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

RE: Brian_Papka -

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Brian Papka Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FL

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

Name: License #:
Address:
City: State:

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

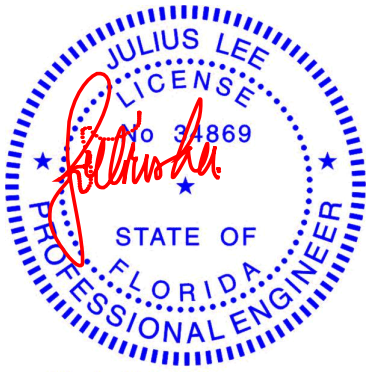
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

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	T22646423	A1GE	1/29/21	23	T22646445	D1GE	1/29/21
2	T22646424	A2	1/29/21	24	T22646446	D2	1/29/21
3	T22646425	A3	1/29/21	25	T22646447	D3	1/29/21
4	T22646426	A4	1/29/21	26	T22646448	D4	1/29/21
5	T22646427	A5GIR	1/29/21	27	T22646449	D5	1/29/21
6	T22646428	A6GIR	1/29/21	28	T22646450	D6	1/29/21
7	T22646429	A7	1/29/21	29	T22646451	D7GIR	1/29/21
8	T22646430	A8	1/29/21	30	T22646452	E1GE	1/29/21
9	T22646431	A9GIR	1/29/21	31	T22646453	E2	1/29/21
10	T22646432	A10	1/29/21	32	T22646454	F1GE	1/29/21
11	T22646433	A11GIR	1/29/21	33	T22646455	F2	1/29/21
12	T22646434	A12	1/29/21	34	T22646456	GIR1	1/29/21
13	T22646435	A13	1/29/21	35	T22646457	GIR2	1/29/21
14	T22646436	A14GE	1/29/21	36	T22646458	GIR3	1/29/21
15	T22646437	B1GE	1/29/21	37	T22646459	J01	1/29/21
16	T22646438	B2	1/29/21	38	T22646460	J02	1/29/21
17	T22646439	B3	1/29/21	39	T22646461	K1	1/29/21
18	T22646440	B4	1/29/21	40	T22646462	K2	1/29/21
19	T22646441	B5	1/29/21	41	T22646463	K3	1/29/21
20	T22646442	C1GE	1/29/21	42	T22646464	M01	1/29/21
21	T22646443	C2	1/29/21	43	T22646465	M04	1/29/21
22	T22646444	C3GIR	1/29/21	44	T22646466	PB01	1/29/21

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: Lee, Julius
My license renewal date for the state of Florida is February 28, 2021.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

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.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

RE: Brian_Papka -

Site Information:

Customer Info: Brian Papka Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FL

No.	Seal#	Truss Name	Date
45	T22646467	PB01GE	1/29/21
46	T22646468	PB02	1/29/21
47	T22646469	PB03	1/29/21
48	T22646470	PB04	1/29/21
49	T22646471	PB05	1/29/21
50	T22646472	PB06	1/29/21
51	T22646473	PB07	1/29/21
52	T22646474	PB08	1/29/21
53	T22646475	PB09	1/29/21
54	T22646476	PB10	1/29/21
55	T22646477	PB11GE	1/29/21
56	T22646478	PB12	1/29/21
57	T22646479	PB13GE	1/29/21
58	T22646480	PB14	1/29/21
59	T22646481	PB15	1/29/21

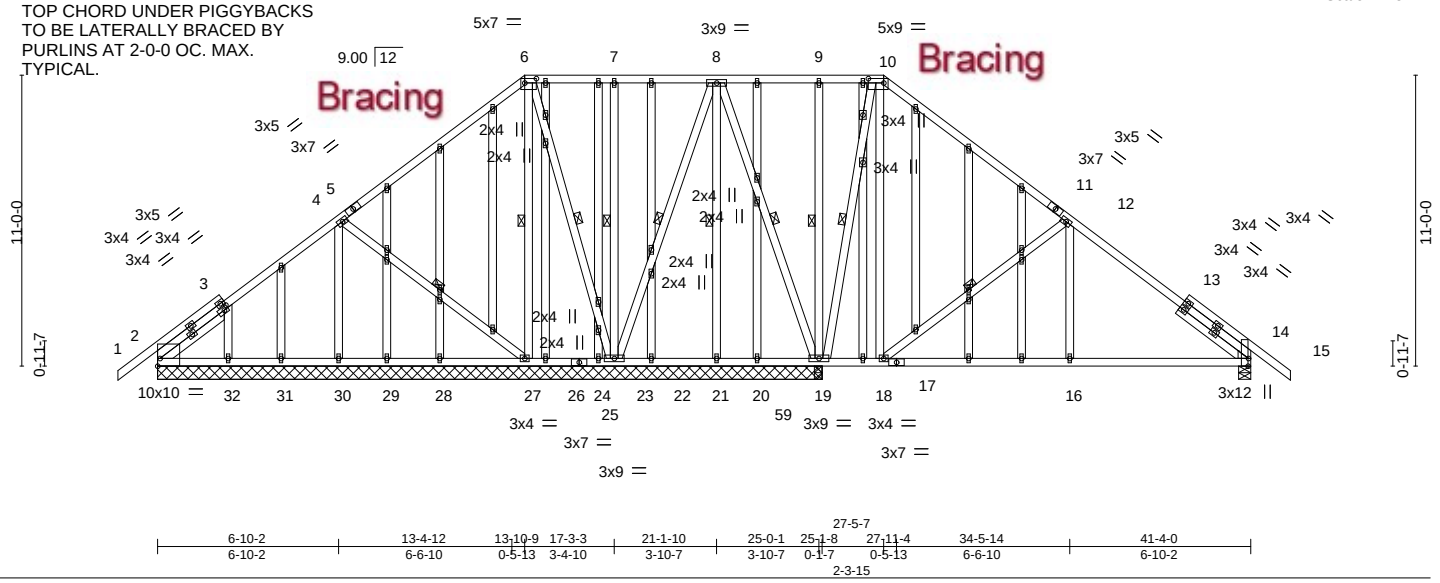
Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A1GE	Piggyback Base Structural Gable Gable	1	1	T22646423
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:37 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-KZ_69dJ1XHP?BS1qDi2XQyuRGPcCYOUSjxFOwQzqnuW

1-6-0 6-10-2 13-10-9 17-3-3 21-1-10 25-0-1 27-5-7 34-5-14 41-4-0
1-6-0 6-10-2 7-0-7 3-4-10 3-10-7 3-10-7 2-5-6 7-0-7 6-10-2

Scale = 1:87.1

TOP CHORD UNDER PIGGYBACKS TO BE LATERALLY BRACED BY PURLINS AT 2-0-0 OC. MAX. TYPICAL.



6-10-2 13-4-12 13-10-9 17-3-3 21-1-10 25-0-1 25-1-8 27-11-4 34-5-14 41-4-0
6-10-2 6-6-10 0-5-13 3-4-10 3-10-7 3-10-7 0-1-7 0-5-13 6-6-10 6-10-2
27-5-7
2-3-15

Plate Offsets (X,Y)-- [2:Edge,0-3-8], [3:0-1-15,0-1-8], [6:0-5-4,0-2-0], [10:0-7-0,0-2-0], [14:0-3-8,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.05	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.11	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 495 lb	FT = 20%

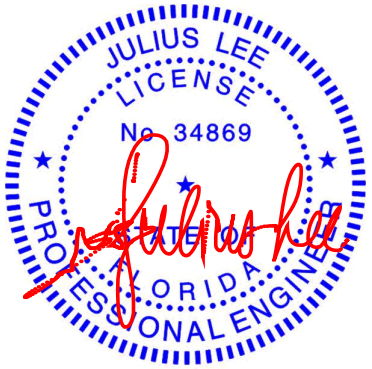
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-27, 6-27, 6-23, 7-23, 8-23, 8-21, 8-19, 9-19, 10-19, 12-18

REACTIONS. All bearings 25-1-8 except (jt=length) 14=0-5-8.
(lb) - Max Horz 2=-344(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 21, 32 except 30=-169(LC 12), 23=-143(LC 12), 19=-139(LC 12), 14=-156(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 24, 26, 28, 29, 31, 32, 20 except 30=572(LC 17), 27=360(LC 17), 23=418(LC 21), 19=1078(LC 18), 19=946(LC 1), 14=816(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-210/306, 12-14=-785/138
BOT CHORD 16-18=0/539, 14-16=0/543
WEBS 4-30=-489/190, 10-19=-848/96, 10-18=-43/595, 12-18=-689/205, 12-16=0/288

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=41ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 21, 32 except (jt=lb) 30=169, 23=143, 19=139, 14=156.
11) 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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

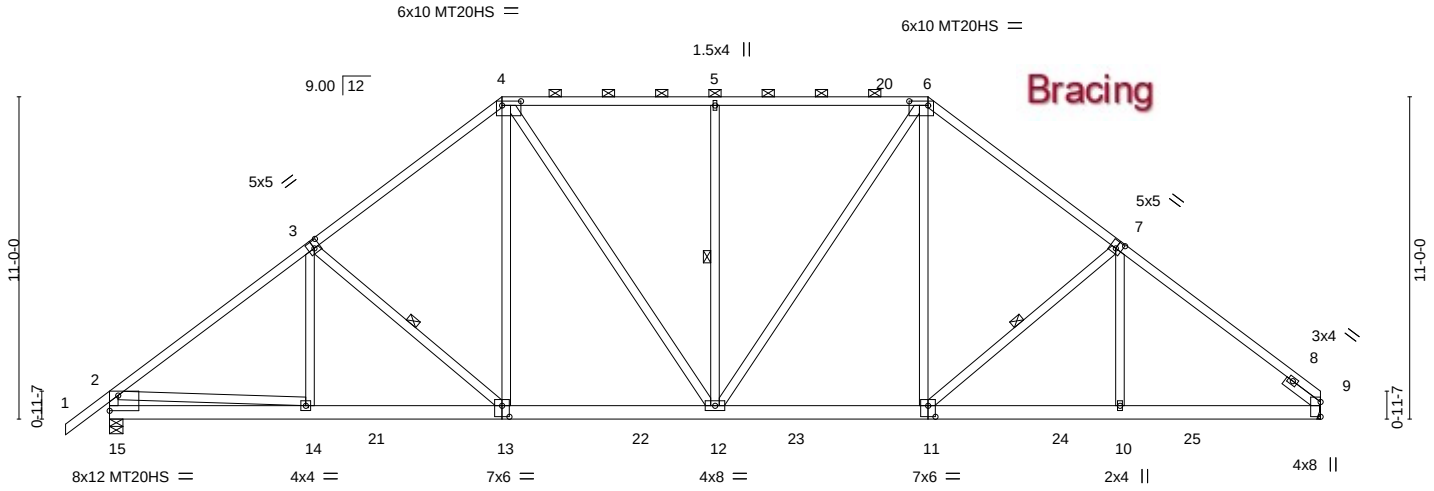
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A2	Piggyback Base	7	1	T22646424
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:38 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-olXUNyKgHaXspcc0nQZmy9RXSptjHu?byb_xTszqnuV

1-6-0	6-10-2	13-4-12	20-8-0	27-11-4	34-5-14	41-4-0
1-6-0	6-10-2	6-6-10	7-3-4	7-3-4	6-6-10	6-10-2

Scale = 1:78.6



6-10-2	13-4-12	20-8-0	27-11-4	34-5-14	41-4-0
6-10-2	6-6-10	7-3-4	7-3-4	6-6-10	6-10-2

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [4:0-7-12,0-1-12], [6:0-7-12,0-1-12], [7:0-2-8,0-3-0], [11:0-3-0,0-4-8], [13:0-3-0,0-4-8], [15:Edge,0-6-4]

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	0.74	Vert(LL)	-0.13	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.22	11-12	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 307 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-13 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-13, 5-12, 7-11

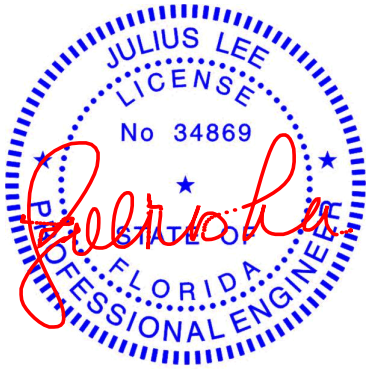
REACTIONS. (size) 15=0-5-8, 9=Mechanical
Max Horz 15=-343(LC 10)
Max Uplift 15=-305(LC 12), 9=-234(LC 12)
Max Grav 15=2062(LC 17), 9=1989(LC 18)

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

TOP CHORD	2-3=-2572/341, 3-4=-2217/408, 4-5=-1910/417, 5-6=-1910/417, 6-7=-2240/411, 7-9=-2622/360, 2-15=-1928/340
BOT CHORD	14-15=-221/815, 13-14=-163/2170, 12-13=-30/1811, 11-12=-33/1719, 10-11=-176/1979, 9-10=-175/1980
WEBS	3-13=-478/177, 4-13=-38/628, 4-12=-69/537, 5-12=-480/174, 6-12=-64/499, 6-11=-42/665, 7-11=-502/190, 2-14=-41/1399

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=41ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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, with BCDL = 10.0psf.
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) 15=305, 9=234.
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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

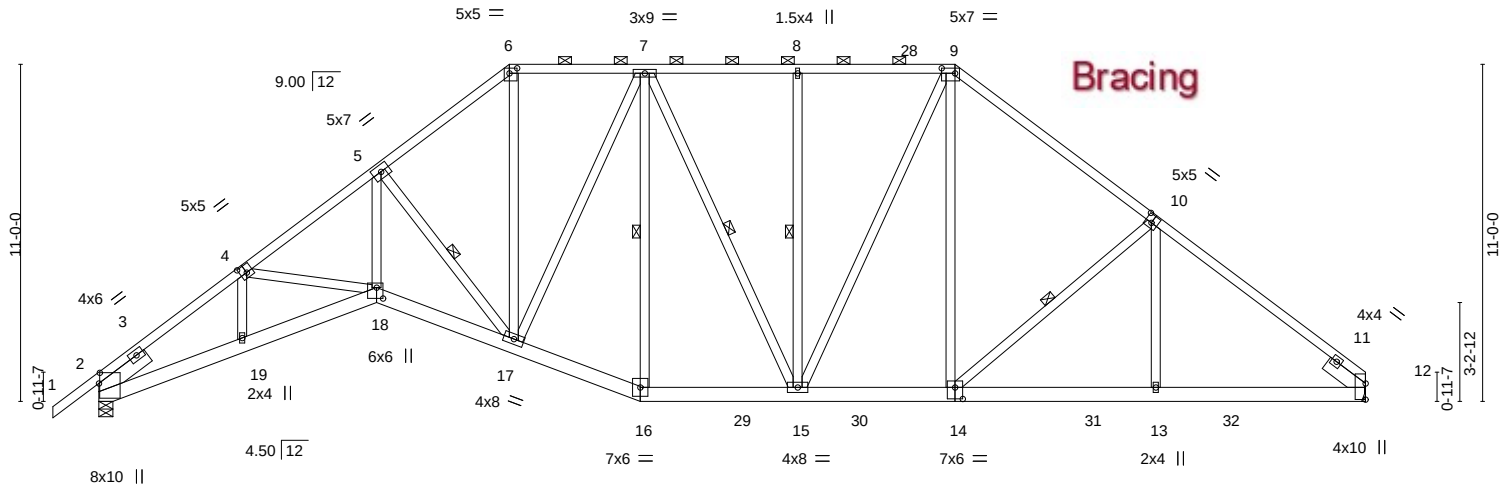
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A3	Piggyback Base	3	1	T22646425
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:39 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-Gx5saIKI2ufjRmBCL74?VNzfgCEl0GdlBFkU?IzqnuU

1-6-0	4-8-2	9-0-12	13-4-12	17-8-0	22-9-10	27-11-4	34-5-14	41-4-0
1-6-0	4-8-2	4-4-10	4-4-0	4-3-4	5-1-10	5-1-10	6-6-10	6-10-2

Scale = 1:75.2



4-8-2	9-0-12	13-4-12	17-8-0	22-9-10	27-11-4	34-5-14	41-4-0
4-8-2	4-4-10	4-4-0	4-3-4	5-1-10	5-1-10	6-6-10	6-10-2

Plate Offsets (X,Y)-- [2:0-4-3,0-0-5], [4:0-2-8,0-3-0], [6:0-3-0,0-2-0], [9:0-5-4,0-2-0], [10:0-2-8,0-3-0], [12:0-6-5,0-0-1], [14:0-3-0,0-4-8], [18:0-4-4,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.23	18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.43	18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.28	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 335 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 2-18: 2x6 SP SS
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 2-0-0, Right 2x6 SP No.2 -t 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-1-14 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-17, 7-16, 7-15, 8-15, 10-14

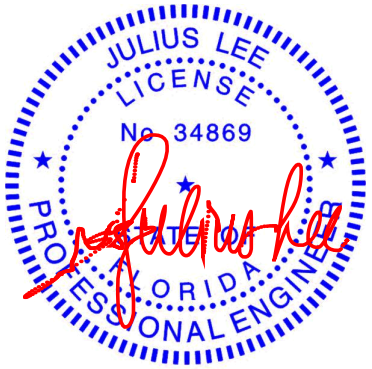
REACTIONS. (size) 2=0-5-8, 12=Mechanical
Max Horz 2=331(LC 11)
Max Uplift 2=-300(LC 12), 12=-235(LC 12)
Max Grav 2=2008(LC 17), 12=1973(LC 18)

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

TOP CHORD	2-4=-4005/469, 4-5=-4331/506, 5-6=-2508/439, 6-7=-1984/394, 7-8=-1858/414, 8-9=-1858/414, 9-10=-2208/413, 10-12=-2602/363
BOT CHORD	2-19=-302/3405, 18-19=-320/3601, 17-18=-236/3863, 16-17=-68/2086, 15-16=-57/1934, 14-15=-34/1693, 13-14=-177/1963, 12-13=-176/1965
WEBS	4-19=-395/92, 4-18=0/370, 5-18=-158/2778, 5-17=-2527/291, 6-17=-160/1233, 7-17=-93/354, 7-16=-532/72, 8-15=-319/110, 9-15=-59/525, 9-14=-54/628, 10-14=-518/190

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=41ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=300, 12=235.
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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A4	Piggyback Base	4	1	T22646426
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:40 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-k8fEneLwpCna2wmPurcE2aWpIcY6ll_uPvT2XkzqnuT

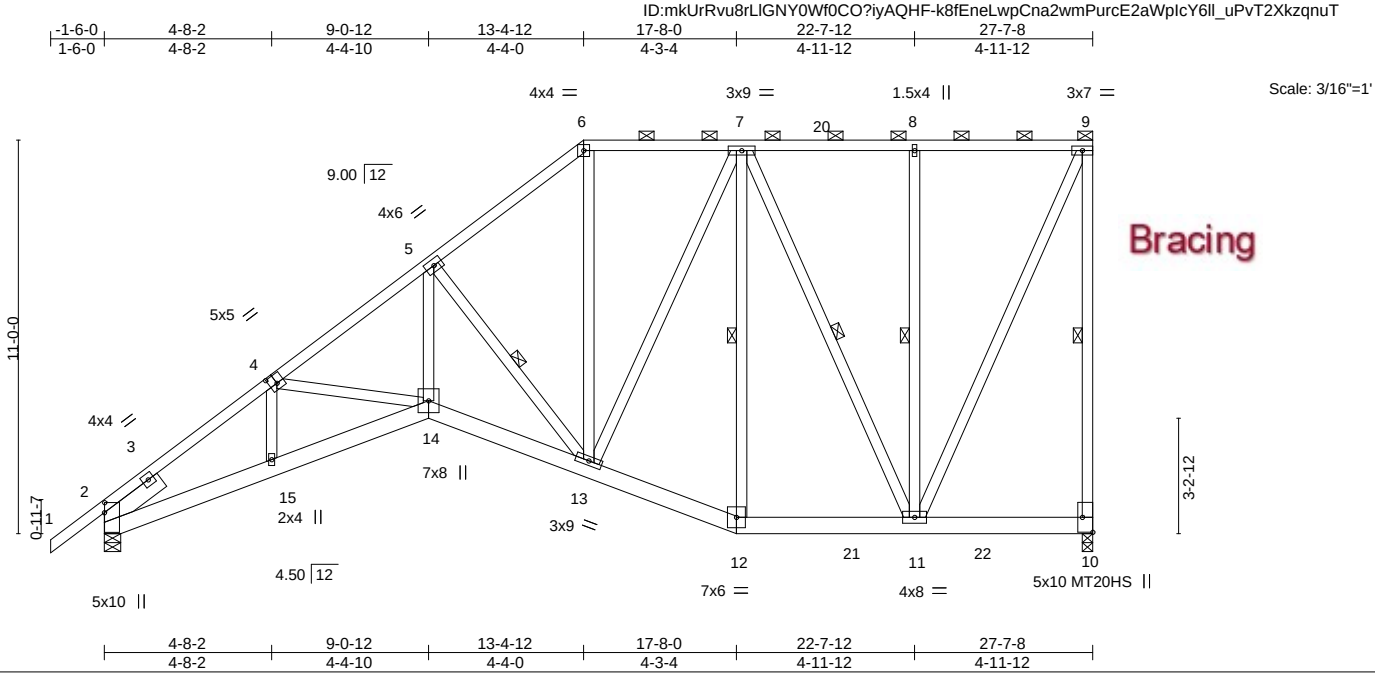


Plate Offsets (X,Y)-- [2:0-3-6,0-0-1], [4:0-2-8,0-3-0], [10:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.12	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.23	14-15	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.15	10	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	2x6 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 2-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-9-8 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 9-10, 5-13, 7-12, 7-11, 8-11

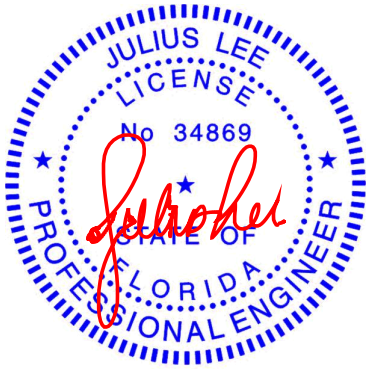
REACTIONS. (size) 10=0-3-8, 2=0-5-8
Max Horz 2=488(LC 11)
Max Uplift 10=-224(LC 9), 2=-208(LC 12)
Max Grav 10=1331(LC 17), 2=1361(LC 17)

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

TOP CHORD	2-4=-2579/308, 4-5=-2553/359, 5-6=-1316/280, 6-7=-1020/266, 7-8=-562/221, 8-9=-562/221, 9-10=-1211/246
BOT CHORD	2-15=-681/2243, 14-15=-693/2349, 13-14=-652/2314, 12-13=-273/924, 11-12=-252/841
WEBS	5-14=-420/1820, 5-13=-1741/442, 6-13=-66/518, 7-13=-191/596, 7-11=-701/155, 8-11=-316/164, 9-11=-200/1224

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=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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, with BCDL = 10.0psf.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=224, 2=208.
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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



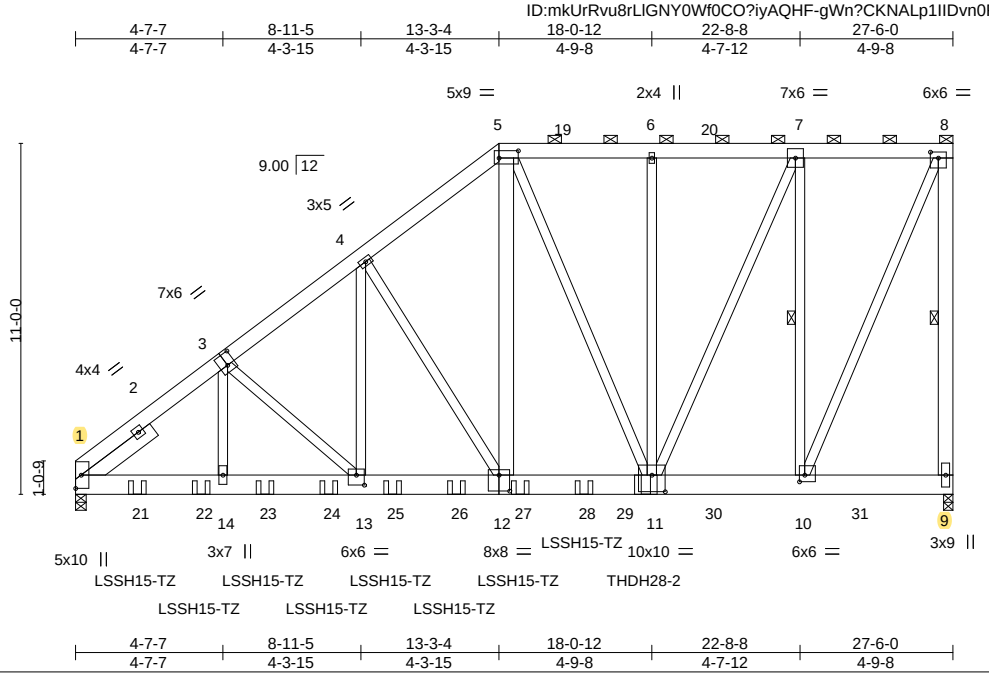
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646427
BRIAN_PAPKA	A5GIR	Piggyback Base Girder	1	2	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:42 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-gWn?CKNALp1IIDvn0Fei7?bH9QMfDXaBtDy9cdzqnuR



Scale = 1:72.2

Bracing

Plate Offsets (X,Y)-- [3:0-3-0,0-4-8], [5:0-7-4,0-2-12], [8:0-3-0,0-2-4], [10:0-2-0,0-2-8], [11:0-5-0,0-6-4], [12:0-4-0,0-6-0], [13:0-3-0,0-3-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.12	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.24	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 645 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 8-9,5-12: 2x6 SP No.2, 6-11,7-10: 2x4 SP No.1
SLIDER	Left 2x6 SP No.2 -t 2-8-4

BRACING-

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

REACTIONS. (size) 9=0-3-8, 1=0-4-0
Max Horz 1=350(LC 8)
Max Uplift 9=-1369(LC 8), 1=-1215(LC 8)
Max Grav 9=6721(LC 2), 1=6917(LC 1)

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

TOP CHORD	1-3=-8795/1598, 3-4=-8068/1549, 4-5=-6876/1451, 5-6=-5463/1151, 6-7=-5463/1151, 7-8=-2849/586, 8-9=-6622/1387
BOT CHORD	1-14=-1516/6799, 13-14=-1516/6797, 12-13=-1412/6455, 11-12=-1196/5404, 10-11=-586/2849
WEBS	3-14=-105/918, 3-13=-463/140, 4-13=-287/2079, 4-12=-2033/418, 5-12=-860/3893, 5-11=-229/394, 6-11=-253/143, 7-11=-1393/6445, 7-10=-6094/1381, 8-10=-1451/7057

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: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-11 2x4 - 1 row at 0-6-0 oc, 2x6 - 2 rows staggered 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=28ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left 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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1369, 1=1215.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

11) Use USP LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 15-11-4 to connect truss(es) to front face of bottom chord.
12) Use USP THDH28-2 (With 36-16d nails into Girder & 10-16d nails into Truss) or equivalent at 17-10-8 from the left end to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

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, 9-15=-20
   Concentrated Loads (lb)
   Vert: 11=-5348(F) 21=-743(F) 22=-743(F) 23=-743(F) 24=-743(F) 25=-743(F) 26=-743(F) 27=-737(F) 28=-737(F)

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A6GIR	Piggyback Base Girder	1	1	T22646428

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:44 2021 Page 1

ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-cvvld0OQtQH0XX3A7ggACQgZfDs?hWcUKXRFgWzqnuP

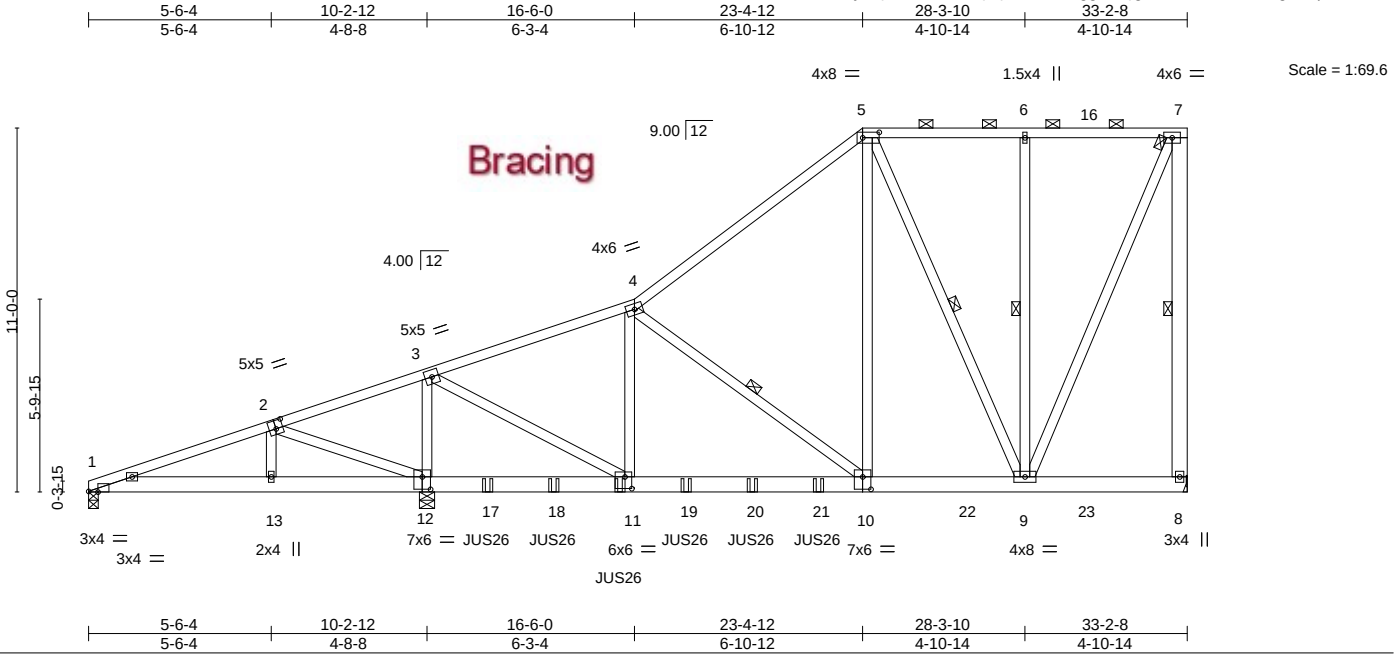


Plate Offsets (X,Y)-- [1:0-3-6,Edge], [2:0-2-8,0-3-0], [5:0-6-0,0-2-0], [10:0-3-0,0-4-8], [11:0-2-8,0-4-4], [12:0-3-0,0-4-8]

