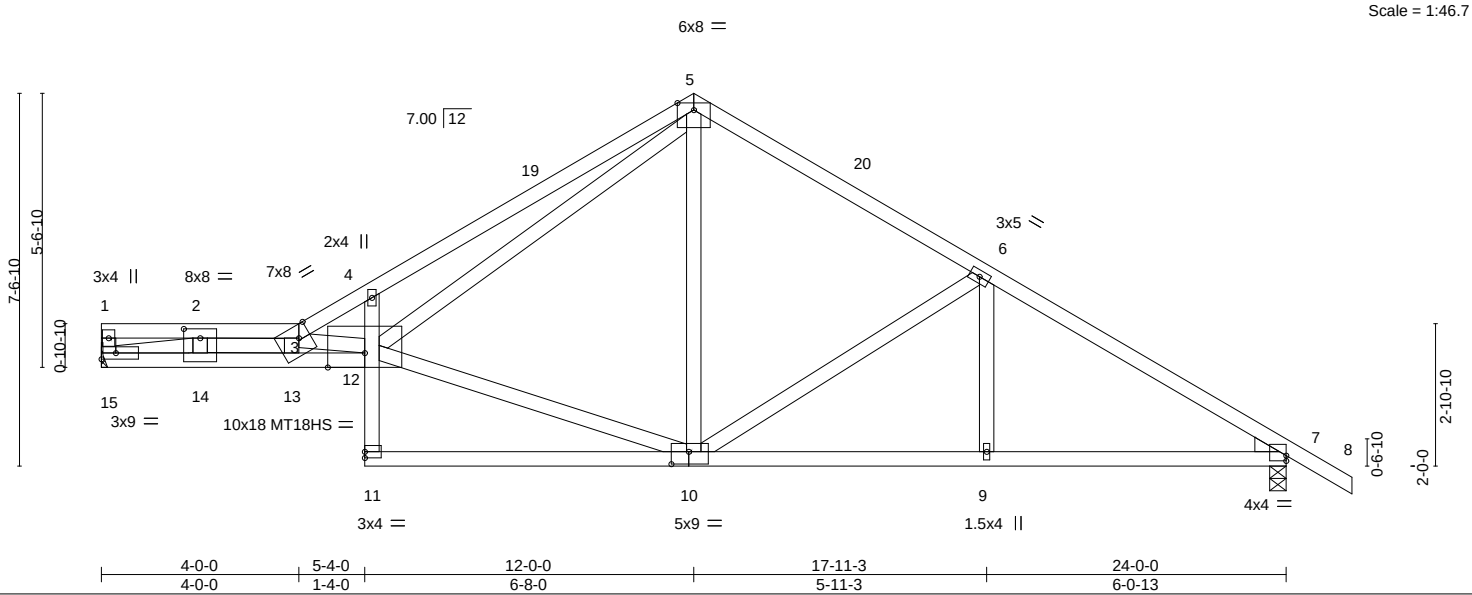
4-0-0	5-4-0	12-0-0	17-11-3	24-0-0	25-4-0
4-0-0	1-4-0	6-8-0	5-11-3	6-0-13	1-4-0

Scale = 1:46.7



4-0-0	5-4-0	12-0-0	17-11-3	24-0-0
4-0-0	1-4-0	6-8-0	5-11-3	6-0-13

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.24	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.48	11	>598	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 139 lb	FT = 20%

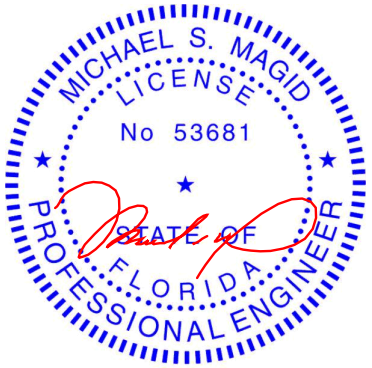
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
12-15: 2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 15=Mechanical, 7=0-4-0
Max Horz 15=-123(LC 10)
Max Uplift 7=-37(LC 12)
Max Grav 15=952(LC 1), 7=1036(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-284/9, 2-3=-4394/66, 3-4=-3124/76, 4-5=-3087/204, 5-6=-1017/113, 6-7=-1469/59
BOT CHORD 14-15=0/2561, 13-14=0/2561, 12-13=0/4565, 4-12=-395/145, 9-10=0/1187, 7-9=0/1187
WEBS 3-13=-717/27, 3-12=-1911/7, 10-12=0/634, 5-12=-113/2285, 5-10=0/270, 6-10=-481/59, 6-9=0/265, 2-15=-2390/51, 2-13=-20/1925

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	G01	Half Hip Girder	1	2	T27911831

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:09 2022 Page 1

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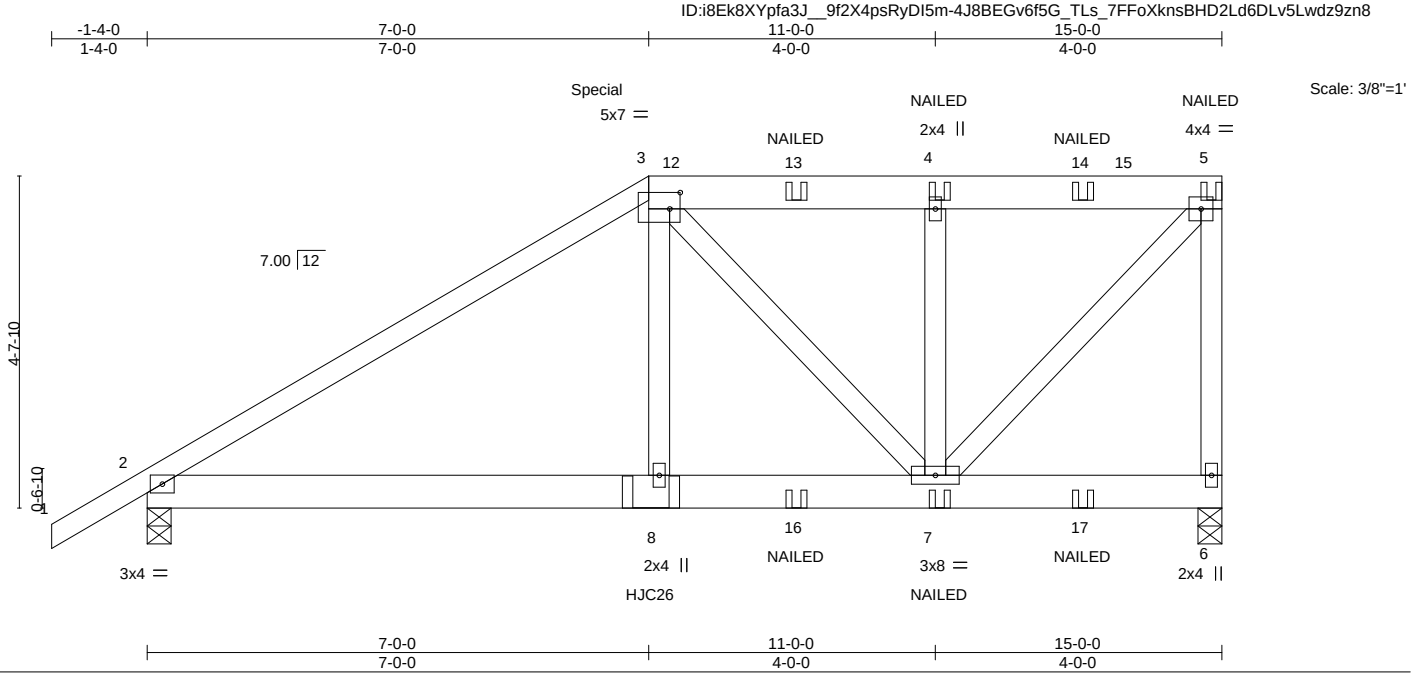


Plate Offsets (X,Y)-- [3:0-1-12,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.01	8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.03	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 200 lb	FT = 20%

LUMBER-

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

BRACING-

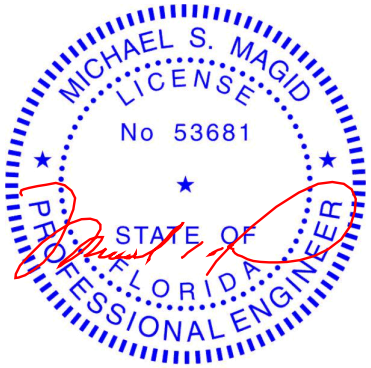
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-4-0, 2=0-4-0
Max Horz 2=135(LC 7)
Max Uplift 6=-148(LC 5), 2=-98(LC 8)
Max Grav 6=1470(LC 1), 2=1146(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1644/146, 3-4=-1008/113, 4-5=-1005/112, 5-6=-1396/174
BOT CHORD 2-8=-149/1327, 7-8=-150/1347
WEBS 3-8=-33/583, 3-7=-498/59, 4-7=-563/159, 5-7=-122/1463

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=148.
10) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 7-0-6 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 283 lb down and 43 lb up at 7-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-5=-60, 6-9=-20
   Concentrated Loads (lb)
   Vert: 3=-210(B) 8=-407(B) 4=-129(B) 7=-61(B) 5=-162(B) 13=-129(B) 14=-129(B) 16=-61(B) 17=-61(B)

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	G02	Half Hip	1	1	T27911832

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:11 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-0hGxeywMBiXijf0NEfHGc9tBb4sWpQBWoCaS?Wz9zn6

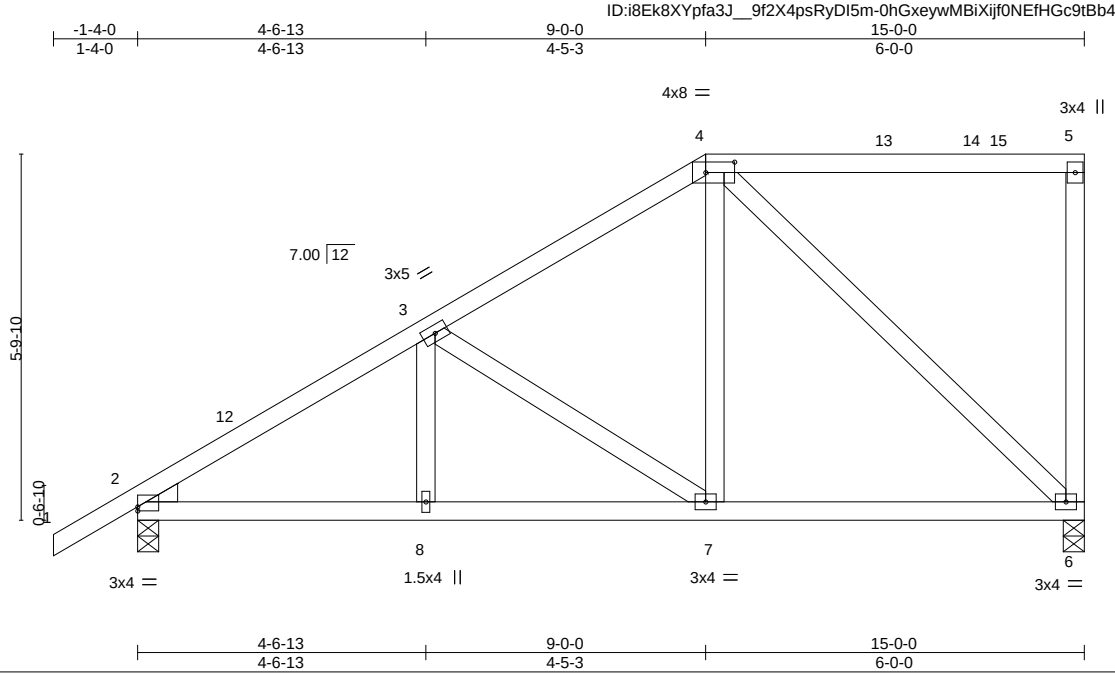


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [4:0-5-8,0-2-0]

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	0.34	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 88 lb	FT = 20%

LUMBER-

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

BRACING-

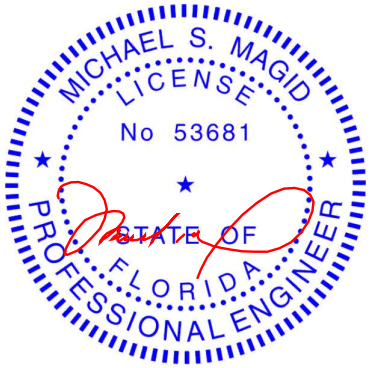
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=174(LC 11)
Max Uplift 2=-30(LC 12), 6=-23(LC 9)
Max Grav 2=678(LC 1), 6=591(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-842/34, 3-4=-531/75
BOT CHORD 2-8=-169/665, 7-8=-169/665, 6-7=-111/411
WEBS 3-7=-315/68, 4-7=0/356, 4-6=-536/87

