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

RE: Marcano - Jason Marcano

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

Site Information:
Customer Info: Jason Marcano Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Ft. White 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: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 5 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	T20513609	A1GE	6/19/20
2	T20513610	A2	6/19/20
3	T20513611	A4	6/19/20
4	T20513612	T01	6/19/20
5	T20513613	T01GE	6/19/20

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

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: Albani, Thomas
My license renewal date for the state of Florida is February 28, 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.

THOMAS A. ALBANI
LICENSE
No. 39380
STATE OF FLORIDA
PROFESSIONAL ENGINEER

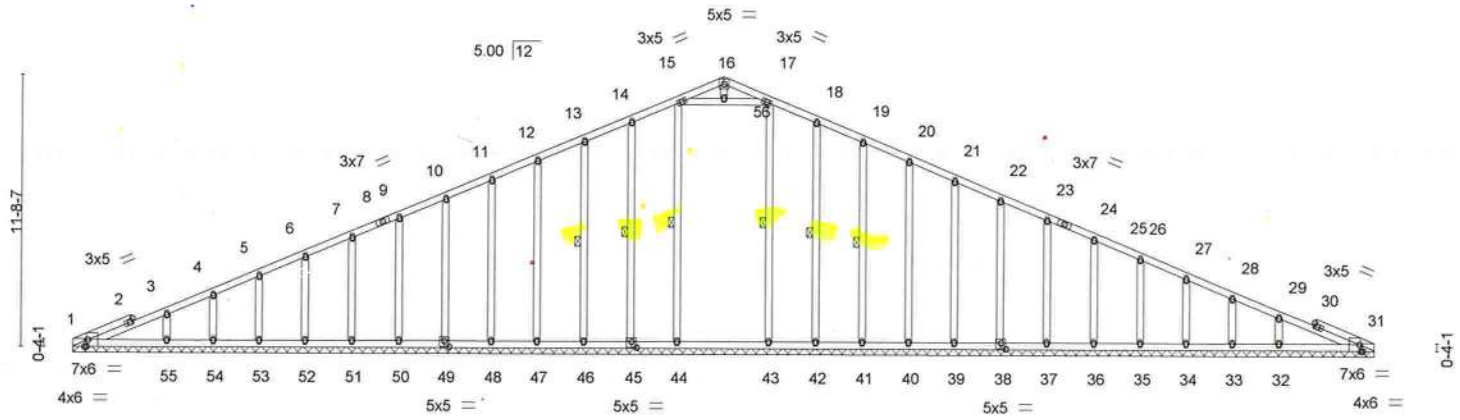
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
June 19,2020

Job	Truss	Truss Type	Qty	Ply	Jason Marcano
MARCANO	A1GE	Common Supported Gable	2	1	T20513609
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 19 11:43:26 2020 Page 1
ID:aBlbKcVnCQt86wPjU90WPuy57aS-w1Y4_AoBOKN9PcVhXCx?CueB6ErPOy6TPQ2XOQz4k3F

28-0-8 / 28-0-8 | 56-1-0 / 28-0-8

Scale = 1:99.3



56-1-0 / 56-1-0

Plate Offsets (X,Y)-- [1:0-0-11,Edge], [1:0-1-13,Edge], [31:0-1-13,Edge], [31:0-0-11,Edge], [38:0-2-8,0-3-0], [45:0-2-8,0-3-0], [49:0-2-8,0-3-0]

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	31	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 391 lb	FT = 0%

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 15-44, 14-45, 13-46, 17-43, 18-42, 19-41

REACTIONS. All bearings 56-1-0.
(lb) - Max Horz 1=-207(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32
Max Grav All reactions 250 lb or less at joint(s) 1, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 31 except 44=331(LC 17), 55=306(LC 1), 43=302(LC 18), 32=306(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-108/288, 14-15=-120/324, 17-18=-120/324, 18-19=-108/288

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=2ft; Cat. II; Exp B; 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 19,2020