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 0.76	Vert(LL) -0.12 10-11 >999 240	MT20 244/190
TCDL 10.0		Lumber DOL 1.25	BC 1.00	Vert(CT) -0.24 10-11 >999 180	
BCLL 0.0	*	Rep Stress Incr NO	WB 0.69	Horz(CT) 0.01 8 n/a n/a	
BCDL 10.0		Code FBC2020/TPI2014	Matrix-MS		Weight: 262 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 7-8: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 4-10, 5-9, 6-9

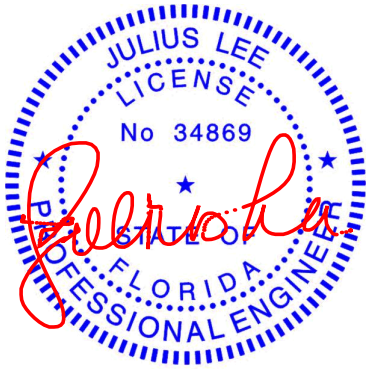
REACTIONS. (size) 8=Mechanical, 1=0-3-8, 12=0-5-8
Max Horz 1=376(LC 8)
Max Uplift 8=-246(LC 8), 1=-183(LC 32), 12=-569(LC 8)
Max Grav 8=1592(LC 36), 1=191(LC 22), 12=3285(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-140/484, 2-3=-348/837, 3-4=-2044/77, 4-5=-1420/140, 5-6=-606/96, 6-7=-606/96, 7-8=-1465/264
BOT CHORD 1-13=-667/131, 12-13=-657/125, 11-12=-593/28, 10-11=-286/1959, 9-10=-183/1086
WEBS 2-12=-580/433, 3-12=-2583/423, 3-11=-341/2879, 4-11=-374/612, 4-10=-1113/131, 5-10=-111/1477, 5-9=-1145/207, 6-9=-325/118, 7-9=-234/1482

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=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left exposed; porch left 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=246, 1=183, 12=569.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-0-12 from the left end to 22-0-12 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) 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



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

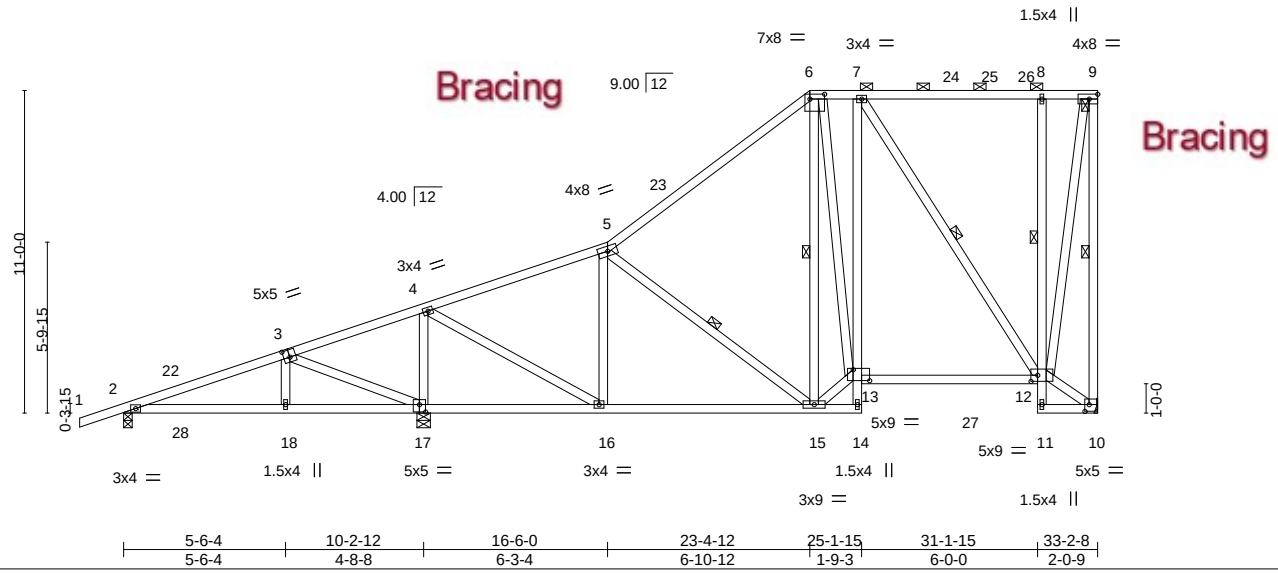
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-5=-60, 5-7=-60, 1-8=-20
   Concentrated Loads (lb)
   Vert: 11=-319(F) 17=-319(F) 18=-319(F) 19=-319(F) 20=-319(F) 21=-318(F)

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A7	Piggyback Base	8	1	T22646429
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:45 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-55S7rMP3ekPs9heMhOBPldDiCdL3QzedZBBpCyzqnuO

1-6-0	5-6-4	10-2-12	16-6-0	23-4-12	25-1-15	31-1-15	33-2-8
1-6-0	5-6-4	4-8-8	6-3-4	6-10-12	1-9-3	6-0-0	2-0-9

Scale = 1:78.6



5-6-4	10-2-12	16-6-0	23-4-12	25-1-15	31-1-15	33-2-8
5-6-4	4-8-8	6-3-4	6-10-12	1-9-3	6-0-0	2-0-9

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [6:0-6-0,0-2-0], [10:0-1-12,0-2-12], [12:0-2-12,0-2-8], [13:0-6-12,0-4-8], [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	0.84	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.14	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 262 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 (6-0-0 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied. Except: 1 Row at midpt 8-12
WEBS	1 Row at midpt 9-10, 5-15, 6-15, 7-12

REACTIONS. (size) 10=Mechanical, 2=0-3-8, 17=0-5-8
Max Horz 2=481(LC 11)
Max Uplift 10=-151(LC 9), 2=-193(LC 12), 17=-384(LC 12)
Max Grav 10=1024(LC 17), 2=343(LC 1), 17=1665(LC 2)

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

TOP CHORD	2-3=-262/226, 3-4=-640/584, 4-5=-885/175, 5-6=-813/295, 6-7=-566/316, 7-8=-282/226, 8-9=-272/221, 9-10=-1000/310
BOT CHORD	2-18=-512/236, 17-18=-503/233, 16-17=-455/239, 15-16=-358/809, 7-13=-191/434, 12-13=-336/618, 8-12=-308/279
WEBS	3-17=-642/532, 4-17=-1308/478, 4-16=-364/1269, 5-16=-397/272, 5-15=-273/138, 6-15=-137/255, 13-15=-327/848, 7-12=-702/275, 10-12=-266/362, 9-12=-421/1051

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=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-9-14, Interior(1) 1-9-14 to 23-4-12, Exterior(2R) 23-4-12 to 28-1-2, Interior(1) 28-1-2 to 33-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=151, 2=193, 17=384.
9) 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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

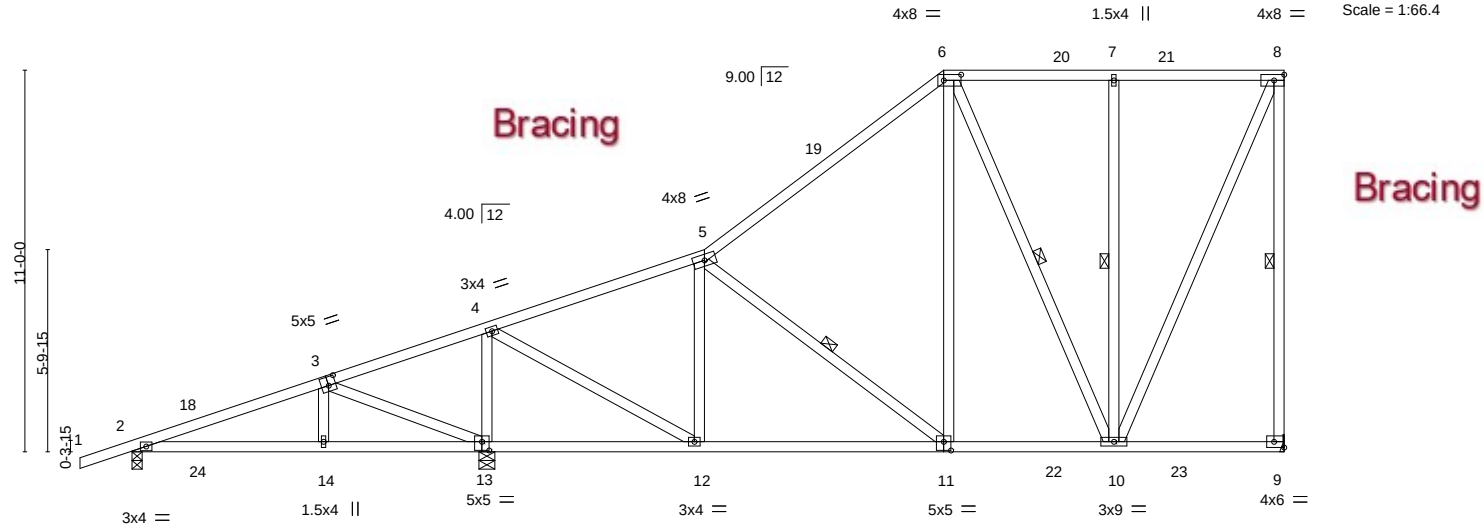
January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A8	Piggyback Base	1	1	T22646430
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:46 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-ZI0V2iQhP2YjmrDZF5jeHrmsM1hh9P4norwMlOzqnuN

-1-6-0	5-6-4	10-2-12	16-6-0	23-4-12	28-3-10	33-2-8
1-6-0	5-6-4	4-8-8	6-3-4	6-10-12	4-10-14	4-10-14



5-6-4	10-2-12	16-6-0	23-4-12	28-3-10	33-2-8
5-6-4	4-8-8	6-3-4	6-10-12	4-10-14	4-10-14

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [6:0-6-0,0-2-0], [9:Edge,0-2-0], [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	0.94	Vert(LL)	-0.06	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.13	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 230 lb	FT = 20%

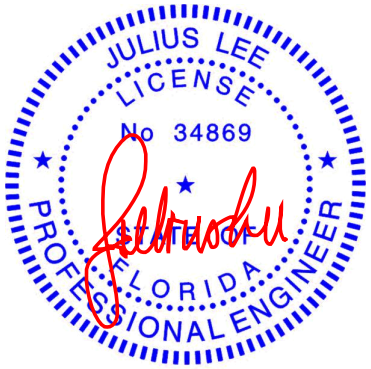
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-9, 5-11, 6-10, 7-10

REACTIONS. (size) 9=Mechanical, 2=0-3-8, 13=0-5-8
Max Horz 2=481(LC 11)
Max Uplift 9=-151(LC 9), 2=-192(LC 12), 13=-385(LC 12)
Max Grav 9=1055(LC 17), 2=344(LC 1), 13=1668(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-259/220, 3-4=-624/580, 4-5=-888/171, 5-6=-822/289, 6-7=-445/286, 7-8=-445/286, 8-9=-941/329
BOT CHORD 2-14=-515/242, 13-14=-506/239, 12-13=-457/241, 11-12=-347/815, 10-11=-329/602
WEBS 3-13=-641/531, 4-13=-1310/466, 4-12=-347/1272, 5-12=-396/264, 5-11=-274/140, 6-11=-0/420, 6-10=-441/220, 7-10=-328/188, 8-10=-313/923

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=33ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-9-14, Interior(1) 1-9-14 to 23-4-12, Exterior(2R) 23-4-12 to 26-8-10, Interior(1) 26-8-10 to 33-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=151, 2=192, 13=385.
9) 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.



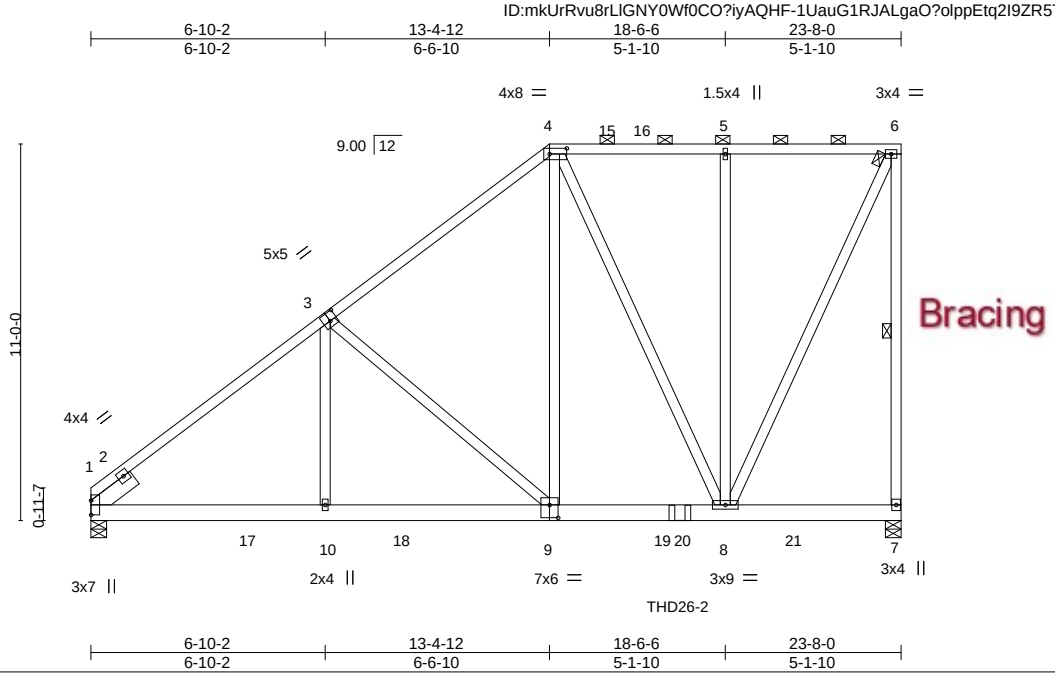
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646431
BRIAN_PAPKA	A9GIR	Piggyback Base Girder	1	2	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:47 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-1UauG1RJALgaO?olppEtq2I9ZR5Tuzrw0VgwHqzqnuM



Scale = 1:67.3

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

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	0.40	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.05	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 398 lb	FT = 20%

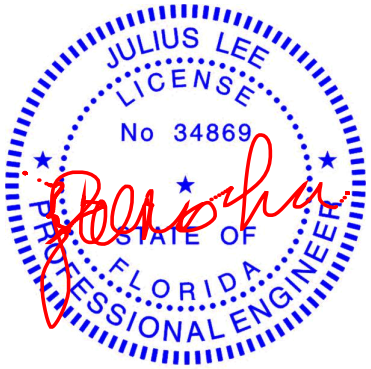
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7

REACTIONS. (size) 7=0-5-8, 1=0-5-8
Max Horz 1=467(LC 7)
Max Uplift 7=-381(LC 5), 1=-178(LC 8)
Max Grav 7=1390(LC 29), 1=1213(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1482/277, 3-4=-1036/327, 4-5=-599/296, 5-6=-599/296, 6-7=-1294/392
BOT CHORD 1-10=-402/1281, 9-10=-403/1279, 8-9=-320/831
WEBS 3-10=0/309, 3-9=-628/227, 4-9=-100/720, 4-8=-541/131, 5-8=-354/174, 6-8=-393/1320

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.
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 C; 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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=381, 1=178.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 17-2-7 from the left end to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

LOAD CASE(S) Standard

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-6=-60, 7-11=-20
   Concentrated Loads (lb)
   Vert: 20=-266(B)

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A10	Piggyback Base	2	1	T22646432
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:28 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-4qxiGYCOeWGHc4r5BJOQZ20pnnYtxH77f2ZP6Rzqnuf

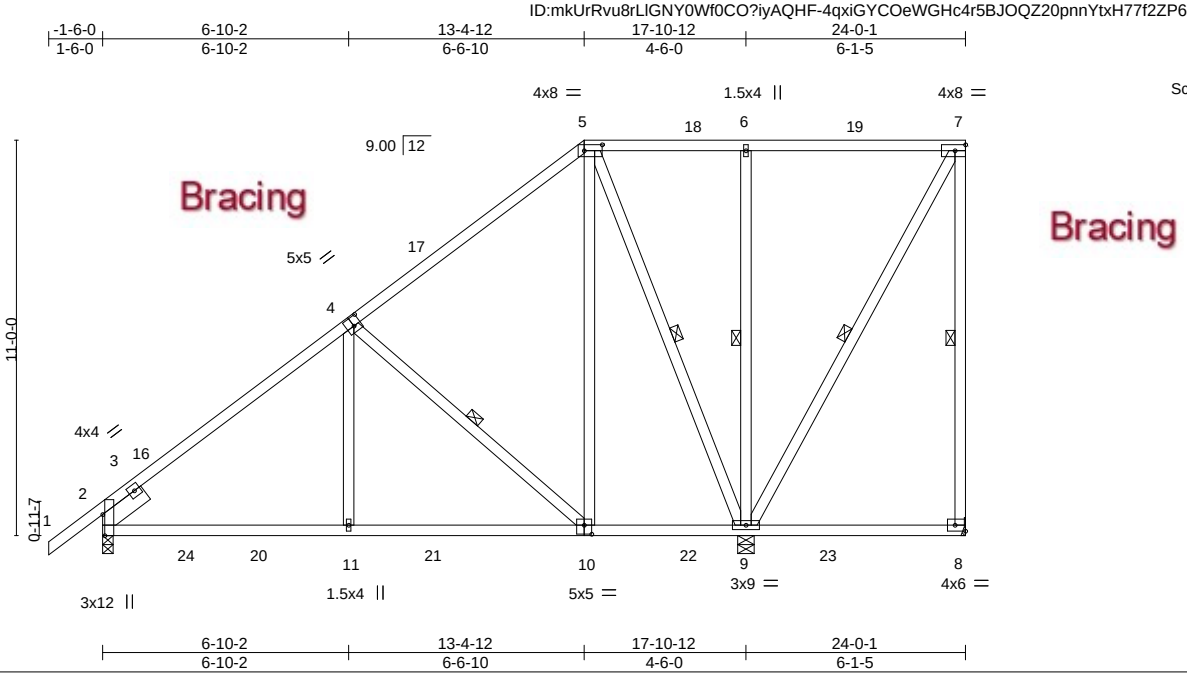


Plate Offsets (X,Y)-- [2:0-7-1,Edge], [4:0-2-8,0-3-0], [5:0-6-0,0-2-0], [8:Edge,0-2-0], [10:0-2-8,0-3-0]

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	0.82	Vert(LL)	0.09	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.11	8-9	>638	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 185 lb	FT = 20%

LUMBER-

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

BRACING-

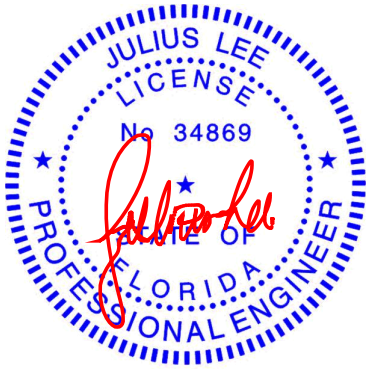
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 7-8, 4-10, 5-9, 6-9, 7-9

REACTIONS. (size) 8=Mechanical, 2=0-3-8, 9=0-5-8
Max Horz 2=491(LC 11)
Max Uplift 8=-123(LC 9), 2=-368(LC 12), 9=-413(LC 12)
Max Grav 8=155(LC 17), 2=821(LC 2), 9=1374(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-809/467, 4-5=-343/299
BOT CHORD 2-11=-657/655, 10-11=-655/653, 9-10=-364/345
WEBS 4-11=-231/357, 4-10=-542/392, 5-10=-322/557, 5-9=-718/435, 6-9=-370/186, 7-9=-271/102

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-4-12, Exterior(2R) 13-4-12 to 17-10-12, Interior(1) 17-10-12 to 23-10-5 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=123, 2=368, 9=413.
9) 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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A11GIR	Piggyback Base Girder	1	1	T22646433
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:30 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-1D2ShDDeA7X?sN?UJkQueT5DQaGXPDnQ6L2WBKzqnud

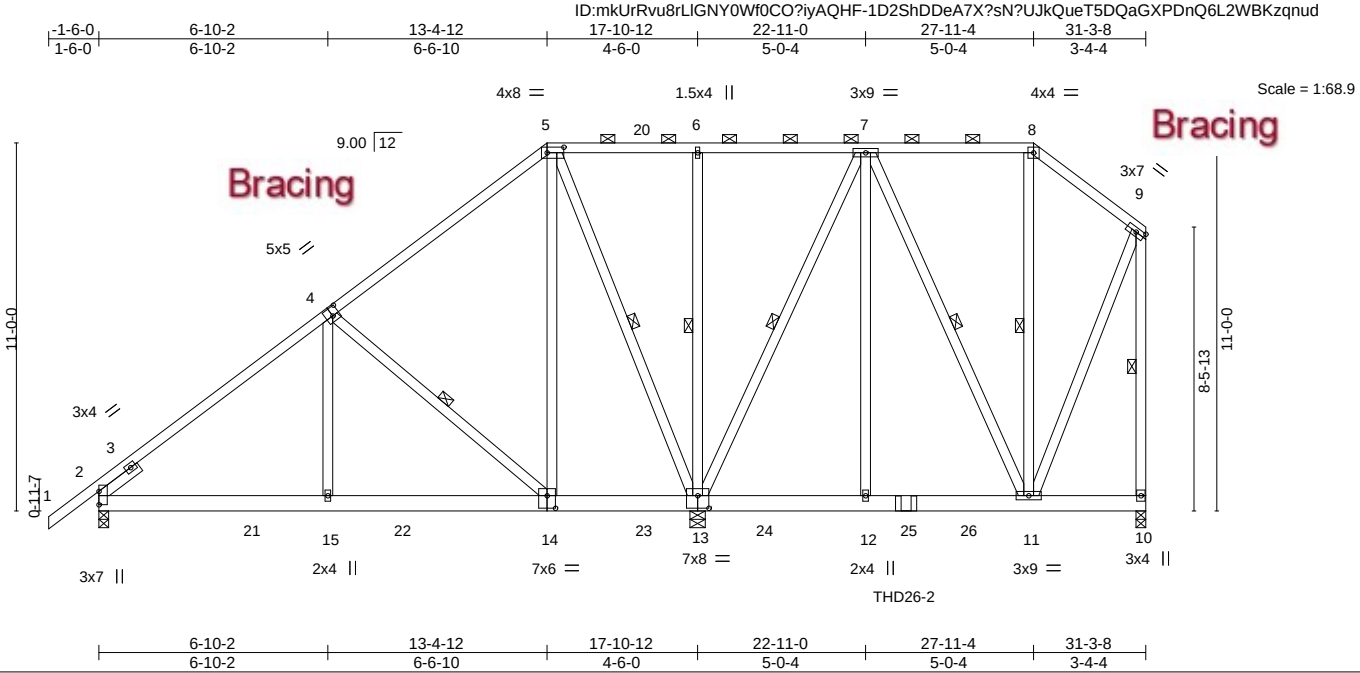


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-0], [13:0-4-0,0-4-8], [14:0-3-0,0-4-8]

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	0.55	Vert(LL)	-0.03	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 287 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 5-13, 6-13, 7-13, 7-11, 8-11, 9-10

REACTIONS. (size) 2=0-3-8, 13=0-5-8, 10=0-3-8
Max Horz 2=452(LC 7)
Max Uplift 2=-157(LC 25), 13=-278(LC 8), 10=-128(LC 8)
Max Grav 2=863(LC 13), 13=1885(LC 29), 10=573(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-823/142, 4-5=-337/184, 8-9=-338/228, 9-10=-555/189
BOT CHORD 2-15=-277/771, 14-15=-278/767, 13-14=-227/266
WEBS 4-15=0/360, 4-14=-668/205, 5-14=-61/636, 5-13=-886/101, 6-13=-301/102, 7-13=-761/155, 7-12=-54/400, 9-11=-146/405

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=31ft; eave=4ft; Cat. II; Exp C; 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) except (jt=lb) 2=157, 13=278, 10=128.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 24-1-9 from the left end to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) 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, 5-8=-60, 8-9=-60, 10-16=-20

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 29,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 25=-209(B)

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A12	Piggyback Base	4	1	T22646434
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:31 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-VPcqvZEHxRfsTXagtSx7AheQz_Zg8fFZL?o3jmzqnuc

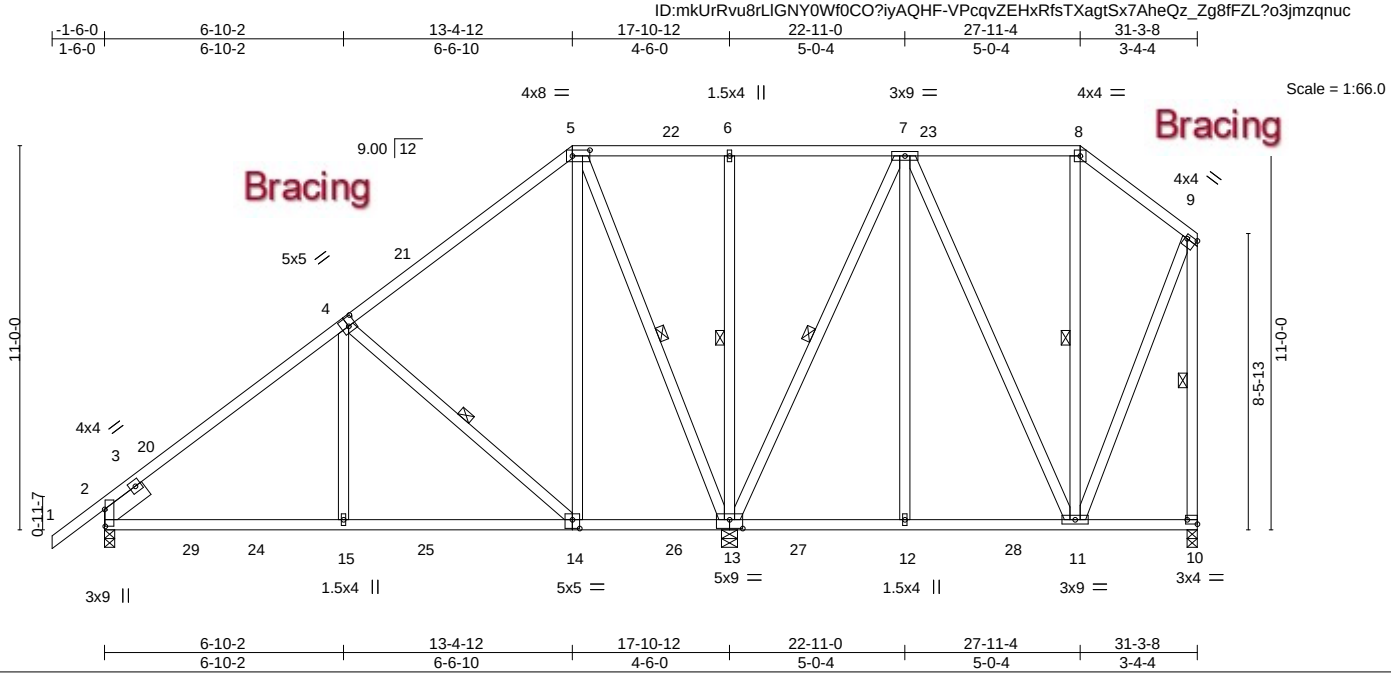


Plate Offsets (X,Y)-- [2:0-5-13,0-0-3], [4:0-2-8,0-3-0], [5:0-6-0,0-2-0], [9:Edge,0-1-8], [10:Edge,0-1-8], [13:0-4-8,0-3-0], [14:0-2-8,0-3-0]

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	0.44	Vert(LL)	0.08	15-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.09	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	-0.02	2	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
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

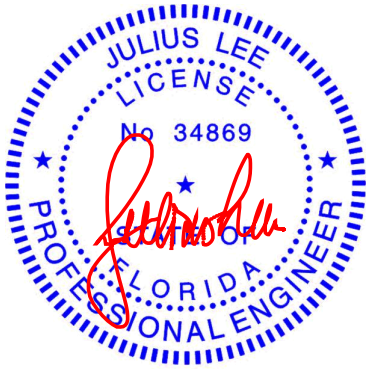
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-14, 5-13, 6-13, 7-13, 8-11, 9-10

REACTIONS. (size) 2=0-3-8, 13=0-5-8, 10=0-3-8
Max Horz 2=454(LC 11)
Max Uplift 2=-384(LC 12), 13=-416(LC 12), 10=-75(LC 12)
Max Grav 2=782(LC 23), 13=1704(LC 2), 10=478(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-751/430, 4-5=-288/285, 8-9=-303/232, 9-10=-454/128
BOT CHORD 2-15=-560/636, 14-15=-558/634, 13-14=-286/265
WEBS 4-15=-203/357, 4-14=-551/366, 5-14=-310/572, 5-13=-790/352, 6-13=-298/110, 7-13=-640/67, 7-12=0/294, 9-11=-123/339

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=31ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-7-9, Interior(1) 1-7-9 to 13-4-12, Exterior(2R) 13-4-12 to 17-10-12, Interior(1) 17-10-12 to 27-11-4, Exterior(2E) 27-11-4 to 31-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) 10 except (jt=lb) 2=384, 13=416.
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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A13	Piggyback Base	4	1	T22646435
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:32 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-zbAD6vFvilni5h8sQ9SMjuBbbOvut6gjZfXdFCzqnub