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 14-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	G03	Common	1	1	T27911833
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:12 2022 Page 1
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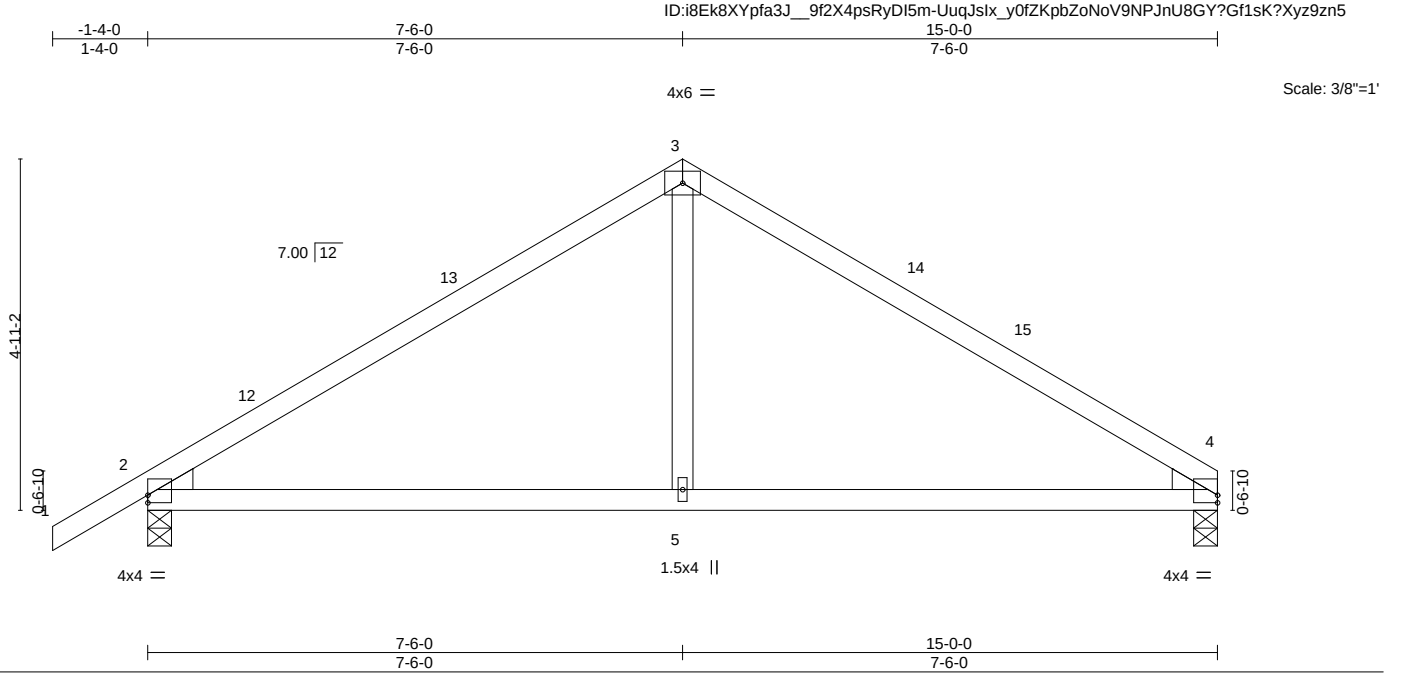


Plate Offsets (X,Y)-- [2:Edge,0-1-5], [4:0-0-0,0-1-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.07	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.14	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 59 lb	FT = 20%

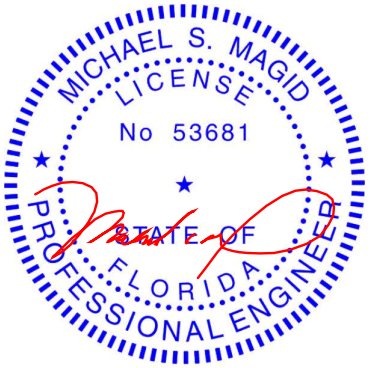
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=0-4-0, 2=0-4-0
Max Horz 2=86(LC 11)
Max Uplift 2=-34(LC 12)
Max Grav 4=596(LC 1), 2=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-762/76, 3-4=-760/79
BOT CHORD 2-5=0/564, 4-5=0/564
WEBS 3-5=0/333

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-6-0, Exterior(2R) 7-6-0 to 10-6-0, Interior(1) 10-6-0 to 15-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	G04	Half Hip	1	1	T27911834

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:13 2022 Page 1

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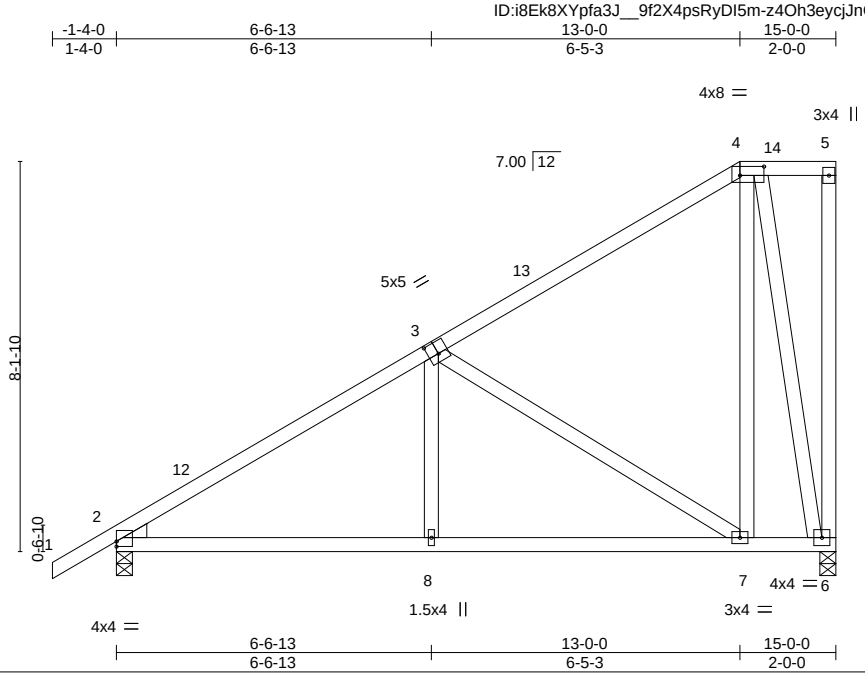


Plate Offsets (X,Y)-- [2:0-0-0,0-1-5], [3:0-2-8,0-3-0], [4:0-6-0,0-2-4]

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	0.51	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.08	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 101 lb	FT = 20%

LUMBER-

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

BRACING-

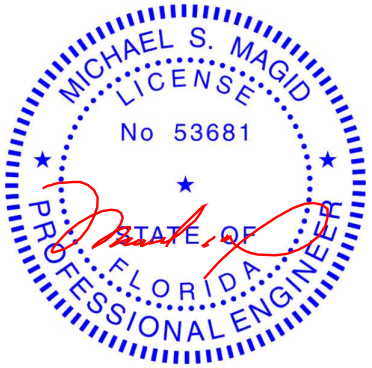
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=0-4-0, 2=0-4-0
Max Horz 2=245(LC 11)
Max Uplift 6=-29(LC 9), 2=-26(LC 12)
Max Grav 6=591(LC 1), 2=678(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-751/26, 3-4=-263/95
BOT CHORD 2-8=-141/567, 7-8=-142/564
WEBS 3-8=0/288, 3-7=-481/52, 4-7=-13/418, 4-6=-639/131

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 13-0-0, Exterior(2E) 13-0-0 to 14-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	G05	Half Hip Girder	1	2	T27911835

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:15 2022 Page 1

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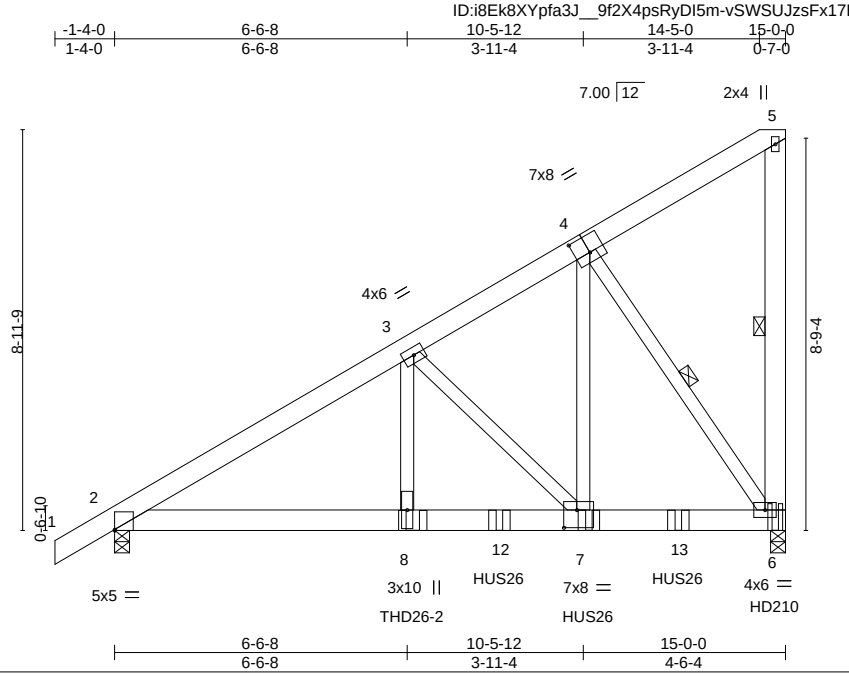


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [4:0-4-0,0-4-8], [7:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.13	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 261 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2 *Except* 5-6: 2x6 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.
WEBS	1 Row at midpt 5-6, 4-6

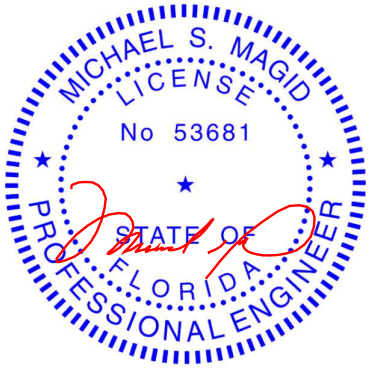
REACTIONS. (size) 6=0-4-0, 2=0-4-0
Max Horz 2=271(LC 20)
Max Uplift 6=-143(LC 5), 2=-128(LC 8)
Max Grav 6=6438(LC 2), 2=3551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6361/204, 3-4=-3463/124
BOT CHORD 2-8=-226/5401, 7-8=-226/5401, 6-7=-117/2931
WEBS 3-8=-111/3594, 3-7=-3426/189, 4-7=-137/5665, 4-6=-5105/167

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-4-0 oc, Except member 7-3 2x4 - 1 row at 0-9-0 oc, member 4-7 2x4 - 1 row at 0-9-0 oc, member 6-4 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=143, 2=128.
8) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 6-8-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
9) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-7-4 from the left end to 12-7-4 to connect truss(es) to front face of bottom chord.
10) Use MiTek HD210 (With 10-16d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 14-9-4 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-60, 6-9=-20
   Concentrated Loads (lb)
   Vert: 6=-1396(F) 8=-3035(F) 7=-1388(F) 12=-1388(F) 13=-1388(F)

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	H01	Common Girder	1	1	T27911836
					Job Reference (optional)

Mayo Truss, Mayo, Fl — 8.530 s Feb 23 2022 MiTek Industries, Inc. Fri Jun 3 16:03:15 2022 Page 1

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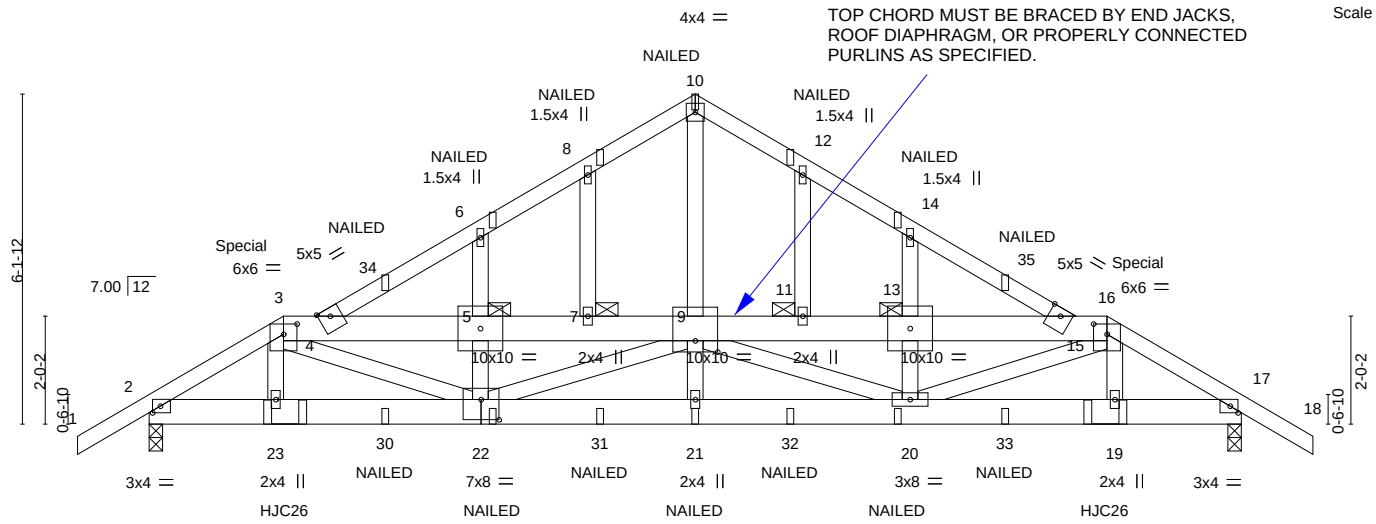
-1-4-0	2-6-0	5-1-13	6-2-0	10-2-0	14-2-0	15-2-3	17-10-0	20-4-0	21-8-0
1-4-0	2-6-0	2-7-13	1-0-3	4-0-0	4-0-0	1-0-3	2-7-13	2-6-0	1-4-0

Scale = 1:42.9

TOP CHORD MUST BE BRACED BY END JACKS, ROOF DIAPHRAGM, OR PROPERLY CONNECTED PURLINS AS SPECIFIED.



