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

RE: Standridge - Standridge

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

Site Information:
Customer Info: Little_Williams Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Branford State: Fl

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 17 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
1	T23728635	A1GE	4/29/21
2	T23728636	A2	4/29/21
3	T23728637	B1GE	4/29/21
4	T23728638	B2	4/29/21
5	T23728639	B3	4/29/21
6	T23728640	C1GE	4/29/21
7	T23728641	C2	4/29/21
8	T23728642	D1GE	4/29/21
9	T23728643	D2	4/29/21
10	T23728644	D3	4/29/21
11	T23728645	E1GE	4/29/21
12	T23728646	E2	4/29/21
13	T23728647	E3GIR	4/29/21
14	T23728648	M01GE	4/29/21
15	T23728649	M02	4/29/21
16	T23728650	PB01	4/29/21
17	T23728651	PB02	4/29/21

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, 2023.

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.

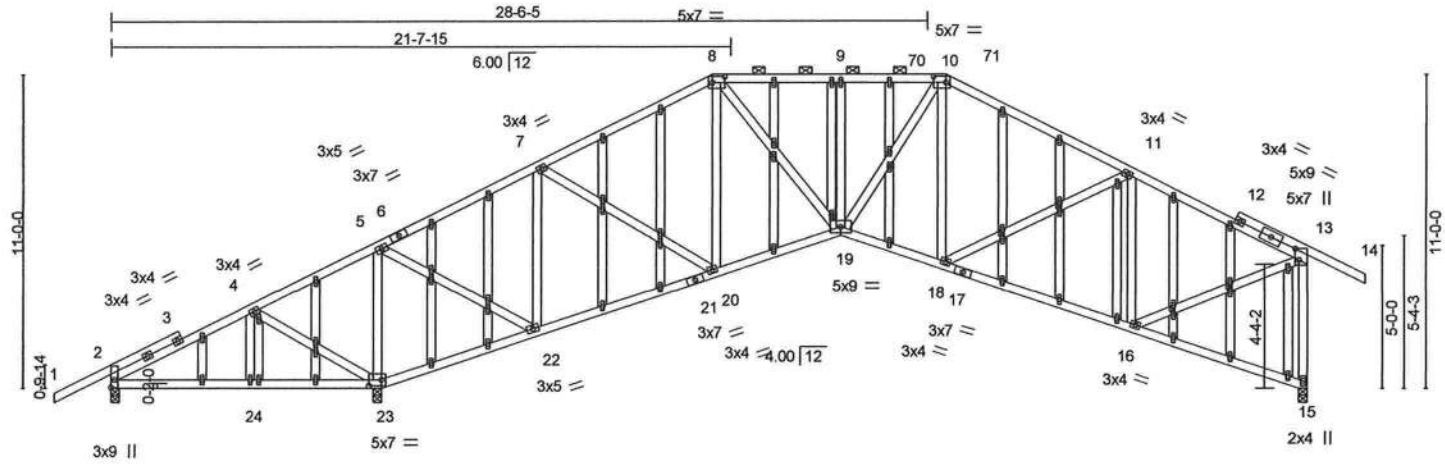
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 29,2021

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	A1GE	GABLE I Gable I Gable COMMON I I Gable	2	1	T23728635
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:14:39 2021 Page 1
ID:2rZzYluhj7sQTvrvZVKZwAzlxOm-you0FCdV3lE4E0h?ZWK6DfOim?PtKbA_akl_mbzMZlk

-2-0-0	4-10-8	9-5-8	14-10-14	21-0-2	25-6-0	29-2-2	35-8-4	41-10-0	43-10-0
2-0-0	4-10-8	4-7-0	5-5-6	6-1-4	4-5-14	3-8-2	6-6-2	6-1-12	2-0-0

Scale = 1:78.6



4-10-8	9-3-12	9-5-8	14-10-14	20-4-5	21-0-2	25-6-0	29-2-2	29-10-0	35-8-4	41-10-0
4-10-8	4-5-4	0-1-12	5-5-6	5-5-6	0-7-13	4-5-14	3-8-2	0-7-14	5-10-4	6-1-12

Plate Offsets (X,Y)-- [2:Edge,0-1-8], [8:0-5-4,0-2-8], [10:0-5-4,0-2-8], [13:0-4-12,0-1-8], [23:0-5-4,0-2-8], [53:0-1-14,0-0-12], [56:0-1-14,0-0-12], [61:0-1-13,0-0-12], [63:0-1-13,0-0-12]

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	0.40	Vert(LL)	-0.08	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.16	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.12	15	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 384 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, except end verticals, and 2-0-0 oc purlins (4-6-11 max.): 8-10.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 23=0-3-8, 15=0-3-8
Max Horz 2=393(LC 11)
Max Uplift 2=-111(LC 12), 23=-277(LC 12), 15=-262(LC 12)
Max Grav 2=138(LC 21), 23=2201(LC 1), 15=1297(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-117/557, 4-5=-99/966, 5-7=-593/171, 7-8=-1258/230, 8-9=-1560/229, 9-10=-1560/229, 10-11=-1526/244, 11-13=-1228/235, 13-15=-1250/274
BOT CHORD 2-24=-484/95, 23-24=-484/95, 22-23=-892/195, 20-22=-93/612, 19-20=-43/1133, 18-19=0/1348, 16-18=0/1126
WEBS 4-23=-462/83, 5-23=-1616/232, 5-22=-84/1476, 7-22=-1013/140, 7-20=0/672, 8-20=-415/27, 8-19=0/829, 10-19=-45/554, 11-18=-21/308, 11-16=-661/101, 13-16=-31/1124

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=42ft; 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.
10) Bearing at joint(s) 15 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) except (jt=lb) 2=111, 23=277, 15=262.
12) 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.

Continued on page 2

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	A1GE	GABLE I Gable I Gable COMMON I I Gable	2	1	T23728635 Job Reference (optional)

NOTES-

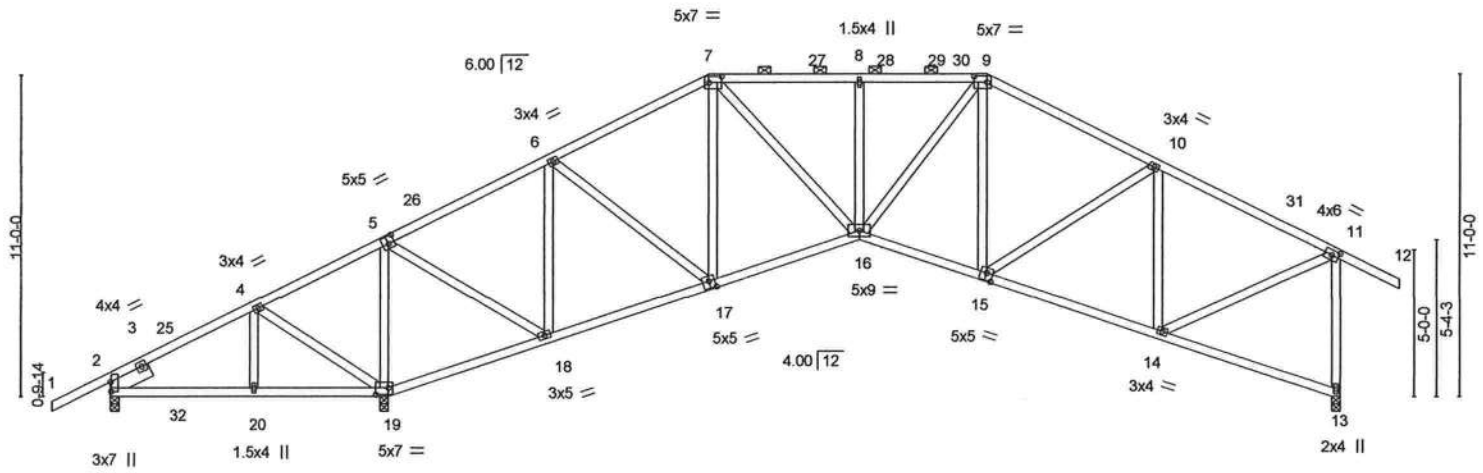
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Standridge	T23728636
STANDRIDGE	A2	PIGGYBACK BASE	14	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl — 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Apr 29 12:53:27 2021 Page 1
ID:2rZzYluhj7sQTvrvZVKZwAzlxOm-RpKrXDaPXcC1SEsTJEn6TxsHFWjp5q64qNXz9bzLsns