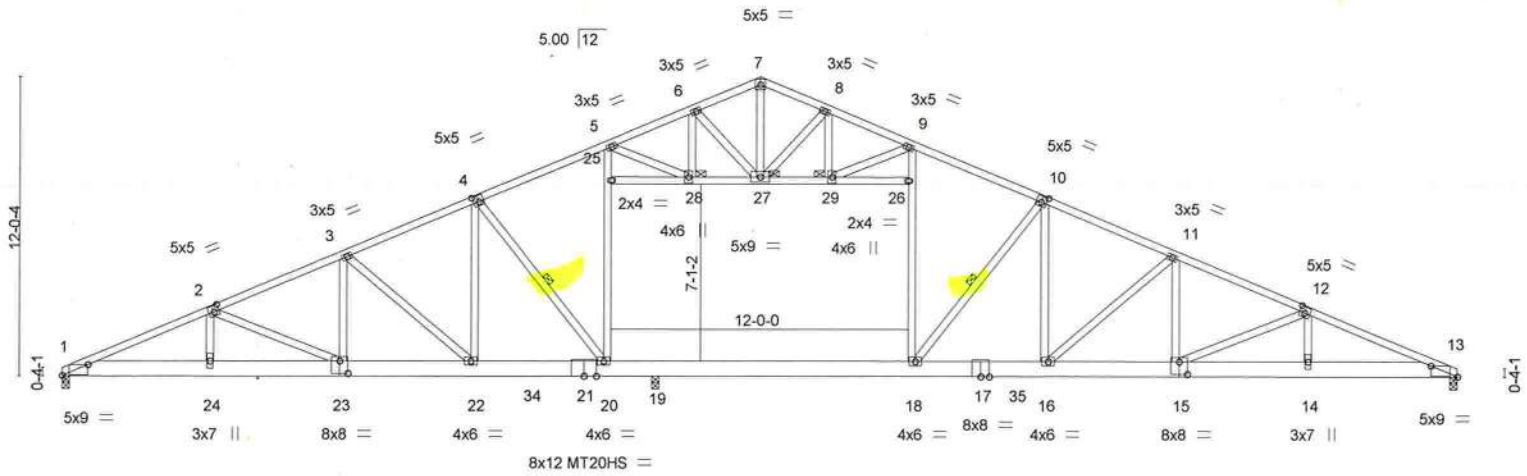
Job	Truss	Truss Type	Qty	Ply	Jason Marcano
MARCANO	A2	Attic	14	1	T20513610
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 19 11:43:29 2020 Page 1

ID:aBIbKcVnCQt86wPjU90WPuy57aS-KcDDdCq4hFlkG4EGDKViqXGZ8Rlwb7zv5OHC_Iz4k3C

5-11-9	11-3-4	16-7-0	21-10-12	25-3-13	28-0-8	30-9-3	34-2-4	39-6-0	44-9-12	50-1-7	56-1-0
5-11-9	5-3-12	5-3-12	5-3-12	3-5-1	2-8-11	2-8-11	3-5-1	5-3-12	5-3-12	5-3-12	5-11-9

Scale = 1:92.6



5-11-9	11-3-4	16-7-0	21-10-12	23-10-4	32-2-12	34-2-4	39-6-0	44-9-12	50-1-7	56-1-0
5-11-9	5-3-12	5-3-12	5-3-12	1-11-8	8-4-8	1-11-8	5-3-12	5-3-12	5-3-12	5-11-9

Plate Offsets (X,Y)-- [1:1-0-6,Edge], [2:0-2-8,0-3-0], [4:0-2-8,0-3-0], [10:0-2-8,0-3-0], [12:0-2-8,0-3-0], [13:1-0-6,Edge], [15:0-4-0,0-6-0], [23:0-4-0,0-6-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.63	16-18	>611	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-1.24	16-18	>311	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.12	13	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Attic	-0.63	18-19	393	360	Weight: 438 lb	FT = 0%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 10-18, 4-20
JOINTS	1 Brace at Jt(s): 27, 28, 29

REACTIONS. (size) 1=0-3-8, 13=0-3-8, 19=0-3-8
Max Horz 1=-211(LC 10)
Max Grav 1=1851(LC 19), 13=2183(LC 19), 19=1520(LC 18)