2-6-0	6-2-0	6-9-14	10-2-0	13-6-2	14-2-0	17-10-0	20-4-0
2-6-0	3-8-0	0-7-14	3-4-2	3-4-2	0-7-14	3-8-0	2-6-0

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-3-0,0-2-5], [9:0-5-0,0-2-8], [16:0-3-0,0-2-5], [17:0-1-12,0-1-8], [22:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.03	20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.07	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.02	17	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 171 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 3-16: 2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 17=0-3-0
Max Horz 2=-111(LC 23)
Max Uplift 2=-102(LC 8), 17=-102(LC 8)
Max Grav 2=896(LC 1), 17=896(LC 1)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 7, 5, 11, 13

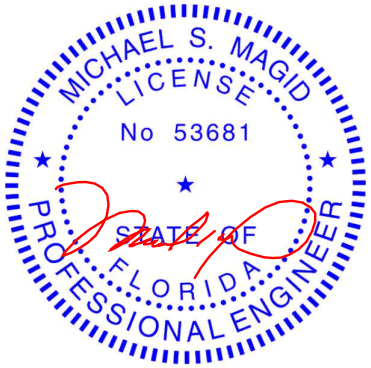
TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.

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

TOP CHORD	2-3=-1260/102, 16-17=-1265/108, 3-4=-1395/154, 4-5=-754/156, 5-7=-752/156, 7-9=-752/156, 9-11=-739/141, 11-13=-739/141, 13-15=-739/141, 15-16=-1380/139, 4-34=-836/30, 6-34=-804/40, 6-8=-839/92, 8-10=-815/124, 10-12=-815/124, 12-14=-839/92, 14-35=-804/40, 15-35=-836/30
BOT CHORD	2-23=-43/1066, 23-30=-44/1065, 22-30=-44/1065, 22-31=0/869, 21-31=0/869, 21-32=0/869, 20-32=0/869, 20-33=-40/1067, 19-33=-40/1067, 17-19=-38/1069
WEBS	9-10=-77/653, 5-22=-319/103, 13-20=-318/104, 16-20=-44/411, 9-20=-88/601, 9-22=-104/626, 3-22=-64/425

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 102 lb uplift at joint 17.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 15-3-4 oc max. starting at 2-6-6 from the left end to 17-9-10 to connect truss(es) J03 (1 ply 2x4 SP), CJ02 (1 ply 2x4 SP), J01 (1 ply 2x4 SP), CJ01 (1 ply 2x4 SP) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 33 lb down and 58 lb up at 2-6-0, and 33 lb down and 58 lb up at 17-10-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.



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Date: June 4,2022

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 16-18=-60, 24-27=-20, 3-4=-60, 15-16=-60, 4-10=-60, 10-15=-60
   Concentrated Loads (lb)
   Vert: 3=58(F) 16=58(F) 10=-0(F) 23=-57(F) 19=-57(F) 8=-0(F) 6=-0(F) 12=-0(F) 14=-0(F) 21=-1(F) 22=-1(F) 20=-1(F) 30=-1(F) 31=-1(F) 32=-1(F) 33=-1(F) 34=-0(F) 35=-0(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	H02	Common	1	1	T27911837

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:18 2022 Page 1

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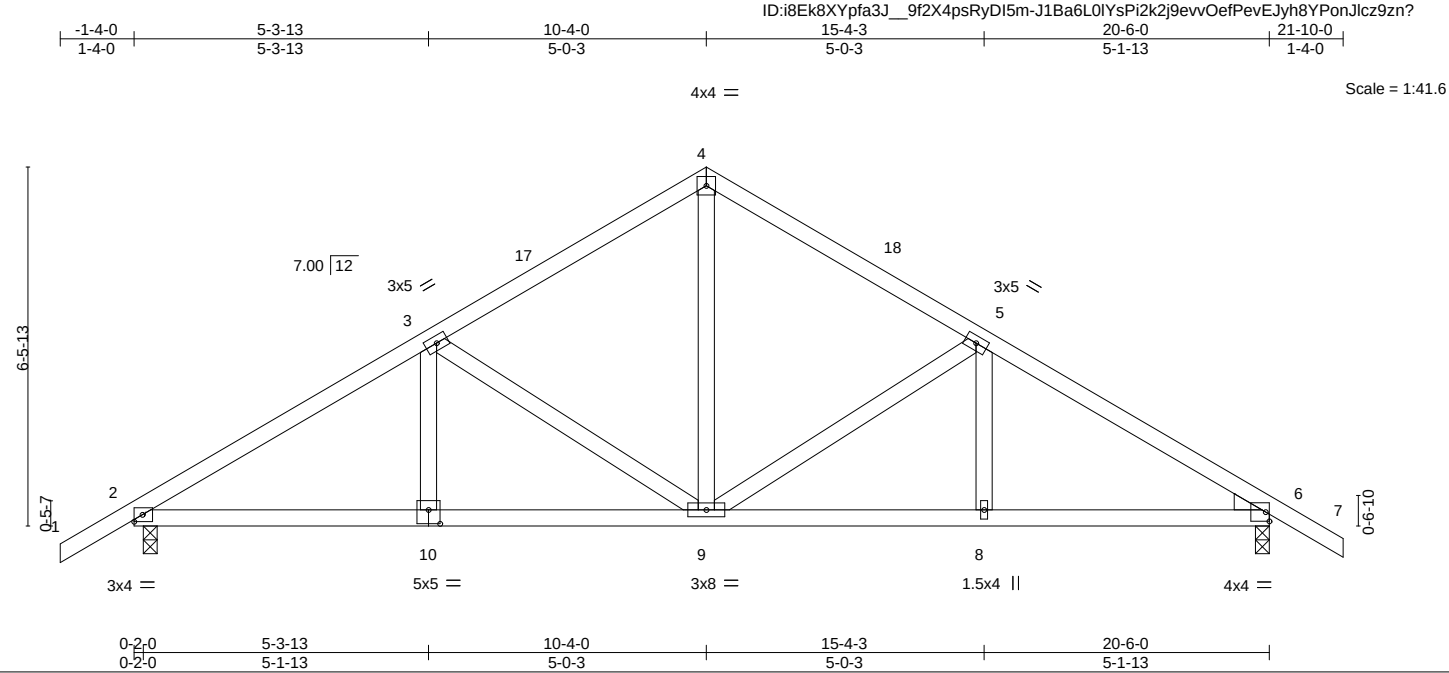


Plate Offsets (X,Y)-- [10:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.09	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 106 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.3

BRACING-

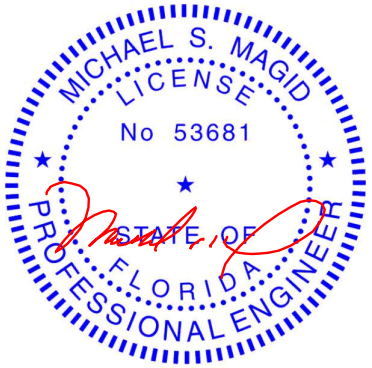
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 6=0-3-0
Max Horz 2=-117(LC 10)
Max Uplift 2=-33(LC 12), 6=-32(LC 12)
Max Grav 2=900(LC 1), 6=900(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1252/56, 3-4=-886/85, 4-5=-884/85, 5-6=-1234/48
BOT CHORD 2-10=0/1019, 9-10=0/1019, 8-9=0/995, 6-8=0/995
WEBS 3-9=-399/70, 4-9=0/522, 5-9=-376/62

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 21-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 2, 6.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date: June 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J01	Jack-Open	19	1	T27911838
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:19 2022 Page 1
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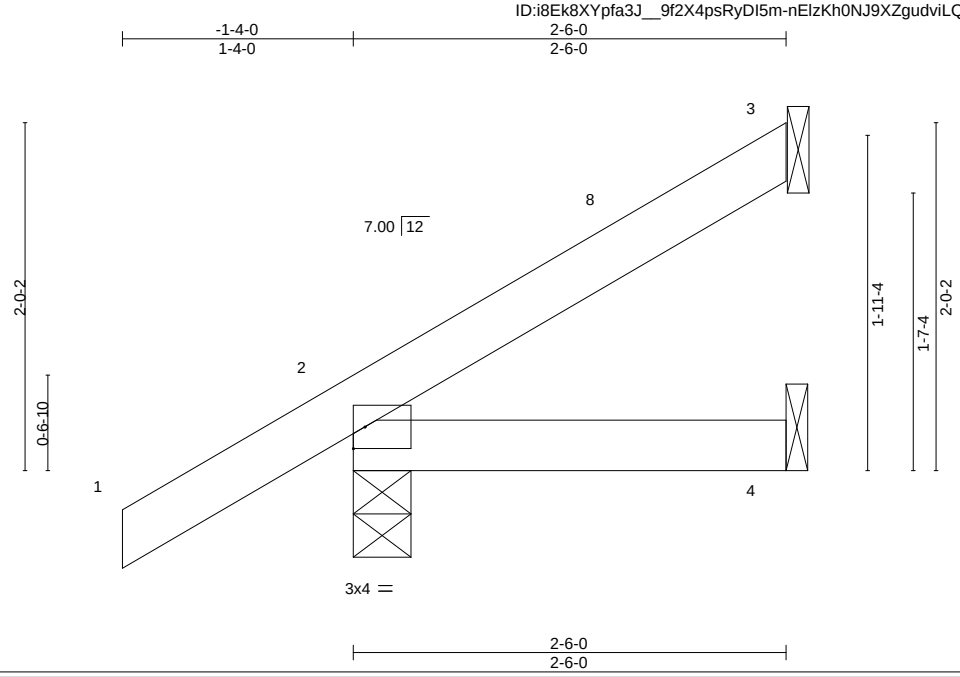


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 11 lb	FT = 20%

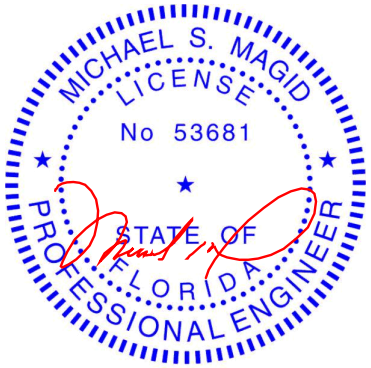
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=63(LC 12)
Max Uplift 3=-15(LC 12), 2=-30(LC 12)
Max Grav 3=56(LC 17), 2=199(LC 1), 4=42(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2.



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Date:

June 4,2022

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Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J02	Jack-Open	14	1	T27911839
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:19 2022 Page 1
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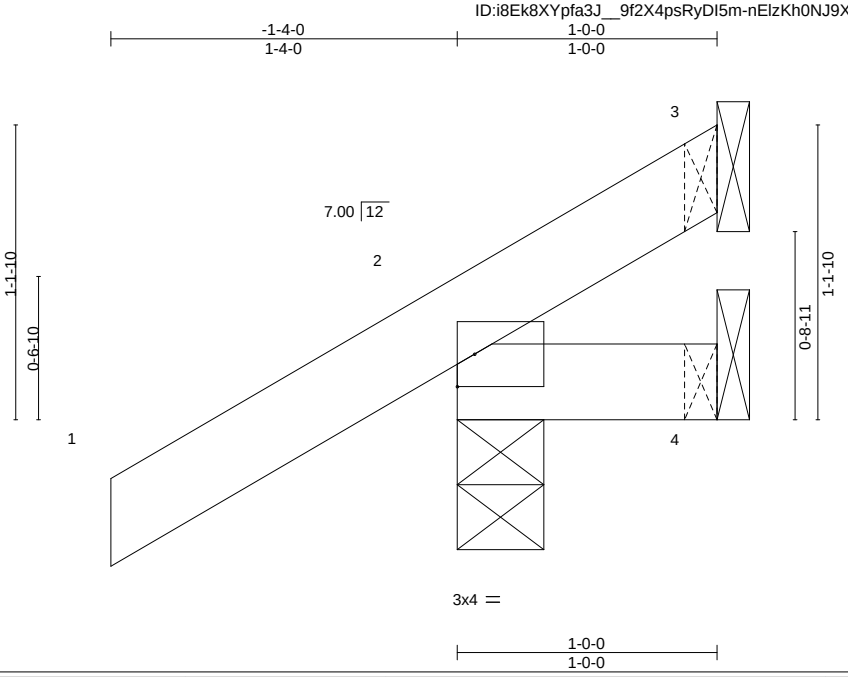


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

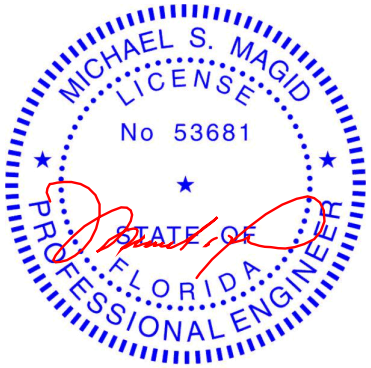
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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=0-4-0, 4=Mechanical
Max Horz 2=42(LC 12)
Max Uplift 3=-4(LC 9), 2=-52(LC 12), 4=-14(LC 1)
Max Grav 3=6(LC 8), 2=174(LC 1), 4=15(LC 12)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2, 4.