-2-0-0	4-10-8	9-5-8	14-10-14	20-4-5	25-6-0	29-10-0	35-8-4	41-10-0	43-10-0
2-0-0	4-10-8	4-7-0	5-5-6	5-5-6	5-1-11	4-4-0	5-10-4	6-1-12	2-0-0

Scale = 1:76.5



4-10-8	9-3-12	9-5-8	14-10-14	20-4-5	25-6-0	29-10-0	35-8-4	41-10-0
4-10-8	4-5-4	0-1-12	5-5-6	5-5-6	5-1-11	4-4-0	5-10-4	6-1-12

Plate Offsets (X,Y)-- [2:0-3-15,0-0-3], [5:0-2-8,0-3-0], [7:0-5-4,0-2-8], [9:0-5-4,0-2-8], [11:0-2-15,0-2-0], [15:0-2-8,0-3-0], [17:0-2-8,0-3-0], [19:0-5-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.08	16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.16	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.13	13	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 -< 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-7 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=111/0-3-8, 19=2168/0-3-8, 13=1305/0-3-8
Max Horz 2=397(LC 11)
Max Uplift 2=-231(LC 12), 19=-399(LC 12), 13=-261(LC 12)
Max Grav 2=159(LC 21), 19=2168(LC 1), 13=1305(LC 1)

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

TOP CHORD	3-25=0/450, 4-25=0/513, 4-5=-217/830, 5-26=-596/175, 6-26=-456/177, 6-7=-1176/336, 7-27=-1595/446, 8-27=-1595/446, 8-28=-1595/446, 28-29=-1595/446, 29-30=-1595/446, 9-30=-1595/446, 9-10=-1458/387, 10-31=-1104/298, 11-31=-1183/269, 11-13=-1254/407
BOT CHORD	2-32=-498/36, 20-32=-498/36, 19-20=-498/36, 18-19=-764/294, 17-18=-105/633, 16-17=-148/1099, 15-16=-187/1302, 14-15=-201/1059
WEBS	4-19=-456/336, 5-19=-1593/408, 5-18=-265/1383, 6-18=-1006/289, 6-17=-54/649, 7-17=-456/111, 7-16=-148/901, 8-16=-303/139, 9-16=-102/636, 10-15=-10/331, 10-14=-654/199, 11-14=-160/1077

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=42ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-2-3, Interior(1) 2-2-3 to 20-4-5, Exterior(2R) 20-4-5 to 26-3-4, Interior(1) 26-3-4 to 29-10-0, Exterior(2R) 29-10-0 to 35-8-4, Interior(1) 35-8-4 to 43-10-0 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.
7) Bearing at joint(s) 13 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 231 lb uplift at joint 2, 399 lb uplift at joint 19 and 261 lb uplift at joint 13.
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
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6904 Parke East Blvd. Tampa FL 33610
Date: April 29,2021

LOAD CASE(S) Standard

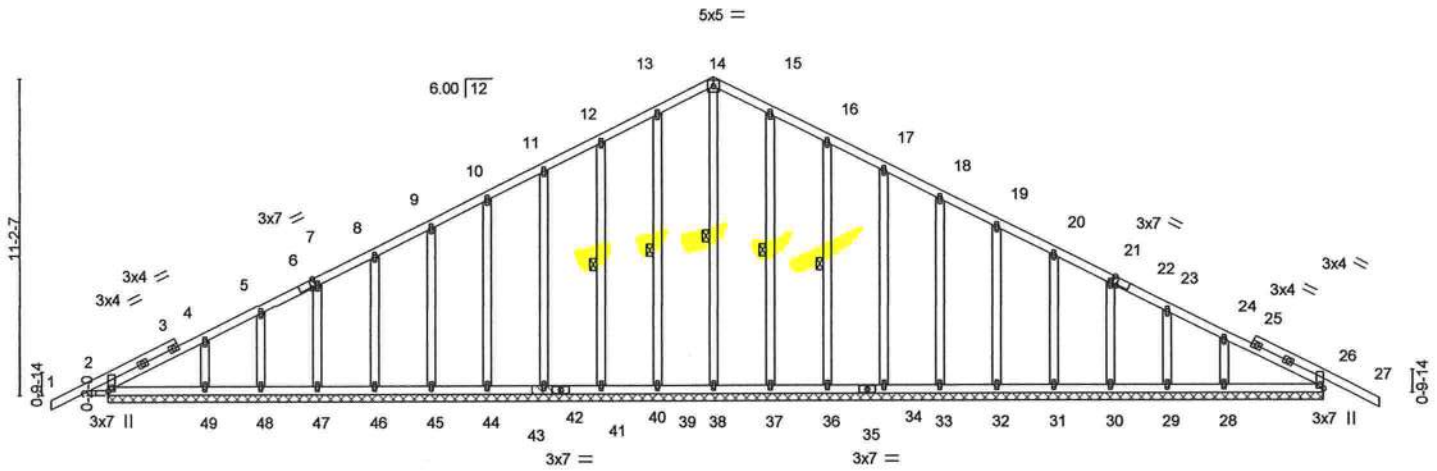
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge	T23728637
STANDRIDGE	B1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl — 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Apr 29 15:19:48 2021 Page 1
ID:2rZzYluhj7sQTvrvZVKZwAzlxOm-q7QQTlrQbaW6Qge6DvpHsg2w3CkT_LLZ1077s7zLqef

-2-0-0 / 2-0-0 — 21-5-0 / 21-5-0 — 42-10-0 / 21-5-0 — 44-10-0 / 2-0-0

Scale = 1:79.3



42-10-0 / 42-10-0

Plate Offsets (X,Y)-- [2:Edge,0-1-8], [6:0-1-14,Edge], [22:0-1-14,Edge], [26:Edge,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	0.25	Vert(LL)	-0.02	27	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.03	27	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 319 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 14-38, 13-39, 12-40, 15-37, 16-36

REACTIONS. All bearings 42-10-0.
(lb) - Max Horz 2=-312(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 42, 44, 45, 46, 47, 48, 49, 37, 36, 34, 33, 32, 31, 30, 29, 28, 26
Max Grav All reactions 250 lb or less at joint(s) 38, 39, 40, 42, 44, 45, 46, 47, 48, 49, 37, 36, 34, 33, 32, 31, 30, 29, 28 except 2=286(LC 1), 26=286(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-150/273, 14-15=-150/273

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=43ft; 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) Solid blocking is required on both sides of the truss at joint(s), 2.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 42, 44, 45, 46, 47, 48, 49, 37, 36, 34, 33, 32, 31, 30, 29, 28, 26.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 26.

