



73

RE: Model_1
Model I

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

Site Information:

Customer: David Infinger Project Name: Model_1
Lot/Block: . Model: .
Address: . Subdivision: .
City: Columbia County State: FL

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

Design Code: FBC2017/TPI2014
Wind Code: ASCE 7-10
Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.2
Wind Speed: 130 mph
Floor Load: N/A psf

This package includes 17 individual, dated 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	T16795153	a1ge	4/16/2019
2	T16795154	a2	4/16/2019
3	T16795155	a3	4/16/2019
4	T16795156	a4	4/16/2019
5	T16795157	a5	4/16/2019
6	T16795158	b1ge	4/16/2019
7	T16795159	b2	4/16/2019
8	T16795160	b3ge	4/16/2019
9	T16795161	c1ge	4/16/2019
10	T16795162	c2	4/16/2019
11	T16795163	c3gir	4/16/2019
12	T16795164	d1ge	4/16/2019
13	T16795165	d2	4/16/2019
14	T16795166	e1ge	4/16/2019
15	T16795167	e2	4/16/2019
16	T16795168	e3gir	4/16/2019
17	T16795169	f1	4/16/2019

FILE COPY



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.
Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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 PE No. 39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

April 16, 2019

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795154
Model_1	A2	Common	9	1	Job Reference (optional)	

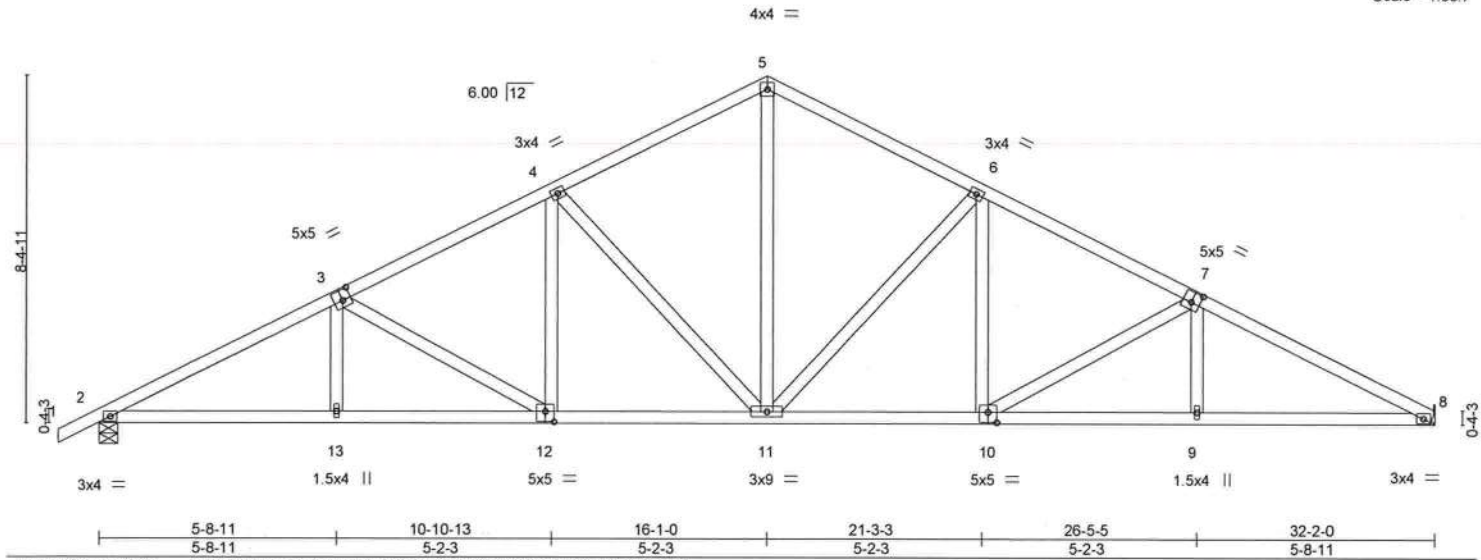
Mayo Truss Company, Inc., Mayo, FL - 32066,

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:12:50 2019 Page 1

ID: qLBW6X3UV8Lj4xR7JXFIEAy599j-b4GH_gjMELtqY1VMO1ZaNmGva21wz8gNNrfa2zQBMR

1-0-0	5-8-11	10-10-13	16-1-0	21-3-3	26-5-5	32-2-0
1-0-0	5-8-11	5-2-3	5-2-3	5-2-3	5-2-3	5-8-11