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Date:

June 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J03	Jack-Open	1	1	T27911840
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:20 2022 Page 1
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-1-4-0 2-6-0
1-4-0 2-6-0

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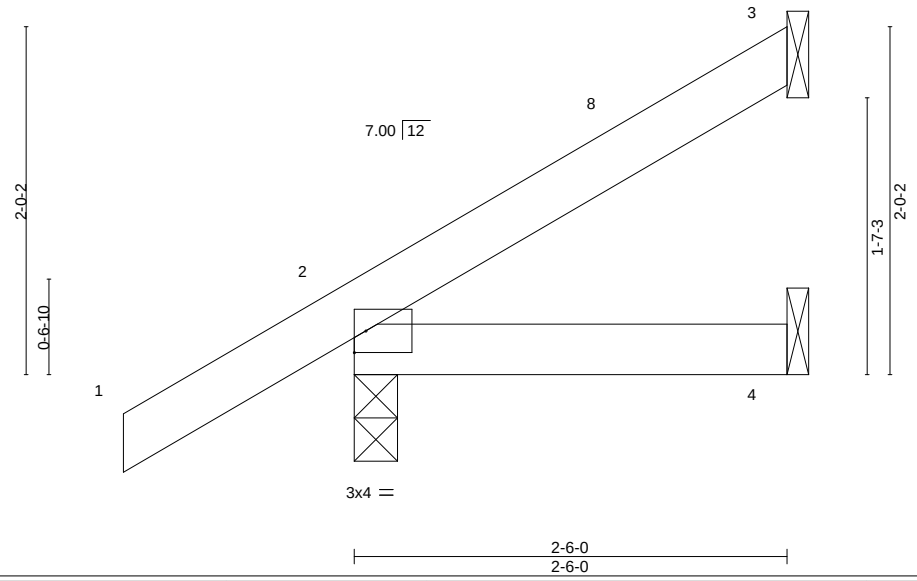


2-6-0
2-6-0

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	0.11	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 11 lb	FT = 20%

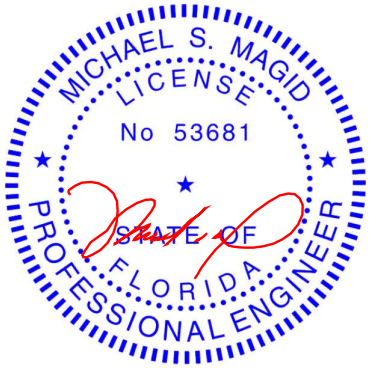
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=63(LC 12)
Max Uplift 3=-15(LC 12), 2=-30(LC 12)
Max Grav 3=56(LC 17), 2=199(LC 1), 4=42(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2.



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Date:

June 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J04	Jack-Open	5	1	T27911841
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:21 2022 Page 1
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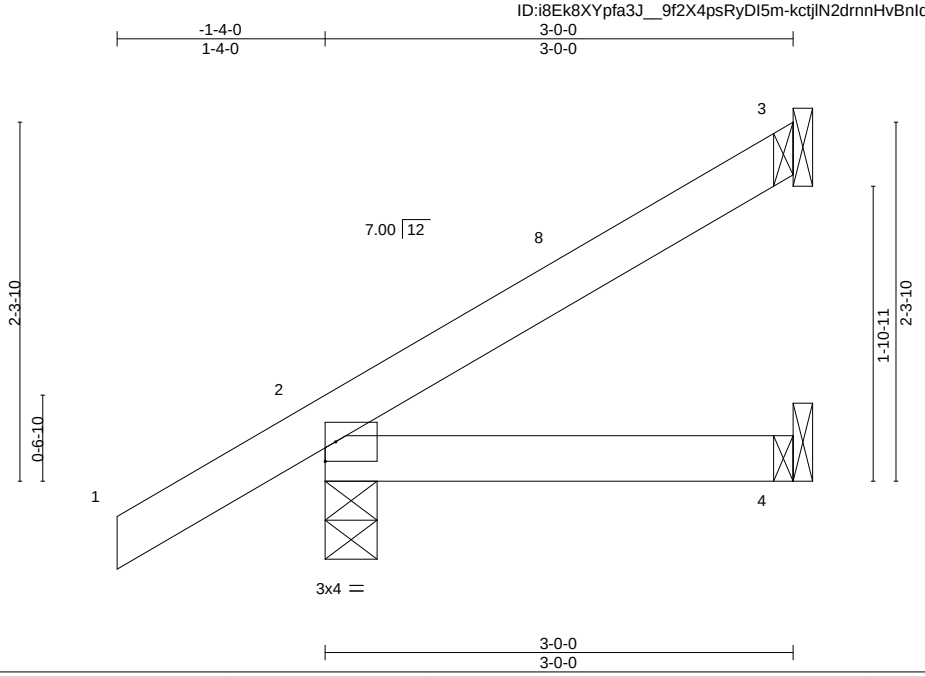


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

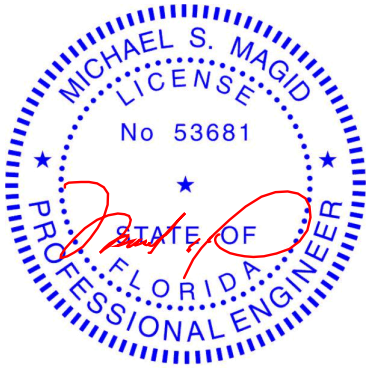
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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=0-4-0, 4=Mechanical
Max Horz 2=70(LC 12)
Max Uplift 3=-20(LC 12), 2=-26(LC 12)
Max Grav 3=70(LC 17), 2=216(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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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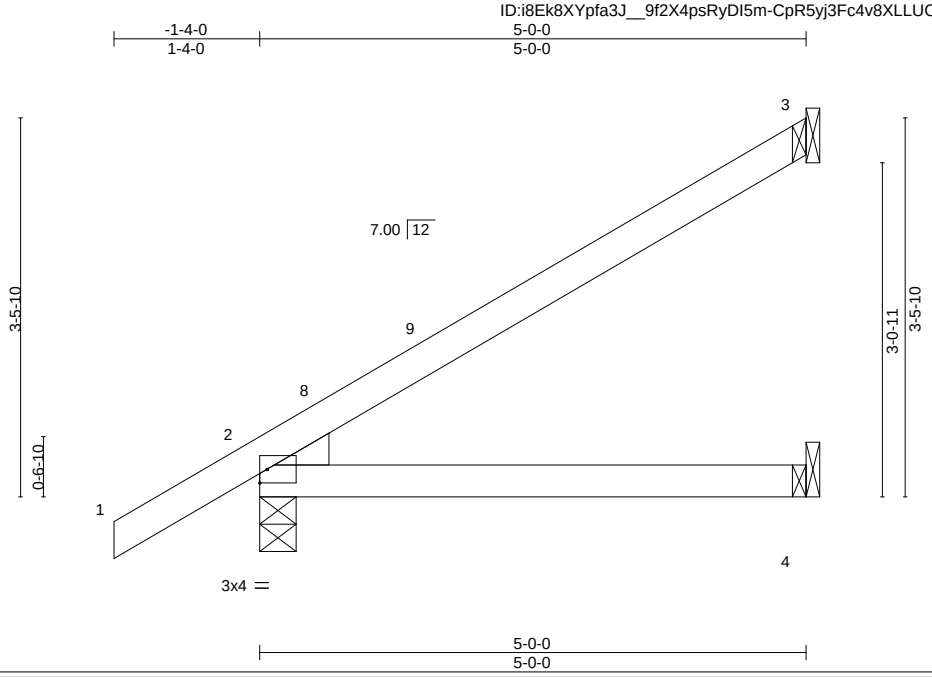
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J05	Jack-Open	3	1	T27911842

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:22 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-CpR5yj3Fc4v8XLLUOT_rZUq5QWe0uXv7KQlXtNz9zmx



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	0.30	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 19 lb	FT = 20%

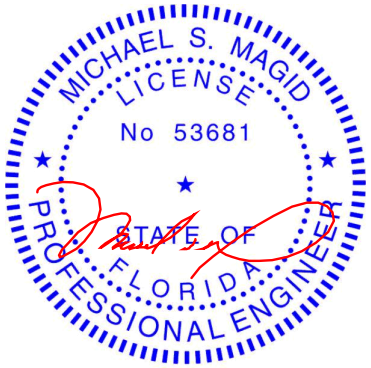
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=98(LC 12)
Max Uplift 3=-38(LC 12), 2=-15(LC 12)
Max Grav 3=130(LC 1), 2=288(LC 1), 4=90(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
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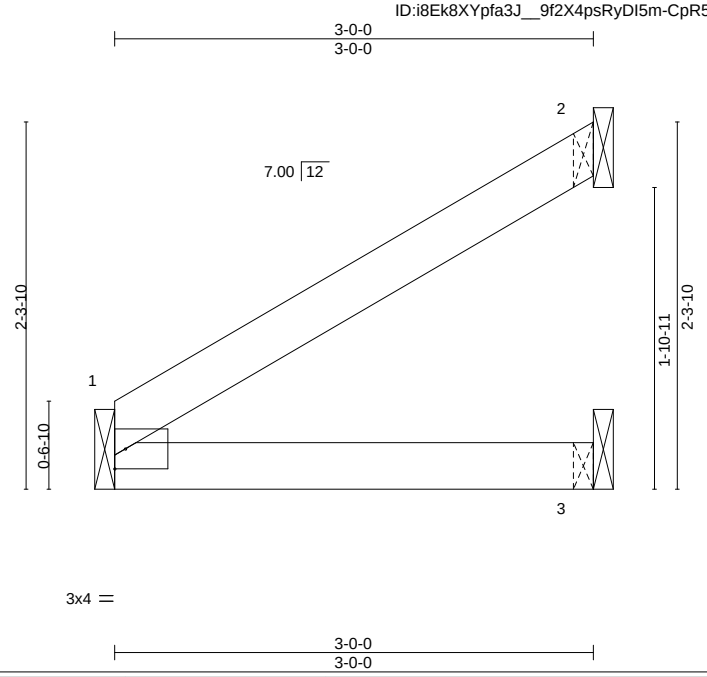
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J06	Jack-Open	1	1	T27911843
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:22 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-CpR5yj3Fc4v8XLLUOT_rZUq8HWgauXv7KQlXtNz9zmx



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	0.12	Vert(LL)	-0.00	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 10 lb	FT = 20%

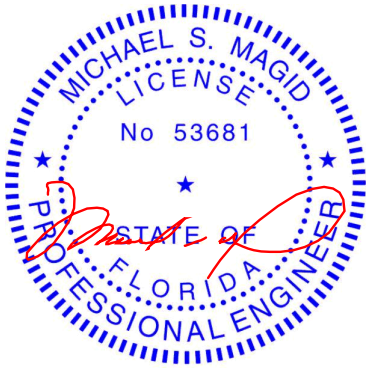
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=41(LC 12)
Max Uplift 2=-25(LC 12)
Max Grav 1=118(LC 1), 2=79(LC 1), 3=56(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.



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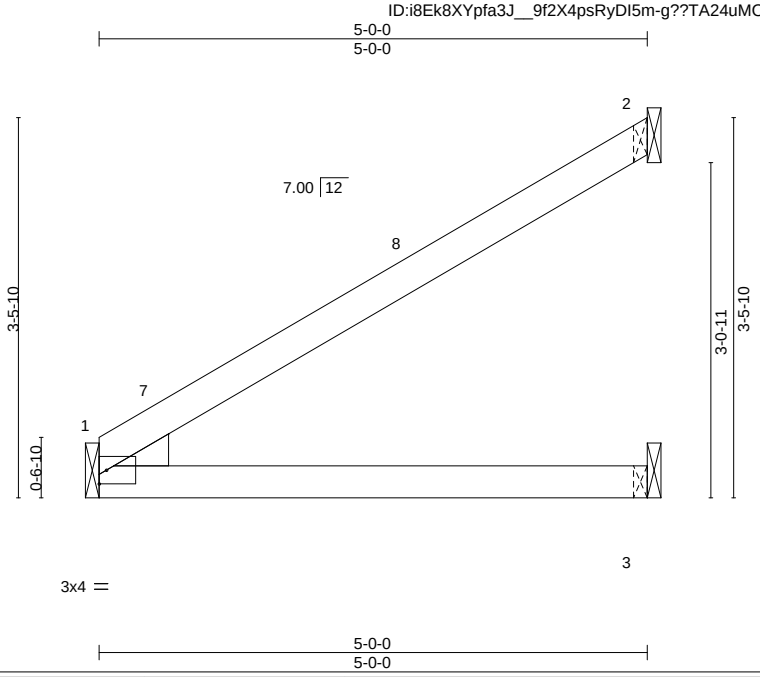
Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J07	Jack-Open	1	1	T27911844
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:23 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-g??TA24uMO1?9VwgxBV45hNEmwz5d_9HZ4U4Ppz9zmw



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.02	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.06	3-6	>996	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 17 lb	FT = 20%

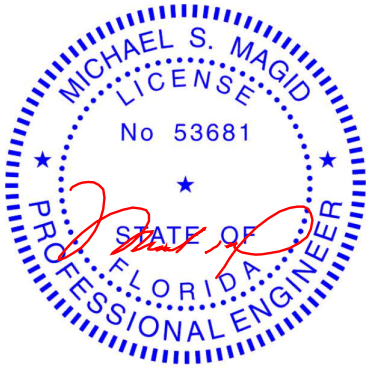
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=69(LC 12)
Max Uplift 2=-41(LC 12)
Max Grav 1=198(LC 1), 2=136(LC 1), 3=92(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J08	Jack-Open	13	1	T27911845