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

TOP CHORD 1-2=-4378/674, 2-3=-4027/586, 3-4=-3446/504, 4-5=-3283/414, 5-6=-1924/371, 6-7=-1489/336, 7-8=-1509/338, 8-9=-2089/386, 9-10=-3354/425, 10-11=-4211/567, 11-12=-4673/632, 12-13=-5176/726

BOT CHORD 1-24=-551/3976, 23-24=-552/3972, 22-23=-379/3526, 20-22=-206/3005, 19-20=-34/2934, 18-19=-34/2934, 16-18=-265/3789, 15-16=-422/4235, 14-15=-600/4721, 13-14=-599/4727

WEBS 27-28=-1328/124, 27-29=-1073/104, 18-26=-12/885, 9-26=0/901, 10-18=-1355/375, 10-16=-179/1025, 11-16=-593/205, 11-15=0/331, 12-15=-551/197, 7-27=-171/988, 20-25=-121/725, 5-25=-38/739, 4-20=-821/288, 4-22=-134/572, 3-22=-785/227, 3-23=-14/443, 2-23=-540/191, 6-27=-475/111, 6-28=-21/507, 8-27=-846/141, 8-29=-28/574, 5-28=-1208/113, 9-29=-1385/131

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; 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) 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, with BCDL = 10.0psf.
6) Ceiling dead load (5.0 psf) on member(s). 25-28, 27-28, 27-29, 26-29; Wall dead load (5.0psf) on member(s).18-26, 20-25
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-20, 18-19
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Attic room checked for L/360 deflection.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

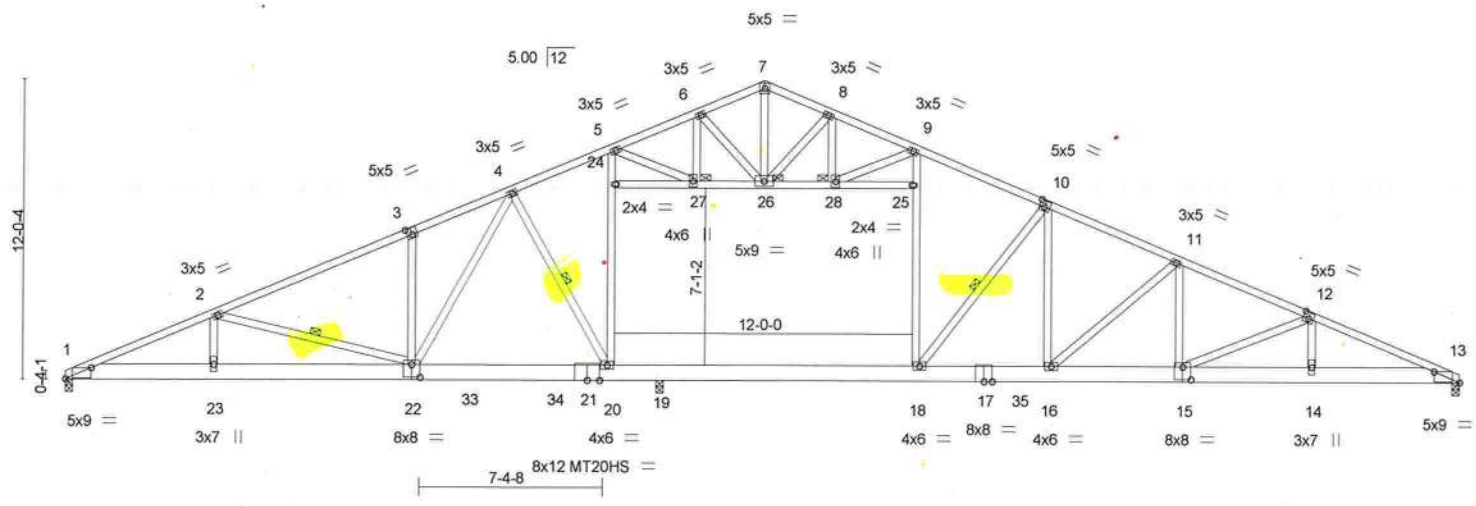
June 19,2020

Job	Truss	Truss Type	Qty	Ply	Jason Marcano
MARCANO	A4	ATTIC	2	1	T20513611
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 19 11:43:32 2020 Page 1
ID:aBIbKcVnCQt86wPjU90WPuy57aS-IBvLFDsyzA8J7XyruS2PS9u2_fmsoUOLnMVsb4z4k39