LOAD CASE(S) Standard

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

April 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge	T23728638
STANDRIDGE	B2	Common	3	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl — 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Apr 29 12:55:38 2021 Page 1
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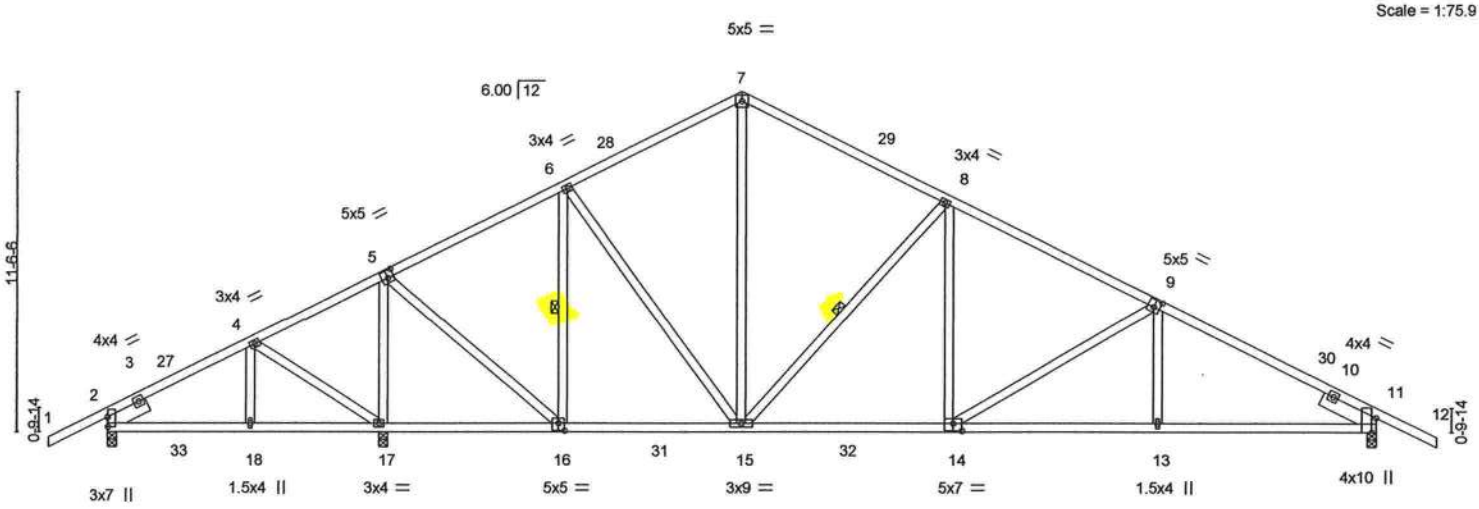
-2-0-0	4-9-10	9-3-12	15-4-6	21-5-0	28-5-8	35-6-0	42-10-0	44-10-0
2-0-0	4-9-10	4-6-2	6-0-10	6-0-10	7-0-8	7-0-8	7-4-0	2-0-0

Scale = 1:75.9



4-9-10	9-3-12	15-4-6	21-5-0	28-5-8	35-6-0	42-10-0
4-9-10	4-6-2	6-0-10	6-0-10	7-0-8	7-0-8	7-4-0

Plate Offsets (X,Y)-- [2:0-3-15,0-0-3], [5:0-2-8,0-3-0], [9:0-2-8,0-3-0], [11:0-5-15,Edge], [14:0-3-8,0-3-0], [16:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.15	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.28	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 266 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 8-15

REACTIONS. (lb/size) 2=199/0-3-8, 17=2088/0-3-8, 11=1379/0-3-8
Max Horz 2=-321(LC 10)
Max Uplift 2=-218(LC 12), 17=-412(LC 12), 11=-265(LC 12)
Max Grav 2=298(LC 21), 17=2334(LC 17), 11=1605(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-27=0/331, 4-27=0/393, 4-5=-82/759, 5-6=-808/237, 6-28=-1127/337, 7-28=-1005/367, 7-29=-1026/373, 8-29=-1114/339, 8-9=-1830/390, 9-30=-2324/384, 10-30=-2341/352, 10-11=-472/0
BOT CHORD 2-33=-449/84, 18-33=-449/84, 17-18=-449/84, 16-17=-668/245, 16-31=0/766, 15-31=0/766, 15-32=-85/1499, 14-32=-85/1499, 13-14=-208/1986, 11-13=-207/1989
WEBS 4-17=-454/309, 5-17=-1962/399, 5-16=-202/1560, 6-16=-799/216, 6-15=-9/504, 7-15=-117/615, 8-15=-1024/253, 8-14=0/604, 9-14=-559/145

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=43ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-3-6, Interior(1) 2-3-6 to 21-5-0, Exterior(2R) 21-5-0 to 25-8-6, Interior(1) 25-8-6 to 44-10-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=218, 17=412, 11=265.
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.

LOAD CASE(S) Standard

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

April 29,2021

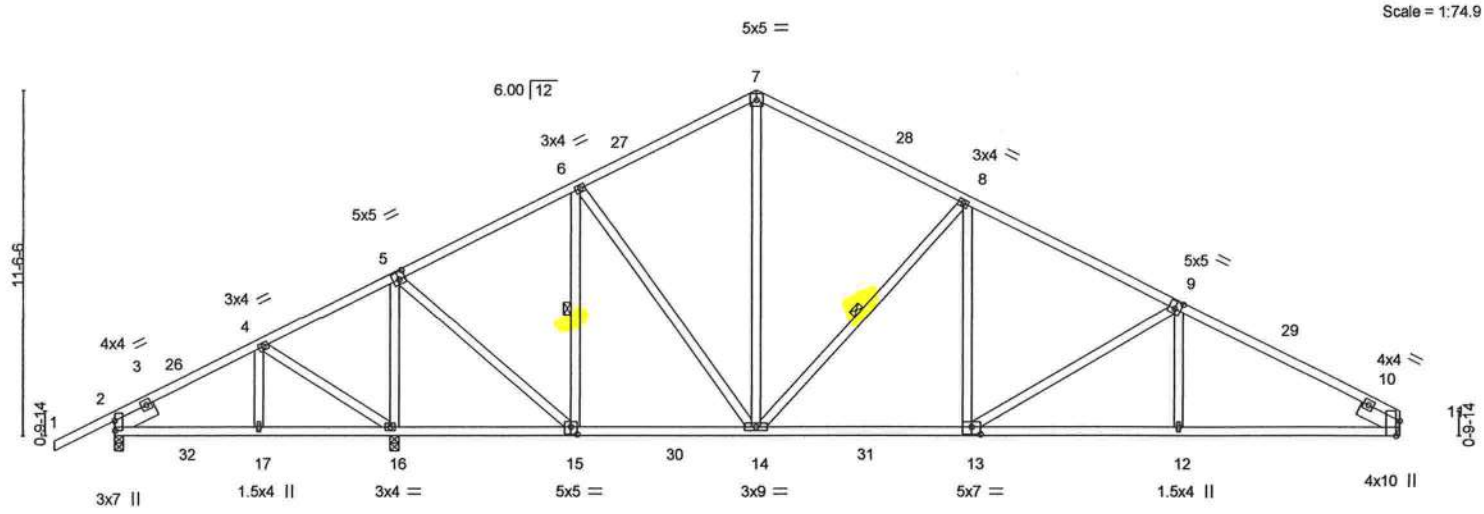
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge	T23728639
STANDRIDGE	B3	Common	7	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl — 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Apr 29 12:56:16 2021 Page 1
ID:2rZzYluhj7sQTvrvZVKZwAzlxOm-_K2k??dQkXV3ECGxjEJkpaM3neGQBDQyi9zPbIzLslD

-2-0-0	4-9-10	9-3-12	15-4-6	21-5-0	28-5-8	35-6-0	42-10-0
2-0-0	4-9-10	4-6-2	6-0-10	6-0-10	7-0-8	7-0-8	7-4-0

Scale = 1:74.9



4-9-10	9-3-12	15-4-6	21-5-0	28-5-8	35-6-0	42-10-0
4-9-10	4-6-2	6-0-10	6-0-10	7-0-8	7-0-8	7-4-0

Plate Offsets (X,Y)-- [2:0-3-15,0-0-3], [5:0-2-8,0-3-0], [9:0-2-8,0-3-0], [11:0-5-15,Edge], [13:0-3-8,0-3-0], [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	0.81	Vert(LL)	-0.15	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.28	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.07	11	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
SLIDER Left 2x6 SP No.2 -< 1-6-0, Right 2x6 SP No.2 -< 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-15, 8-14