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:24 2022 Page 1

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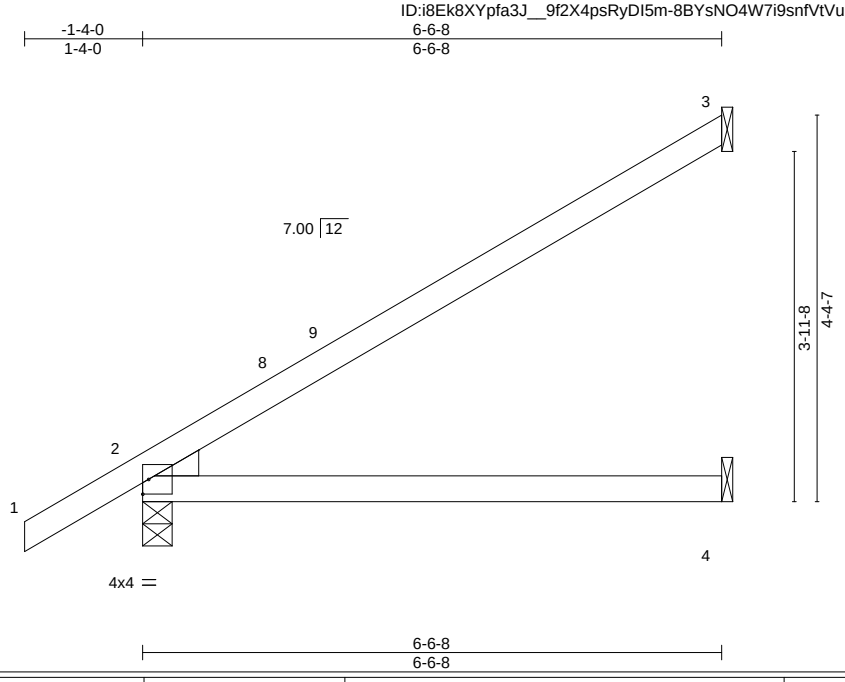


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.07	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.17	4-7	>466	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 24 lb	FT = 20%

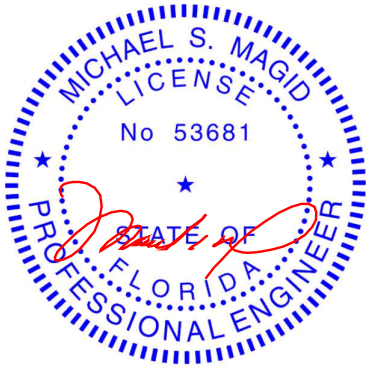
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 3=-52(LC 12), 2=-7(LC 12)
Max Grav 3=176(LC 1), 2=347(LC 1), 4=118(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J09	Jack-Open Girder	1	1	T27911846

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:25 2022 Page 1
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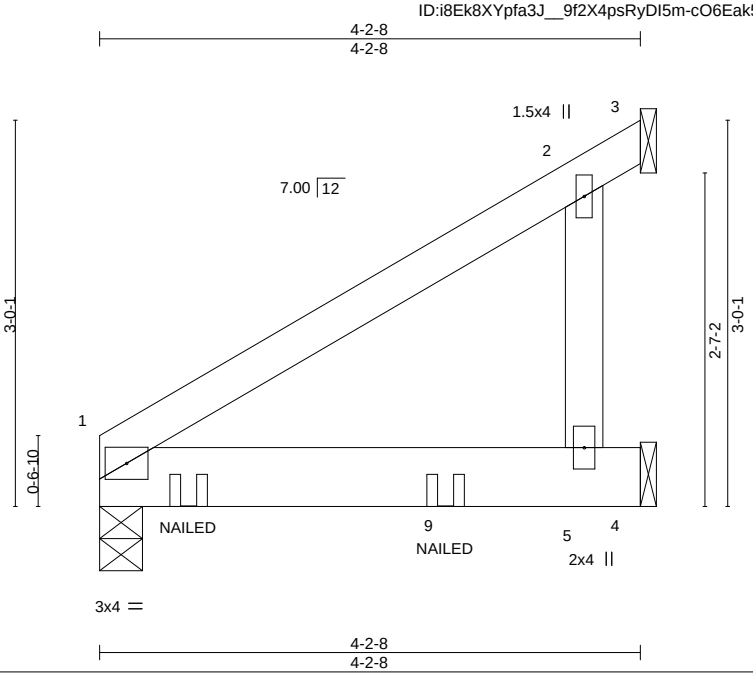


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.01	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.03	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

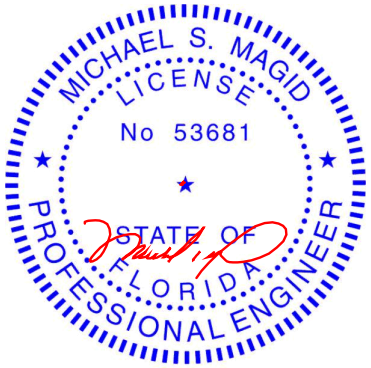
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 1=58(LC 21)
Max Uplift 3=-35(LC 13), 4=-29(LC 8)
Max Grav 1=318(LC 1), 3=60(LC 21), 4=285(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical 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, 4.
7) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-101(B) 9=-178(B)



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J10	Jack-Partial Girder	1	1	T27911847
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:26 2022 Page 1
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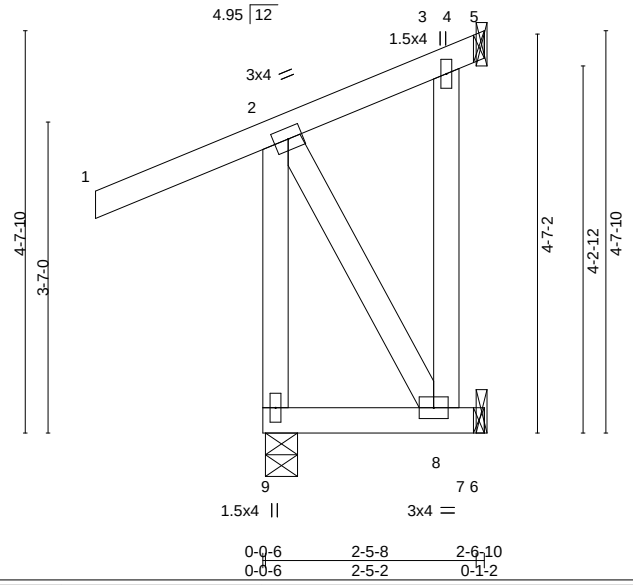
1-11-2 1-3-5 1-2-3 0-1-2

Scale = 1:26.5



0-0-6 2-5-8 2-6-10
0-0-6 2-5-2 0-1-2

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	0.32	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 27 lb	FT = 20%

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

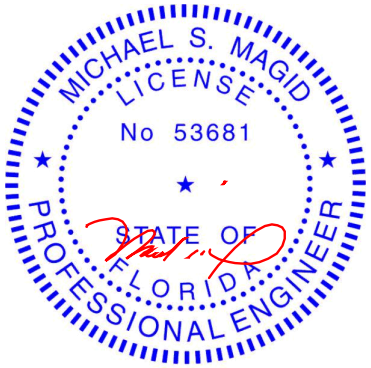
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-7, 4=Mechanical, 7=Mechanical
Max Horz 9=120(LC 8)
Max Uplift 9=-13(LC 4), 4=-66(LC 21), 7=-47(LC 5)
Max Grav 9=271(LC 1), 4=81(LC 13), 7=38(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-257/27

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical 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) 9, 4, 7.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 27 lb up at -0-0-4 on top 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: 1-2=-60, 2-4=-60, 4-5=-20, 6-9=-20



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Date:

June 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J11	Jack-Open Supported Gable	1	1	T27911848

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:26 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-4agco46mfJQZ0zfFdJ2njK?pI72LqLQjF2jk08z9zmt

-1-4-0 5-2-15

1-4-0 5-2-15

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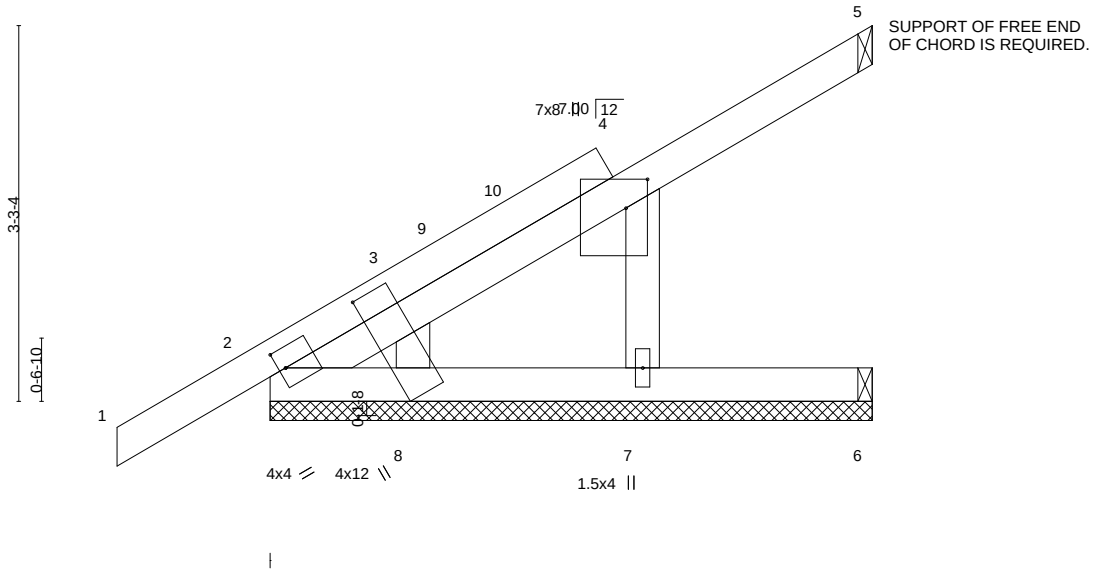


Plate Offsets (X,Y)-- [2:0-0-11,0-2-0], [4:0-3-0,0-2-4], [8:0-2-6,0-9-8]

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	0.11	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

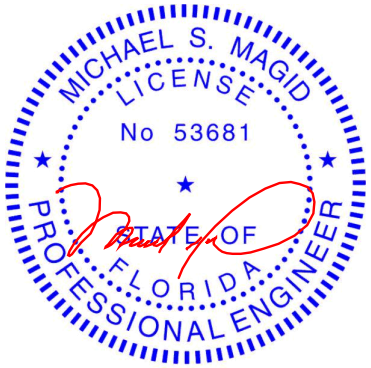
REACTIONS. All bearings 5-2-15.

(lb) - Max Horz 2=91(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 6, 7, 8

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 5-2-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 7.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J12	Jack-Open	15	1	T27911849
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:27 2022 Page 1
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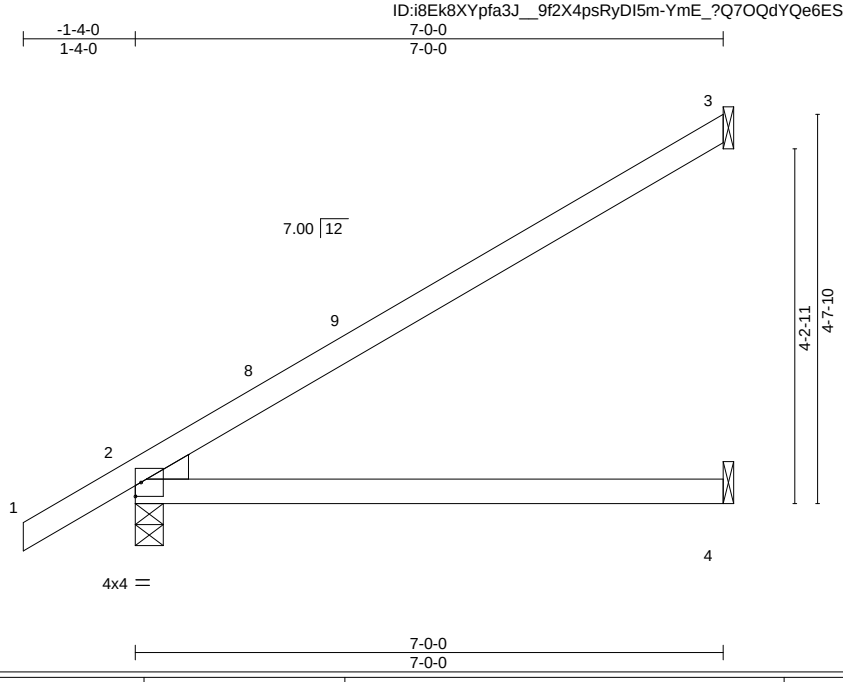


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.09	4-7	>897	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>381	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 26 lb	FT = 20%

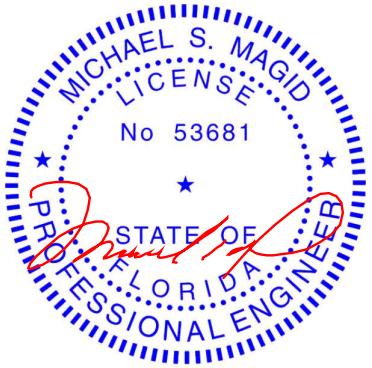
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=125(LC 12)
Max Uplift 3=-55(LC 12), 2=-5(LC 12)
Max Grav 3=189(LC 1), 2=365(LC 1), 4=126(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J13	Jack-Open	6	1	T27911850