5-11-9	13-10-12	17-10-12	21-10-12	25-3-13	28-0-8	30-9-3	34-2-4	39-6-0	44-9-12	50-1-7	56-1-0
5-11-9	7-11-3	4-0-0	4-0-0	3-5-1	2-8-11	2-8-11	3-5-1	5-3-12	5-3-12	5-3-12	5-11-9

Scale = 1:92.6



5-11-9	13-10-12	17-10-12	21-10-12	23-10-4	32-2-12	34-2-4	39-6-0	44-9-12	50-1-7	56-1-0
5-11-9	7-11-3	4-0-0	4-0-0	1-11-8	8-4-8	1-11-8	5-3-12	5-3-12	5-3-12	5-11-9

Plate Offsets (X,Y)-- [1:1-0-6,Edge], [3:0-2-8,0-3-4], [10:0-2-8,0-3-0], [12:0-2-8,0-3-0], [13:1-0-6,Edge], [15:0-4-0,0-6-0], [22:0-4-0,0-6-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.65	18	>597	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-1.26	16-18	>305	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.12	13	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS		Attic	-0.65	18-19	381	360	Weight: 435 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-18, 4-20, 2-22
JOINTS 1 Brace at Jt(s): 26, 27, 28

REACTIONS. (size) 1=0-3-8, 13=0-3-8, 19=0-3-8
Max Horz 1=-211(LC 10)
Max Grav 1=1861(LC 19), 13=2184(LC 19), 19=1552(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4509/683, 2-3=-3768/531, 3-4=-3736/647, 4-5=-3248/415, 5-6=-1915/372, 6-7=-1485/337, 7-8=-1506/339, 8-9=-2089/387, 9-10=-3355/423, 10-11=-4214/567, 11-12=-4676/632, 12-13=-5179/726
BOT CHORD 1-23=-569/4085, 22-23=-569/4085, 20-22=-161/3042, 19-20=-33/2932, 18-19=-33/2932, 16-18=-264/3793, 15-16=-422/4237, 14-15=-599/4724, 13-14=-598/4729
WEBS 26-27=-1339/121, 26-28=-1071/102, 18-25=-11/892, 9-25=0/908, 10-18=-1360/376, 10-16=-180/1028, 11-16=-592/204, 11-15=0/331, 12-15=-551/197, 7-26=-173/982, 20-24=-118/692, 5-24=-35/707, 4-20=-729/275, 4-22=-284/961, 3-22=-427/258, 2-22=-879/281, 2-23=0/310, 6-26=-462/113, 6-27=-19/508, 8-26=-851/141, 8-28=-27/576, 5-27=-1212/108, 9-28=-1390/130

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; 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) 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, with BCDL = 10.0psf.
6) Ceiling dead load (5.0 psf) on member(s). 24-27, 26-27, 26-28, 25-28; Wall dead load (5.0psf) on member(s).18-25, 20-24
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-20, 18-19
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Attic room checked for L/360 deflection.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