REACTIONS. (lb/size) 2=197/0-3-8, 16=2095/0-3-8, 11=1255/Mechanical
Max Horz 2=312(LC 11)
Max Uplift 2=-210(LC 12), 16=-424(LC 12), 11=-176(LC 12)
Max Grav 2=295(LC 21), 16=2339(LC 17), 11=1488(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-26=0/336, 4-26=0/398, 4-5=-96/764, 5-6=-805/236, 6-27=-1128/335, 7-27=-1006/364, 7-28=-1027/376, 8-28=-1114/353, 8-9=-1837/403, 9-29=-2287/423, 10-29=-2370/404, 10-11=-560/0
BOT CHORD 2-32=-451/65, 17-32=-451/65, 16-17=-451/65, 15-16=-671/227, 15-30=0/751, 14-30=0/751, 14-31=-128/1510, 13-31=-128/1510, 12-13=-277/2015, 11-12=-276/2019
WEBS 4-16=-455/311, 5-16=-1966/408, 5-15=-210/1569, 6-15=-803/222, 6-14=-14/509, 7-14=-119/615, 8-14=-1030/255, 8-13=-4/615, 9-13=-580/175

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=43ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-3-6, Interior(1) 2-3-6 to 21-5-0, Exterior(2R) 21-5-0 to 25-8-6, Interior(1) 25-8-6 to 42-10-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=210, 16=424, 11=176.
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:

April 29,2021

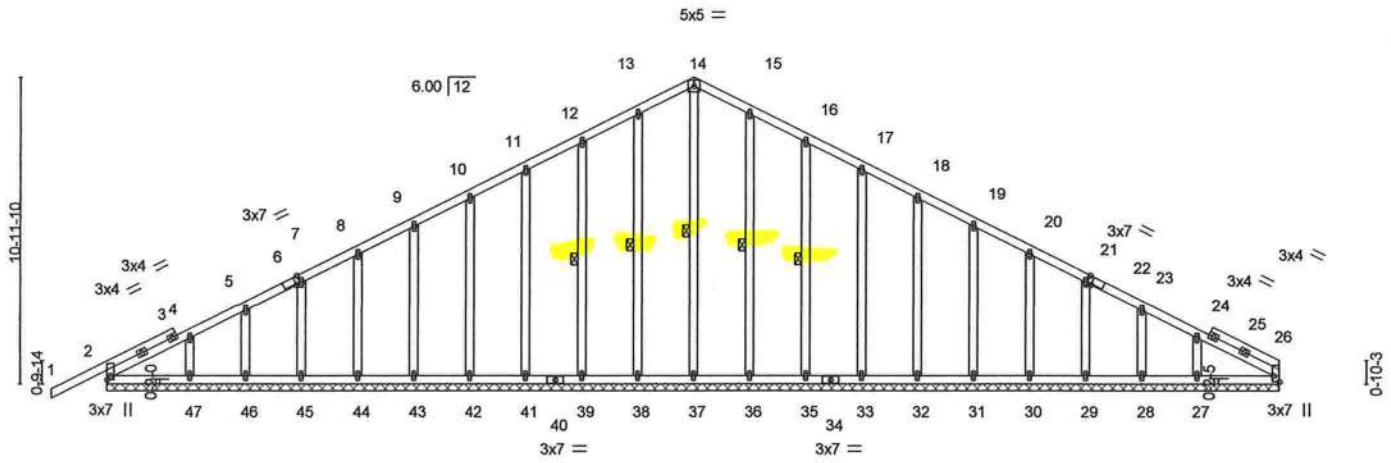
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	C1GE	Common Supported Gable	1	1	T23728640
					Job Reference (optional)

Mayo Truss, Mayo, Fl — 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Apr 29 15:21:34 2021 Page 1
ID:2rZzYluhj7sQTvrvZVKZwAzlxOm-jWqUj?7we8t48zITQAj881R2JwwXqHi9OWokb_zLqd?

-2-0-0 / 2-0-0 — 20-11-5 / 20-11-5 — 41-10-0 / 20-10-11

Scale = 1:80.2



41-10-0 / 41-10-0

Plate Offsets (X,Y)-- [2:Edge,0-1-8], [6:0-1-14,Edge], [22:0-1-14,Edge], [26:Edge,0-2-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 304 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.
WEBS 1 Row at midpt 14-37, 13-38, 12-39, 15-36, 16-35

REACTIONS. All bearings 41-10-0.
(lb) - Max Horz 2=300(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 38, 39, 41, 42, 43, 44, 45, 46, 47, 36, 35, 33, 32, 31, 30, 29, 28, 27
Max Grav All reactions 250 lb or less at joint(s) 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 36, 35, 33, 32, 31, 30, 29, 28, 27, 26 except 2=276(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-144/256, 14-15=-143/256

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=42ft; 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) Solid blocking is required on both sides of the truss at joint(s), 2.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 38, 39, 41, 42, 43, 44, 45, 46, 47, 36, 35, 33, 32, 31, 30, 29, 28, 27.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

LOAD CASE(S) Standard

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

April 29,2021

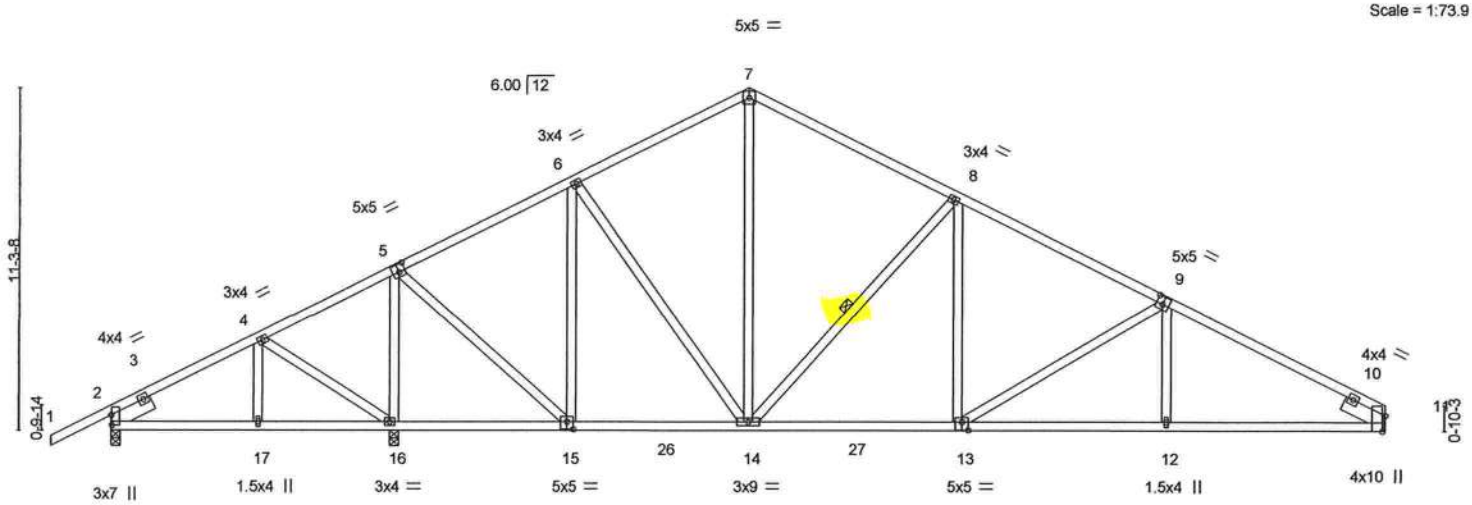
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	C2	Common	5	1	T23728641
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:14:52 2021 Page 1
ID:2rZzYluhj7sQTvrvZVKZwAzlxOm-3IBx_enf?ktEI?AVqk39FOQrqEkhtPNvZFPAjLzMZIX