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:28 2022 Page 1
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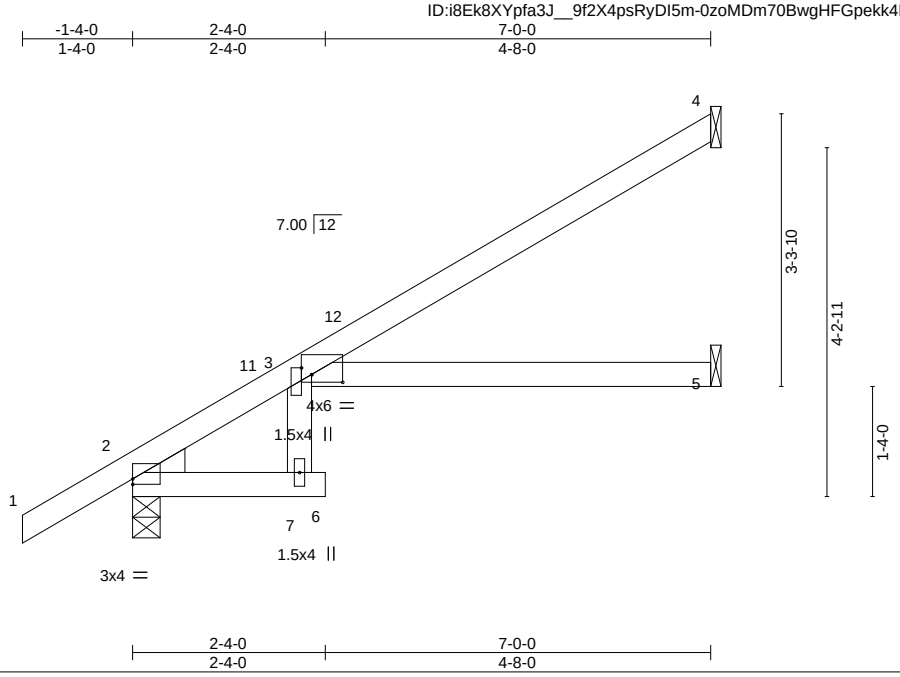


Plate Offsets (X,Y)-- [2:0-0-0,0-0-13], [3:0-4-8,0-1-2], [3:0-1-0,0-1-8]

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	0.74	Vert(LL)	-0.13	6	>629	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.28	3-5	>300	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.17	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 28 lb	FT = 20%

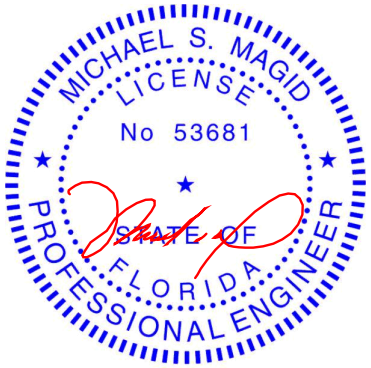
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=125(LC 12)
Max Uplift 4=-43(LC 12), 2=-2(LC 12)
Max Grav 4=174(LC 1), 2=369(LC 1), 5=122(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	J14	Jack-Open	1	1	T27911851
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:29 2022 Page 1
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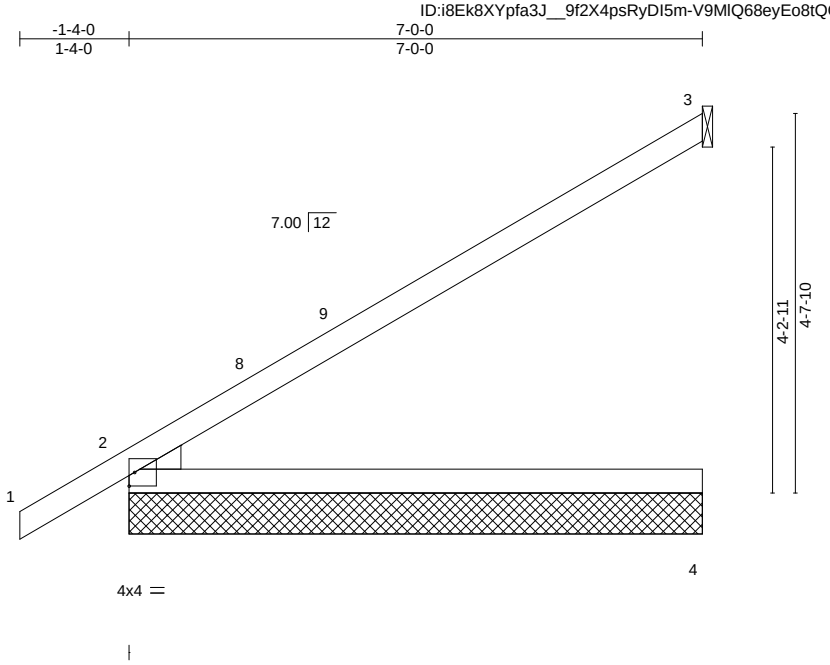


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.10	4-7	>867	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.23	4-7	>369	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 26 lb	FT = 20%

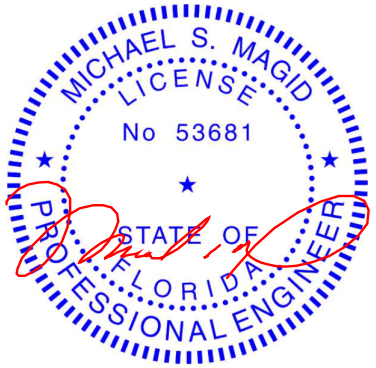
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. All bearings 7-0-0 except (jt=length) 3=Mechanical, 3=Mechanical.
(lb) - Max Horz 2=125(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 3, 2
Max Grav All reactions 250 lb or less at joint(s) 3, 3, 4 except 2=366(LC 1), 2=366(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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, 2, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	M01	GABLE	1	1	T27911852
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:30 2022 Page 1
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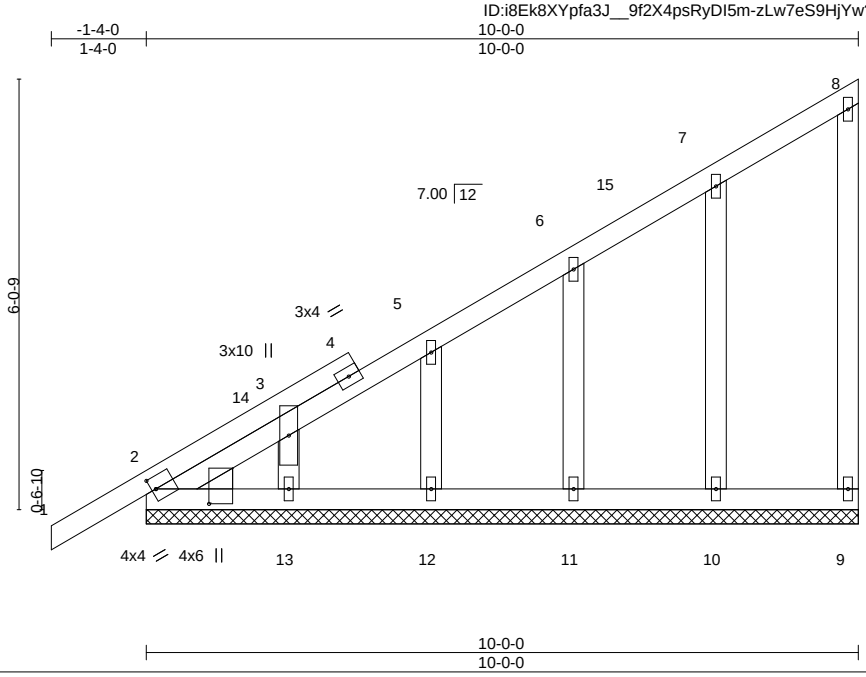


Plate Offsets (X,Y)-- [2:0-0-11,0-2-0], [2:0-2-8,0-8-15]

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	0.20	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 63 lb	FT = 20%

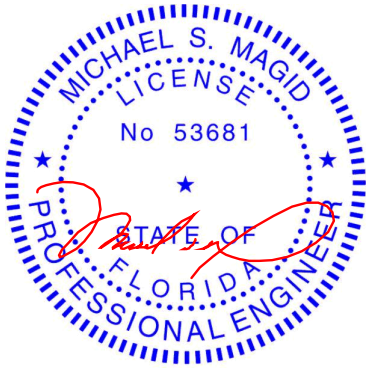
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. All bearings 10-0-0.
(lb) - Max Horz 2=178(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 9, 10, 11, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 9, 10, 11, 12, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-327/207, 3-5=-282/193

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 9-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9, 10, 11, 12.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

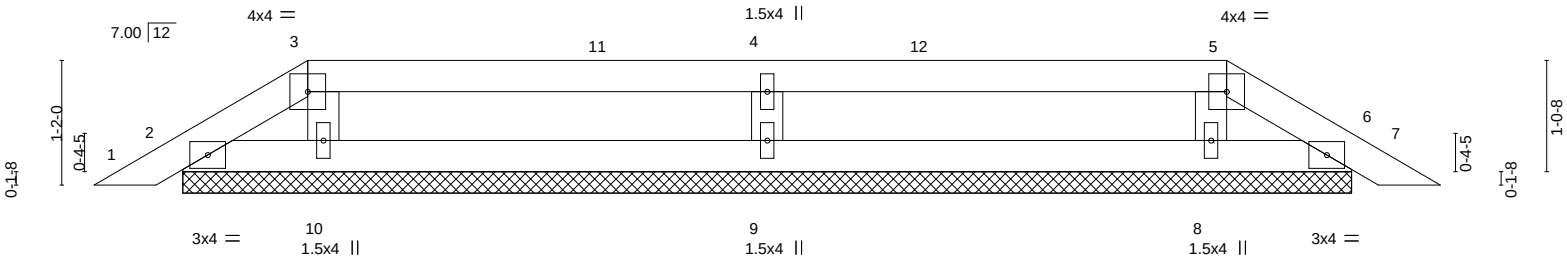
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB01	Piggyback	1	1	T27911853
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:31 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-RXUVroAvUr2s6kYDPseyQNieD8j2VcfSOKQVhMz9zmo

12-6-14
12-6-14

Scale = 1:21.5



12-6-14
12-6-14

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	0.23	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 38 lb	FT = 20%

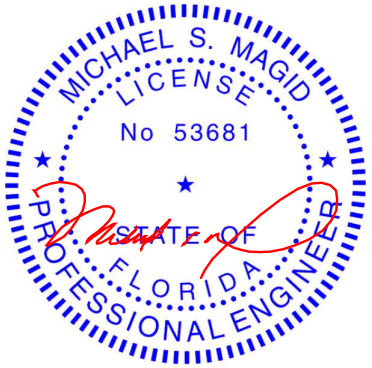
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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. All bearings 10-11-0.
(lb) - Max Horz 2=-17(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=386(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-298/91

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 1-11-15, Exterior(2R) 1-11-15 to 6-3-7, Interior(1) 6-3-7 to 10-6-15, Exterior(2E) 10-6-15 to 12-3-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

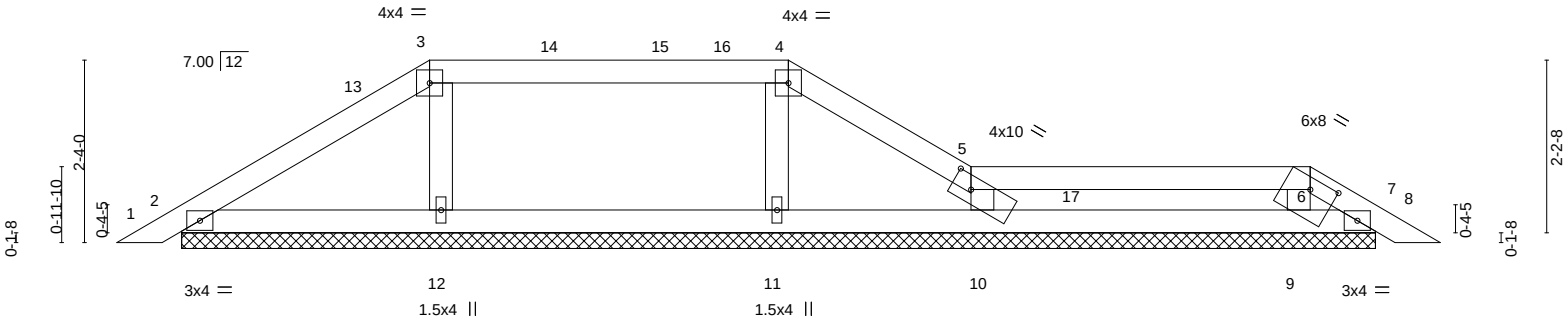
June 4,2022

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB02	Piggyback	1	1	T27911854
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:32 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-vk1t27BXF9Ajku6Pza9BzbEpdY4IE3zbd_A3Doz9zmn

16-10-14
16-10-14

Scale = 1:29.4



16-10-14
16-10-14

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 56 lb	FT = 20%

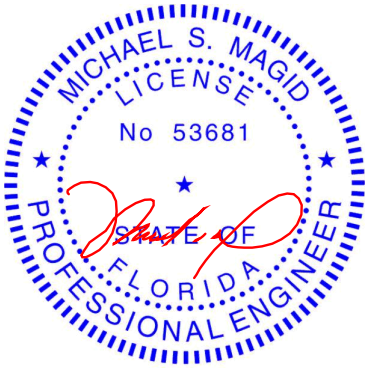
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.