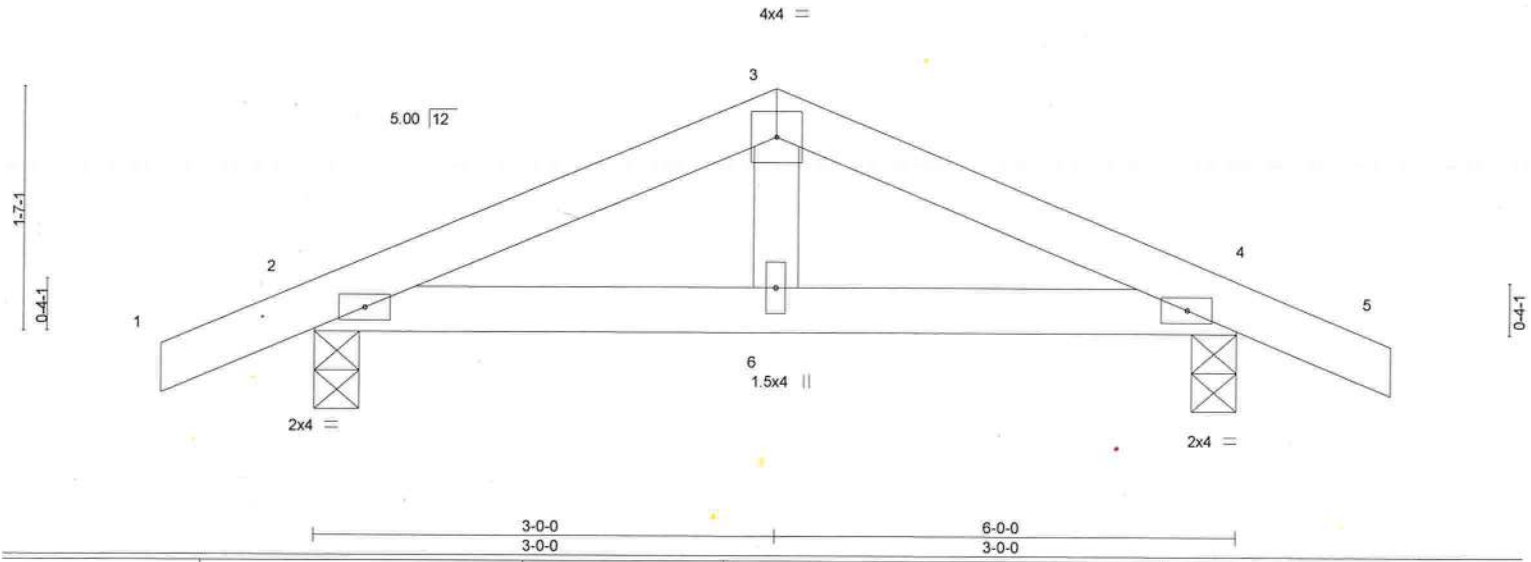
June 19,2020

Job	Truss	Truss Type	Qty	Ply	Jason Marcano
MARCANO	T01	Common	8	1	T20513612
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 19 11:43:33 2020 Page 1
ID:RZqzi0dPF8qN2lHedRkneOzjZrU-DNTjSZtakUGAlhX1SAZe_NRPf2FJX9XU00FP8Wz4k38

-1-0-0 / 1-0-0 | 3-0-0 / 3-0-0 | 6-0-0 / 3-0-0 | 7-0-0 / 1-0-0

Scale = 1:15.0



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	0.08	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 24 lb	FT = 0%

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-24(LC 10)
Max Uplift 2=-25(LC 12), 4=-25(LC 12)
Max Grav 2=300(LC 1), 4=300(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-323/123, 3-4=-323/123
BOT CHORD 2-6=-42/277, 4-6=-42/277

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(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) 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) 2, 4.
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.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