Scale = 1:53.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.12 11 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.25 10-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.10 8 n/a n/a				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							
								Weight: 176 lb		FT = 0%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		

REACTIONS. (lb/size) 2=1348/0-5-8, 8=1286/Mechanical
Max Horz 2=147(LC 11)
Max Uplift 2=-25(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2450/584, 3-4=-1995/537, 4-5=-1523/485, 5-6=-1523/485, 6-7=-1997/538,
7-8=-2444/589
BOT CHORD 2-13=-445/2135, 12-13=-446/2131, 11-12=-289/1714, 10-11=-289/1715, 9-10=-451/2141,
8-9=-450/2144
WEBS 5-11=-269/996, 6-11=-616/229, 6-10=-31/385, 7-10=-488/188, 4-11=-614/227,
4-12=-29/384, 3-12=-479/183

- 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=32ft; 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
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Date:

April 16, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795155
Model_1	A3	Scissor	5	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066.

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ID: qLBW6X3UV8Lj4xR7JXFIEAy599j-YSO1PMicly7YnKfIWSc2SBmpMsfGR4egq98lfwzQBMP

1-0-0	5-9-10	10-11-5	16-1-0	21-2-11	26-4-6	32-2-0
1-0-0	5-9-10	5-1-11	5-1-11	5-1-11	5-1-11	5-9-10

Scale = 1.57.7

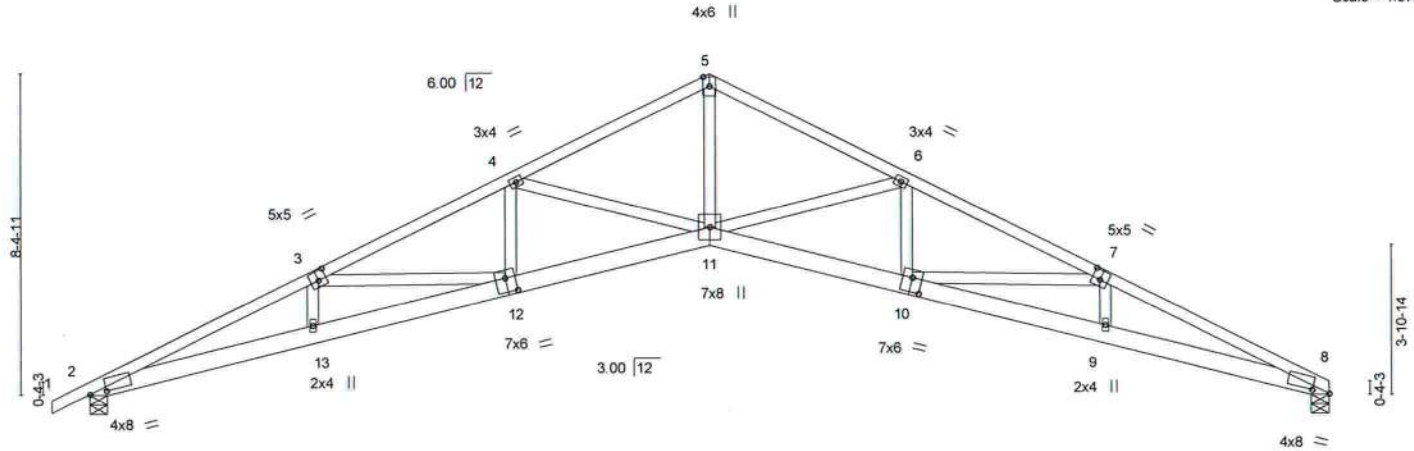


Plate Offsets (X,Y)-- [2:0-5-5,0-0-1], [3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [8:0-5-5,0-0-1], [10:0-3-0,0-4-8], [12:0-3-0,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	Vert(LL)	-0.36	11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.79	Vert(CT)	-0.71	11	>540		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.51	Horz(CT)	0.48	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS					Weight: 179 lb	FT = 0%
	Code FBC2017/TPI2014							

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(lb/size) 8=1286/0-5-8, 2=1348/0-5-8
Max Horz 2=147(LC 11)
Max Uplift 2=-25(LC 12)

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

TOP CHORD 2-3=-4455/1007, 3-4=-3827/842, 4-5=-2924/631, 5-6=-2924/631, 6-7=-3831/844,
7-8=-4473/1017
BOT CHORD 2-13=-848/4056, 12-13=-852/4069, 11-12=-588/3471, 10-11=-590/3474, 9-10=-860/4085,
8-9=-857/4074
WEBS 5-11=-402/2255, 6-11=-859/316, 6-10=-20/376, 7-10=-613/262, 4-11=-856/314,
4-12=-19/375, 3-12=-600/255