-2-0-0	4-9-10	9-3-12	15-1-8	20-11-5	27-9-11	34-8-2	41-10-0
2-0-0	4-9-10	4-6-2	5-9-12	5-9-12	6-10-6	6-10-6	7-1-14

Scale = 1:73.9



4-9-10	9-3-12	15-1-8	20-11-5	27-9-11	34-8-2	41-10-0
4-9-10	4-6-2	5-9-12	5-9-12	6-10-6	6-10-6	7-1-14

Plate Offsets (X,Y)-- [2:0-3-15,0-0-3], [5:0-2-8,0-3-0], [9:0-2-8,0-3-0], [11:0-6-4,Edge], [13:0-2-8,0-3-4], [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	0.82	Vert(LL)	-0.14	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.27	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 257 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, Right 2x6 SP No.2 -t 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-14

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 11=Mechanical
Max Horz 2=304(LC 11)
Max Uplift 2=-105(LC 12), 16=-283(LC 12), 11=-174(LC 12)
Max Grav 2=300(LC 21), 16=2384(LC 17), 11=1436(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-159/313, 4-5=-31/764, 5-6=-735/201, 6-7=-1064/296, 7-8=-1053/291, 8-9=-1752/306, 9-11=-2260/310
BOT CHORD 2-17=-367/157, 16-17=-367/157, 15-16=-671/135, 14-15=0/687, 13-14=-71/1438, 12-13=-194/1917, 11-12=-192/1920
WEBS 4-16=-534/92, 5-16=-1920/294, 5-15=-118/1523, 6-15=-804/150, 6-14=0/527, 7-14=-107/568, 8-14=-999/208, 8-13=0/595, 9-13=-551/145

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=42ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=105, 16=283, 11=174.
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:

April 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	D1GE	Common Supported Gable	1	1	T23728642
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:14:54 2021 Page 1
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-2-0-0 2-0-0 | 7-2-8 7-2-8 | 14-5-0 7-2-8

4x4 =

Scale = 1:40.0

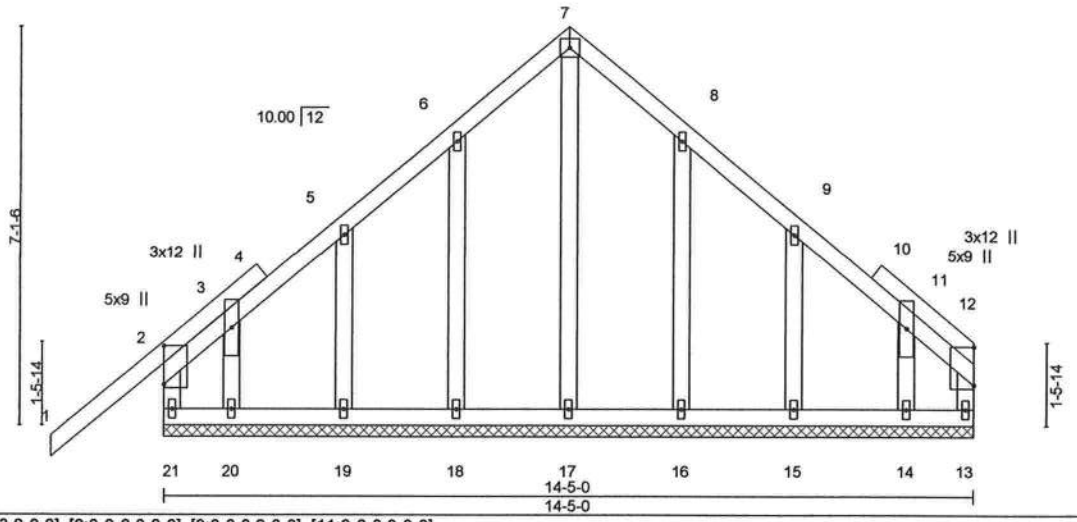

Plate Offsets (X,Y)-- [2:0-8-3,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [11:0-0-0,0-0-0]

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	0.30	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.02	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-R							Weight: 102 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 14-5-0.
(lb) - Max Horz 21=242(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 16, 15 except 21=-151(LC 8), 13=-149(LC 11), 20=-111(LC 9), 14=-101(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 13, 18, 19, 20, 16, 15 except 21=300(LC 18), 17=255(LC 12), 14=255(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-254/184

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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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) 18, 19, 16, 15 except (jt=lb) 21=151, 13=149, 20=111, 14=101.

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

April 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge	T23728643
STANDRIDGE	D2	Common	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:14:55 2021 Page 1
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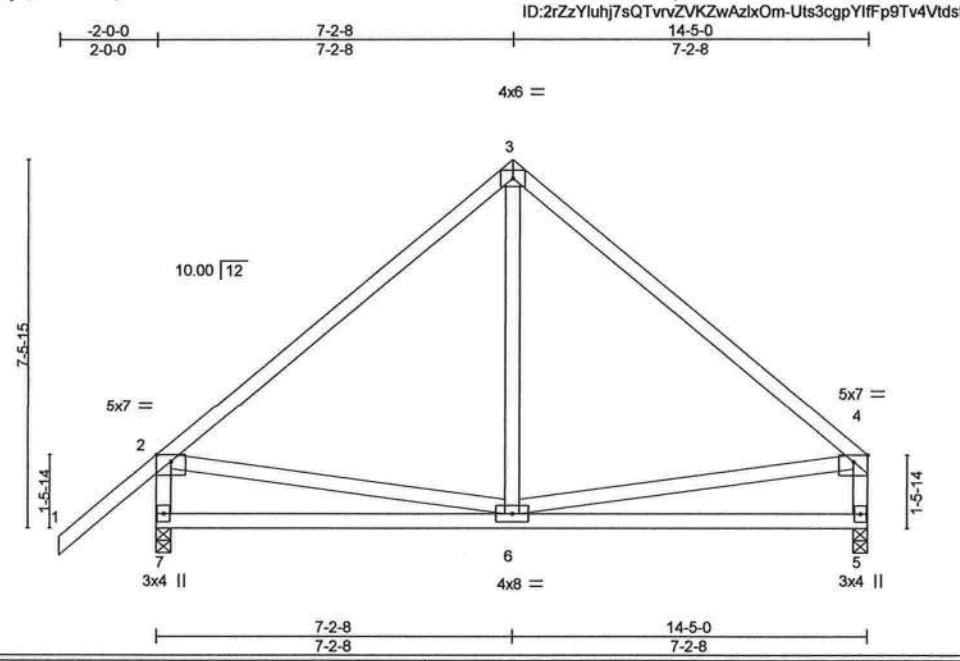

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 88 lb	FT = 20%

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

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

REACTIONS. (size) 7=0-3-8, 5=0-3-8
Max Horz 7=260(LC 11)
Max Uplift 7=-175(LC 12), 5=-76(LC 12)
Max Grav 7=704(LC 1), 5=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-542/124, 3-4=-534/118, 2-7=-638/213, 4-5=-489/113
BOT CHORD 6-7=-216/374
WEBS 3-6=0/266, 2-6=-115/286

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) 5 except (jt=lb) 7=175.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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April 29,2021

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Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	D3	Common Girder	1	2	T23728644

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:14:56 2021 Page 1
ID:2rZzYluhj7sQTvrvZVKZwAzlxOm-y4QSp0qA3zNgmdUG3a85PEbcdrB6pK2UUtNNs6zMZIT