REACTIONS. All bearings 15-3-0.
(lb) - Max Horz 2=38(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 7, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 12=324(LC 21), 11=262(LC 22), 10=278(LC 1), 9=273(LC 22)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 3-11-15, Exterior(2R) 3-11-15 to 6-11-15, Interior(1) 6-11-15 to 8-6-15, Exterior(2E) 8-6-15 to 10-10-15, Interior(1) 10-10-15 to 15-2-15, Exterior(2E) 15-2-15 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7, 10.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB03	Piggyback	1	1	T27911855

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:33 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-NwbFGTB90TlaM1hbXHgQVonymyOmzW?lsdvcmEz9zmm

5-11-15 / 5-11-15 | 6-6-15 / 0-7-0 | 16-10-14 / 10-3-15

Scale = 1:29.5

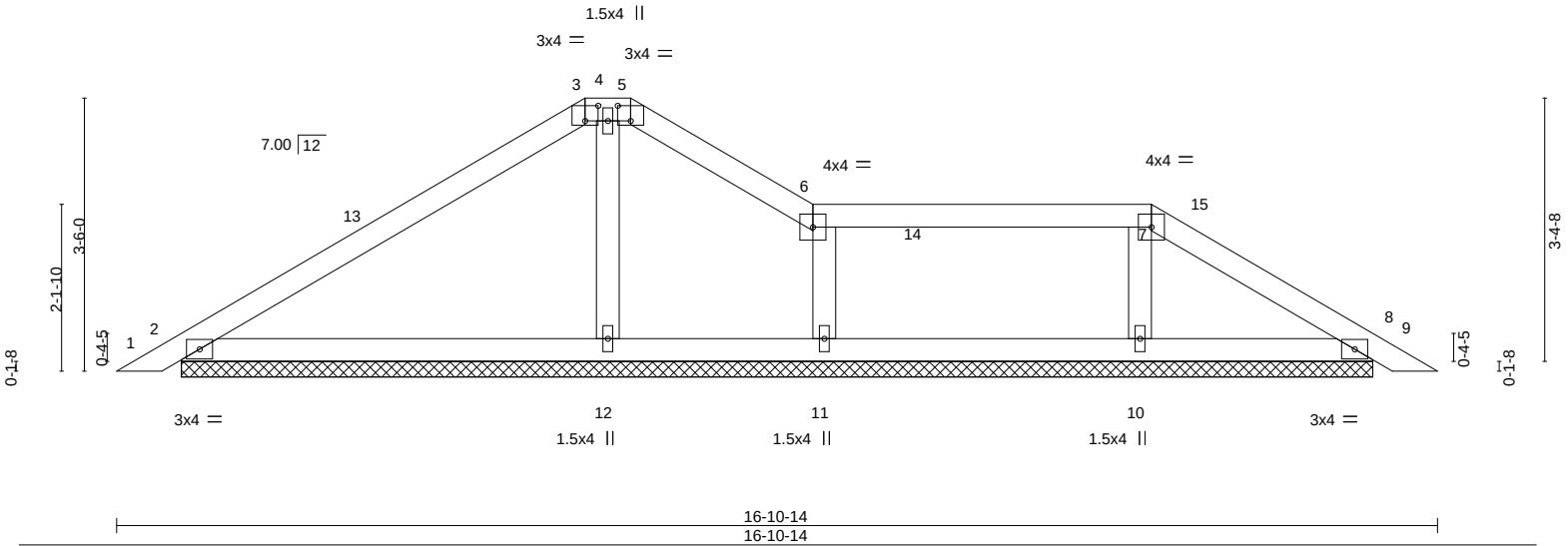


Plate Offsets (X,Y)-- [3:0-2-0,0-2-5], [5:0-2-0,0-2-5]

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	0.36	Vert(LL)	0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 59 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. All bearings 15-3-0.

(lb) - Max Horz 2=-58(LC 10)

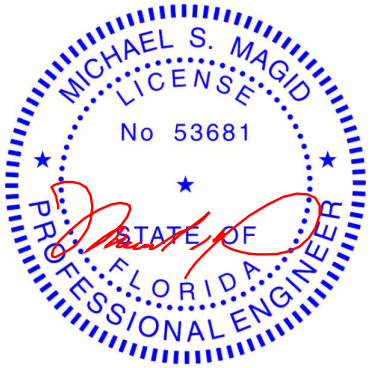
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11

Max Grav All reactions 250 lb or less at joint(s) 2, 8 except 12=348(LC 1), 11=270(LC 22), 10=302(LC 22)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 5-11-15, Exterior(2E) 5-11-15 to 8-10-15, Interior(1) 8-10-15 to 13-2-15, Exterior(2R) 13-2-15 to 16-0-15, Interior(1) 16-0-15 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 11.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB04	Piggyback	1	1	T27911856

Job Reference (optional)

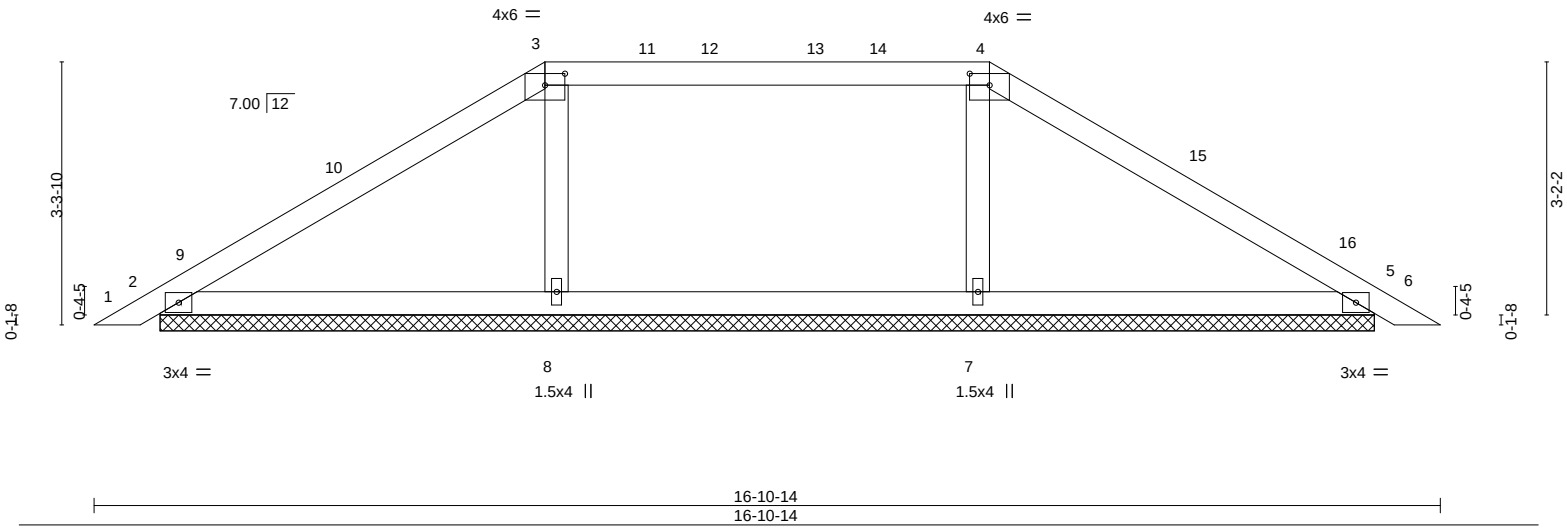
Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:34 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-r69dTpCnnmQRzBGo5?Bf20K7OMkViz4u5HfAlhz9zml

16-10-14

16-10-14

Scale = 1:28.9



16-10-14

16-10-14

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	0.01	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	0.02	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 58 lb	FT = 20%

LUMBER-

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

BRACING-

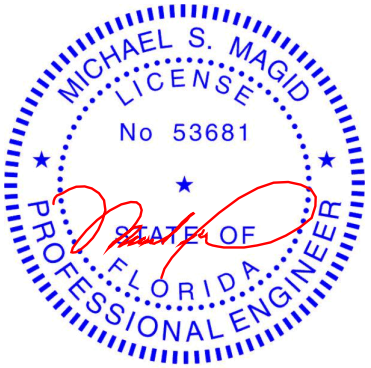
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-3-0.
(lb) - Max Horz 2=-55(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5
Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=435(LC 21), 7=435(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-310/80, 4-7=-310/79

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 5-7-15, Exterior(2R) 5-7-15 to 9-10-14, Interior(1) 9-10-14 to 11-2-15, Exterior(2R) 11-2-15 to 15-5-14, Interior(1) 15-5-14 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

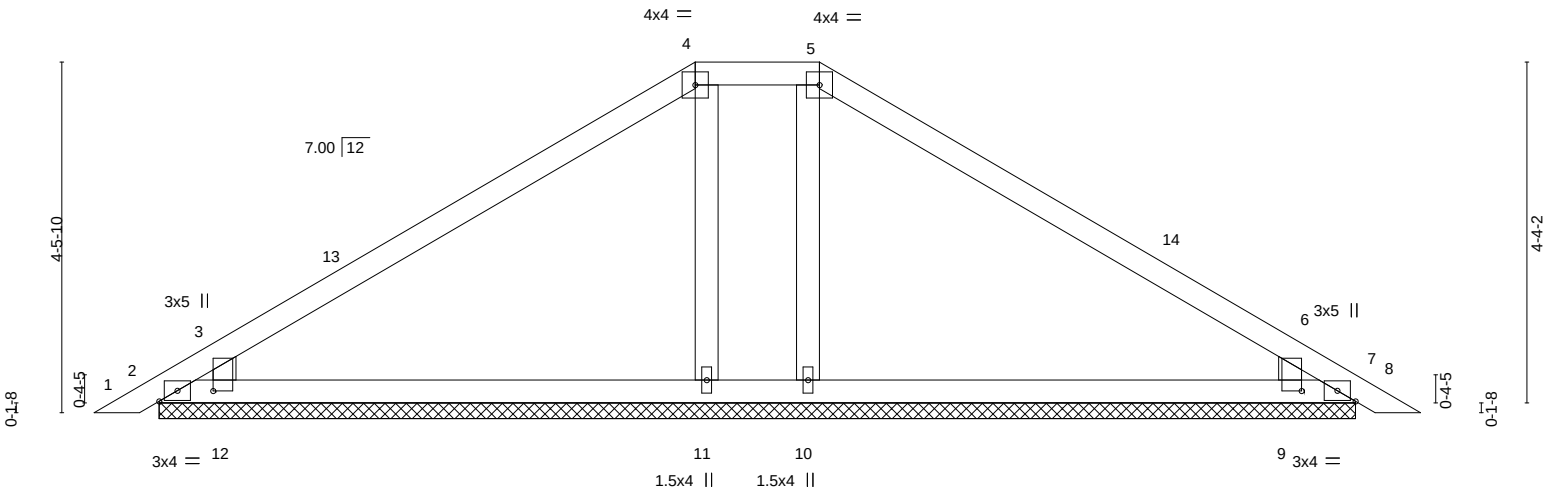
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB05	Piggyback	1	1	T27911857
					Job Reference (optional)

Mayo Truss, Mayo, Fl — 8.530 s Feb 23 2022 MiTek Industries, Inc. Fri Jun 3 16:05:14 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-gh5267FO475zrl9xkGe8nmIzHC89foBTFzY64dz9yc3

16-10-14
16-10-14

Scale = 1:29.4



16-10-14
16-10-14

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

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	0.41	Vert(LL)	-0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 63 lb	FT = 20%

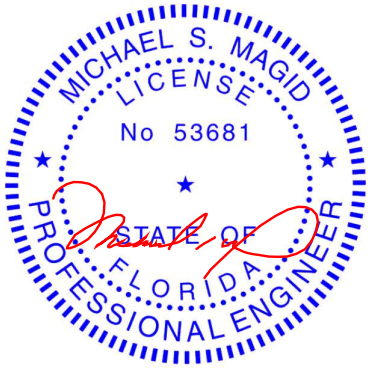
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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. All bearings 15-3-0.
(lb) - Max Horz 2=75(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12, 9 except 2=-248(LC 17), 7=-235(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 11=300(LC 21), 10=300(LC 22), 12=602(LC 1), 9=602(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-495/230, 6-9=-495/227

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 7-7-15, Exterior(2E) 7-7-15 to 9-2-15, Exterior(2R) 9-2-15 to 13-5-14, Interior(1) 13-5-14 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 9 except (jt=lb) 2=248, 7=235.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB06	Piggyback	3	1	T27911858
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:36 2022 Page 1
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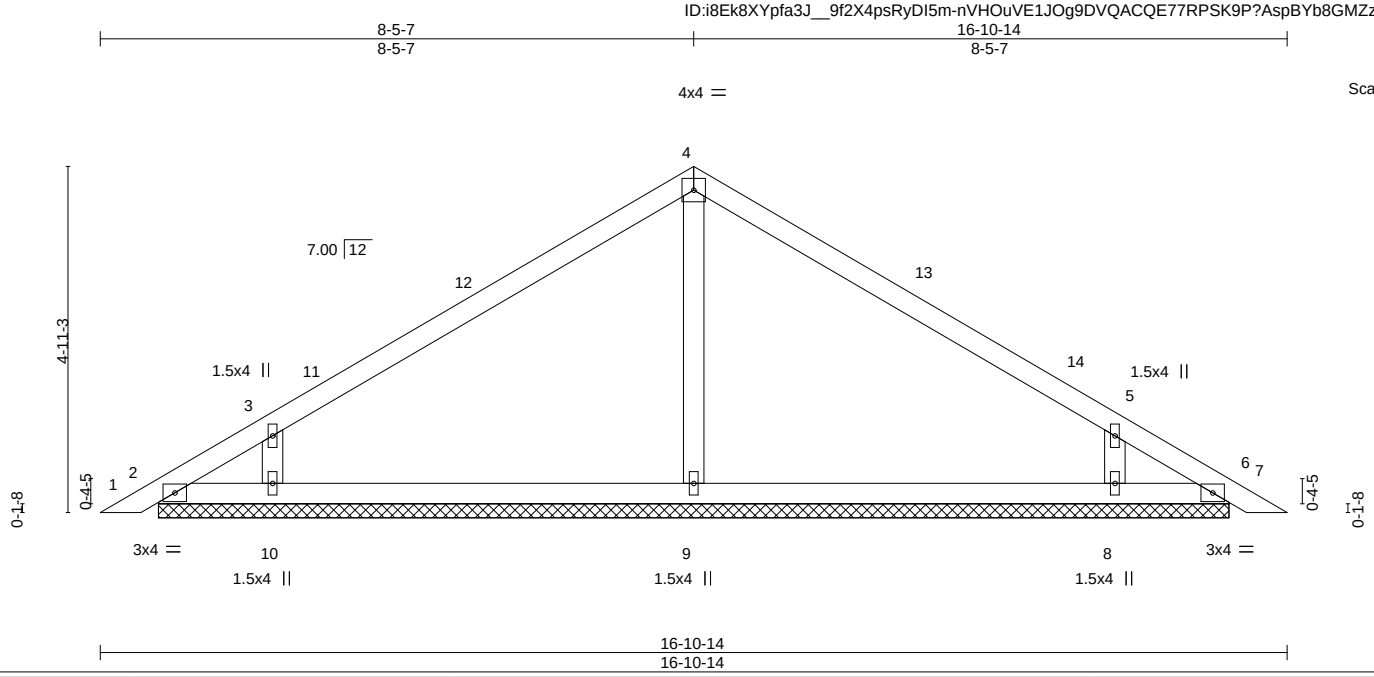