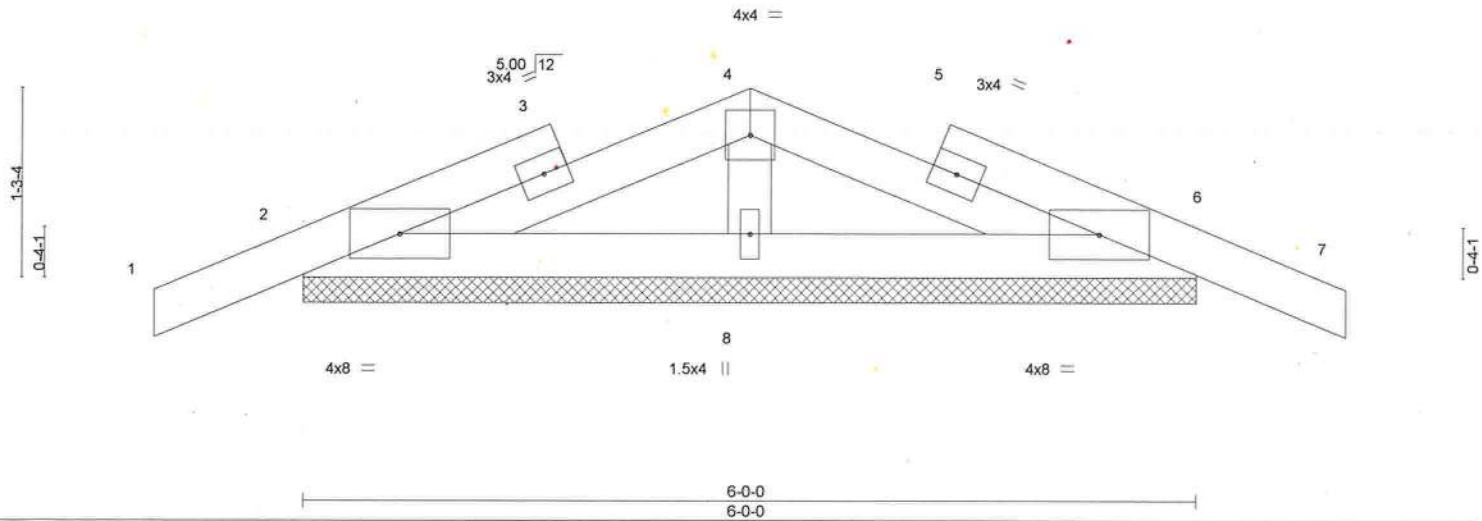
June 19,2020

Job	Truss	Truss Type	Qty	Ply	Jason Marcano
MARCANO	T01GE	Common Supported Gable	2	1	T20513613
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 19 11:43:34 2020 Page 1
ID:RZqzi0dPF8qN2lHedRkneOzjZrU-hZ16gvuDVnO1Mr6E?t5tXazatSb0GcreFf_ygyz4k37

-1-0-0 3-0-0 6-0-0 7-0-0
1-0-0 3-0-0 3-0-0 1-0-0

Scale = 1:15.5



6-0-0
6-0-0

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	0.12	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 26 lb	FT = 0%

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=6-0-0, 6=6-0-0, 8=6-0-0
Max Horz 2=-19(LC 10)
Max Uplift 2=-33(LC 12), 6=-33(LC 12)
Max Grav 2=167(LC 21), 6=167(LC 22), 8=282(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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C 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) 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) 2, 6.

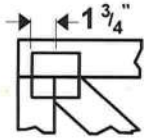
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 19,2020

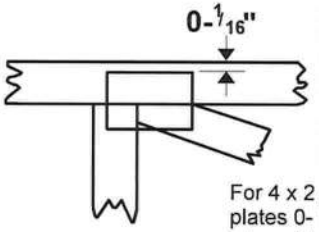
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