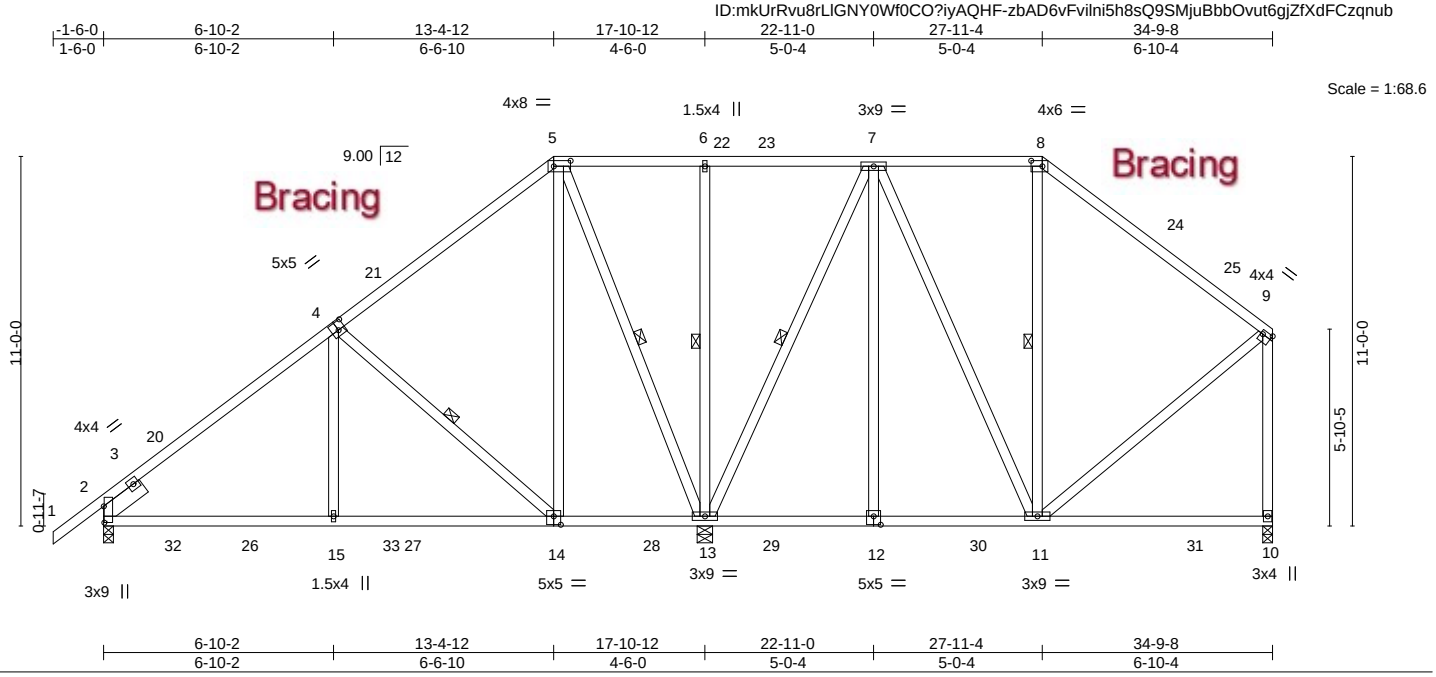


Plate Offsets (X,Y)-- [2:0-5-13,0-0-3], [4:0-2-8,0-3-0], [5:0-6-0,0-2-0], [8:0-4-0,0-2-0], [9:Edge,0-1-8], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.08	15-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.13	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 272 lb	FT = 20%

LUMBER-

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

BRACING-

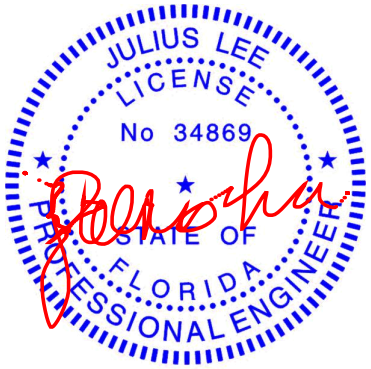
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-14, 5-13, 6-13, 7-13, 8-11

REACTIONS. (size) 2=0-3-8, 13=0-5-8, 10=0-3-8
Max Horz 2=417(LC 11)
Max Uplift 2=-390(LC 12), 13=-429(LC 12), 10=-95(LC 12)
Max Grav 2=785(LC 23), 13=1821(LC 2), 10=717(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-755/419, 4-5=-292/295, 7-8=-340/231, 8-9=-487/190, 9-10=-582/152
BOT CHORD 2-15=-454/654, 14-15=-453/652, 13-14=-257/239
WEBS 4-15=-190/358, 4-14=-554/348, 5-14=-305/570, 5-13=-782/295, 6-13=-305/124, 7-13=-766/89, 7-12=0/263, 7-11=-79/260, 9-11=-44/326

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-11-12, Interior(1) 1-11-12 to 13-4-12, Exterior(2R) 13-4-12 to 18-3-13, Interior(1) 18-3-13 to 27-11-4, Exterior(2R) 27-11-4 to 32-10-5, Interior(1) 32-10-5 to 34-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) 10 except (jt=lb) 2=390, 13=429.
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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	A14GE	Piggyback Base Supported Gable	1	1	T22646436
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:34 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-v_IzXbG9EM1QK?IFYaVqoJG?ABgnL6q01z0kK5zqnuZ

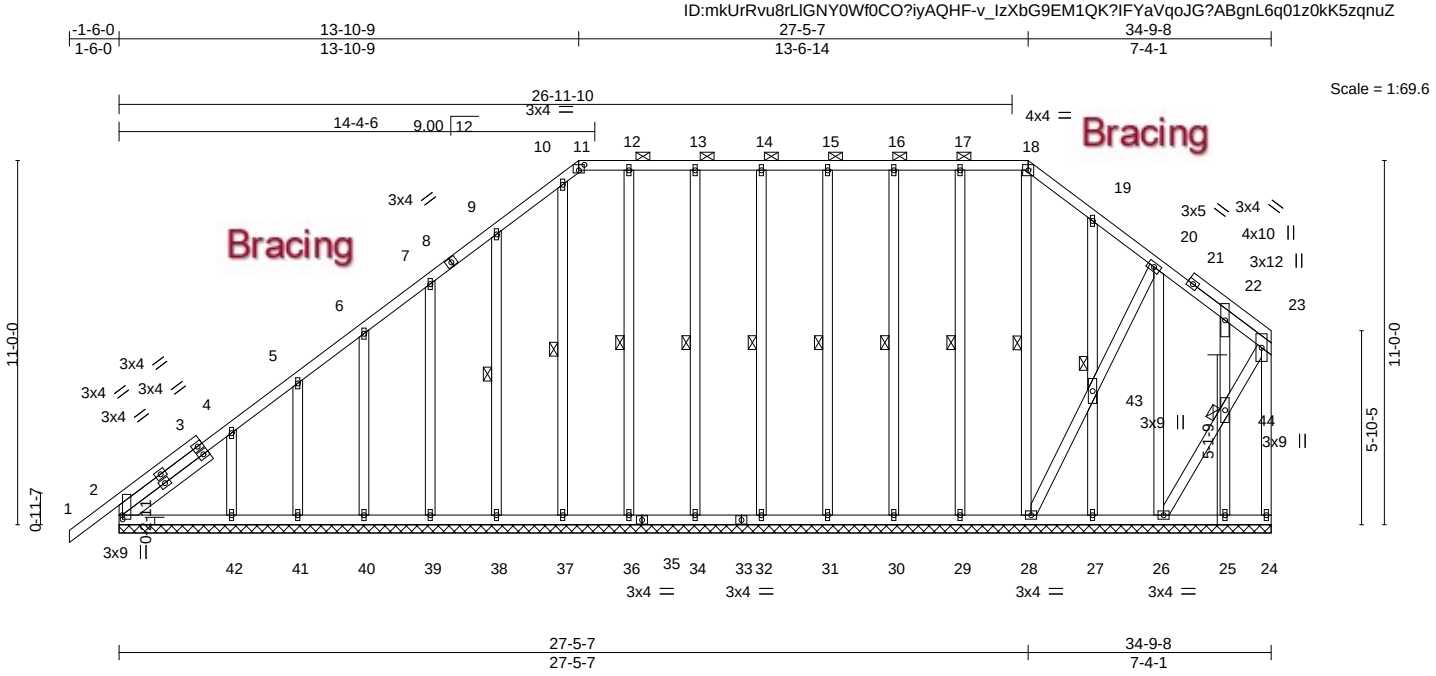


Plate Offsets (X,Y)-- [2:0-1-8,0-0-3], [11:0-2-0,0-2-0]

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	0.18	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	0.13	Horz(CT)	-0.01	24	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 356 lb	FT = 20%

LUMBER-

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

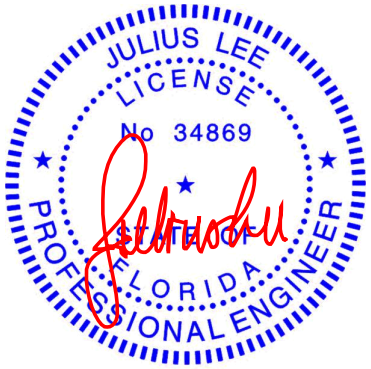
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-18.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,24-25.	
WEBS	1 Row at midpt	13-34, 12-36, 10-37, 9-38, 14-32, 15-31, 16-30, 17-29, 18-28
JOINTS	1 Brace at Jt(s): 43, 44	

REACTIONS. All bearings 34-9-8.
(lb) - Max Horz 2=411(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 24, 2, 34, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 26, 25, 27
Max Grav All reactions 250 lb or less at joint(s) 24, 34, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 26, 25, 27 except 2=266(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-281/258

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=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 2, 34, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 26, 25, 27.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646436
BRIAN_PAPKA	A14GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)

NOTES-

12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	B1GE	Attic	1	1	T22646437
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:49 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-ztiegjSZizwIeIy7wDGLvTOXgEeIMkNDUp90MjzqnuK

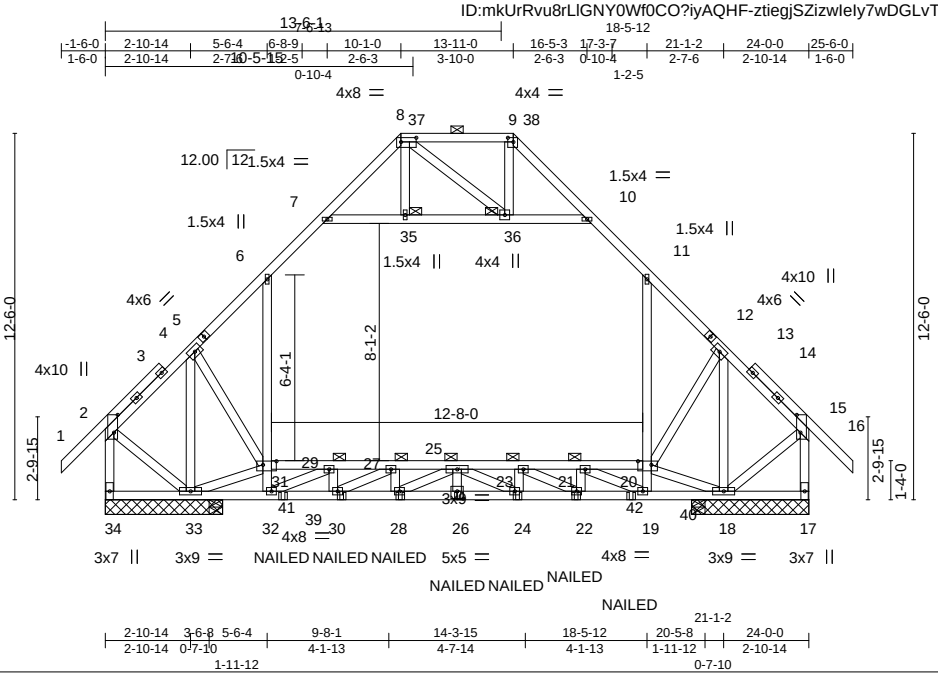


Plate Offsets (X,Y)-- [2:0-7-4,0-1-8], [8:0-6-4,0-1-12], [9:0-2-4,0-1-12], [15:0-7-4,0-1-8], [20:0-5-8,0-1-8], [26:0-2-8,0-3-0], [31:0-5-8,0-1-8]

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	0.29	Vert(LL)	-0.09	25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.17	26	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.03	17	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.08	20-31	2041	360	Weight: 241 lb	FT = 20%

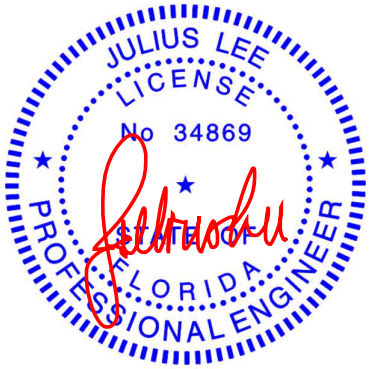
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 27, 25, 23, 21, 29, 35, 36

REACTIONS. All bearings 4-0-0.
(lb) - Max Horz 34=-446(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except 34=-737(LC 12), 17=-737(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 17 except 34=271(LC 7), 33=2499(LC 30), 33=1252(LC 1), 18=2445(LC 31), 18=1253(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-167/667, 4-6=-712/71, 6-7=-602/151, 7-8=-384/90, 9-10=-383/89, 10-11=-602/151, 11-13=-712/70, 13-15=-112/630, 2-34=-246/749, 15-17=-175/749
BOT CHORD 33-34=-435/423, 32-33=-768/119, 30-32=0/1062, 28-30=0/1801, 26-28=0/2009, 24-26=0/2009, 22-24=0/1731, 19-22=0/920, 18-19=-710/0, 29-31=0/990, 27-29=-648/33, 25-27=-1490/0, 23-25=-1490/0, 21-23=-681/57, 20-21=0/1144
WEBS 4-33=-2030/0, 4-31=0/1353, 31-32=0/839, 6-31=-285/167, 19-20=0/839, 11-20=-285/166, 13-20=0/1299, 13-18=-1957/0, 2-33=-700/216, 15-18=-662/165, 21-22=0/438, 31-33=-77/336, 29-30=0/438, 29-32=-1769/0, 27-30=-939/0, 25-28=-319/0, 24-25=-310/0, 22-23=-939/0, 19-21=-1769/0, 18-20=-254/468

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 C; 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) All plates are 3x4 MT20 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) Ceiling dead load (5.0 psf) on member(s). 6-7, 10-11, 7-35, 35-36, 10-36; Wall dead load (5.0psf) on member(s).6-31, 11-20
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 27-29, 25-27, 23-25, 21-23, 20-21
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 737 lb uplift at joint 34 and 737 lb uplift at joint 17.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) Attic room checked for L/360 deflection.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-6=-60, 6-7=-70, 7-8=-60, 8-9=-60, 9-10=-60, 10-11=-70, 11-15=-60, 15-16=-60, 17-34=-20, 20-31=-30, 7-10=-10
   Drag: 6-31=-10, 11-20=-10
   Concentrated Loads (lb)
   Vert: 28=-16(F) 26=-16(F) 24=-16(F) 22=-16(F) 30=-16(F) 39=-16(F) 40=-16(F)

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	B2	Attic	9	1	T22646438
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:51 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-vFqO5PUqEaA0tc5W2eIp_uTnx2KOqicWx7e7QczqnuI

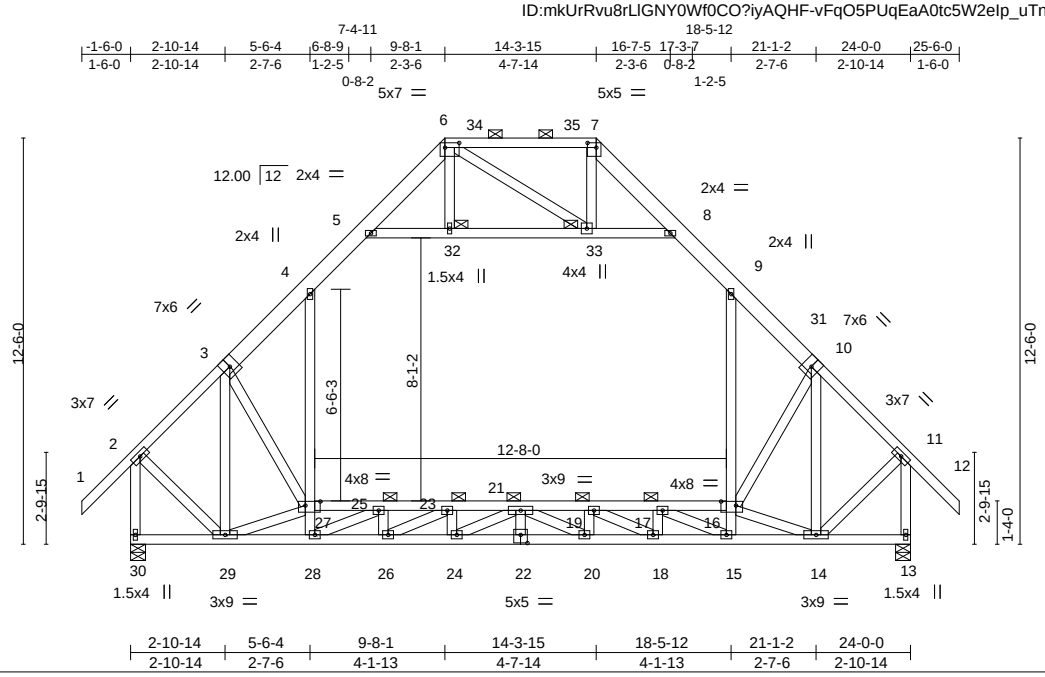


Plate Offsets (X,Y)-- [6:0-5-4,0-1-12], [7:0-3-4,0-1-12], [16:0-5-8,0-1-8], [22:0-2-8,0-3-0], [27:0-5-8,0-1-8]

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	0.69	Vert(LL)	-0.14	21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.25	22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS		Attic	-0.09	16-27	1763	360	Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 3-6,7-10: 2x6 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 (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 23, 21, 19, 17, 25, 32, 33

REACTIONS. (size) 30=0-5-8, 13=0-5-8
Max Horz 30=-457(LC 10)
Max Grav 30=1659(LC 18), 13=1659(LC 19)

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

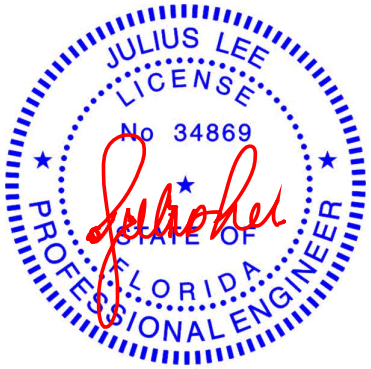
TOP CHORD 2-3=-1141/46, 3-4=-1630/0, 4-5=-1001/121, 5-6=-371/105, 7-8=-368/104, 8-9=-1012/121, 9-10=-1658/0, 10-11=-1141/46, 2-30=-1630/3, 11-13=-1630/2

BOT CHORD 29-30=-432/412, 28-29=-795/992, 26-28=-31/1843, 24-26=0/2369, 22-24=0/2507, 20-22=0/2507, 18-20=0/2259, 15-18=0/1620, 14-15=-508/708, 25-27=-287/1383, 23-25=-708/176, 21-23=-1385/0, 19-21=-1385/0, 17-19=-843/354, 16-17=-481/1527

WEBS 3-29=-1109/0, 3-27=-75/610, 27-28=0/832, 4-27=0/859, 5-32=-944/63, 32-33=-941/64, 8-33=-967/64, 15-16=0/835, 9-16=0/861, 16-31=-112/639, 14-31=-1148/0, 10-31=-643/0, 2-29=0/1080, 11-14=0/1088, 17-18=0/421, 27-29=-255/1105, 25-26=0/421, 25-28=-1692/0, 23-26=-978/0, 21-24=-425/160, 20-21=-414/147, 18-19=-980/0, 15-17=-1692/0, 14-16=-436/1216

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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 3x4 MT20 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-32, 32-33, 8-33; Wall dead load (5.0psf) on member(s).4-27, 9-16
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646439
BRIAN_PAPKA	B3	Attic	2	2	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:53 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-sex9W5V4lBQk6wFv93LH3JY7NryEIbbpPQ7EVUzqnuG

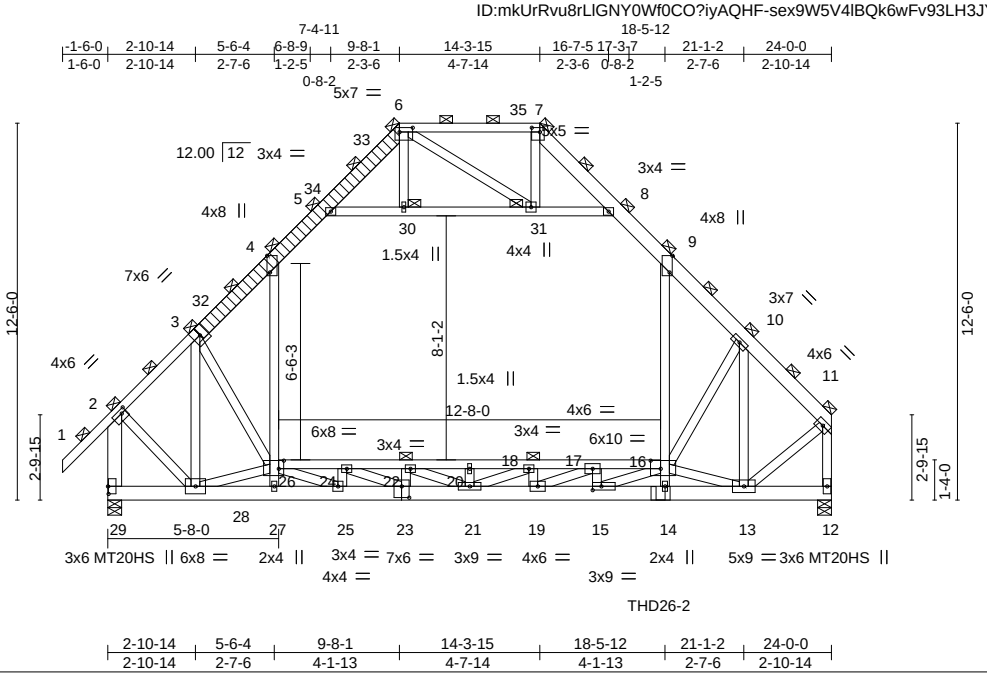


Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [4:0-6-10,Edge], [6:0-5-4,0-1-12], [7:0-3-4,0-1-12], [9:0-6-10,Edge], [15:0-3-8,0-1-8], [16:0-4-0,0-3-4], [23:0-3-0,0-4-8], [26:0-2-0,0-3-4], [29:0-3-0,0-0-4]

LOADING (psf)		SPACING- 5-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.17	22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.28	20-22	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.10	16-26	1565	360	Weight: 592 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP SS *Except* 6-7,1-3: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 16-26: 2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 2-29: 2x6 SP No.2
OTHERS	2x6 SP SS
LBR SCAB	3-6 2x6 SP SS one side

BRACING-

TOP CHORD	2-0-0 oc purlins (4-8-3 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15,13-14. 6-0-0 oc bracing: 16-26
JOINTS	1 Brace at Jt(s): 6, 7, 2, 11, 30, 31

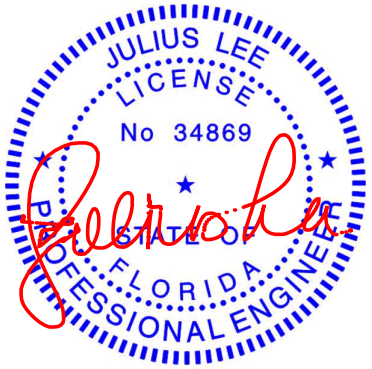
REACTIONS. (size) 29=0-5-8, 12=0-5-8
Max Horz 29=1085(LC 7)
Max Uplift 29=-386(LC 8), 12=-360(LC 8)
Max Grav 29=8811(LC 30), 12=5237(LC 30)

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

TOP CHORD	2-3=-5939/341, 3-4=-6400/313, 4-5=-3836/485, 5-6=-898/295, 6-7=-292/412, 7-8=-840/300, 8-9=-3450/468, 9-10=-6074/378, 10-11=-3877/420, 2-29=-8316/423, 11-12=-5103/410
BOT CHORD	28-29=-948/1011, 27-28=-2242/6435, 25-27=-2343/6415, 23-25=-918/7720, 21-23=0/7750, 19-21=0/5519, 15-19=-727/3415, 14-15=-3688/2084, 13-14=-3479/2164, 24-26=-4079/1294, 22-24=-4114/72, 20-22=-3765/0, 18-20=-3765/0, 17-18=-2362/404, 16-17=-1859/2975
WEBS	3-28=-2908/178, 3-26=-1093/1110, 26-27=-1/756, 4-26=0/2412, 5-30=-3687/468, 30-31=-3679/471, 8-31=-3937/459, 14-16=-515/1565, 9-16=-139/3465, 10-16=-363/2352, 10-13=-4238/207, 2-28=0/4921, 11-13=-113/3580, 22-23=-606/322, 20-21=-587/0, 18-19=-1515/179, 15-17=-2215/59, 24-25=-1226/116, 26-28=-2377/2123, 25-26=0/2820, 23-24=-582/1587, 21-22=-1202/1025, 18-21=-673/2640, 17-19=-338/3936, 15-16=0/4782, 13-16=-1696/6087, 7-31=-31/344, 6-31=-423/178

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) Attached 9-7-13 scab 3 to 6, front face(s) 2x6 SP SS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-0 from end at joint 3, nail 3 row(s) at 4" o.c. for 2-0-0; starting at 2-6-6 from end at joint 3, nail 2 row(s) at 4" o.c. for 2-0-0; starting at 4-9-3 from end at joint 3, nail 3 row(s) at 4" o.c. for 2-5-13; starting at 7-6-10 from end at joint 3, nail 2 row(s) at 7" o.c. for 2-0-0.
4) Unbalanced roof live loads have been considered for this design.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

5) 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 C; 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
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-30, 30-31, 8-31; Wall dead load (5.0psf) on member(s).4-26, 9-16
12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 18-20, 17-18, 16-17
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 29 and 360 lb uplift at joint 12.
14) Load case(s) 2, 12, 13, 14, 15, 16, 17, 20, 21, 30, 31, 32, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
15) Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 18-4-0 from the left end to connect truss(es) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.
17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-150, 6-34=-150, 6-7=-150, 7-8=-150, 8-9=-175, 9-11=-150, 27-29=-125, 12-27=-50, 16-26=-75, 5-8=-25
   Drag: 4-26=-25, 9-16=-25
   Concentrated Loads (lb)
   Vert: 14=-572(B)
   Trapezoidal Loads (plf)
   Vert: 2=-453-to-4=-392, 4=-417-to-5=-399, 5=-374-to-34=-370
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-125, 6-34=-125, 6-7=-125, 7-8=-125, 8-9=-150, 9-11=-125, 27-29=-322, 12-27=-50, 16-26=-225, 5-8=-25
   Drag: 4-26=-25, 9-16=-25
   Concentrated Loads (lb)
   Vert: 14=-598(B)
   Trapezoidal Loads (plf)
   Vert: 2=-618-to-4=-519, 4=-544-to-5=-514, 5=-489-to-34=-483
12) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-2=-50, 6-34=-50, 6-7=-50, 7-8=-50, 8-9=-75, 9-11=-50, 27-29=-363, 12-27=-50, 16-26=-275, 5-8=-25
   Drag: 4-26=-25, 9-16=-25
   Concentrated Loads (lb)
   Vert: 14=-399(B)
   Trapezoidal Loads (plf)
   Vert: 2=-505-to-4=-413, 4=-438-to-5=-411, 5=-386-to-34=-380
13) Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-2=-50, 6-34=-50, 6-7=-50, 7-8=-50, 8-9=-75, 9-11=-50, 27-29=-363, 12-27=-50, 16-26=-275, 5-8=-25
   Drag: 4-26=-25, 9-16=-25
   Concentrated Loads (lb)
   Vert: 14=-399(B)
   Trapezoidal Loads (plf)
   Vert: 2=-505-to-4=-413, 4=-438-to-5=-411, 5=-386-to-34=-380
14) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-147, 6-34=-160, 6-7=-127, 7-8=-102, 8-9=-127, 9-11=-102, 27-29=-345, 12-27=-50, 16-26=-225, 5-8=-25
   Horz: 1-2=22, 2-6=35, 7-11=23, 2-29=60, 11-12=17
   Drag: 4-26=-25, 9-16=-25
   Concentrated Loads (lb)
   Vert: 14=303(B)
   Trapezoidal Loads (plf)
   Vert: 2=-745-to-4=-627, 4=-652-to-5=-616, 5=-591-to-34=-584
15) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-89, 6-34=-102, 6-7=-127, 7-8=-160, 8-9=-185, 9-11=-160, 27-29=-335, 12-27=-50, 16-26=-225, 5-8=-25
   Horz: 1-2=-36, 2-6=-23, 7-11=-35, 2-29=-17, 11-12=-60
   Drag: 4-26=-25, 9-16=-25
   Concentrated Loads (lb)
   Vert: 14=303(B)
   Trapezoidal Loads (plf)
   Vert: 2=-648-to-4=-538, 4=-563-to-5=-530, 5=-505-to-34=-498
16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-114, 6-34=-127, 6-7=-127, 7-8=-127, 8-9=-152, 9-11=-127, 27-29=-342, 12-27=-50, 16-26=-225, 5-8=-25
Horz: 1-2=-11, 2-6=2, 7-11=-2, 2-29=-29, 11-12=29
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=303(B)
Trapezoidal Loads (plf)
Vert: 2=-702-to-4=-586, 4=-611-to-5=-577, 5=-552-to-34=-544

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-114, 6-34=-127, 6-7=-127, 7-8=-127, 8-9=-152, 9-11=-127, 27-29=-342, 12-27=-50, 16-26=-225, 5-8=-25
Horz: 1-2=-11, 2-6=2, 7-11=-2, 2-29=-29, 11-12=29
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=303(B)
Trapezoidal Loads (plf)
Vert: 2=-702-to-4=-586, 4=-611-to-5=-577, 5=-552-to-34=-544

20) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-125, 6-34=-125, 6-7=-125, 7-8=-50, 8-9=-75, 9-11=-50, 27-29=-322, 12-27=-50, 16-26=-225, 5-8=-25
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=-598(B)
Trapezoidal Loads (plf)
Vert: 2=-618-to-4=-519, 4=-544-to-5=-514, 5=-489-to-34=-483

21) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-50, 6-34=-50, 6-7=-125, 7-8=-125, 8-9=-150, 9-11=-125, 27-29=-322, 12-27=-50, 16-26=-225, 5-8=-25
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=-598(B)
Trapezoidal Loads (plf)
Vert: 2=-543-to-4=-444, 4=-469-to-5=-439, 5=-414-to-34=-408

30) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-147, 6-34=-160, 6-7=-127, 7-8=-102, 8-9=-127, 9-11=-102, 27-29=-345, 12-27=-50, 16-26=-225, 5-8=-25
Horz: 1-2=22, 2-6=35, 7-11=23, 2-29=60, 11-12=17
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=-841(B)
Trapezoidal Loads (plf)
Vert: 2=-745-to-4=-627, 4=-652-to-5=-616, 5=-591-to-34=-584

31) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-89, 6-34=-102, 6-7=-127, 7-8=-160, 8-9=-185, 9-11=-160, 27-29=-335, 12-27=-50, 16-26=-225, 5-8=-25
Horz: 1-2=-36, 2-6=-23, 7-11=-35, 2-29=-17, 11-12=-60
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=-841(B)
Trapezoidal Loads (plf)
Vert: 2=-648-to-4=-538, 4=-563-to-5=-530, 5=-505-to-34=-498

32) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-114, 6-34=-127, 6-7=-127, 7-8=-127, 8-9=-152, 9-11=-127, 27-29=-342, 12-27=-50, 16-26=-225, 5-8=-25
Horz: 1-2=-11, 2-6=2, 7-11=-2, 2-29=-29, 11-12=29
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=-841(B)
Trapezoidal Loads (plf)
Vert: 2=-702-to-4=-586, 4=-611-to-5=-577, 5=-552-to-34=-544

33) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-114, 6-34=-127, 6-7=-127, 7-8=-127, 8-9=-152, 9-11=-127, 27-29=-342, 12-27=-50, 16-26=-225, 5-8=-25
Horz: 1-2=-11, 2-6=2, 7-11=-2, 2-29=-29, 11-12=29
Drag: 4-26=-25, 9-16=-25
Concentrated Loads (lb)
Vert: 14=-841(B)
Trapezoidal Loads (plf)
Vert: 2=-702-to-4=-586, 4=-611-to-5=-577, 5=-552-to-34=-544

Job	Truss	Truss Type	Qty	Ply	T22646440
BRIAN_PAPKA	B4	Attic	1	1	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:55 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-o03vxmXKHpgSMDPHHUNl9keRJfiLmWs5skcLZNzqnuE

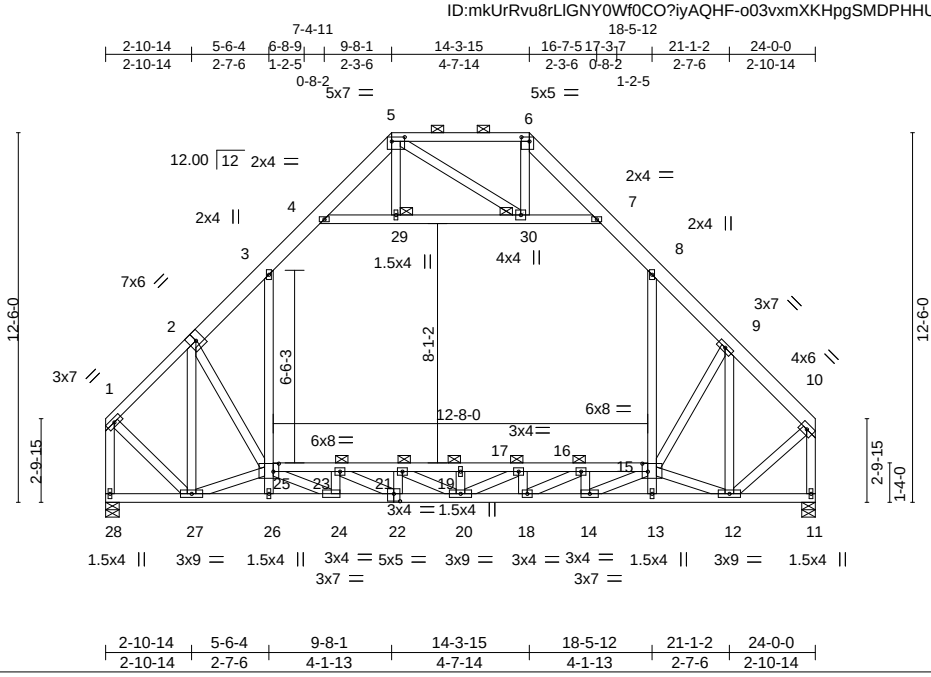


Plate Offsets (X,Y)-- [5:0-5-4,0-1-12], [6:0-3-4,0-1-12], [15:0-2-4,0-3-4], [22:0-2-8,0-3-0], [25:0-2-4,0-3-4]

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	0.73	Vert(LL)	-0.12	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.21	19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.07	15-25	2199	360	Weight: 251 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 21, 19, 17, 16, 23, 29, 30

REACTIONS. (size) 28=0-5-8, 11=0-5-8
Max Horz 28=-406(LC 10)
Max Grav 28=1565(LC 19), 11=1565(LC 18)

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

TOP CHORD	1-2=-1131/1, 2-3=-1642/0, 3-4=-1012/111, 4-5=-364/106, 6-7=-361/105, 7-8=-1024/112, 8-9=-1715/0, 9-10=-1154/0, 1-28=-1530/0, 10-11=-1531/0
BOT CHORD	27-28=-387/370, 26-27=-677/906, 24-26=-707/904, 22-24=-89/1696, 20-22=0/2203, 18-20=0/2090, 14-18=0/1517, 13-14=-463/663, 12-13=-432/664, 23-25=-565/230, 21-23=-1150/0, 19-21=-1492/0, 17-19=-1492/0, 16-17=-1212/0, 15-16=-706/406
WEBS	2-27=-1072/0, 2-25=-69/559, 3-25=0/864, 4-29=-970/47, 29-30=-967/49, 7-30=-994/48, 8-15=0/917, 9-15=-130/531, 9-12=-1110/12, 1-27=0/1063, 10-12=0/1076, 21-22=-388/2, 17-18=-382/3, 14-16=-656/0, 23-24=-660/0, 25-27=-194/1027, 24-25=0/1524, 22-23=0/911, 20-21=-119/469, 17-20=-133/476, 16-18=0/948, 14-15=0/1527, 12-15=-355/1171

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-29, 29-30, 7-30; Wall dead load (5.0psf) on member(s).3-25, 8-15
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-25, 21-23, 19-21, 17-19, 16-17, 15-16
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	B5	Attic	4	1	T22646441
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:56 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-GDdH86Xy26oJzN_UqCu_hyAdp32TV_zF5OLu5pzqnuD

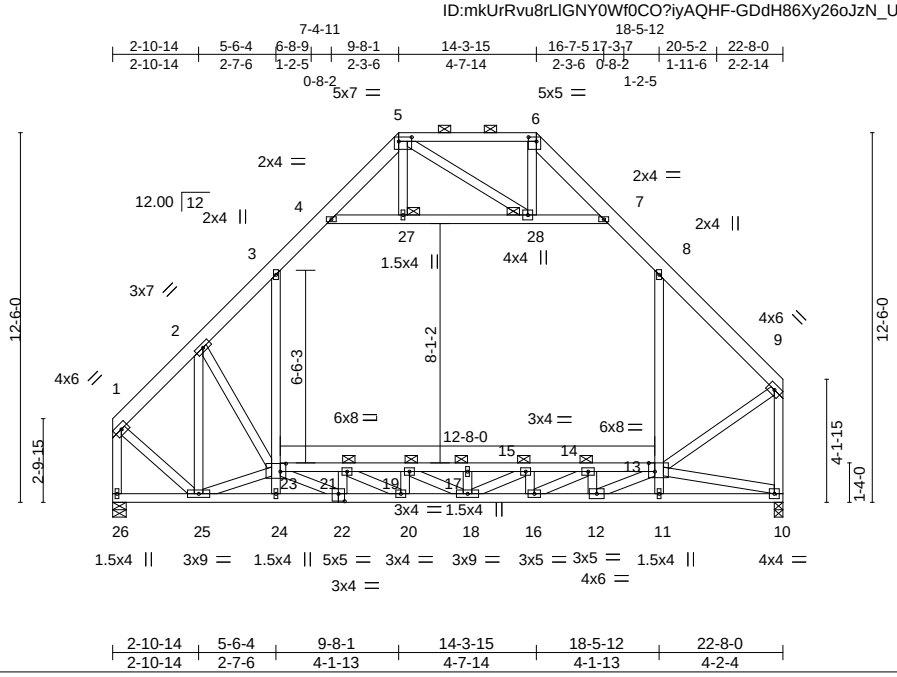


Plate Offsets (X,Y)-- [5:0-5-4,0-1-12], [6:0-3-4,0-1-12], [13:0-2-8,Edge], [22:0-2-8,0-3-0], [23:0-2-4,0-3-4]

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	0.68	Vert(LL)	-0.11	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.19	17-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.07	13-23	2176	360	Weight: 240 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except* 5-6: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 27, 28, 21, 19, 17, 15, 14

REACTIONS. (size) 26=0-5-8, 10=0-3-8
Max Horz 26=423(LC 11)
Max Grav 26=1478(LC 19), 10=1575(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1087/0, 2-3=-1523/0, 3-4=-924/115, 4-5=-373/102, 6-7=-372/102, 7-8=-948/115, 8-9=-1475/0, 1-26=-1445/0, 9-10=-1767/0
BOT CHORD 25-26=-405/366, 24-25=-555/1090, 22-24=-581/1094, 20-22=-101/1888, 18-20=0/2240, 16-18=0/1862, 12-16=0/1082, 11-12=-897/367, 10-11=-851/374, 21-23=-827/156, 19-21=-1327/0, 17-19=-1489/0, 15-17=-1489/0, 14-15=-1073/0, 13-14=-528/566
WEBS 2-25=-888/9, 2-23=-164/390, 3-23=0/817, 4-27=-835/57, 27-28=-833/58, 7-28=-866/61, 8-13=-20/633, 1-25=0/1013, 9-13=0/1161, 21-22=-599/0, 19-20=-307/38, 15-16=-456/0, 12-14=-725/0, 22-23=0/1320, 20-21=-3/787, 18-19=-218/302, 15-18=-73/645, 14-16=0/1121, 12-13=0/1665, 23-25=-408/679, 10-13=-433/902

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-27, 27-28, 7-28; Wall dead load (5.0psf) on member(s).3-23, 8-13
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17, 14-15, 13-14
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	C1GE	Piggyback Base Structural Gable I	1	1	T22646442
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:58 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-Cbl2ZoZDak20Dh8sycwSmNG2ksrlzyOYYiq?AizqnuB

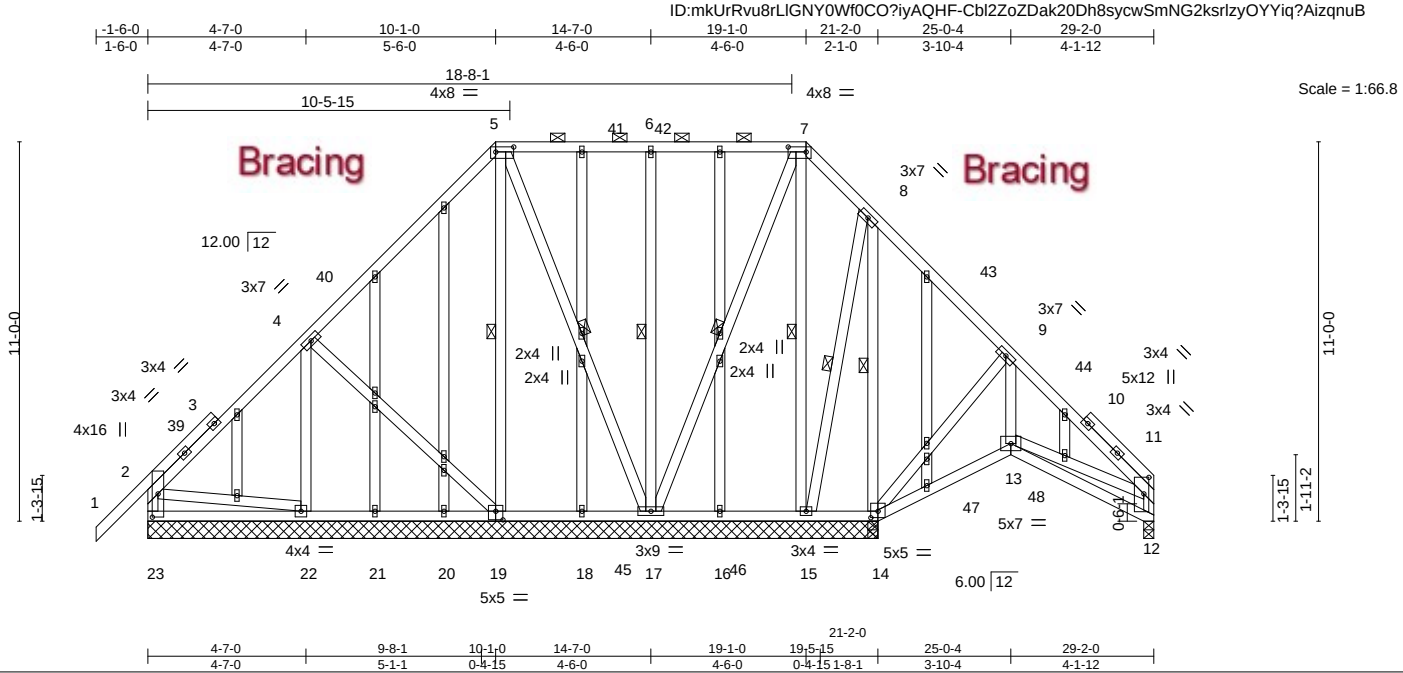


Plate Offsets (X,Y)-- [2:0-8-2,0-2-0], [5:0-6-4,0-1-12], [7:0-6-4,0-1-12], [11:0-5-12,0-1-12], [14:0-2-8,0-2-4], [19:0-2-8,0-3-0]

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)	0.02	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 333 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 22-23,13-14,12-13.
WEBS	1 Row at midpt 5-19, 5-17, 6-17, 7-17, 7-15, 8-15, 8-14

REACTIONS. All bearings 21-2-0 except (jt=length) 12=0-3-8.
(lb) - Max Horz 23=375(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 23, 19, 12, 22, 15 except 14=-272(LC 12), 17=-103(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 12, 18, 20, 21, 16 except 23=315(LC 18), 19=364(LC 17), 14=447(LC 18), 14=401(LC 1), 22=375(LC 17), 17=569(LC 1), 15=309(LC 18)

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

TOP CHORD	2-23=-269/136
BOT CHORD	22-23=-315/352
WEBS	6-17=-314/124, 9-14=-335/185

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=29ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-1-0, Exterior(2R) 10-1-0 to 14-7-0, Interior(1) 14-7-0 to 19-1-0, Exterior(2R) 19-1-0 to 23-3-15, Interior(1) 23-3-15 to 29-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 19, 12, 22, 15 except (jt=lb) 14=272, 17=103.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	C2	Piggyback Base	4	1	T22646443
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:06:59 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-goJQn8arL1Atqrj2WKRhJaoEoG9FiNfhnMaYi8zqnuA

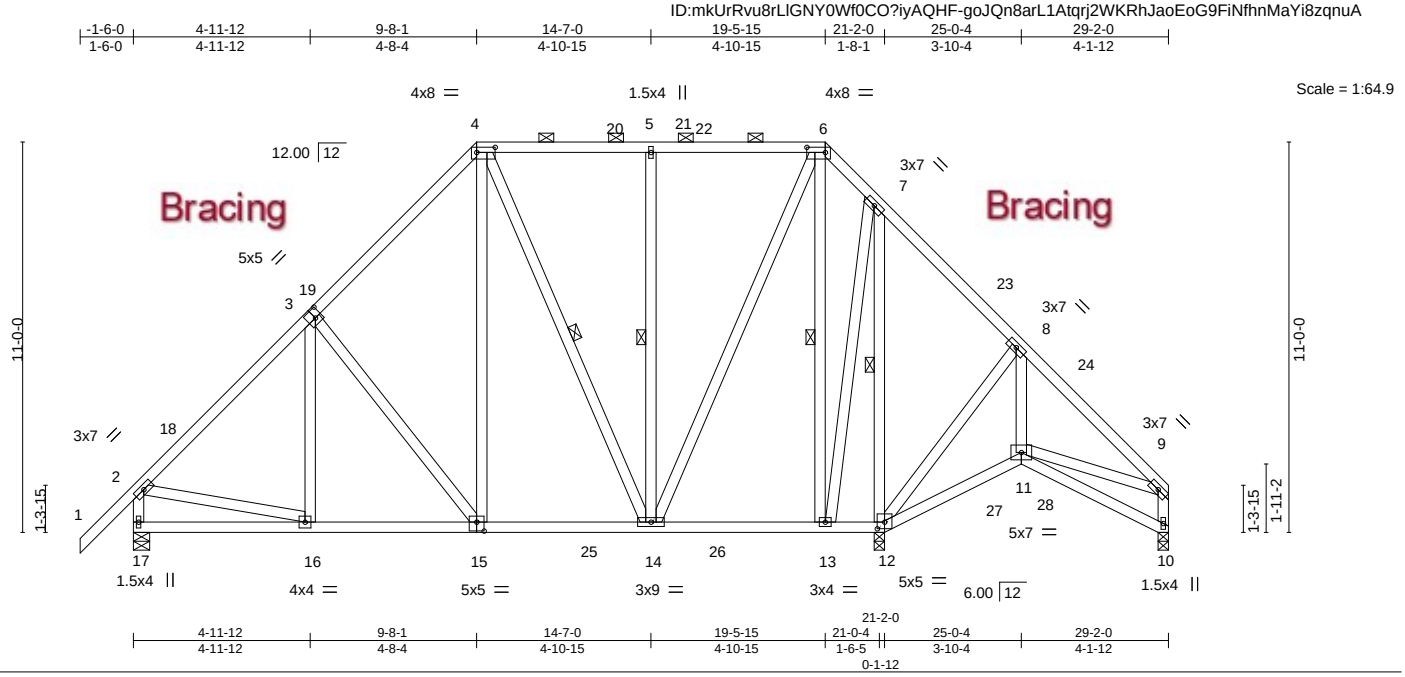


Plate Offsets (X,Y)-- [3:0-2-4,0-3-0], [4:0-6-4,0-1-12], [6:0-6-4,0-1-12], [12:0-2-8,0-2-4], [15:0-2-8,0-3-0]

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	0.32	Vert(LL)	-0.04	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 260 lb	FT = 20%

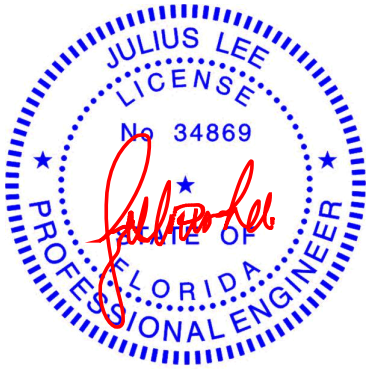
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 5-14, 6-13, 7-12

REACTIONS. (size) 17=0-5-8, 12=0-3-8, 10=0-3-8
Max Horz 17=383(LC 11)
Max Uplift 17=-171(LC 12), 12=-334(LC 12), 10=-93(LC 12)
Max Grav 17=1129(LC 17), 12=1154(LC 2), 10=431(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1038/158, 3-4=-874/256, 4-5=-514/228, 5-6=-514/228, 6-7=-408/250, 8-9=-599/68, 2-17=-1050/223, 9-10=-385/92
BOT CHORD 16-17=-335/405, 15-16=-142/877, 14-15=-64/678, 13-14=-74/318, 11-12=-24/495
WEBS 3-15=-326/208, 4-15=-109/453, 5-14=-344/137, 6-14=-144/704, 6-13=-524/85, 7-13=-28/684, 7-12=-914/155, 8-12=-439/220, 8-11=-63/401, 2-16=0/622, 9-11=-13/378

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=29ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-8-1, Exterior(2R) 9-8-1 to 13-11-0, Interior(1) 13-11-0 to 19-5-15, Exterior(2R) 19-5-15 to 23-8-14, Interior(1) 23-8-14 to 29-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 17=171, 12=334.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646444
BRIAN_PAPKA	C3GIR	Piggyback Base Girder	1	3	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:01 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-dAQACqb5tfRb48sRdlU9O?tZL4gIACR_Eg3fn1zqnu8

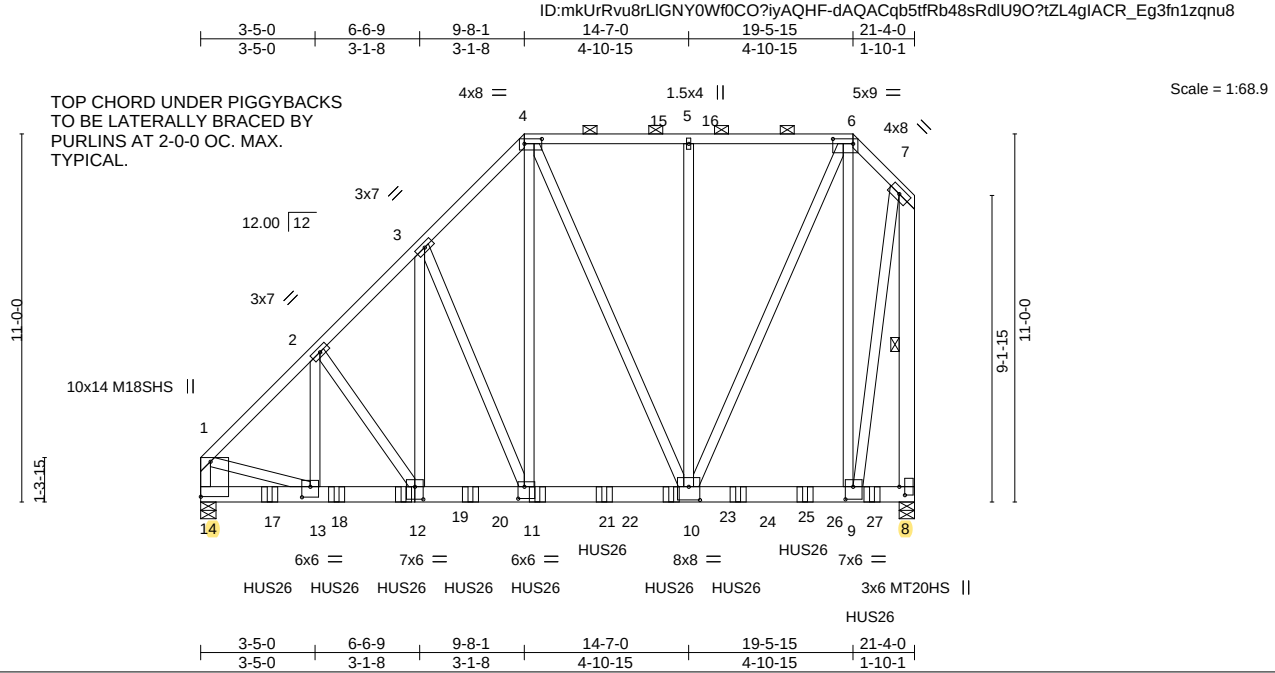


Plate Offsets (X,Y)-- [1:Edge,0-3-8], [4:0-6-4,0-1-12], [6:0-7-4,0-1-12], [8:0-3-0,0-2-0], [9:0-2-12,0-4-8], [10:0-4-0,0-4-12], [11:0-2-4,0-4-4], [12:0-3-0,0-4-8], [13:0-3-0,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.10	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.19	10-11	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.03	8	n/a	n/a	M18SHS	244/190
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 731 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
7-8: 2x6 SP No.2

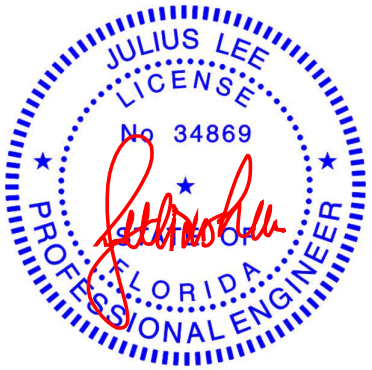
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-8

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=448(LC 31)
Max Uplift 14=-1287(LC 8), 8=-1445(LC 5)
Max Grav 14=9761(LC 2), 8=10477(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-9774/1323, 2-3=-9136/1324, 3-4=-7491/1179, 4-5=-4663/793, 5-6=-4663/793, 6-7=-2436/547, 1-14=-9003/1210, 7-8=-10127/1448
BOT CHORD 13-14=-475/643, 12-13=-1174/6853, 11-12=-1063/6360, 10-11=-887/5320, 9-10=-322/1563
WEBS 2-13=-172/954, 2-12=-760/203, 3-12=-505/3539, 3-11=-2804/529, 4-11=-942/6527, 4-10=-1568/293, 5-10=-345/140, 6-10=-1080/7390, 6-9=-4998/879, 1-13=-819/6724, 7-9=-1212/8382

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 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 C; 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) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1287, 8=1445.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

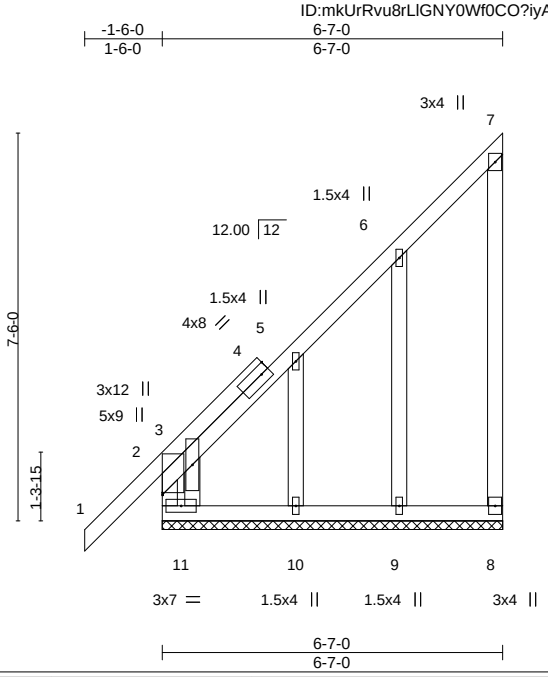
12) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 20-0-12 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-6=-60, 6-7=-60, 8-14=-20
   Concentrated Loads (lb)
   Vert: 11=-1626(F) 17=-1626(F) 18=-1626(F) 19=-1626(F) 20=-1626(F) 21=-1626(F) 23=-1626(F) 24=-1632(F) 26=-1632(F) 27=-1632(F)

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	D1GE	Monopitch Supported Gable	2	1	T22646445
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:02 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-5N_ZPAcjeyZShlRdBS?OxDQivUBYvnc7TKoCJTzqnu7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.01	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-R							Weight: 55 lb	FT = 20%

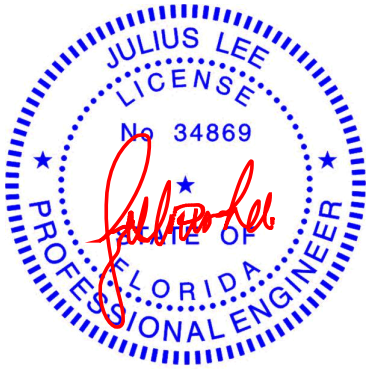
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 6-7-0.
(lb) - Max Horz 11=336(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 11, 9 except 8=-111(LC 11), 10=-187(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10 except 11=359(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-599/343, 3-5=-333/522, 5-6=-222/328
WEBS 5-10=-315/173, 3-11=-546/792

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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) 11, 9 except (jt=lb) 8=111, 10=187.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646446
BRIAN_PAPKA	D2	Scissor	1	1	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:03 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-ZZYxcWdLPGhJJS0qlAWdTQzwbtW9eDaHi_Ymrvzqnu6

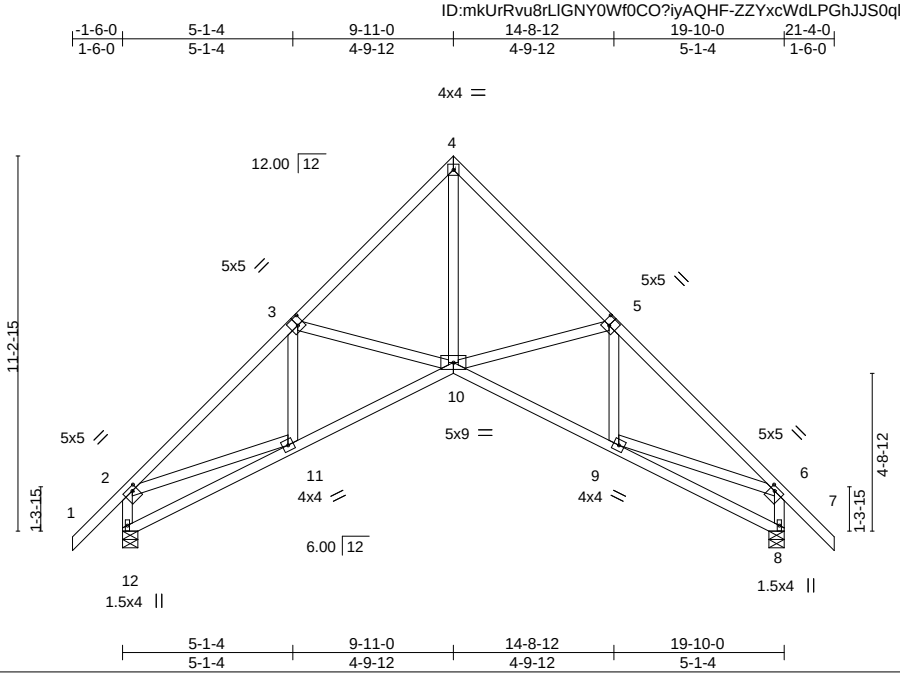


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-2-4,0-3-0], [5:0-2-4,0-3-0], [6:0-1-12,0-1-8]

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	0.26	Vert(LL)	-0.04	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.09	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 133 lb	FT = 20%

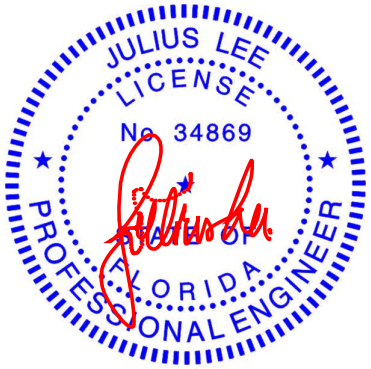
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 12=0-5-8, 8=0-5-8
Max Horz 12=-407(LC 10)
Max Uplift 12=-181(LC 12), 8=-181(LC 12)
Max Grav 12=880(LC 1), 8=880(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1279/56, 3-4=-1022/8, 4-5=-1083/43, 5-6=-1232/56, 2-12=-917/189, 6-8=-859/189
BOT CHORD 11-12=-425/511, 10-11=-118/1213, 9-10=0/970
WEBS 4-10=0/1131, 5-10=-314/223, 3-10=-295/223, 2-11=0/766, 6-9=0/819

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=181, 8=181.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

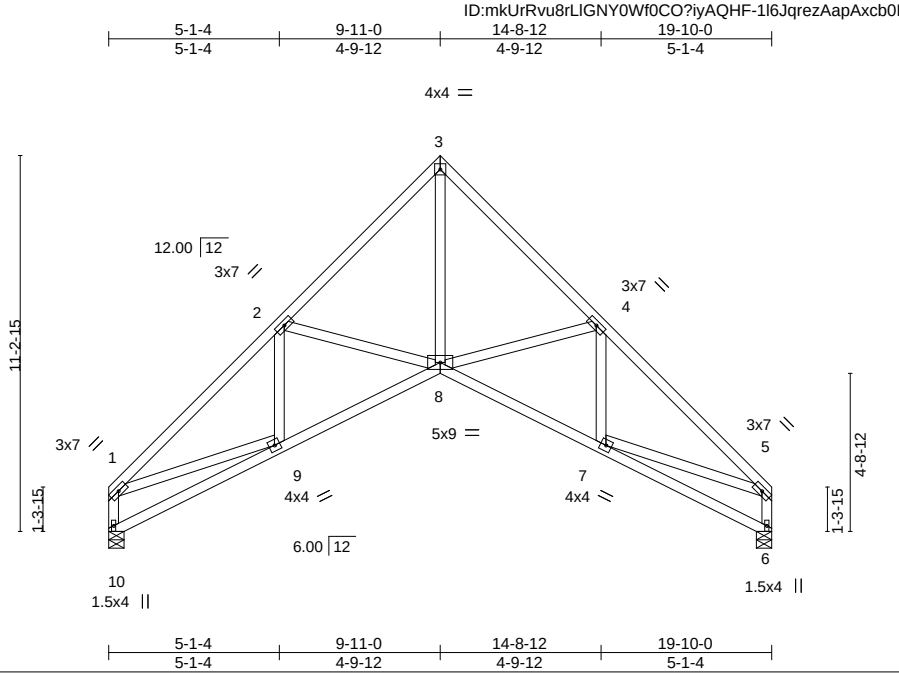
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	D3	Scissor	1	1	T22646447

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:04 2021 Page 1

ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-1l6JqrezAapAxcb0lt1s0eV5vHsMNgjQweHJNLzqnu5



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	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.09	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.11	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 127 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-5-1 oc bracing.