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 60 lb	FT = 20%

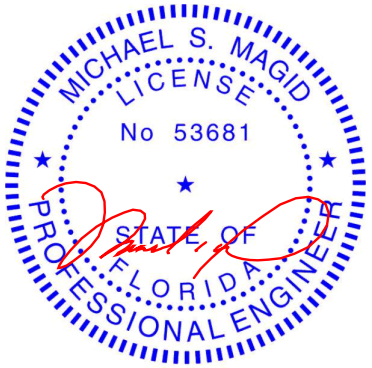
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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 15-3-0.
(lb) - Max Horz 2=-83(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=414(LC 1), 10=458(LC 21), 8=458(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-285/34, 3-10=-377/164, 5-8=-377/164

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 8-5-7, Exterior(2R) 8-5-7 to 11-5-7, Interior(1) 11-5-7 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB07	Piggyback	1	1	T27911859
					Job Reference (optional)

Mayo Truss, Mayo, Fl — 8.530 s Feb 23 2022 MiTek Industries, Inc. Fri Jun 3 16:07:04 2022 Page 1
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16-10-14
16-10-14

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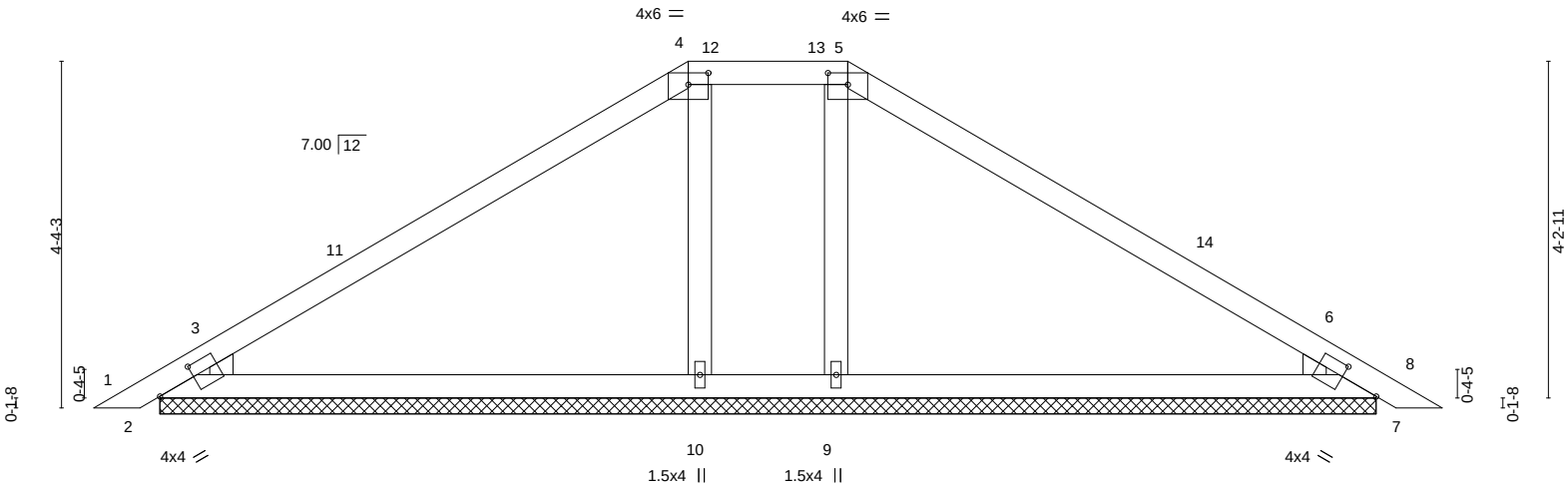


16-10-14
16-10-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	0.02	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	0.04	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 63 lb	FT = 20%

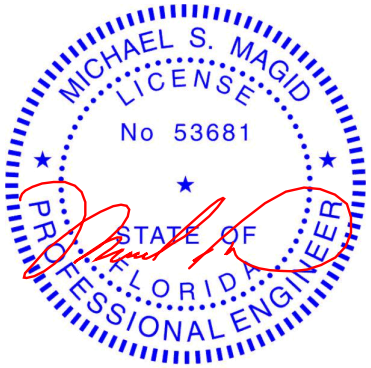
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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. All bearings 15-3-0.
(lb) - Max Horz 2=-73(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 7
Max Grav All reactions 250 lb or less at joint(s) except 2=277(LC 1), 7=277(LC 1), 10=434(LC 21), 9=434(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-300/74, 5-9=-300/70

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 7-5-7, Exterior(2E) 7-5-7 to 9-5-7, Exterior(2R) 9-5-7 to 13-8-6, Interior(1) 13-8-6 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Michael S. Magid PE No.53681
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB08	Piggyback	1	1	T27911860

Job Reference (optional)

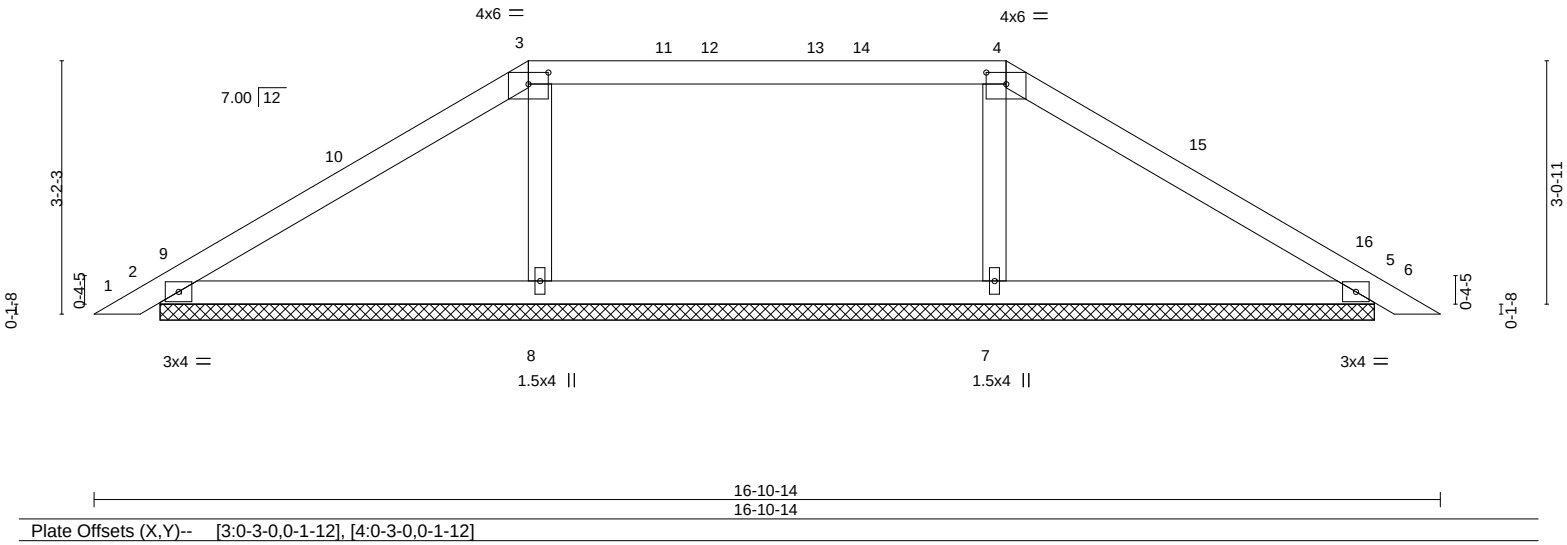
Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:38 2022 Page 1

ID:i8Ek8XYpfa3J__9f2X4psRyDI5m-kuP8JBFIq?wtSpaZKqGbCsUoGz5Fen5U0vdNRSz9zmh

5-5-7 16-10-14

5-5-7 11-5-7

Scale = 1:28.9



16-10-14

16-10-14

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.01	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	0.01	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 58 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-3-0.

(lb) - Max Horz 2=52(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 5

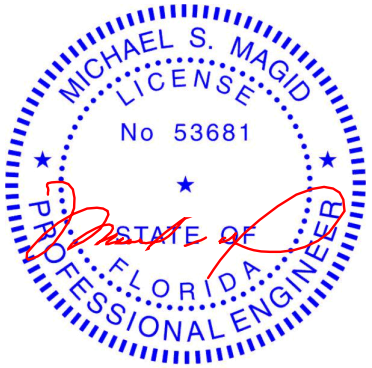
Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=444(LC 21), 7=444(LC 22)

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

WEBS 3-8=-318/81, 4-7=-318/79

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 5-5-7, Exterior(2R) 5-5-7 to 9-8-6, Interior(1) 9-8-6 to 11-5-7, Exterior(2R) 11-5-7 to 15-8-6, Interior(1) 15-8-6 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2022

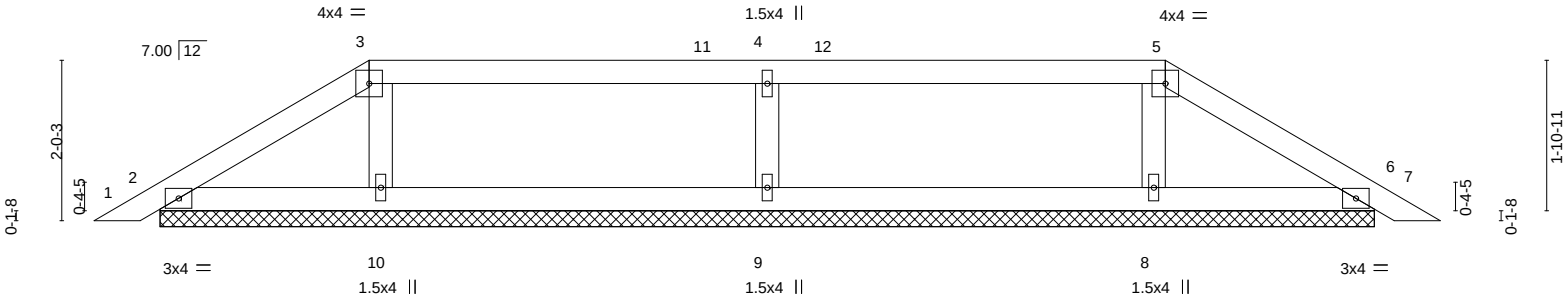
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	PAYNE
WESTON_OAKS_LOT_53	PB09	Piggyback	1	1	T27911861
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jun 3 13:45:39 2022 Page 1
ID:i8Ek8XYpfa3J__9f2X4psRyDl5m-C4yWWXGwbJ2j4y9ltYnql31_tNSCNDWdEZMwzuz9zmg

3-5-7 / 3-5-7 — 16-10-14 / 13-5-7

Scale = 1:28.9



16-10-14 / 16-10-14

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%

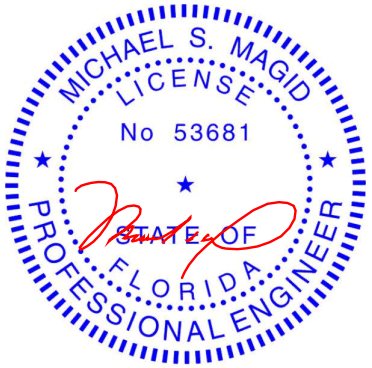
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 15-3-0.
(lb) - Max Horz 2=-32(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=451(LC 21), 10=291(LC 1), 8=291(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-349/80

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-5-7, Exterior(2R) 3-5-7 to 7-8-6, Interior(1) 7-8-6 to 13-5-7, Exterior(2E) 13-5-7 to 16-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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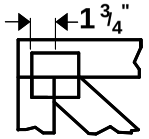
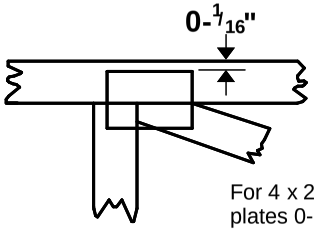
Symbols

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.

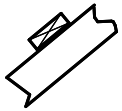
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

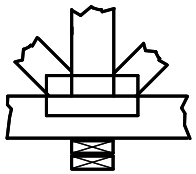
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

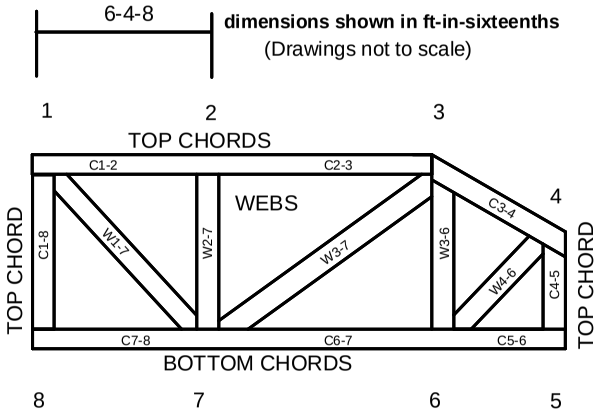


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.