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

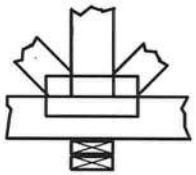
4 x 4

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

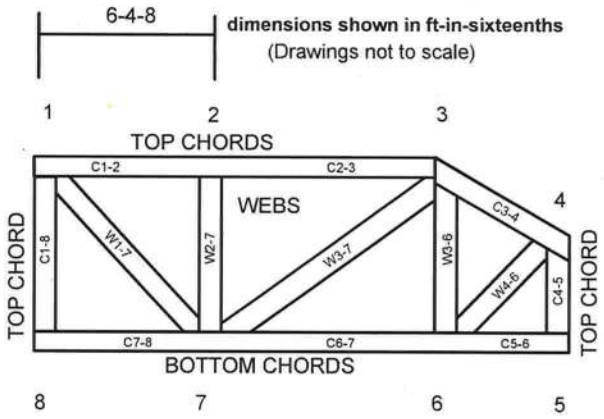


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

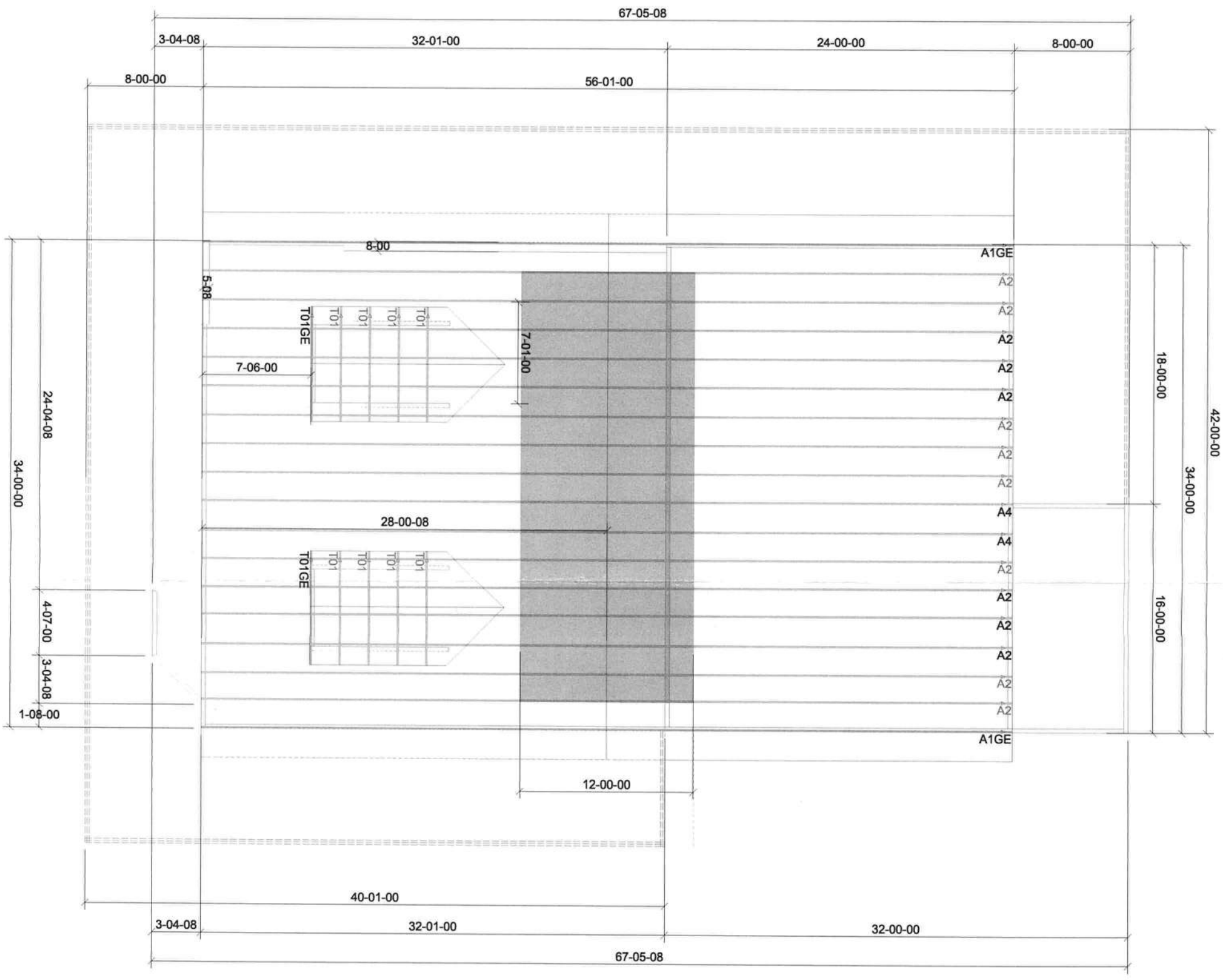
MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

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.



Jason Marcano	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 O.C.	Client: IND-RES Date: 6/19/2020 Quote Date: / / Seal Date: / / Designer: Jason DeGroff Job Number: 1219-050	Mayo Truss Company Inc. Ph. (386) 294-3988 Fax (386) 294-3981 mayotruss@windstream.net