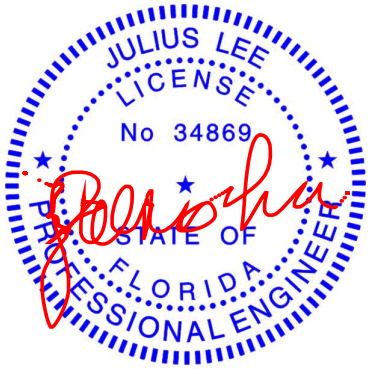
REACTIONS. (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-356(LC 10)
Max Uplift 10=-111(LC 12), 6=-111(LC 12)
Max Grav 10=782(LC 1), 6=782(LC 1)

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

TOP CHORD	1-2=-1279/142, 2-3=-1014/114, 3-4=-1074/114, 4-5=-1259/142, 1-10=-807/145, 5-6=-768/145
BOT CHORD	9-10=-387/463, 8-9=-198/1197, 7-8=0/947
WEBS	3-8=-49/1118, 4-8=-327/218, 2-8=-296/218, 1-9=0/778, 5-7=0/802

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=111, 6=111.



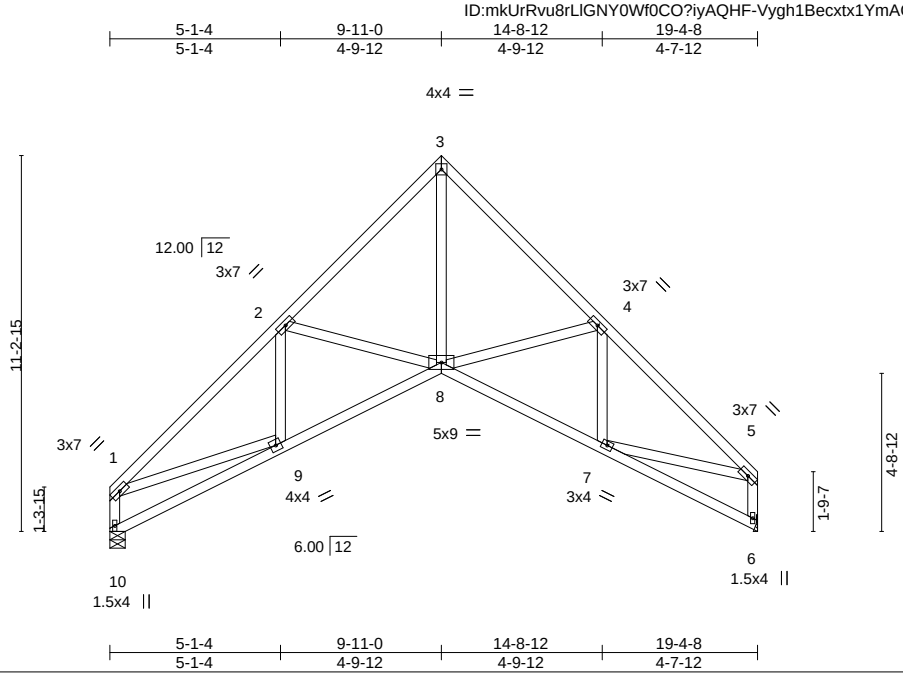
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	D4	Scissor	6	1	T22646448
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:05 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-Vygh1Becxtx1YmACsbY5Yr2GhhCf67Ba9l1twozqnu4



Scale = 1:68.9

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	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=354(LC 11)
Max Uplift 10=-109(LC 12), 6=-109(LC 12)
Max Grav 10=763(LC 1), 6=763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1245/145, 2-3=-973/118, 3-4=-1032/116, 4-5=-1136/138, 1-10=-789/147, 5-6=-743/131
BOT CHORD 9-10=-386/459, 8-9=-213/1167, 7-8=-9/865
WEBS 2-8=-299/217, 3-8=-62/1060, 4-8=-282/208, 1-9=0/753, 5-7=0/730

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=109, 6=109.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	D5	Roof Special	1	1	T22646449
					Job Reference (optional)

Mayo Truss, Mayo, Fl

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 13:04:24 2021 Page 1

ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-9GjNqIWGwIKjEV8nGNVjpP?BmcPZ5hhXKciHBkzqVTL

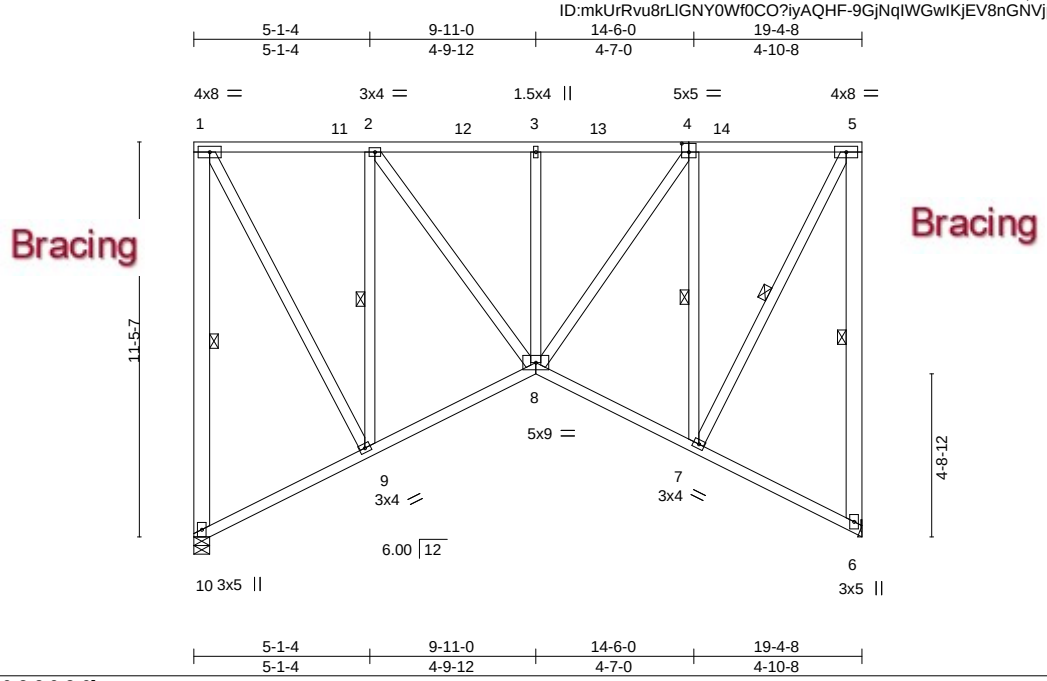


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0]

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	0.54	Vert(LL)	0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.06	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	-0.06	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 198 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 1-10,5-6: 2x6 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 1-10, 5-6, 2-9, 4-7, 5-7

REACTIONS. (lb/size) 10=757/0-5-8, 6=757/Mechanical
Max Horz 10=-464(LC 10)
Max Uplift 10=-256(LC 8), 6=-256(LC 9)
Max Grav 10=773(LC 18), 6=773(LC 17)

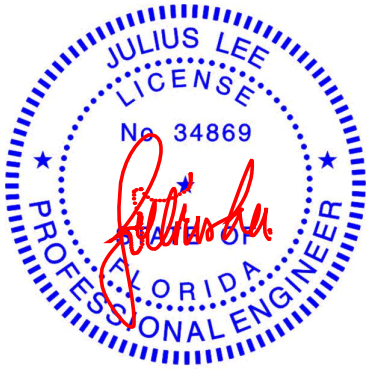
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-715/541, 1-11=-453/439, 2-11=-453/439, 2-12=-655/612, 3-12=-655/612, 3-13=-655/612, 4-13=-655/612, 4-14=-325/237, 5-14=-325/237, 5-6=-745/725
BOT CHORD	9-10=-654/672, 8-9=-787/857, 7-8=-551/619
WEBS	1-9=-419/667, 2-9=-640/485, 2-8=-288/408, 3-8=-263/265, 4-8=-686/739, 4-7=-809/885, 5-7=-705/779

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 10 and 256 lb uplift at joint 6.
9) 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.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	D6	Piggyback Base	1	1	T22646450 Job Reference (optional)

Mayo Truss, Mayo, Fl

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 13:04:06 2021 Page 1

ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-hoeZ28Iz9m3H4kmJCbAV4cG7?MHptYkuBpLKZnzqVTd

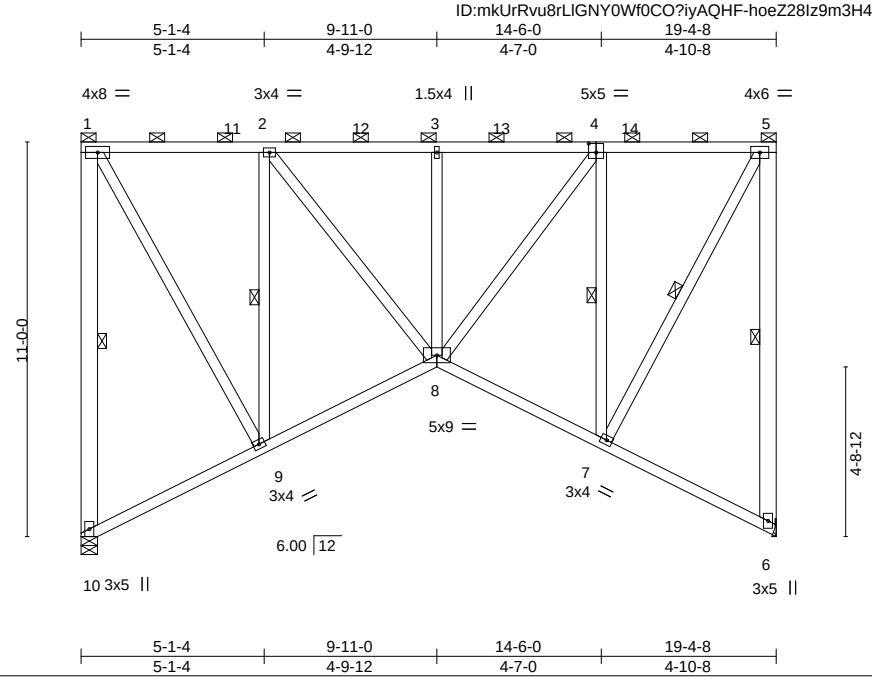


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0]

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)	0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	-0.06	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 192 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 1-10,5-6: 2x6 SP No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 1-10, 5-6, 2-9, 4-7, 5-7

REACTIONS. (lb/size) 10=757/0-5-8, 6=757/Mechanical
Max Horz 10=-445(LC 10)
Max Uplift 10=-245(LC 8), 6=-245(LC 9)
Max Grav 10=765(LC 18), 6=765(LC 17)

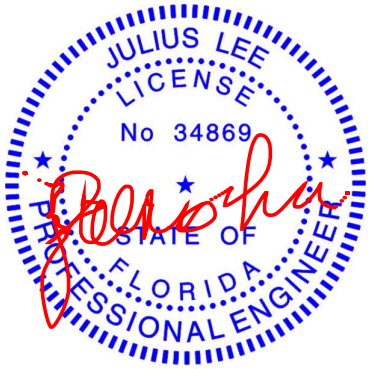
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-10=-715/544, 1-11=-462/445, 2-11=-462/445, 2-12=-692/643, 3-12=-692/643, 3-13=-692/643, 4-13=-692/643, 4-14=-337/241, 5-14=-337/241, 5-6=-737/708
BOT CHORD	9-10=-626/643, 8-9=-783/854, 7-8=-554/622
WEBS	1-9=-435/675, 2-9=-648/508, 2-8=-315/430, 3-8=-263/265, 4-8=-684/739, 4-7=-789/865, 5-7=-689/764

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 10 and 245 lb uplift at joint 6.
9) 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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646451
BRIAN_PAPKA	D7GIR	Piggyback Base Girder	1	2	Job Reference (optional)

Mayo Truss, Mayo, Fl — 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 13:05:21 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-_EgwnnC0VpWeaG?k6r04dRs_xanDyUfwR_0ohwzqVSS

Scale: 3/16"=1'

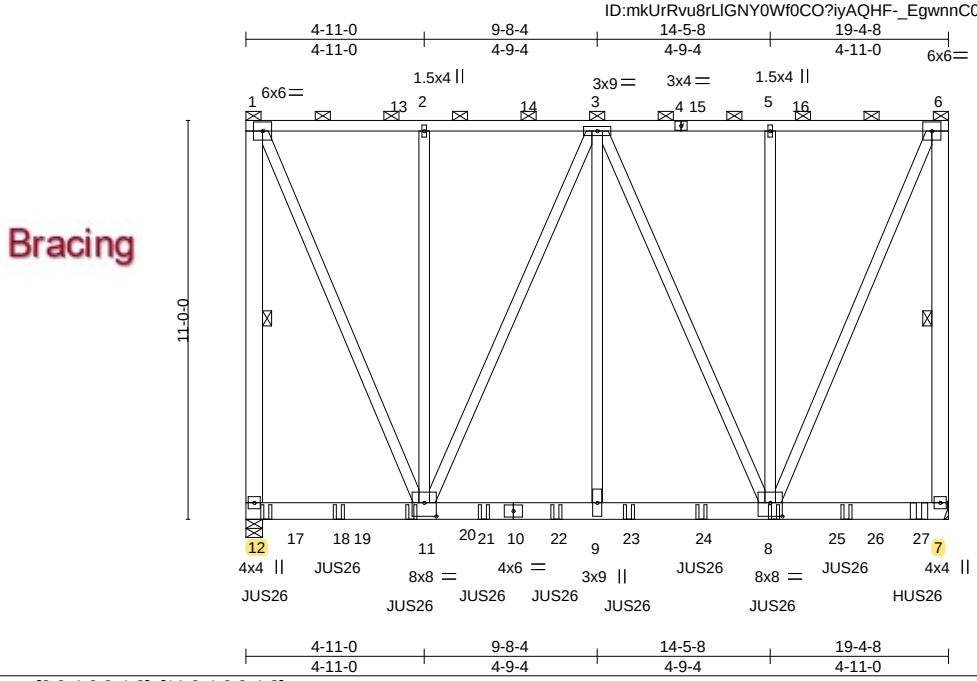


Plate Offsets (X,Y)-- [8:0-4-0,0-4-8], [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.07	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.12	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 468 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
1-12,6-7: 2x6 SP No.2

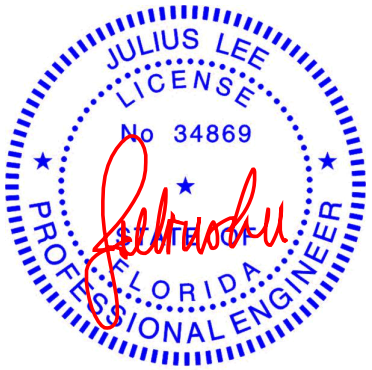
BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-12, 6-7

REACTIONS. (lb/size) 12=4992/0-5-8, 7=5368/Mechanical
Max Uplift 12=-944(LC 4), 7=-1011(LC 5)
Max Grav 12=5505(LC 2), 7=5800(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-4176/752, 1-13=-1818/312, 2-13=-1818/312, 2-14=-1818/312, 3-14=-1818/312, 3-15=-1840/317, 4-15=-1840/317, 4-5=-1840/317, 5-16=-1840/317, 6-16=-1840/317, 6-7=-4218/760
BOT CHORD 11-21=-408/2383, 10-21=-408/2383, 10-22=-408/2383, 9-22=-408/2383, 9-23=-408/2383, 23-24=-408/2383, 8-24=-408/2383
WEBS 1-11=-759/4434, 2-11=-285/146, 3-11=-1379/249, 3-9=-314/2221, 3-8=-1325/238, 5-8=-283/147, 6-8=-768/4479

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 0-7-0 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=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
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, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 944 lb uplift at joint 12 and 1011 lb uplift at joint 7.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-12 from the left end to 16-6-12 to connect truss(es) to front face of bottom chord.
12) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 18-6-12 from the left end to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 8=-830(F) 17=-837(F) 18=-830(F) 20=-830(F) 21=-830(F) 22=-830(F) 23=-830(F) 24=-830(F) 26=-830(F) 27=-1366(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	E1GE	Common Supported Gable	1	1	T22646452
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:09 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-OjvCtZi6_6RS1NTz5Qd1jhD_Yldd2_Y94w?43Zzqnu0

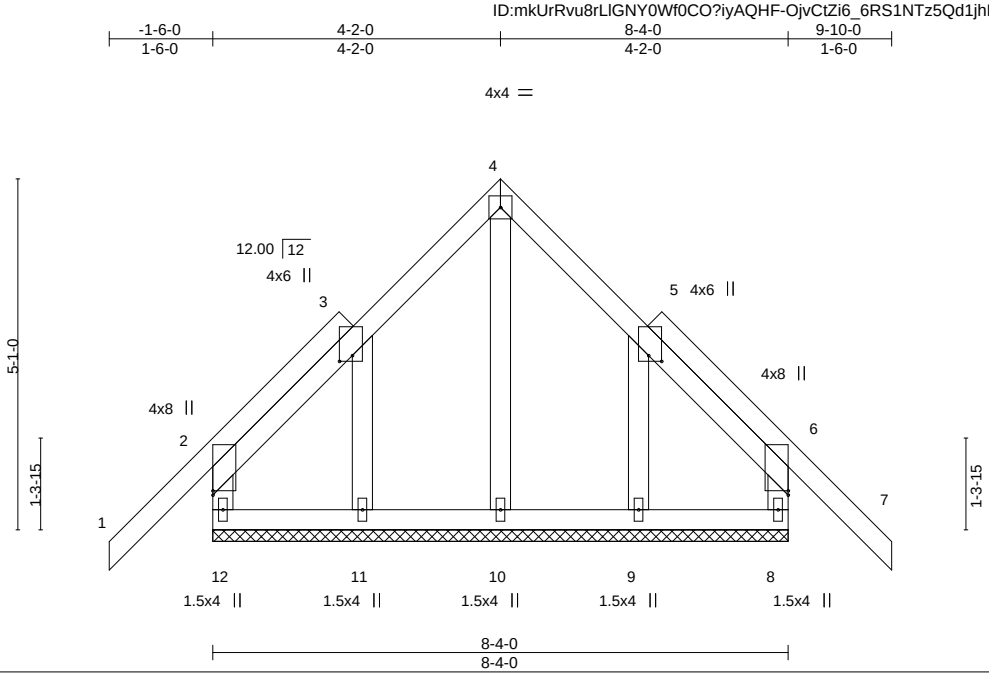


Plate Offsets (X,Y)-- [3:0-1-0,0-2-4], [5:0-1-0,0-2-4]

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	0.17	Vert(LL)	-0.01	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.02	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-R							Weight: 61 lb	FT = 20%

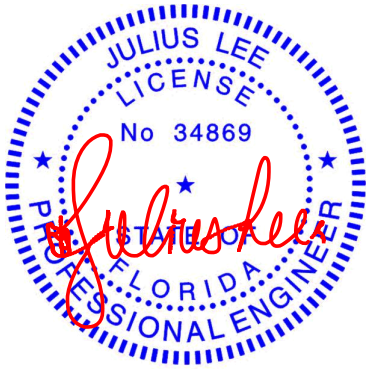
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 8-4-0.
(lb) - Max Horz 12=-199(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11, 9 except 12=-151(LC 12), 8=-151(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 9 except (jt=lb) 12=151, 8=151.



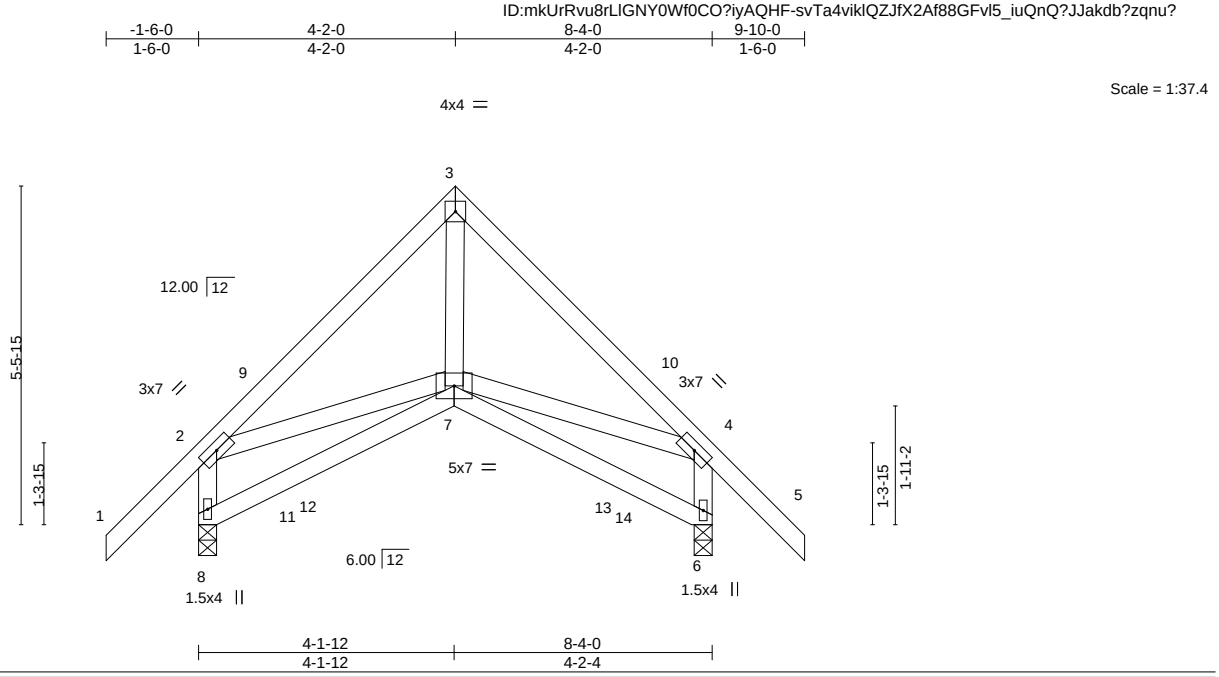
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	E2	Scissor	1	1	T22646453
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:10 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-svTa4viklQZJfX2Af88GFvl5_iuQnQ?JJakdb?zqnu?



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)	0.06	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	0.05	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 58 lb	FT = 20%

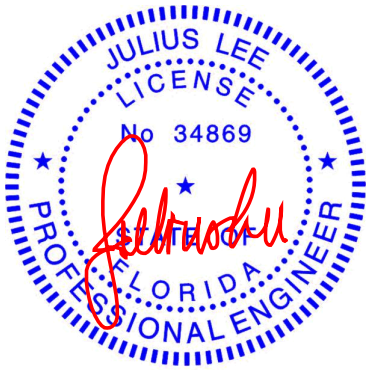
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-225(LC 10)
Max Uplift 8=-218(LC 12), 6=-218(LC 12)
Max Grav 8=420(LC 1), 6=420(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-350/232, 3-4=-358/284, 2-8=-382/394, 4-6=-380/449
BOT CHORD 7-8=-231/274
WEBS 4-7=-131/250

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 9-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=218, 6=218.
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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	F1GE	Common Supported Gable	1	1	T22646454
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:11 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-K51yIFjMWjhAGhdMDrfVo6lJY6JKWsmSXEUB7Rzqnu_

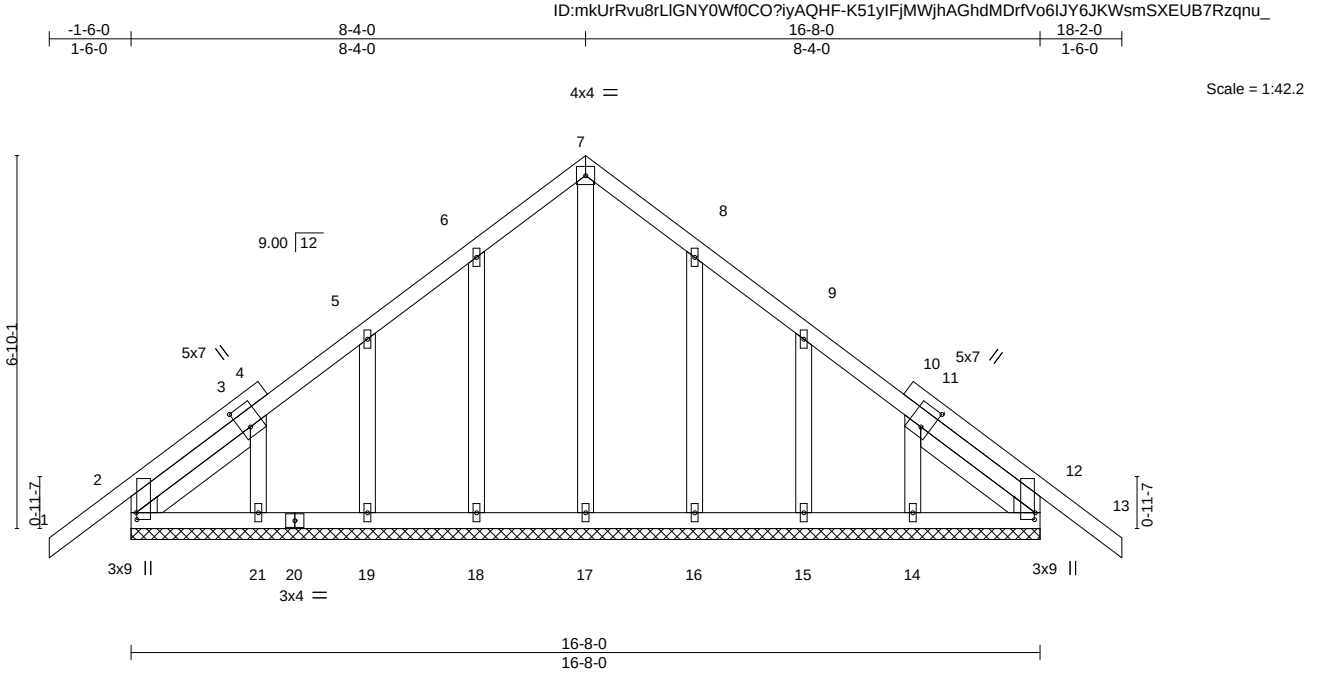


Plate Offsets (X,Y)-- [2:0-1-8,0-0-3], [3:0-5-0,0-2-1], [11:0-5-0,0-2-1], [12:0-1-8,0-0-3]

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	0.14	Vert(LL)	-0.00	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 119 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.3 , Right: 2x4 SP No.3

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 16-8-0.
(lb) - Max Horz 2=-199(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 21, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 21, 16, 15, 14

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=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 21, 16, 15, 14.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