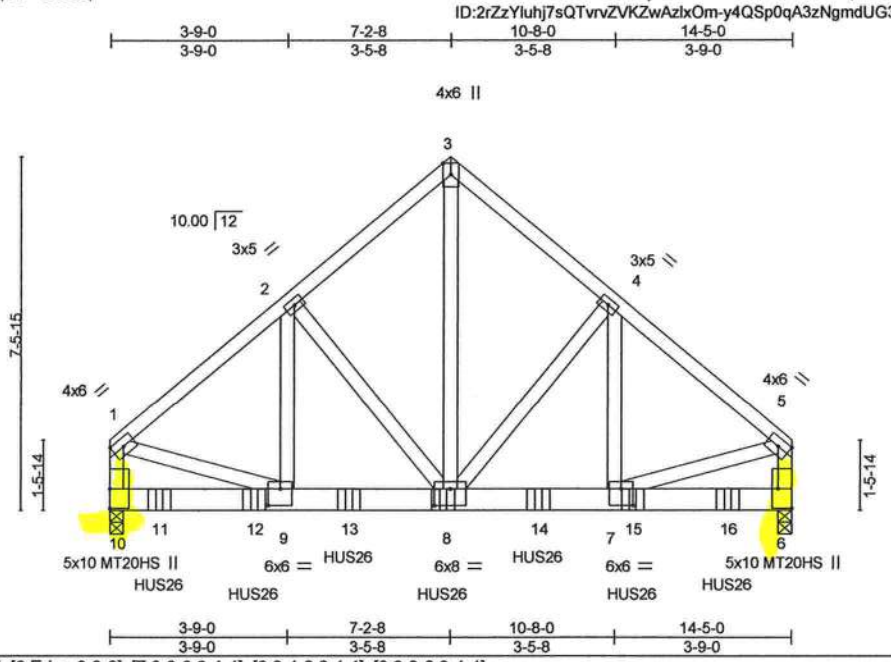

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0], [6:Edge,0-3-8], [7:0-3-0,0-4-4], [8:0-4-0,0-4-4], [9:0-3-0,0-4-4]

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	0.39	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.08	7-8	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 223 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 6=0-3-8
Max Horz 10=222(LC 7)
Max Uplift 10=-749(LC 8), 6=-726(LC 8)
Max Grav 10=5296(LC 2), 6=5129(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4660/695, 2-3=-3594/618, 3-4=-3594/618, 4-5=-4702/701, 1-10=-4108/606, 5-6=-4151/612
BOT CHORD 9-10=-242/463, 8-9=-502/3526, 7-8=-443/3558, 6-7=-48/305
WEBS 2-9=-221/1510, 2-8=-1264/266, 3-8=-702/4349, 4-8=-1313/273, 4-7=-232/1576, 1-9=-420/3377, 5-7=-427/3427

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 0-7-0 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) 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) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) except (jt=lb) 10=749, 6=726.
10) 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 1-0-12 from the left end to 13-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

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Date: April 29,2021

LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-5=-60, 6-10=-20
   Concentrated Loads (lb)
   Vert: 8=-1235(B) 11=-1236(B) 12=-1235(B) 13=-1235(B) 14=-1235(B) 15=-1235(B) 16=-1235(B)

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	E1GE	Common Supported Gable	1	1	T23728645
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:14:57 2021 Page 1
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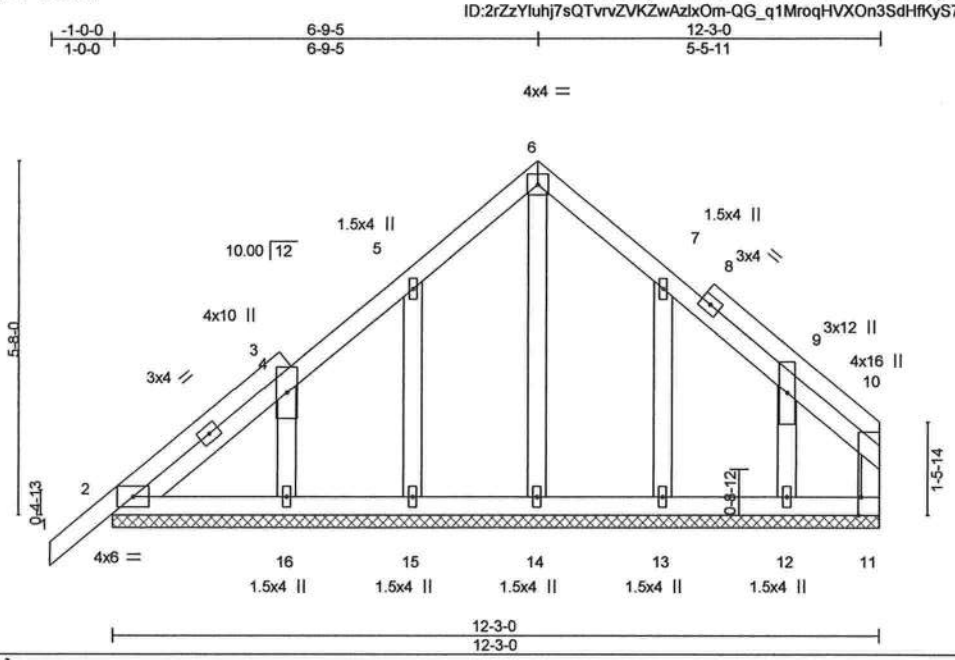

Plate Offsets (X,Y)-- [10:0-3-8,Edge]

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	0.06	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 79 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 12-3-0.
(lb) - Max Horz 2=187(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 11, 14, 15, 16, 13, 12

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 15, 16, 13, 12.

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Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	E2	Common	2	1	T23728646
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:14:59 2021 Page 1
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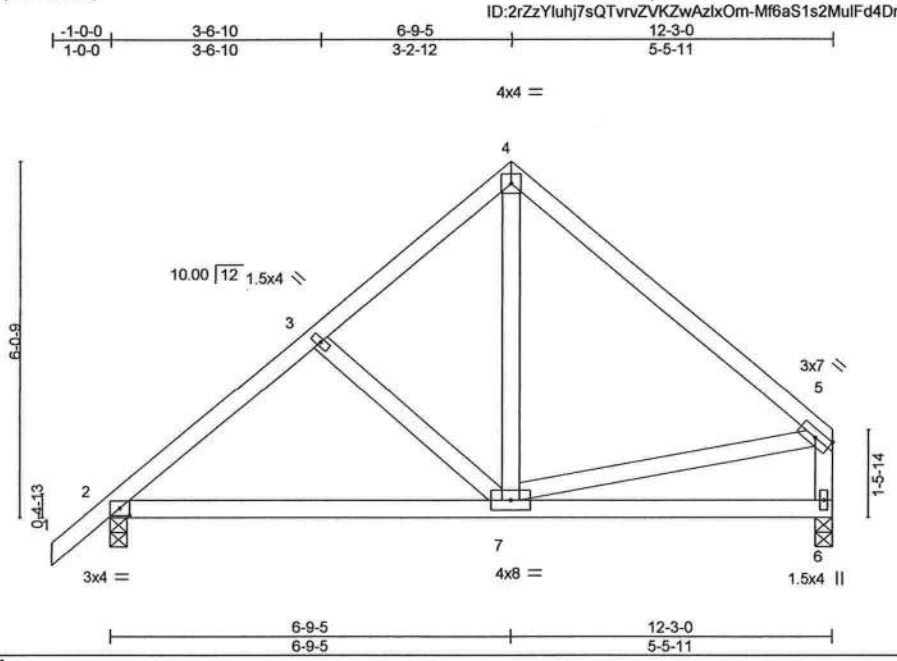

Plate Offsets (X,Y)-- [2:0-2-1,0-1-8]

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	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.08	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 68 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) 2=0-3-8, 6=0-3-8
Max Horz 2=202(LC 11)
Max Uplift 2=-114(LC 12), 6=-66(LC 12)
Max Grav 2=547(LC 1), 6=482(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-555/111, 3-4=-425/122, 4-5=-465/101, 5-6=-434/93
BOT CHORD 2-7=-65/461
WEBS 4-7=-13/286