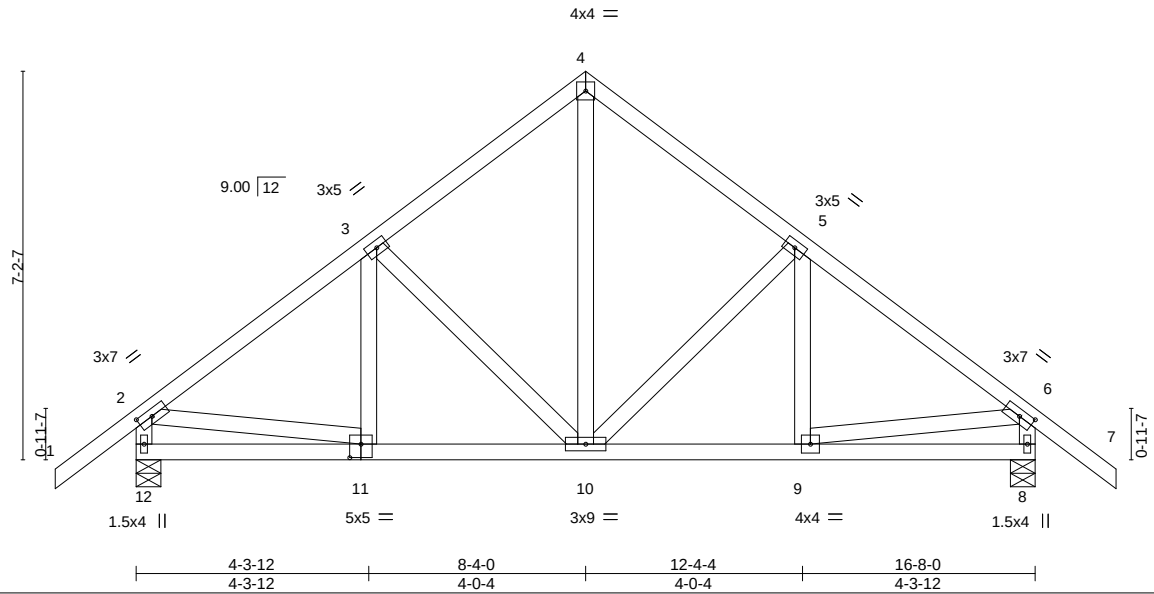
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	F2	Common	3	1	T22646455
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:12 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-oIbKVbk?H1p1uqCYmZAkLKrUkWdGFlGcmuDkfuzqntz

-1-6-0	4-3-12	8-4-0	12-4-4	16-8-0	18-2-0
1-6-0	4-3-12	4-0-4	4-0-4	4-3-12	1-6-0

Scale = 1:42.7



4-3-12	8-4-0	12-4-4	16-8-0
4-3-12	4-0-4	4-0-4	4-3-12

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [6:0-3-4,0-1-8], [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	0.17	Vert(LL)	-0.01	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 111 lb	FT = 20%

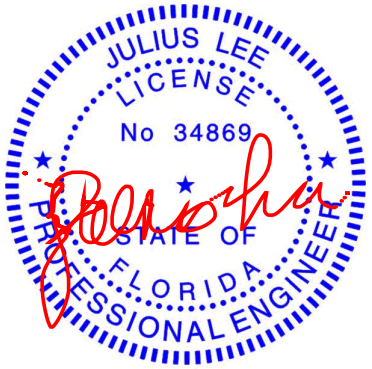
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 12=0-5-8, 8=0-5-8
Max Horz 12=240(LC 11)
Max Uplift 12=-163(LC 12), 8=-163(LC 12)
Max Grav 12=754(LC 1), 8=754(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-740/122, 3-4=-564/168, 4-5=-564/168, 5-6=-742/124, 2-12=-711/184, 6-8=-709/186
BOT CHORD 11-12=-163/269, 10-11=0/612, 9-10=0/532
WEBS 4-10=-95/396, 2-11=-3/475, 6-9=-5/473

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) except (jt=lb) 12=163, 8=163.
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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

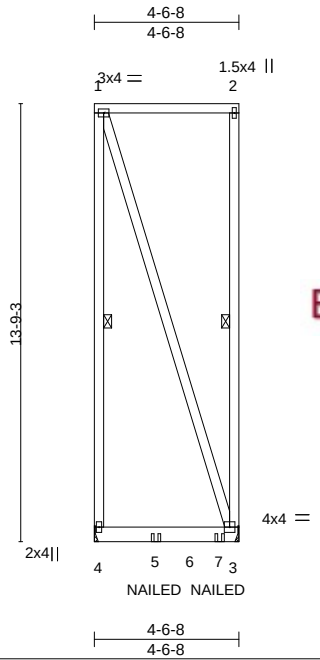
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646456
BRIAN_PAPKA	GIR1	Flat Girder	1	2	Job Reference (optional)

Mayo Truss, Mayo, Fl

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 13:07:27 2021 Page 1

ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-ITHYEtk2qXOlhdeyUJHdk?4Z8NwuTdYTPbXS6dzqVQU



Scale = 1:72.4

Bracing

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	0.18	Vert(LL)	-0.01	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 153 lb	FT = 20%

LUMBER-

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

REACTIONS. (lb/size) 4=229/Mechanical, 3=286/Mechanical
Max Uplift 4=-123(LC 4), 3=-206(LC 4)
Max Grav 4=281(LC 25), 3=344(LC 25)

BRACING-

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

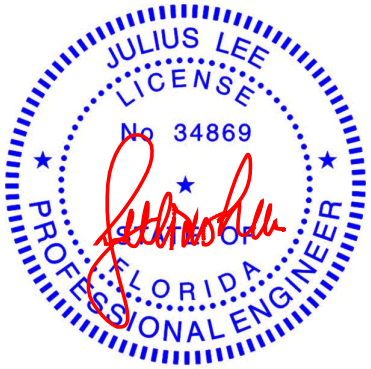
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.
   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=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
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, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 4 and 206 lb uplift at joint 3.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-60, 3-4=-20
   Concentrated Loads (lb)
   Vert: 5=-84(B) 7=-90(B)



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

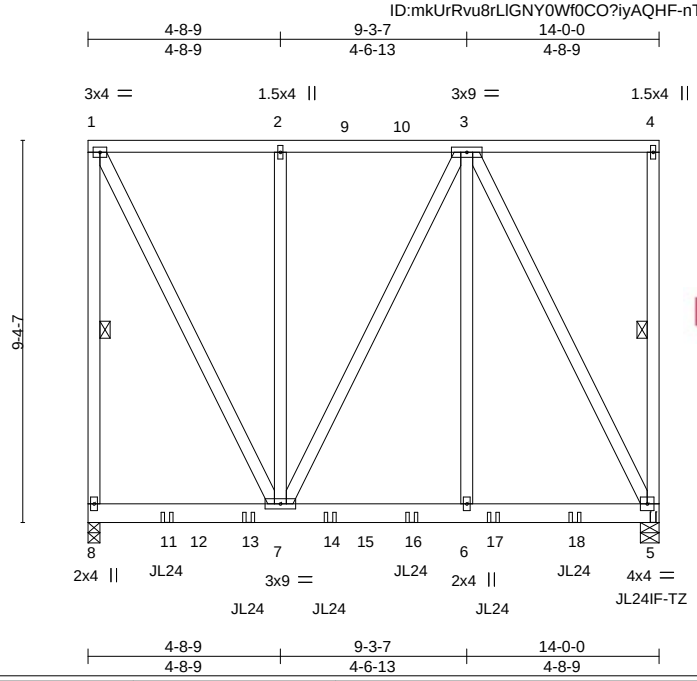
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646457
BRIAN_PAPKA	GIR2	Flat Girder	1	2	Job Reference (optional)

Mayo Truss, Mayo, Fl

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 13:08:19 2021 Page 1

ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-nTQC8fMgaVxNwdcxXECqrzEPzLdgf0Y7Ng7CxczqVPg



Scale = 1:56.5

Bracing

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.03	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 295 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 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 1-8, 4-5

REACTIONS. (lb/size) 8=1526/0-3-8, 5=1796/0-5-8
Max Horz 8=-372(LC 4)
Max Uplift 8=-772(LC 4), 5=-1072(LC 5)
Max Grav 8=1841(LC 26), 5=2291(LC 25)

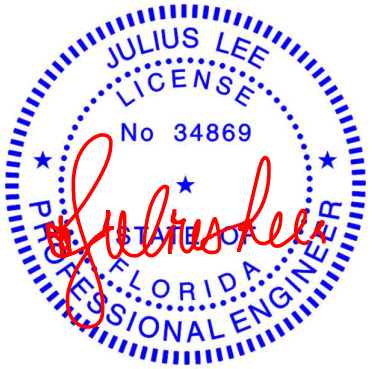
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-8=-1591/722, 1-2=-784/420, 2-9=-784/420, 9-10=-784/420, 3-10=-784/420
BOT CHORD	8-11=-329/286, 11-12=-329/286, 12-13=-329/286, 7-13=-329/286, 7-14=-454/817, 14-15=-454/817, 15-16=-454/817, 6-16=-454/817, 6-17=-454/817, 17-18=-454/817, 5-18=-454/817
WEBS	1-7=-770/1677, 2-7=-290/159, 3-6=-550/1272, 3-5=-1717/803

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.
   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=24ft; eave=4ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 772 lb uplift at joint 8 and 1072 lb uplift at joint 5.
9) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 11-11-4 to connect truss(es) to front face of bottom chord.
10) Use USP JL24IF-TZ (With 4-10d HDG nails into Girder & 2-10d x 1-1/2 HDG nails into Truss) or equivalent at 13-10-4 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

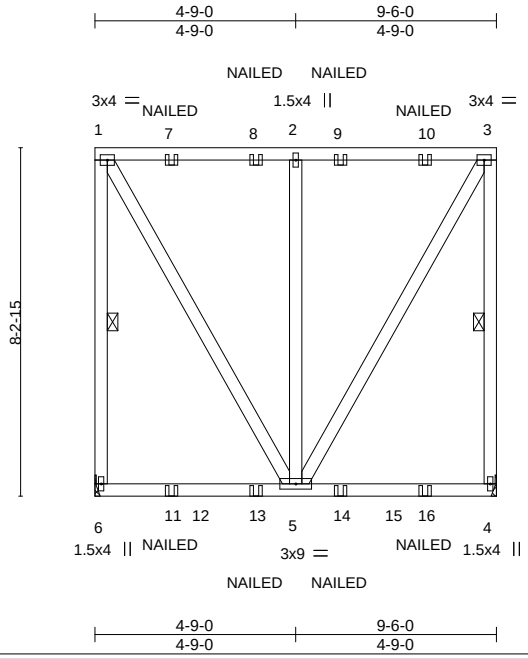
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 5-8=-20
   Concentrated Loads (lb)
   Vert: 5=-284(F) 11=-318(F) 13=-325(F) 14=-325(F) 16=-325(F) 17=-325(F) 18=-325(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	GIR3	Flat Girder	1	2	T22646458

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:15 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-CtGT8cmtayBcIlx7ShkRyyTzLjewSfL2SsSOFDzqntw



Scale = 1:54.5

Bracing

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 177 lb	FT = 20%

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

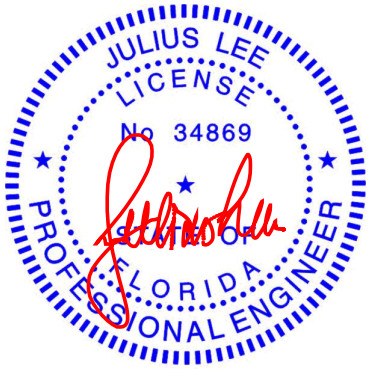
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-329(LC 4)
Max Uplift 6=-642(LC 4), 4=-654(LC 5)
Max Grav 6=966(LC 26), 4=978(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-830/618, 1-2=-357/314, 2-3=-357/314, 3-4=-838/627
BOT CHORD 5-6=-297/261
WEBS 1-5=-552/746, 2-5=-699/600, 3-5=-552/746

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.
Bottom chords connected as follows: 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=24ft; eave=4ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
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) 6=642, 4=654.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 29,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

Concentrated Loads (lb)

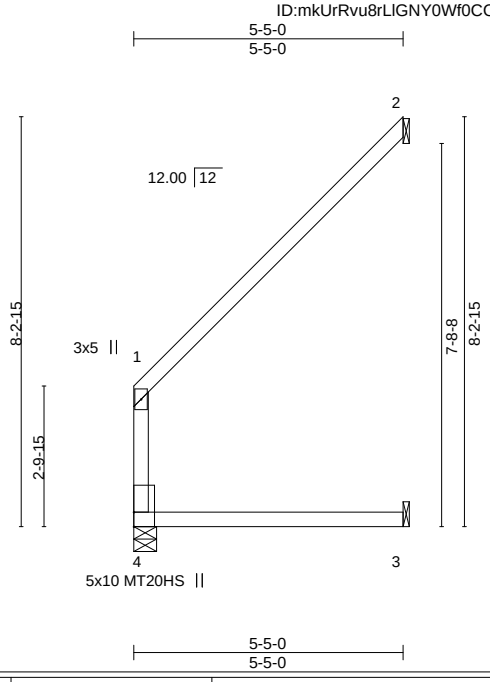
Vert: 7=-88(F) 8=-88(F) 9=-88(F) 10=-88(F) 11=-40(F) 13=-40(F) 14=-40(F) 16=-40(F)

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	J01	Jack-Open	4	1	T22646459

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:15 2021 Page 1

ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-CtGT8cmtayBcIlx7ShkRyyTsHjVPSh?2SsSOFDzqntw



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	0.15	3-4	>416	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.15	3-4	>429	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.53	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

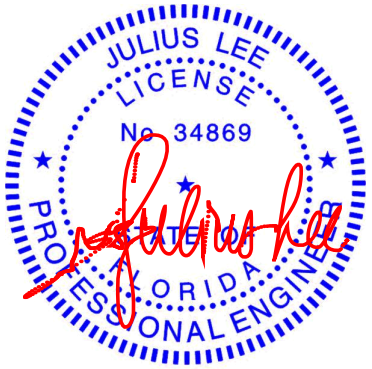
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 4=0-5-8, 2=Mechanical, 3=Mechanical
Max Horz 4=260(LC 12)
Max Uplift 2=-193(LC 12), 3=-41(LC 12)
Max Grav 4=211(LC 18), 2=217(LC 17), 3=101(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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) All plates are MT20 plates unless otherwise indicated.
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) 3 except (jt=lb) 2=193.
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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

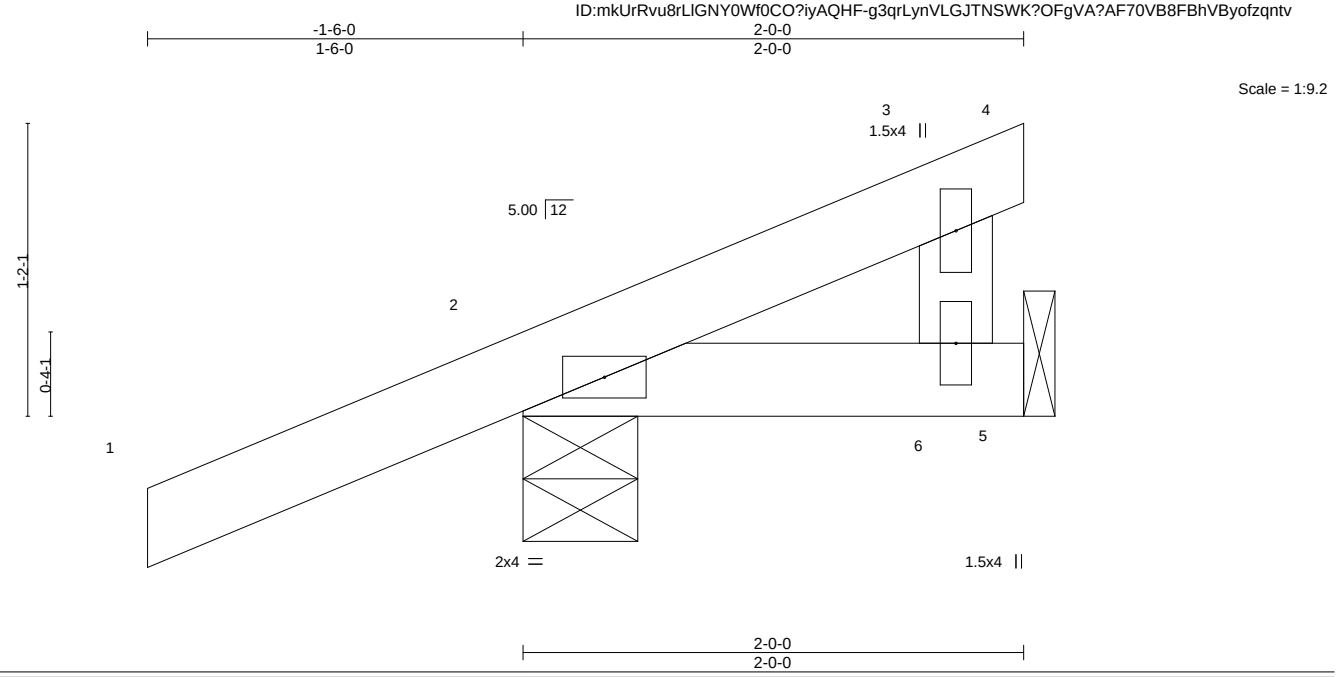
January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	J02	Jack-Closed	7	1	T22646460

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:16 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-g3qrLynVLGJTNSWK?OFgVA?AF70VB8FBhVByofzqntv



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	0.14	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 10 lb	FT = 20%

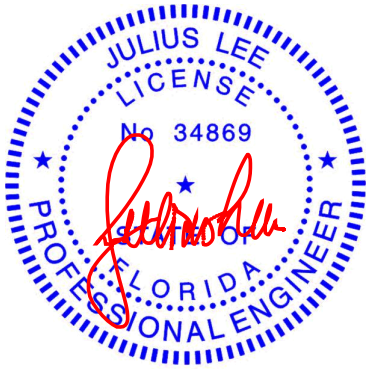
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-5-8, 5=Mechanical
Max Horz 2=47(LC 11)
Max Uplift 2=-101(LC 12), 5=-2(LC 9)
Max Grav 2=203(LC 1), 5=49(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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 5 except (jt=lb) 2=101.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	K1	Jack-Closed	1	1	T22646461
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:17 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-9FODYIo76ZSK?c5WZ6mv2NYB5XKOwWQLw9xVK5zqntu

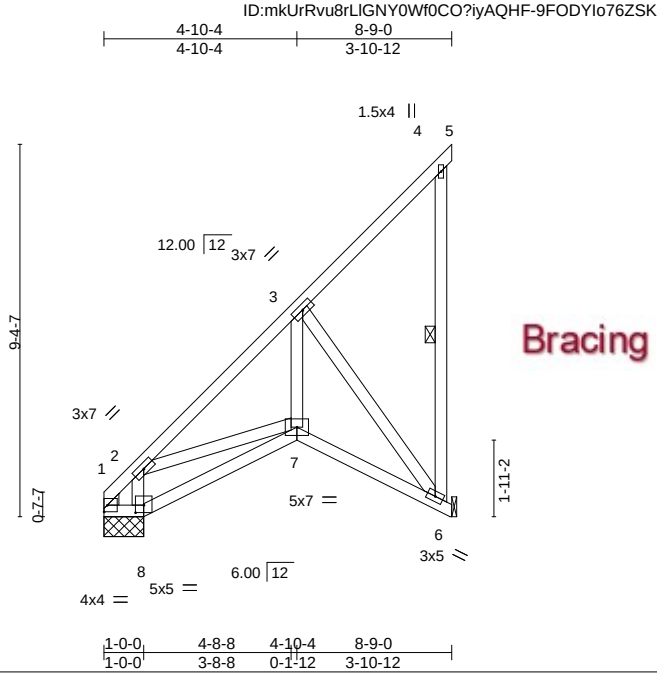


Plate Offsets (X,Y)-- [8:0-2-8,0-2-4]

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	0.77	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 67 lb	FT = 20%

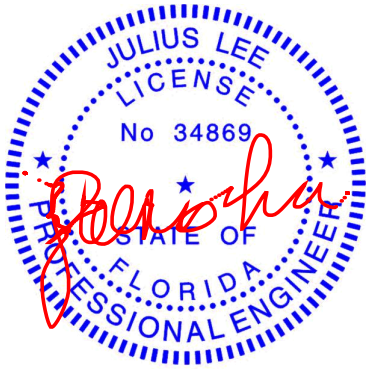
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-6: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 8=1-0-0, 1=1-0-0, 6=Mechanical, 1=1-0-0
Max Horz 1=388(LC 11)
Max Uplift 8=-195(LC 9), 1=-265(LC 10), 6=-193(LC 9), 1=-48(LC 1)
Max Grav 8=548(LC 17), 1=370(LC 9), 6=396(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-419/598, 2-3=-381/69, 3-4=-260/272, 4-6=-254/150
BOT CHORD 6-7=-241/503
WEBS 3-7=-132/409, 3-6=-513/217, 2-8=-560/255, 2-7=-111/361

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) except (jt=lb) 8=195, 1=265, 6=193, 1=265.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	K2	Jack-Closed	5	1	T22646462
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:18 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-dSycmeplttaBclfi7pH8ab5Mrwf4fyKU8pg3sXzqntt

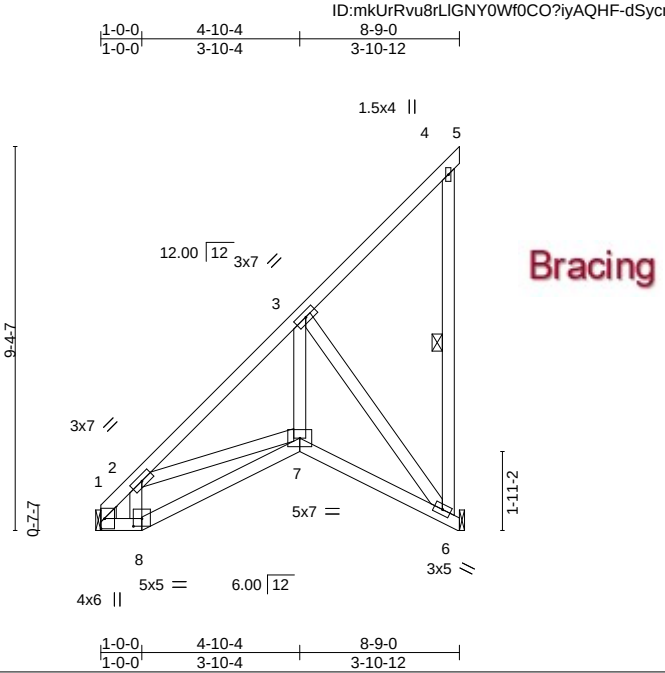


Plate Offsets (X,Y)-- [8:0-2-8,0-2-4]

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	0.77	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.04	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 67 lb	FT = 20%

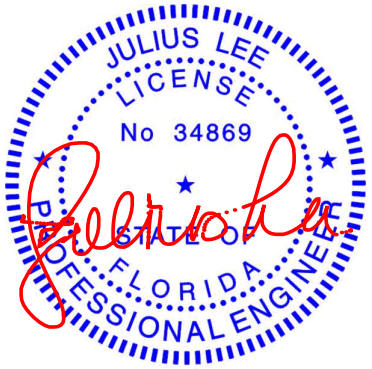
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
4-6: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.2

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.
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 1=Mechanical, 6=Mechanical
Max Horz 1=388(LC 11)
Max Uplift 1=-22(LC 13), 6=-216(LC 9)
Max Grav 1=412(LC 18), 6=461(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-461/133, 2-3=-432/31, 3-4=-260/272, 4-6=-253/150
BOT CHORD 1-8=-260/540, 7-8=-279/584, 6-7=-270/592
WEBS 3-7=-193/592, 3-6=-648/262

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 1 except (jt=lb) 6=216.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 29,2021

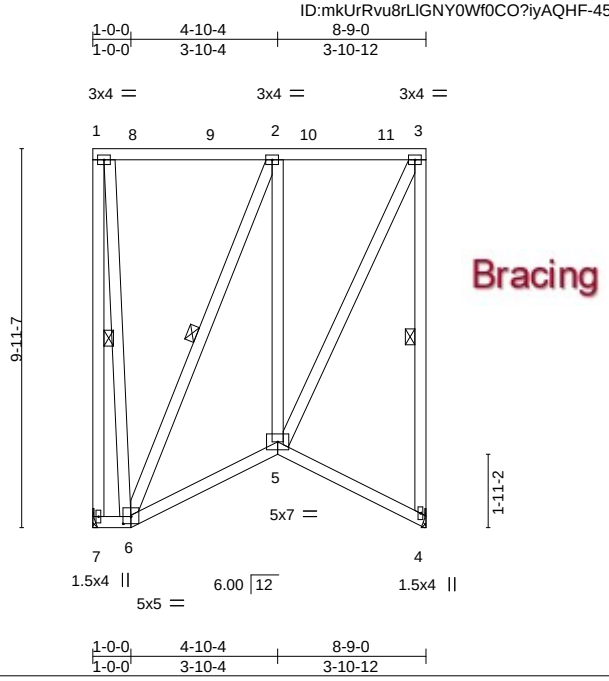
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	K3	Roof Special	1	1	T22646463
					Job Reference (optional)

Mayo Truss, Mayo, Fl

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 29 13:08:44 2021 Page 1

ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-45tHBsfjwtyzpJRYxGeSp1EW60qHHwHfuPyUnCzqVPI



Scale = 1:60.5

Bracing

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

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	0.30	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 108 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 1-7, 3-4, 2-6

REACTIONS. (lb/size) 7=338/Mechanical, 4=338/Mechanical
Max Uplift 7=-61(LC 8), 4=-61(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-330/339, 3-4=-301/357
WEBS 3-5=-254/249, 2-6=-242/262

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 5-7-4, Corner(3) 5-7-4 to 8-7-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 7 and 61 lb uplift at joint 4.
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.

LOAD CASE(S) Standard

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	M01	Piggyback Base	1	1	T22646464
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:19 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-5eW_z_pOeBi2EvEuhXoO7ode4KyzOJcdNTQcO_zqnts

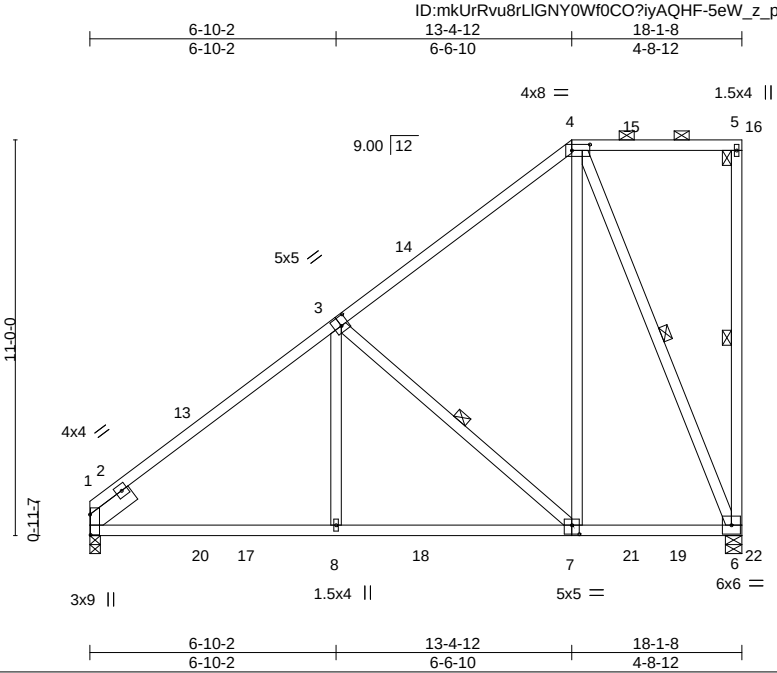


Plate Offsets (X,Y)-- [1:0-6-13,0-0-3], [3:0-2-8,0-3-0], [4:0-6-0,0-2-0], [7:0-2-8,0-3-0]

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	0.36	Vert(LL)	0.10	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	-0.03	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 131 lb	FT = 20%

LUMBER-

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

BRACING-

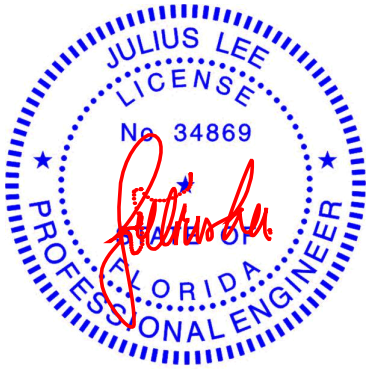
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-6, 3-7, 4-6

REACTIONS. (size) 6=0-5-8, 1=0-3-8
Max Horz 1=357(LC 12)
Max Uplift 6=-444(LC 12), 1=-219(LC 12)
Max Grav 6=836(LC 20), 1=822(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-929/362, 3-4=-465/170
BOT CHORD 1-8=-533/682, 7-8=-530/679, 6-7=-195/289
WEBS 3-8=-248/348, 3-7=-536/457, 4-7=-390/594, 4-6=-723/494

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-4-12, Exterior(2R) 13-4-12 to 17-7-11, Interior(1) 17-7-11 to 17-11-12 zone; cantilever left and right exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) except (jt=lb) 6=444, 1=219.
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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

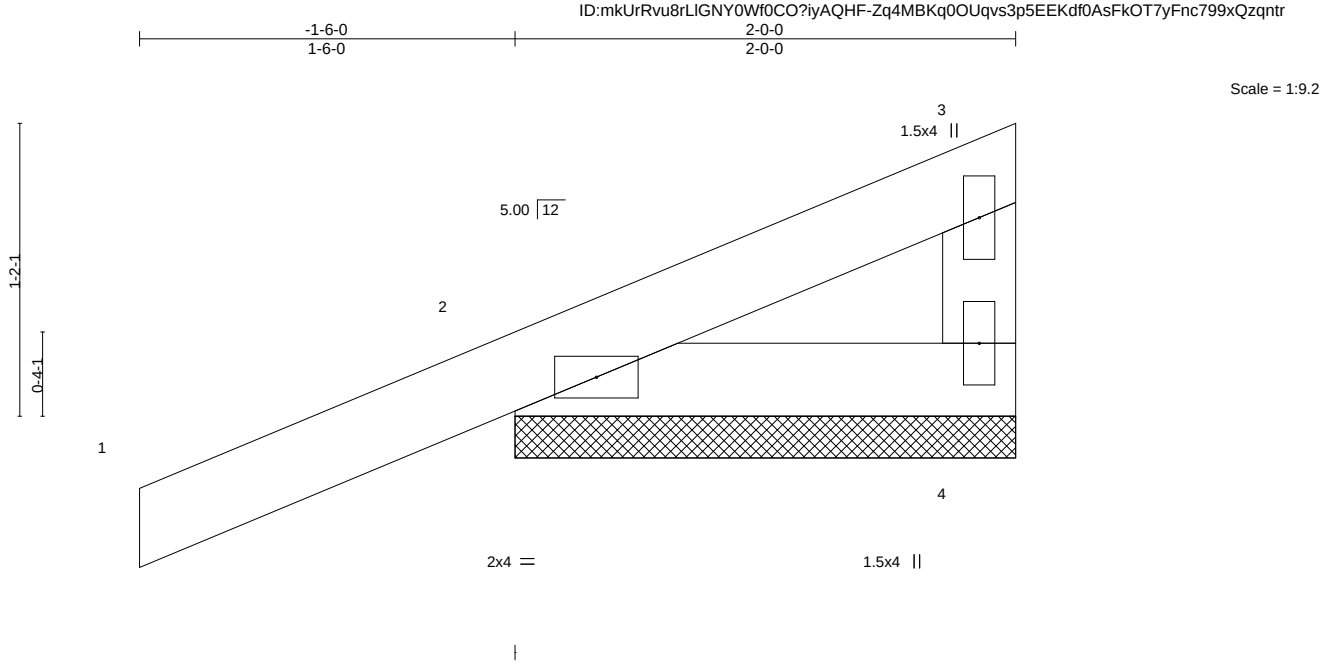
January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	M04	Monopitch Supported Gable	2	1	T22646465

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:20 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-Zq4MBKq0OUqvs3p5EEKdf0AsFkOT7yFnc799xQzqntr



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	0.14	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

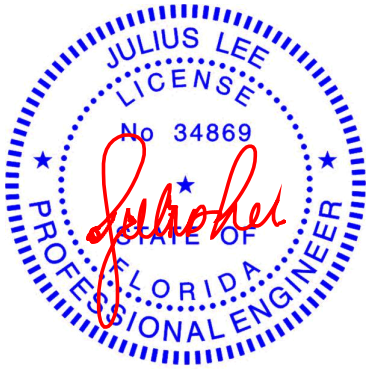
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 4=2-0-0, 2=2-0-0
Max Horz 2=47(LC 9)
Max Uplift 4=-3(LC 9), 2=-103(LC 12)
Max Grav 4=43(LC 3), 2=201(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=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=103.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

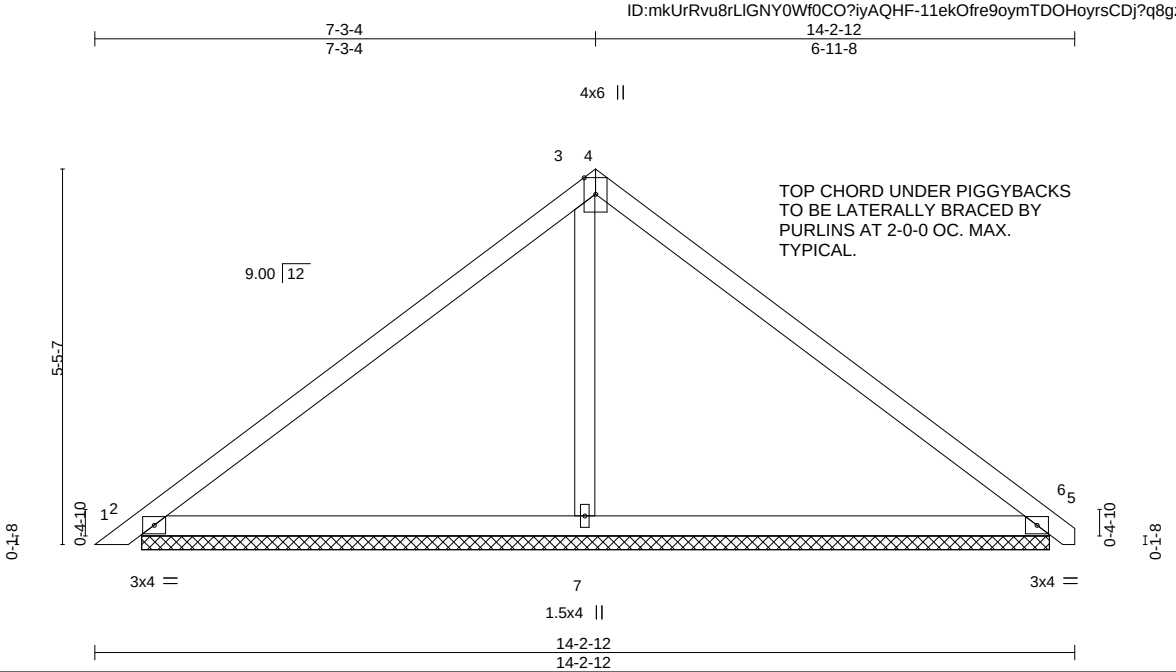
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB01	Piggyback	1	2	T22646466

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:21 2021 Page 1

ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-11ekOfre9oymTDOHoyrsCDj?q8gzsPgwrnvjTszqntq



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.01	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	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: 106 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 2=13-2-3, 5=13-2-3, 7=13-2-3
Max Horz 2=149(LC 11)
Max Uplift 2=-33(LC 8), 5=-43(LC 8), 7=-143(LC 12)
Max Grav 2=263(LC 18), 5=321(LC 22), 7=766(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-264/302, 4-5=-264/237
WEBS 3-7=-572/203

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.
   Bottom chords 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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
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) Gable requires continuous bottom chord bearing.
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, 5 except (jt=lb) 7=143.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

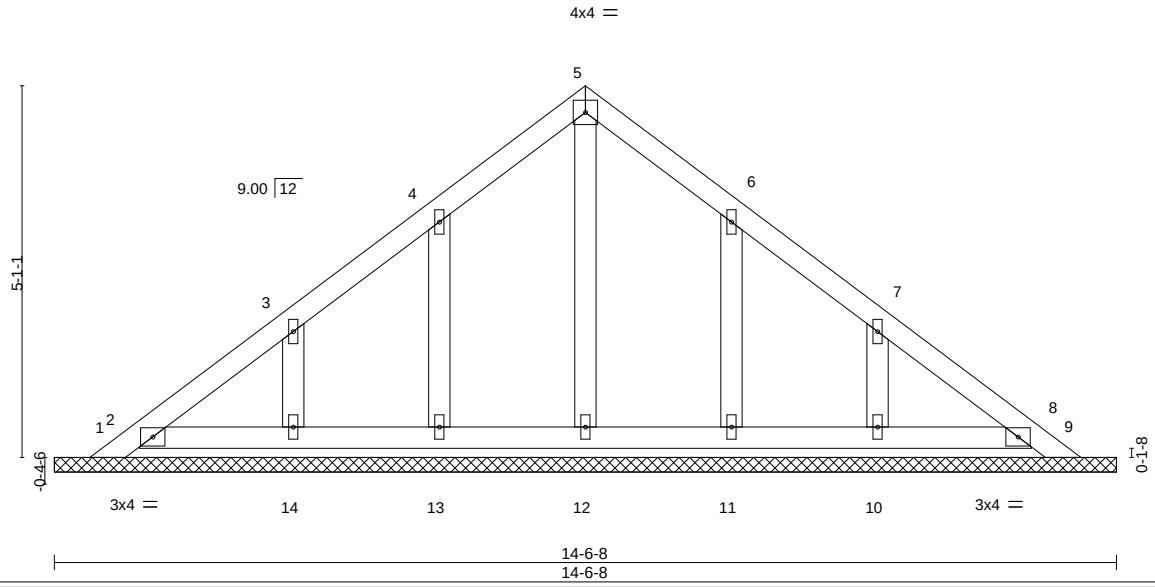
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB01GE	Piggyback	2	1	T22646467
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:22 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-VDC6c?sGw64c5NzTMfM5lRFE?Y3_bsE43ReG?Jzqntp

7-3-4 14-6-8
7-3-4 7-3-4

Scale = 1:31.5



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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 63 lb	FT = 20%

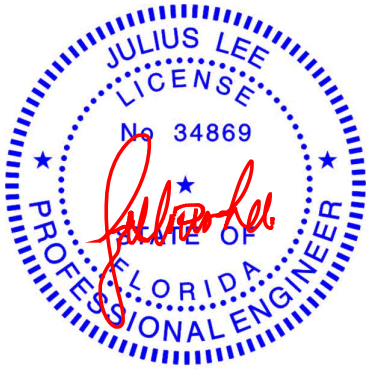
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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 14-6-8.
(lb) - Max Horz 1=-140(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 8, 13, 14, 11, 10 except 1=-109(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 8, 13, 14, 11, 10 except (jt=lb) 1=109.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

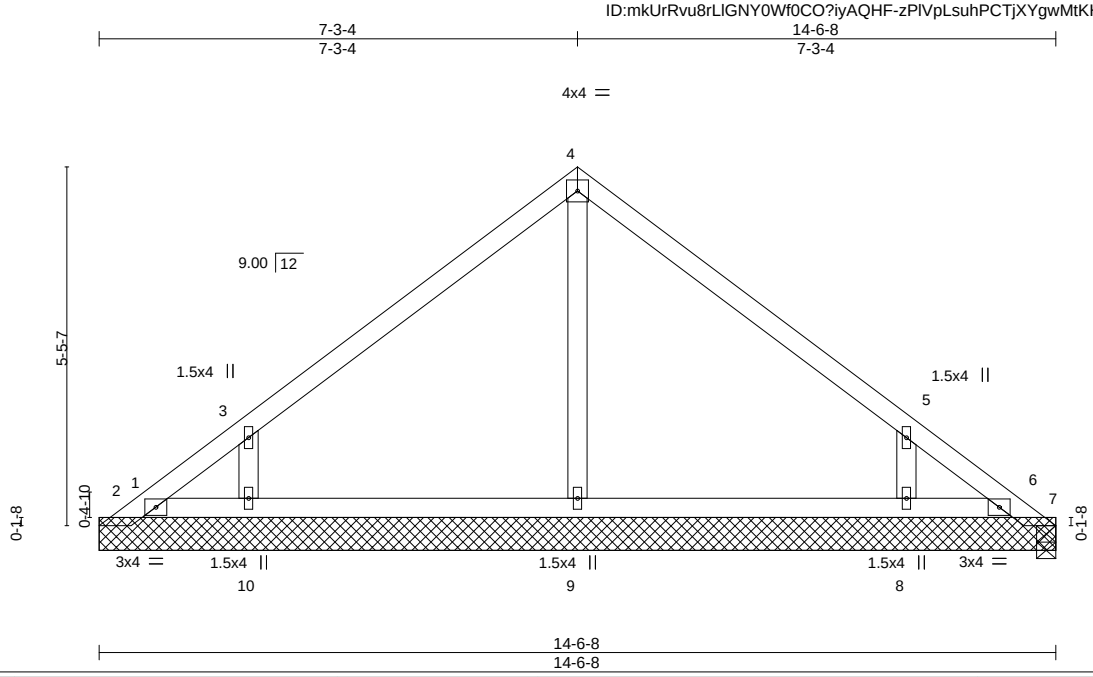
January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB02	Piggyback	19	1	T22646468

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:23 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-zPlVpLsuhPCTjXYgwMtKHeoLHxNnKIaDI5OpXlzqnto



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.01	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

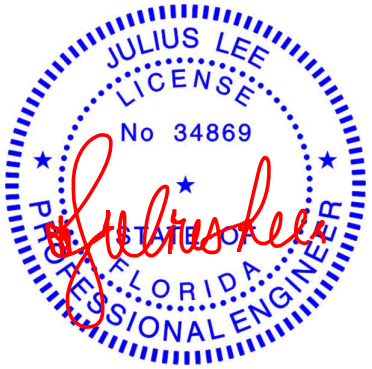
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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 14-6-8.
(lb) - Max Horz 1=151(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2 except 6=-107(LC 11), 8=-166(LC 12), 10=-167(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 7, 2, 6 except 9=317(LC 1), 8=440(LC 18), 10=444(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=-360/221, 3-10=-363/221

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 1, 7, 2 except (jt=lb) 6=107, 8=166, 10=167.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



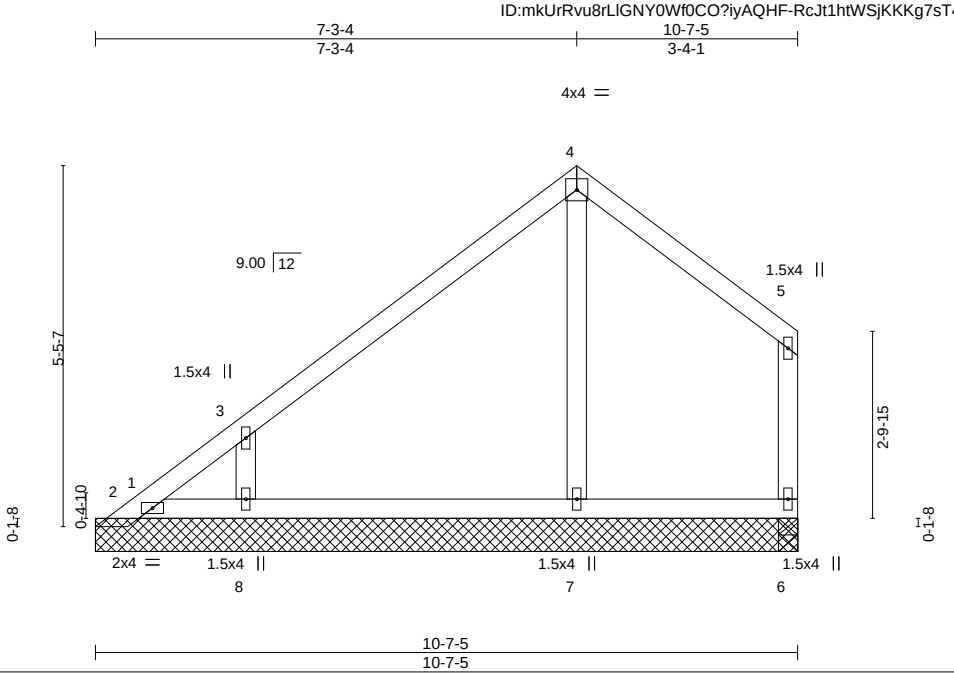
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB03	Piggyback	2	1	T22646469
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:24 2021 Page 1
ID:mkUrRvu8rLIGNY0Wf0CO?iyAQHF-RcJt1htWSjKKKg7sT4OZqsKWuLjg3lUNXl7N4Bzqntn



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)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 47 lb	FT = 20%

LUMBER-

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

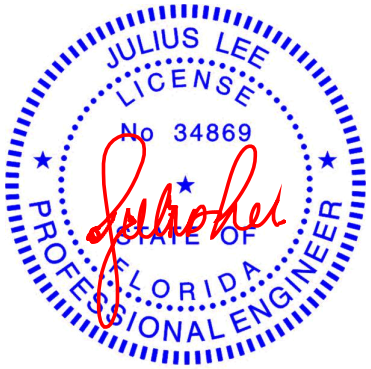
BRACING-

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

REACTIONS. All bearings 10-7-5.
(lb) - Max Horz 1=188(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 2=-143(LC 17), 8=-169(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 6, 2 except 7=355(LC 17), 8=455(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-264/75, 3-8=-374/228

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7 except (jt=lb) 2=143, 8=169.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

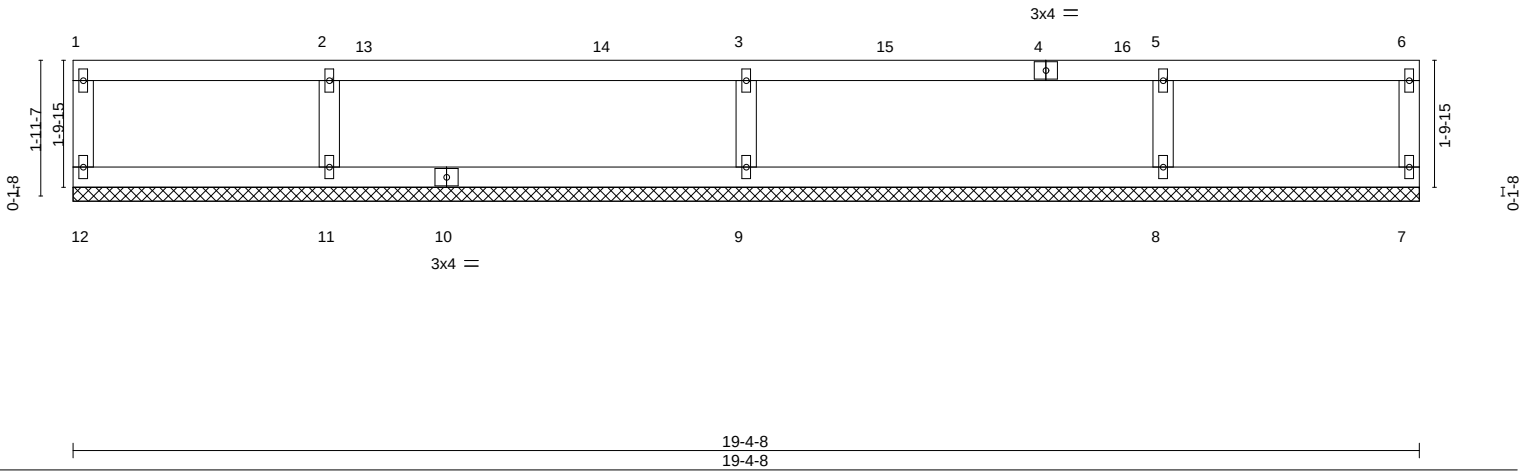
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB04	Piggyback	1	1	T22646470
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:25 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-wotFE1u8D1SByqi21nvoM3tgCl11oCSWlPtwcezqntm

19-4-8
19-4-8

Scale = 1:33.2



19-4-8
19-4-8

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	n/a	-	n/a	999		
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-R							Weight: 67 lb	FT = 20%

LUMBER-

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

BRACING-

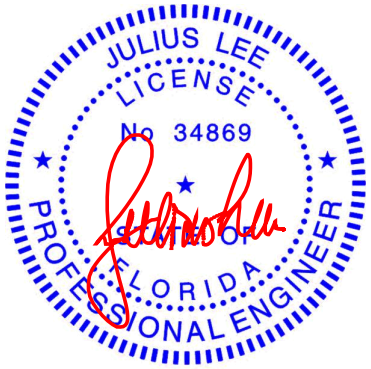
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-4-8.
(lb) - Max Horz 12=-64(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12, 7, 9, 11, 8
Max Grav All reactions 250 lb or less at joint(s) 12, 7 except 9=507(LC 1), 11=417(LC 1), 8=417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-9=-380/375, 2-11=-313/315, 5-8=-313/314

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 9, 11, 8.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB05	Piggyback	2	2	T22646471

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:25 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-wotFE1u8D1SByqi21nvoM3tlcl5yoDRWlPtwcezqntm

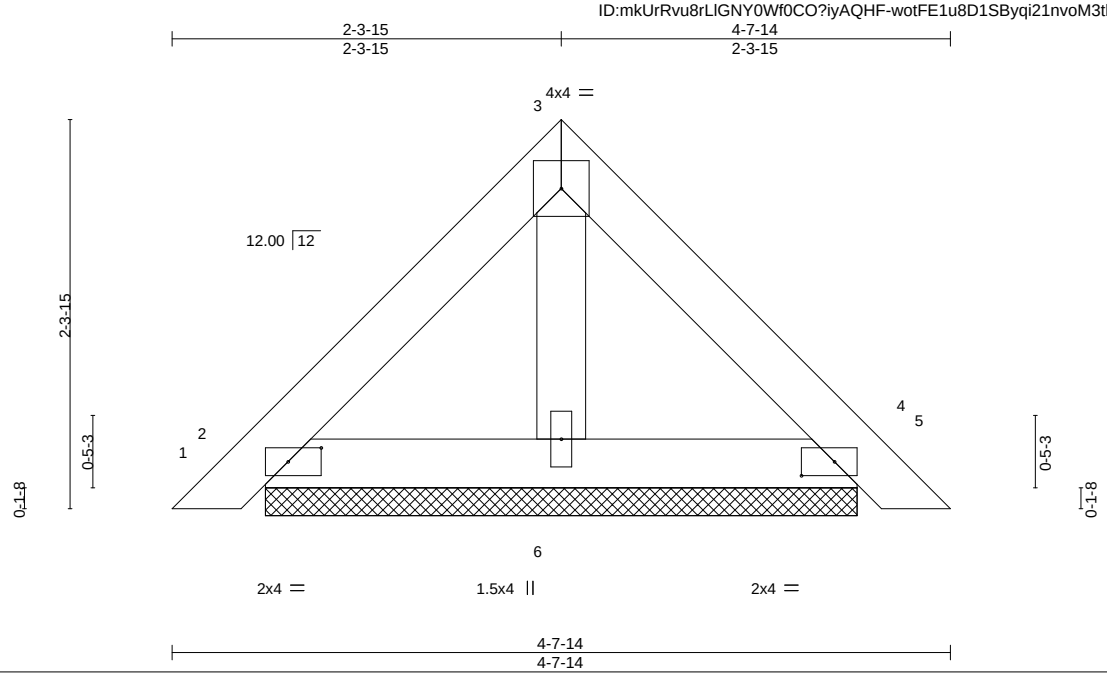


Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 35 lb	FT = 20%

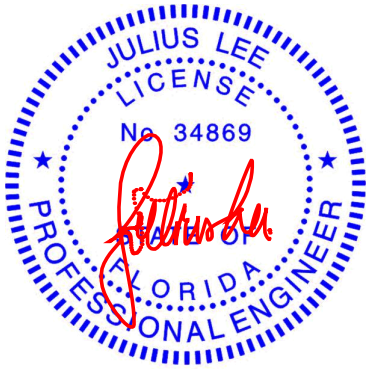
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-6-8, 4=3-6-8, 6=3-6-8
Max Horz 2=66(LC 11)
Max Uplift 2=-44(LC 12), 4=-44(LC 12)
Max Grav 2=108(LC 1), 4=108(LC 1), 6=111(LC 3)

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

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.
Bottom chords 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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
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) Gable requires continuous bottom chord bearing.
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, 4.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



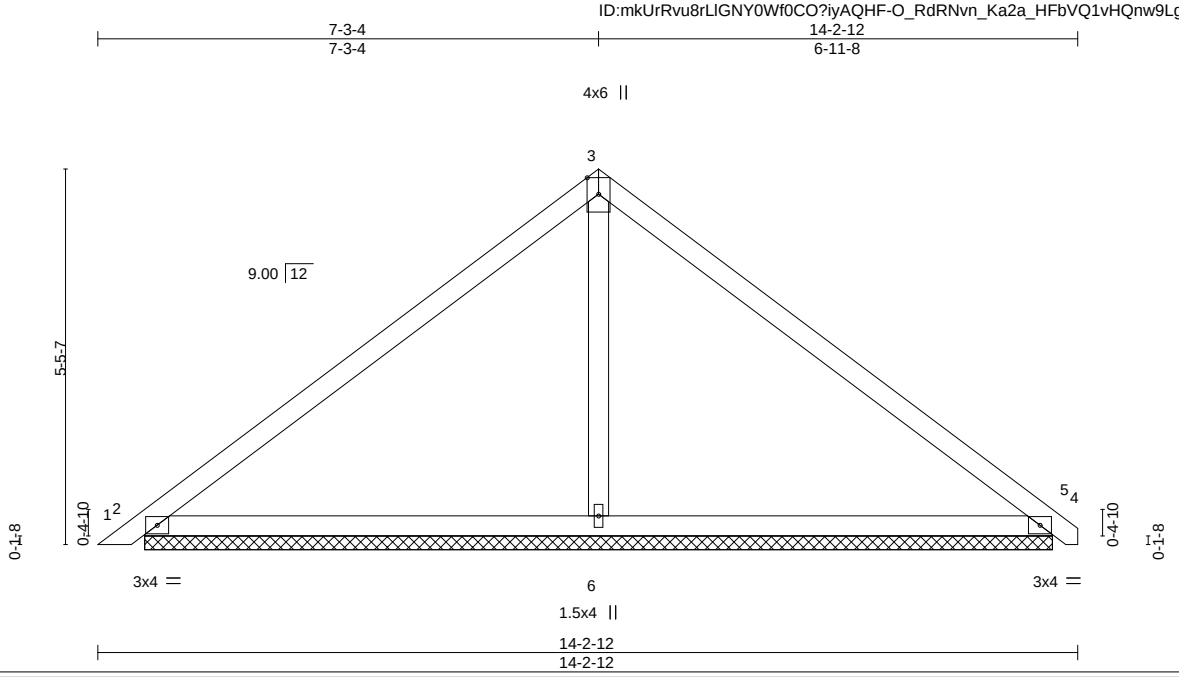
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB06	Piggyback	4	1	T22646472
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:26 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-O_RdRNvn_Ka2a_HFbVQ1vHQnw9LgXebf_3cU84zqntl



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	0.58	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	0.03	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 53 lb	FT = 20%

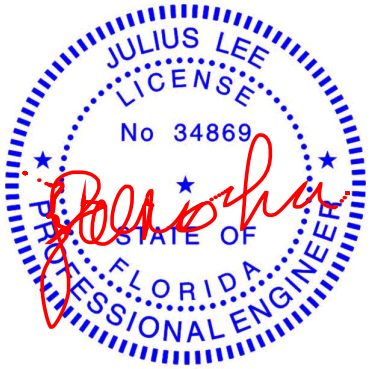
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. (size) 2=13-2-3, 4=13-2-3, 6=13-2-3
Max Horz 2=149(LC 11)
Max Uplift 2=-80(LC 12), 4=-65(LC 12), 6=-28(LC 12)
Max Grav 2=292(LC 1), 4=271(LC 1), 6=523(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-317/85

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



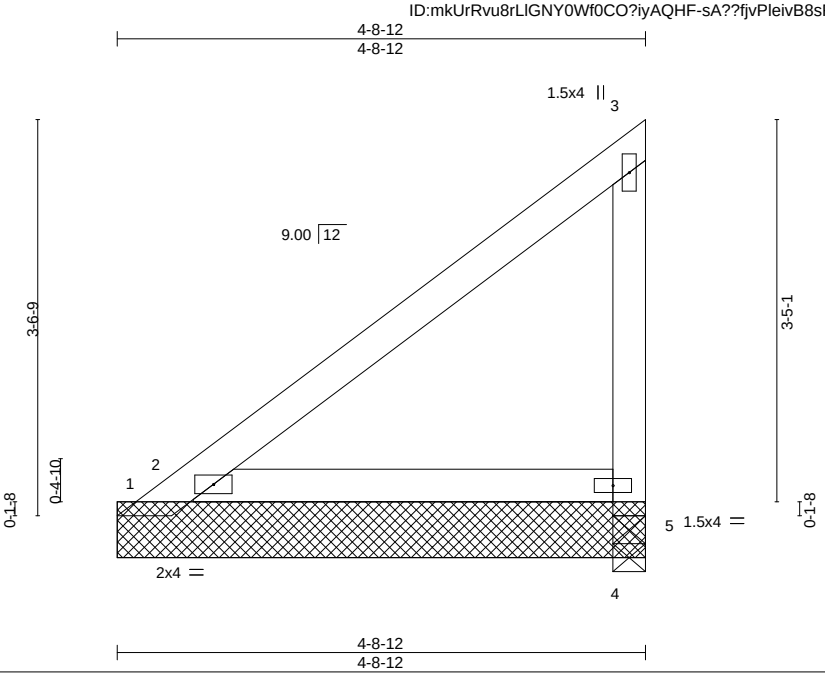
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB07	Piggyback	1	1	T22646473
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:27 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-sA??fjvPleivB8sR9CyGSUy1oZkqG7_pDjM1gWzqntk



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)	-0.01	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.03	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 19 lb	FT = 20%

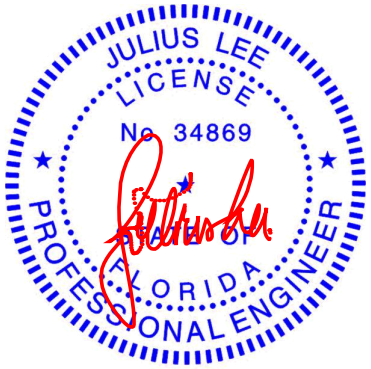
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-8-12, 5=4-8-12, 5=4-8-12, 2=4-8-12, 4=4-8-12
Max Horz 1=145(LC 9)
Max Uplift 1=-291(LC 17), 2=-220(LC 12), 4=-42(LC 9)
Max Grav 1=202(LC 9), 2=498(LC 17), 4=151(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-229/404

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=291, 2=220.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 29,2021

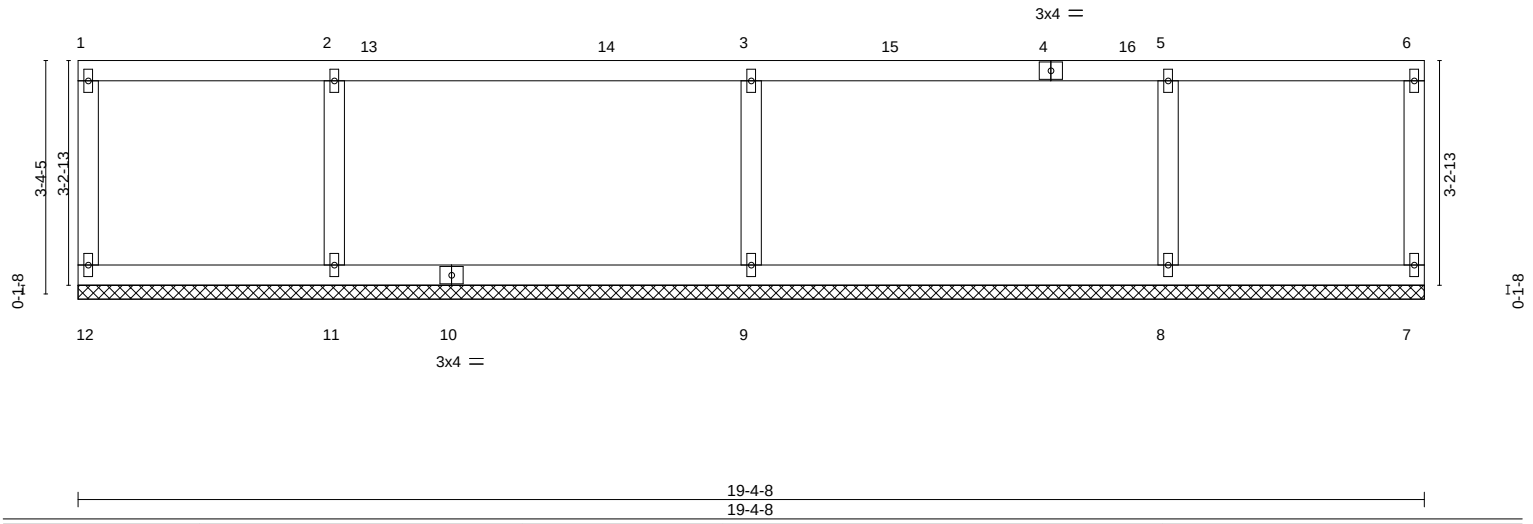
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646474
BRIAN_PAPKA	PB08	Piggyback	1	2	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:28 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-KNZOs3w1WyqmpIQdiwTV_iVDRy4q?ZiySN5aDyzqntj