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) 6 except (jt=lb) 2=114.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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April 29,2021

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Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	E3GIR	Common Girder	1	2	T23728647

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:15:00 2021 Page 1
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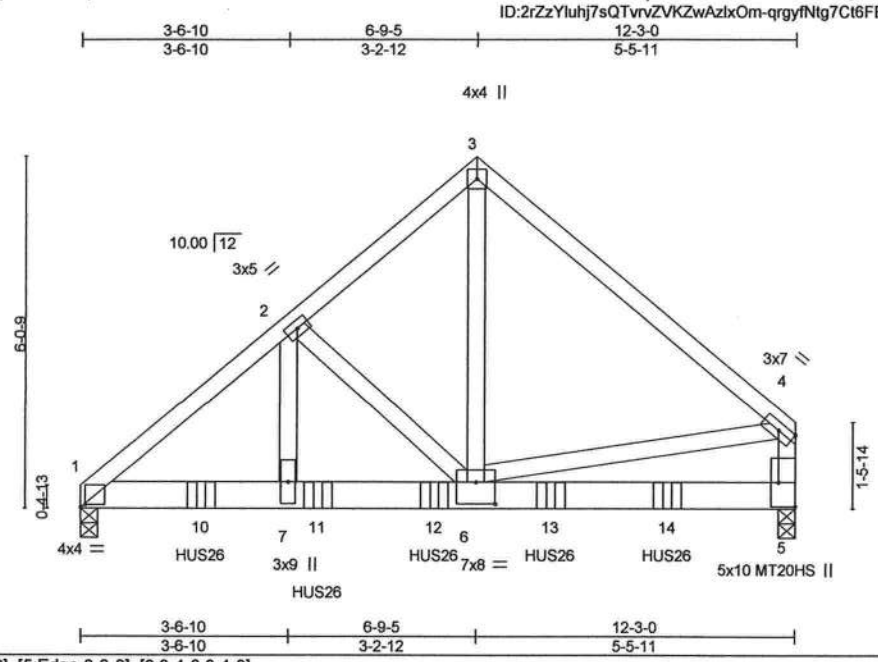

Plate Offsets (X,Y)-- [1:0-0-14,0-0-8], [5:Edge,0-3-8], [6:0-4-0,0-4-8]

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	0.55	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.12	5-6	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 159 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=184(LC 7)
Max Uplift 1=-532(LC 8), 5=-534(LC 8)
Max Grav 1=3674(LC 2), 5=3686(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4856/729, 2-3=-3402/562, 3-4=-3347/522, 4-5=-2668/423
BOT CHORD 1-7=-533/3718, 6-7=-533/3718, 5-6=-95/484
WEBS 2-7=-243/1844, 2-6=-1574/304, 3-6=-570/4027, 4-6=-302/2067

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) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) except (jt=lb) 1=532, 5=534.
10) 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 10-0-12 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

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April 29,2021

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-4=-60, 1-5=-20
   Concentrated Loads (lb)
   Vert: 10=-1194(F) 11=-1194(F) 12=-1194(F) 13=-1194(F) 14=-1194(F)

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	M01GE	Monopitch Supported Gable	2	1	T23728648
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:15:01 2021 Page 1
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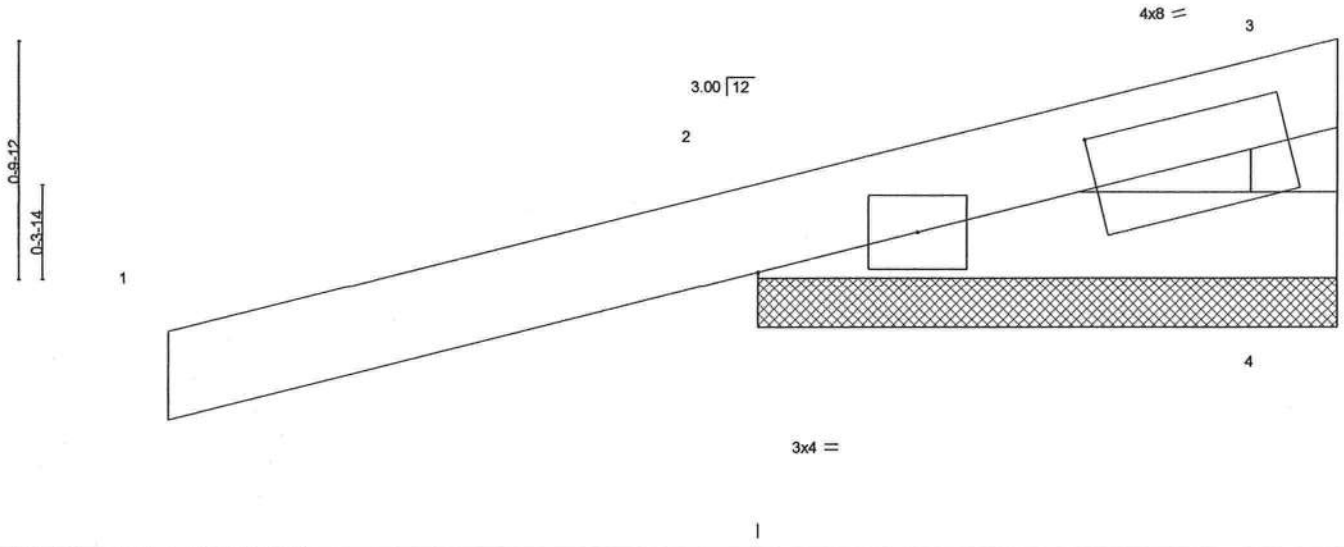

Plate Offsets (X,Y)-- [3:1-2-3,0-2-0]

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	0.25	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	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: 9 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-11-8, 2=1-11-8
Max Horz 2=29(LC 8)
Max Uplift 2=-144(LC 12)
Max Grav 4=39(LC 12), 2=259(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) except (jt=lb) 2=144.

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Job	Truss	Truss Type	Qty	Ply	Standridge	T23728649
STANDRIDGE	M02	Monopitch	14	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl — 8.430 s Nov 30 2020 MiTek Industries, Inc. Thu Apr 29 12:57:09 2021 Page 1

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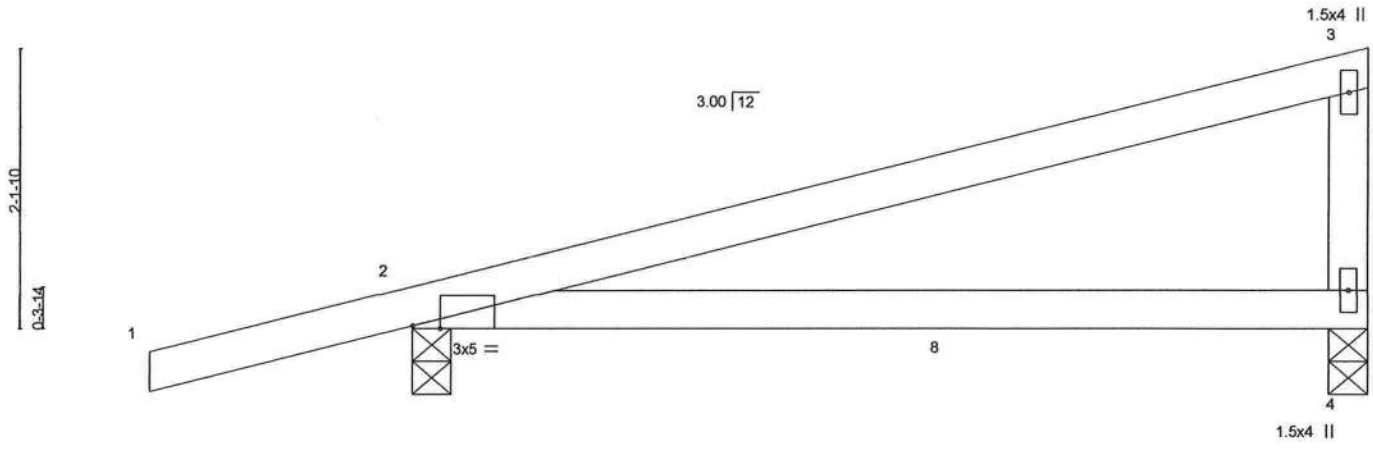

7-3-0 / 7-3-0

Plate Offsets (X,Y)-- [2:0-2-8,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	0.65	Vert(LL)	0.30	4-7	>284	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	0.22	4-7	>380	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 27 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 4=267/0-3-8, 2=421/0-3-8
Max Horz 2=84(LC 11)
Max Uplift 4=-120(LC 12), 2=-227(LC 12)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-1-0, Interior(1) 1-1-0 to 7-1-4 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=120, 2=227.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

April 29,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	PB01	GABLE	2	1	T23728650
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:15:02 2021 Page 1
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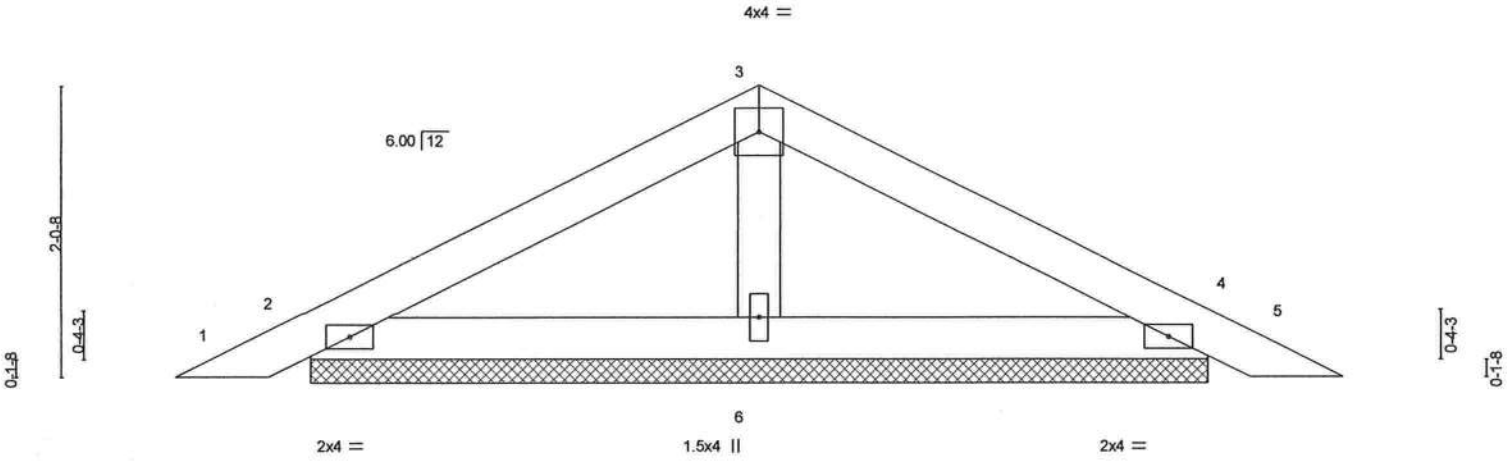
4-8-14 / 4-8-14 | 9-5-11 / 4-8-14

Scale = 1:15.7



9-5-11 / 9-5-11

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 25 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=6-3-7, 4=6-3-7, 6=6-3-7
Max Horz 2=46(LC 11)
Max Uplift 2=-63(LC 12), 4=-63(LC 12)
Max Grav 2=167(LC 1), 4=167(LC 1), 6=242(LC 1)

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) 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.

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Job	Truss	Truss Type	Qty	Ply	Standridge
STANDRIDGE	PB02	Piggyback	14	1	T23728651
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue Apr 27 09:15:03 2021 Page 1
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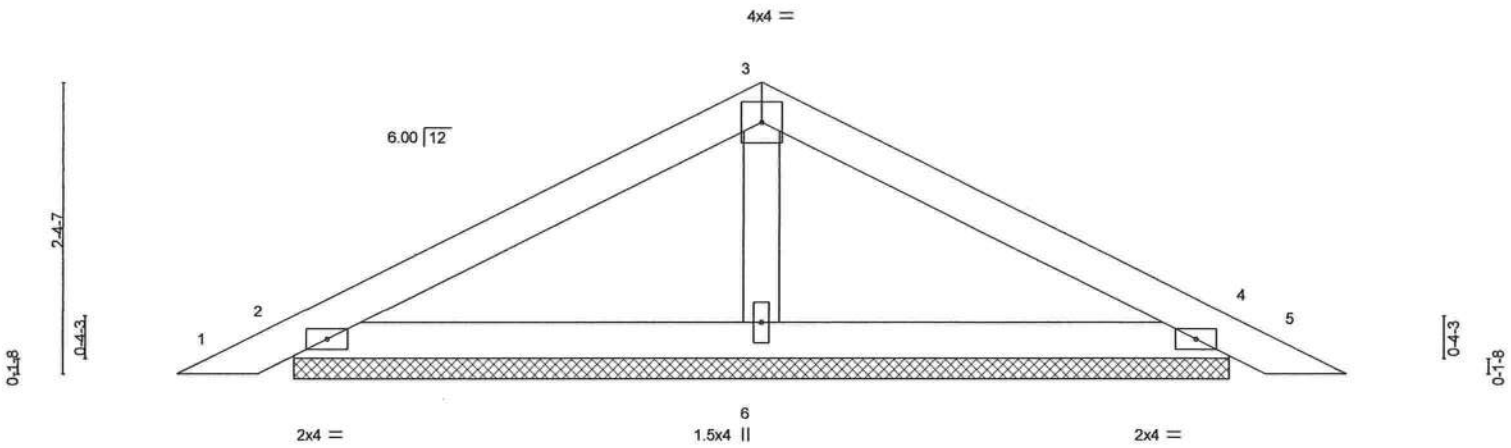
4-8-14 / 4-8-14 | 9-5-11 / 4-8-14

Scale = 1:18.2



9-5-11 / 9-5-11

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.02	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 29 lb	FT = 20%

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

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

REACTIONS. (size) 2=7-7-1, 4=7-7-1, 6=7-7-1
Max Horz 2=-54(LC 10)
Max Uplift 2=-69(LC 12), 4=-69(LC 12)
Max Grav 2=193(LC 1), 4=193(LC 1), 6=295(LC 1)

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) 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.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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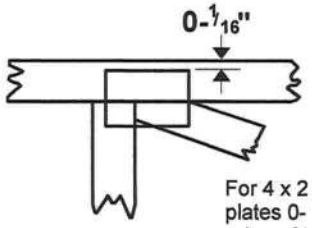
Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

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

PLATE SIZE

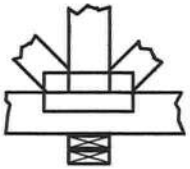
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

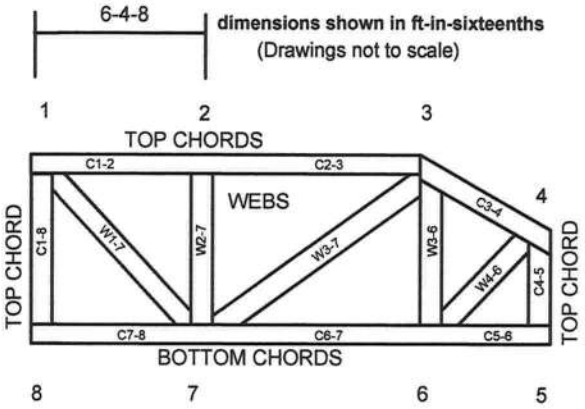


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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