19-4-8
19-4-8

Scale = 1:33.2



19-4-8
19-4-8

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999		
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-R							Weight: 155 lb	FT = 20%

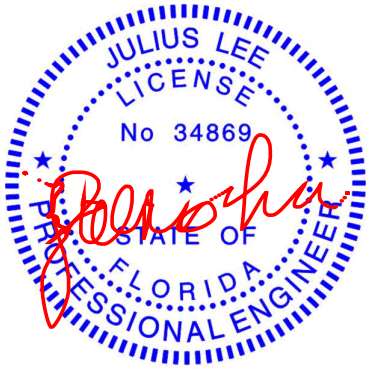
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 19-4-8.
(lb) - Max Horz 12=-122(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12, 7, 9, 11, 8
Max Grav All reactions 250 lb or less at joint(s) 12, 7 except 9=507(LC 1), 11=418(LC 1), 8=418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-9=-380/375, 2-11=-313/331, 5-8=-313/330

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.
Bottom chords 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=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 9, 11, 8.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



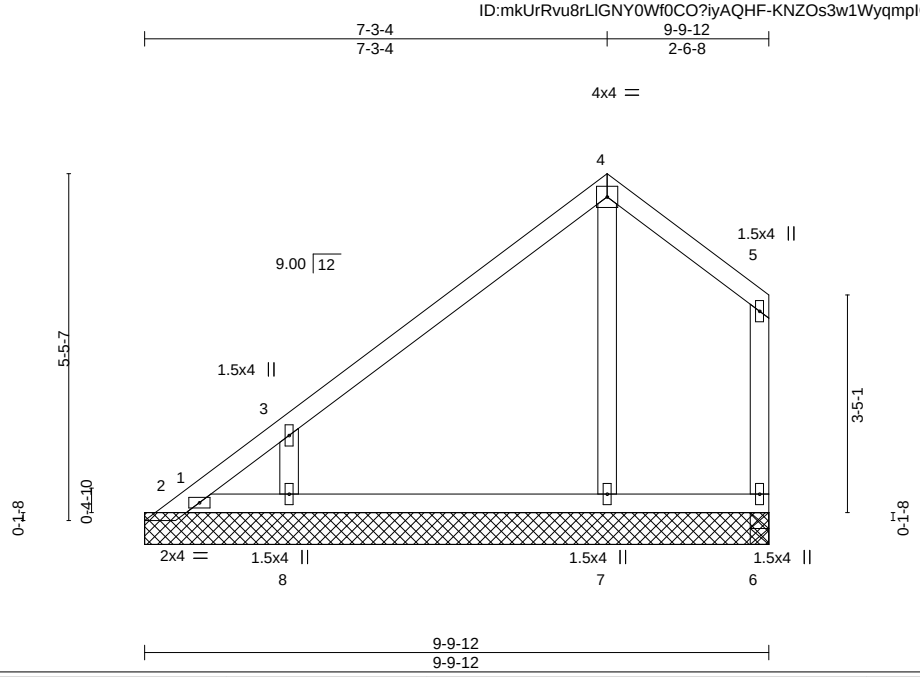
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646475
BRIAN_PAPKA	PB09	Piggyback	10	1	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:28 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-KNZOs3w1WyqmpIQdiwTV_iVBsy4a?YVySN5aDyzqntj



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)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 45 lb	FT = 20%

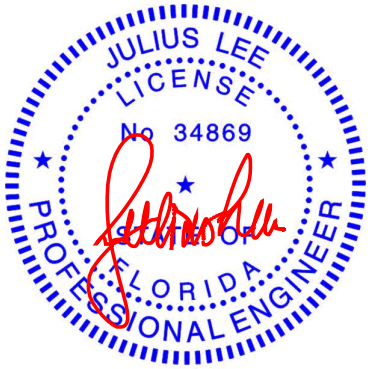
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 9-9-12.
(lb) - Max Horz 1=197(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 2=-145(LC 17), 8=-170(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 6, 2 except 7=346(LC 17), 8=456(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-191/256
WEBS 4-7=-260/95, 3-8=-387/230

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7 except (jt=lb) 2=145, 8=170.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646476
BRIAN_PAPKA	PB10	Piggyback	1	2	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:29 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-oZ7m4PxfHFydRS?pGd_kXv2PIMR9k0C6g1r8lPzqnti

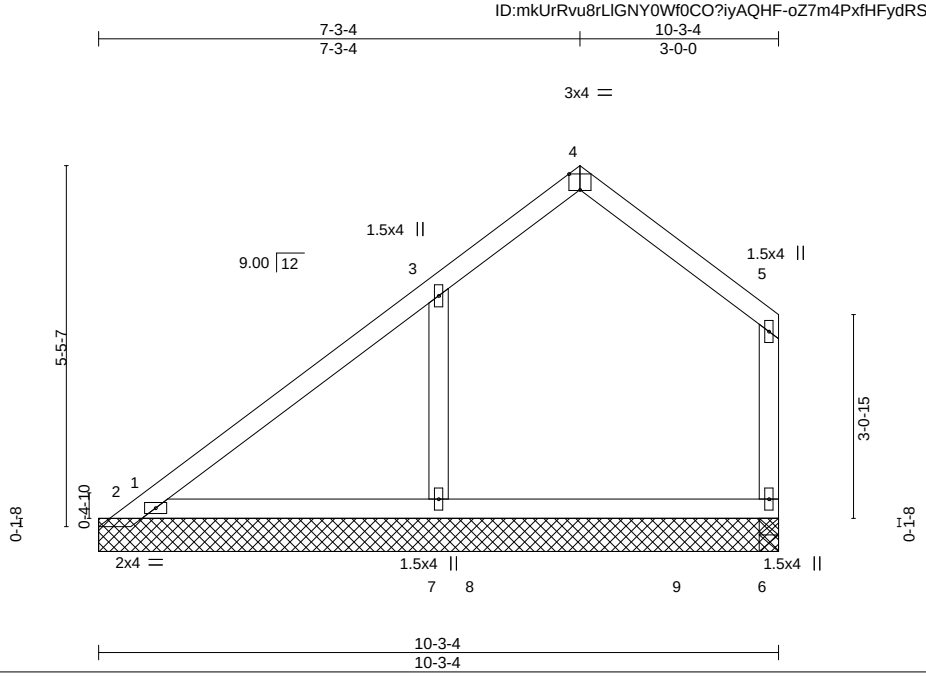


Plate Offsets (X,Y)-- [4:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 85 lb	FT = 20%

LUMBER-

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

BRACING-

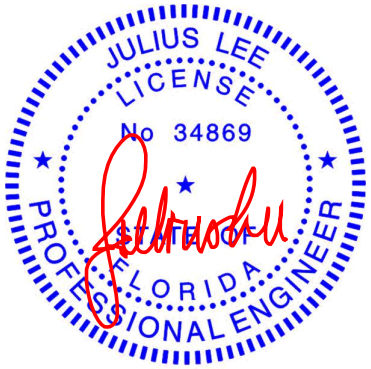
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-3-4.
(lb) - Max Horz 1=192(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 1=-302(LC 17), 2=-220(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 6 except 2=508(LC 17), 7=528(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-233/367
WEBS 3-7=-308/123

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.
Bottom chords 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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
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) 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, with BCDL = 10.0psf.
8) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb) 1=302, 2=220.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



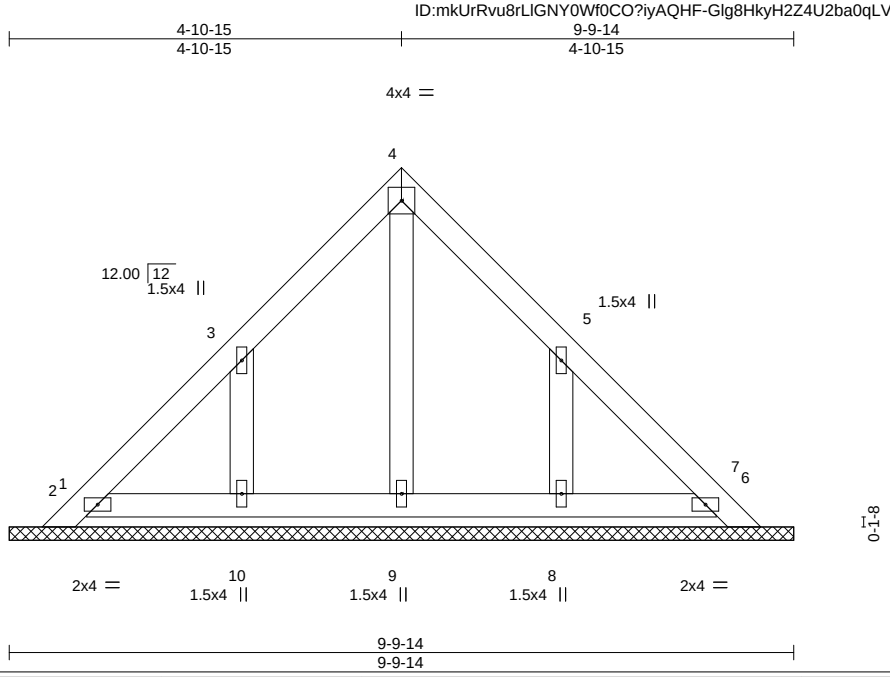
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB11GE	Piggyback	1	1	T22646477
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:30 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-Glg8HkyH2Z4U2ba0qLVz37abwmosTTMFvhahHrzqnth



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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 41 lb	FT = 20%

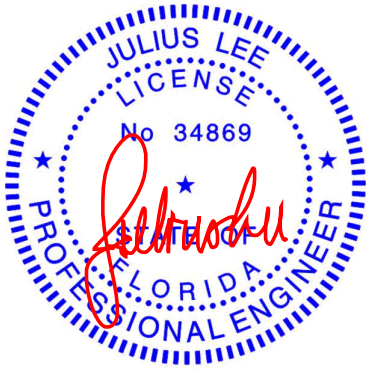
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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 9-9-14.
(lb) - Max Horz 1=-133(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 6 except 1=-130(LC 10), 10=-107(LC 12), 8=-107(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

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=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 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) Bearing at joint(s) 7, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 6 except (jt=lb) 1=130, 10=107, 8=107.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB12	Piggyback	4	1	T22646478
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:31 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-kyEWV4zvptCLgl9CO20CcK7hAA6eCwCP8LKFqHzqntg

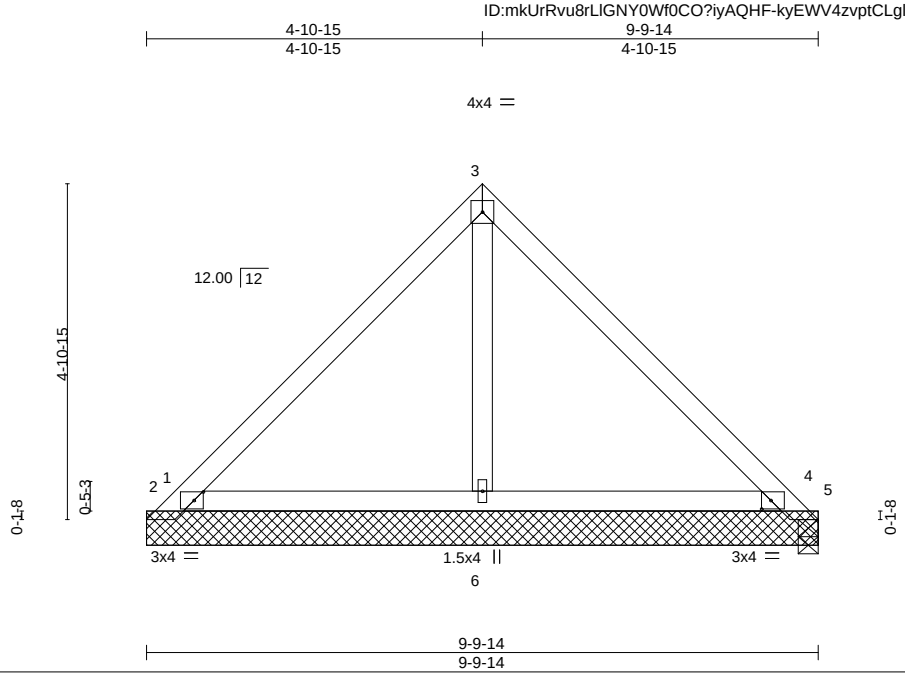


Plate Offsets (X,Y)-- [2:0-1-10,0-1-8], [4:0-1-10,0-1-8]

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	0.35	Vert(LL)	-0.01	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 40 lb	FT = 20%

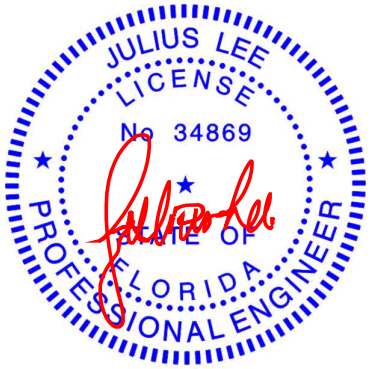
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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 9-9-14.
(lb) - Max Horz 1=147(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-559(LC 17), 5=-395(LC 18), 5=-300(LC 1), 2=-449(LC 12), 4=-390(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 1=369(LC 12), 5=311(LC 12), 2=791(LC 17), 4=651(LC 18), 6=266(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-266/444, 4-5=-194/297

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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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 559 lb uplift at joint 1, 395 lb uplift at joint 5, 449 lb uplift at joint 2 and 390 lb uplift at joint 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

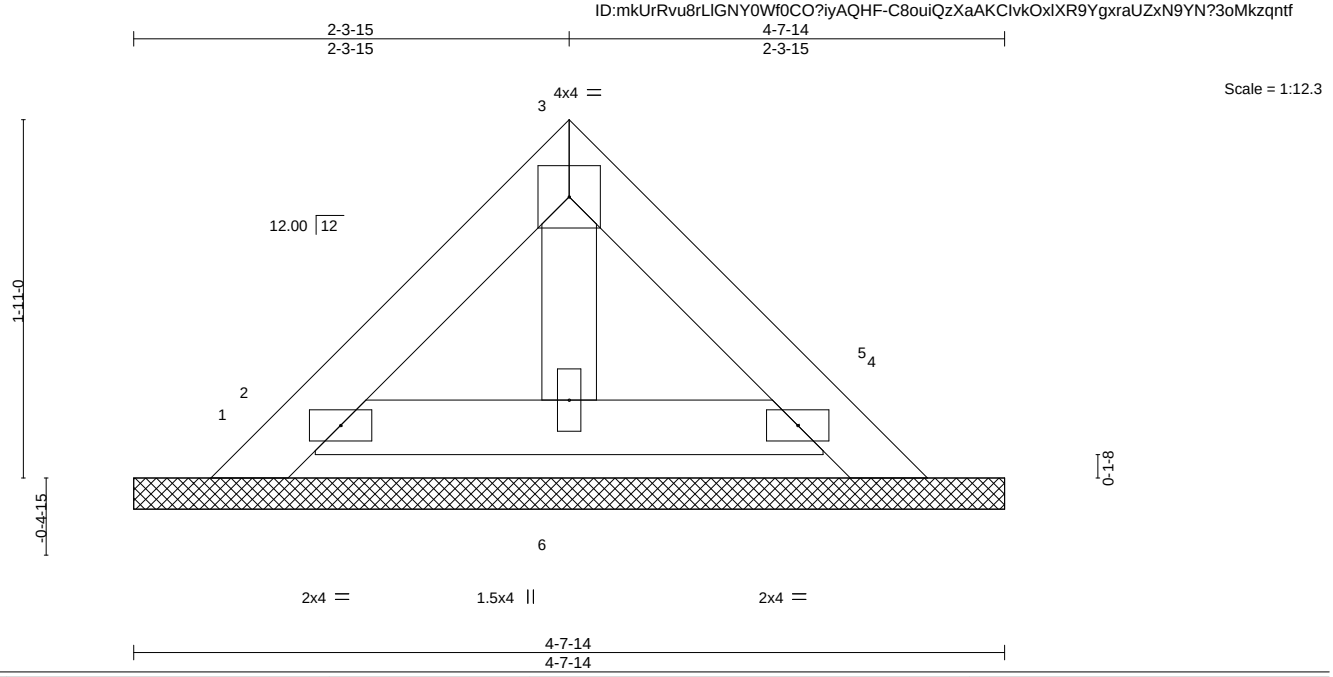


Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB13GE	Piggyback	1	1	T22646479
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:32 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-C8ouiQzXaAKCIvkOxlXR9YgxraUZxN9YN?3oMkzqntf



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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

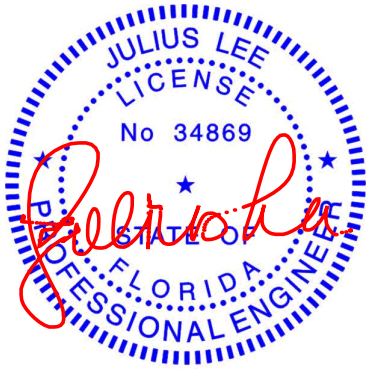
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-7-14.
(lb) - Max Horz 1=53(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-
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=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 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) Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



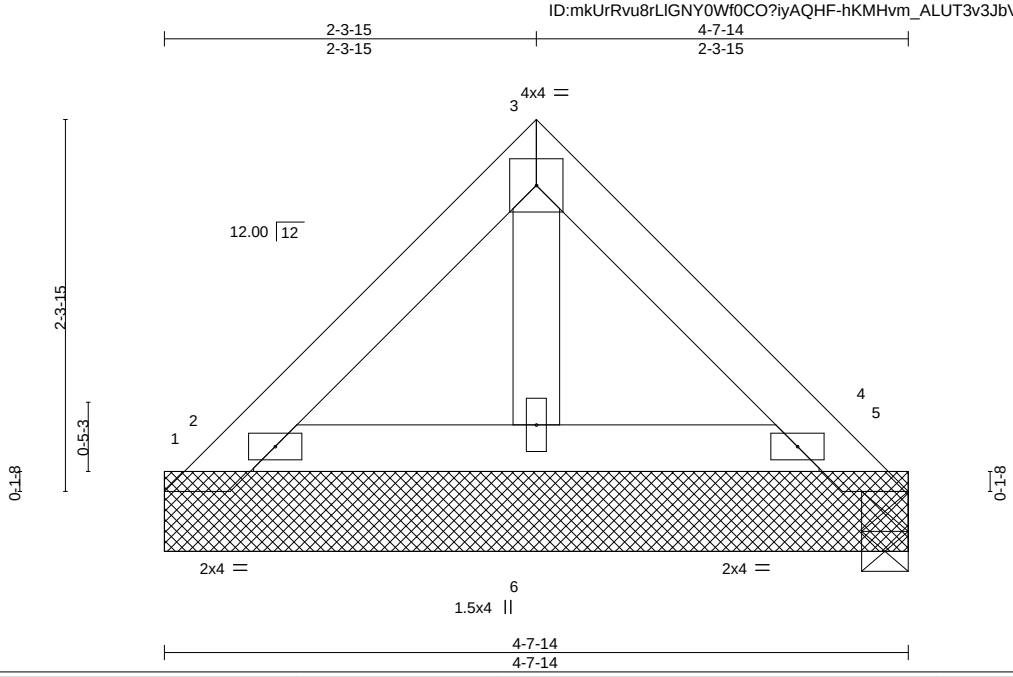
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
BRIAN_PAPKA	PB14	Piggyback	14	1	T22646480
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:33 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-hKMHvm_ALUT3v3JbVT2ghlC6CzpagqNhbfpLuAzqnte



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	0.06	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 17 lb	FT = 20%

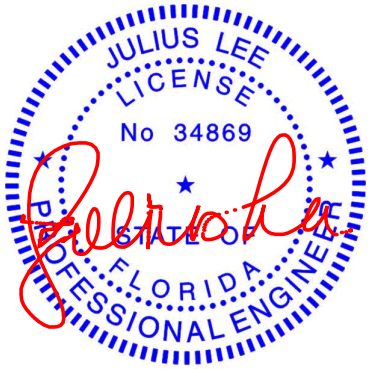
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-7-14.
(lb) - Max Horz 1=67(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 5, 2, 4
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-
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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 1, 5, 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



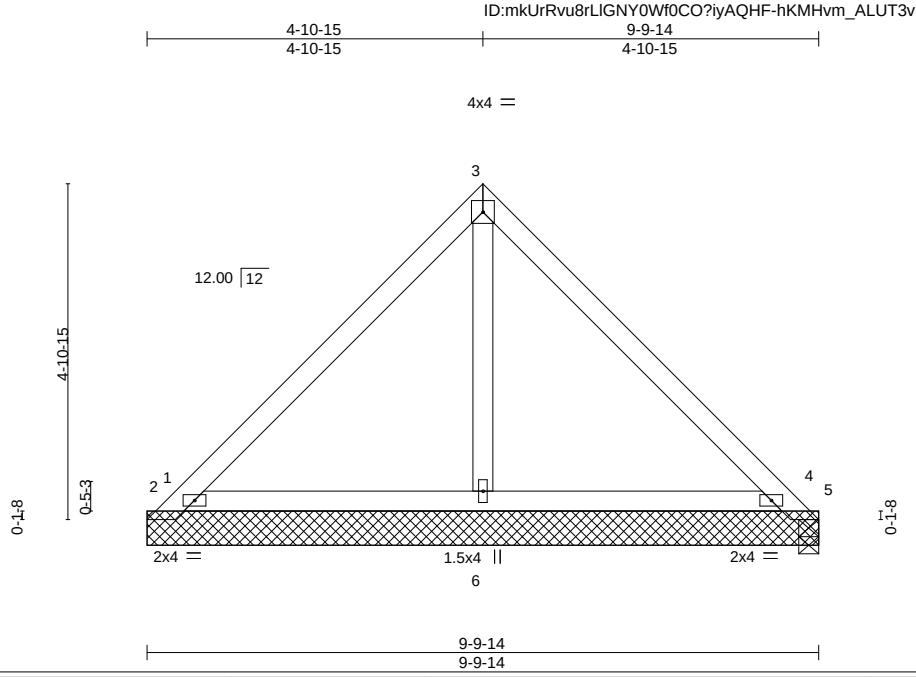
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22646481
BRIAN_PAPKA	PB15	Piggyback	1	3	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Jan 28 15:07:33 2021 Page 1
ID:mkUrRvu8rLlGNY0Wf0CO?iyAQHF-hKMHvm_ALUT3v3JbVT2ghlC5Kzp5gqOhbfpLuAzqnte



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	2-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 119 lb	FT = 20%

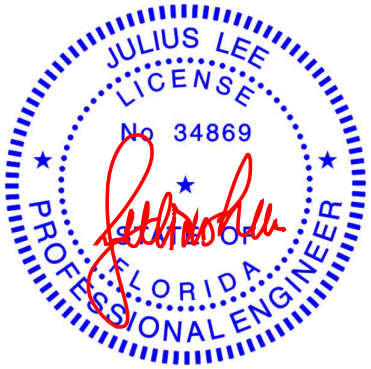
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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 9-9-14.
(lb) - Max Horz 1=147(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-559(LC 17), 5=-395(LC 18), 5=-300(LC 1), 2=-449(LC 12), 4=-390(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 1=369(LC 12), 5=311(LC 12), 2=791(LC 17), 4=651(LC 18), 6=266(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-266/444, 4-5=-194/296

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 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 C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
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) 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 559 lb uplift at joint 1, 395 lb uplift at joint 5, 449 lb uplift at joint 2 and 390 lb uplift at joint 4.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



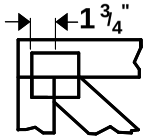
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2021

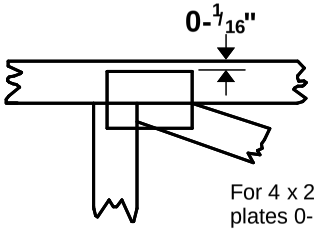
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

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.

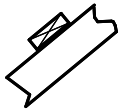
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

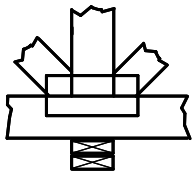
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

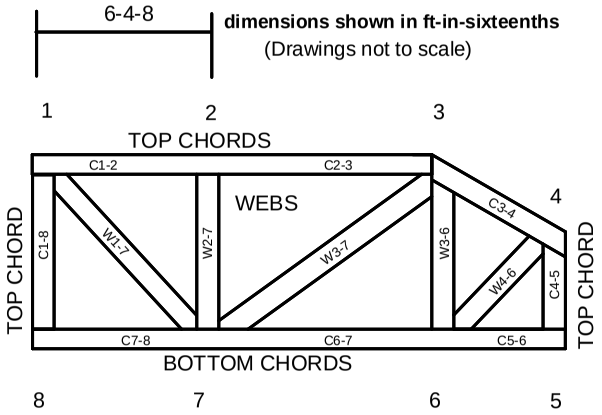


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

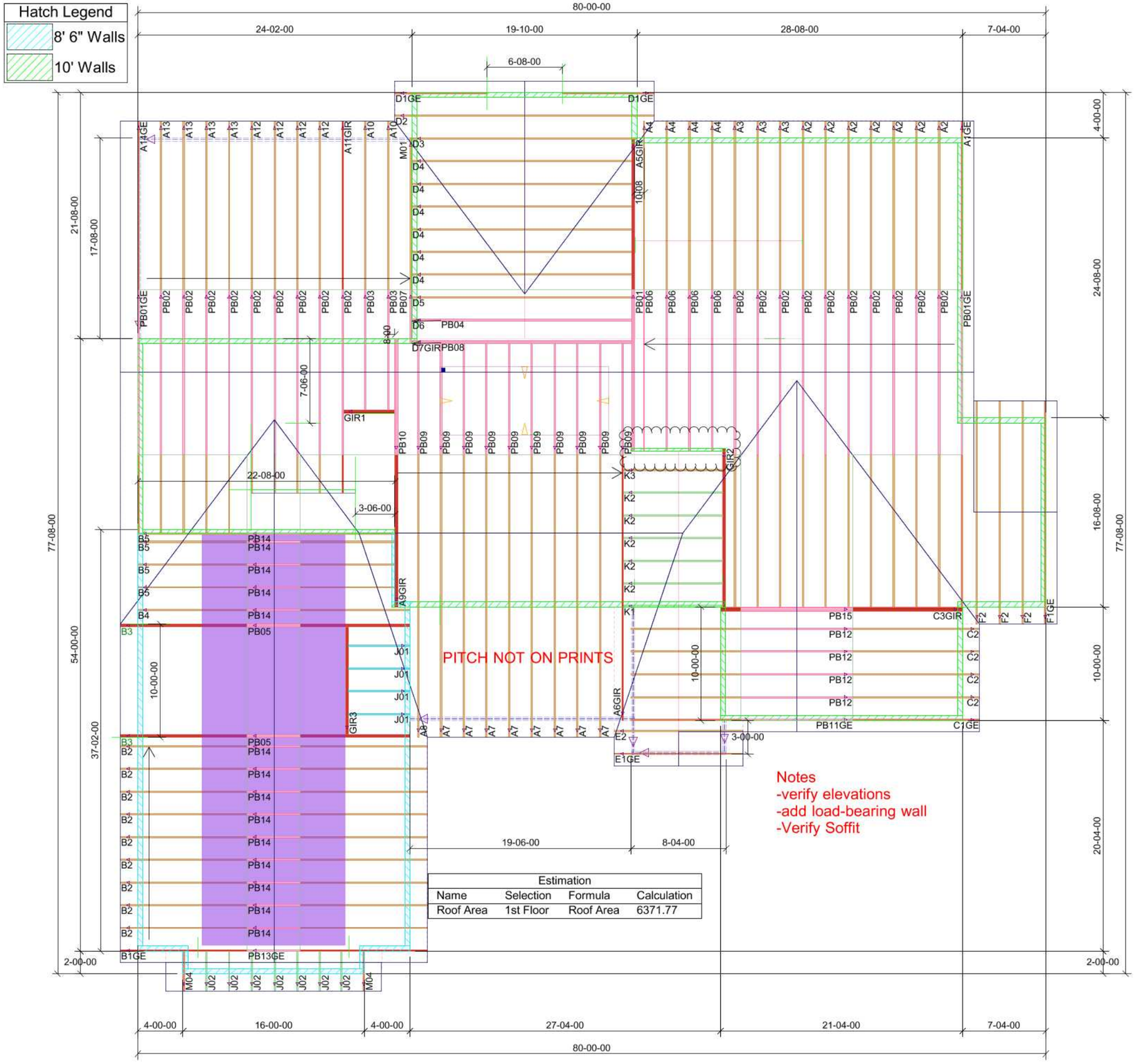
MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.



Mayo Truss Company Inc.
Ph. (386) 294-3988
Fax (386) 294-3981
mayotruss@windstream.net

Client: IND-RES
Date: 1/28/2021
Quote Date: 12/14/20
Seal Date: / /
Designer: Stephanie Ramirez
Job Number: 1220-024

Roof Loading
TC Live: 20.00 psf
TC Dead: 10.00 psf
BC Live: 0.00 psf
BC Dead: 10.00 psf
Spacing: 2.00 ft O.C.

Brian Papka