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=32ft; 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) Bearing at joint(s) 8, 2 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) 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

April 16, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795156
Model_1	A4	Scissor	5	1		

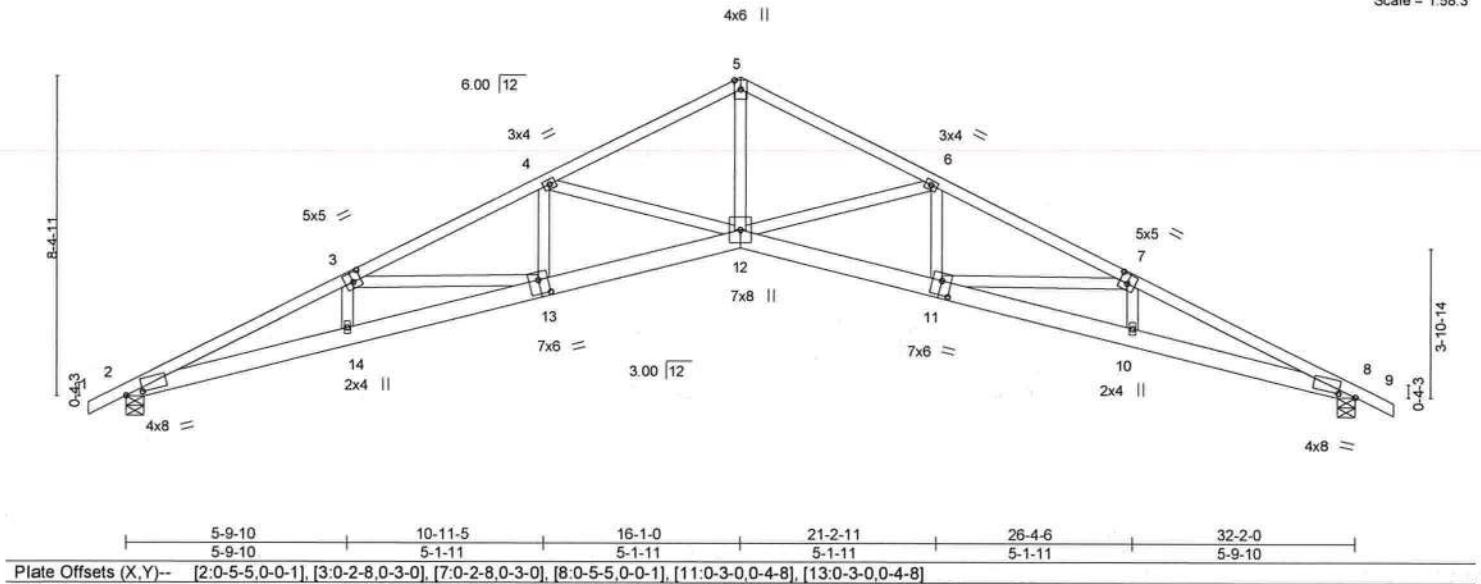
Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:qLBW6X3UV8Lj4xR7JXFIEAy599j-UrW0q2nsHZNG1ep7dseWXcr9yflvv_9zHTdsjpbzQBMN

1-0-0 5-9-10 10-11-5 16-1-0 21-2-11 26-4-6 32-2-0 33-2-0
1-0-0 5-9-10 5-1-11 5-1-11 5-1-11 5-1-11 5-9-10 1-0-0

Scale = 1:58.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.36	12	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.71	12	>541	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.48	8	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 181 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 2=1347/0-5-8, 8=1347/0-5-8
Max Horz 2=150(LC 10)
Max Uplift 2=24(LC 12), 8=24(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4451/974, 3-4=-3823/815, 4-5=-2920/606, 5-6=-2920/606, 6-7=-3823/817,
7-8=-4451/984
BOT CHORD 2-14=-797/4053, 13-14=-802/4065, 12-13=-545/3467, 11-12=-546/3467, 10-11=-812/4065,
8-10=-808/4053
WEBS 5-12=-380/2252, 6-12=-856/314, 6-11=-19/375, 7-11=-601/257, 4-12=-856/314,
4-13=-19/375, 3-13=-601/258

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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6904 Parke East Blvd. Tampa FL 33610
Date:

April 16,2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

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1-0-0	4-10-12	9-3-0	12-8-0	16-1-0	19-3-8	23-4-13	27-6-3	32-2-0
1-0-0	4-10-12	4-4-4	3-5-0	3-5-0	3-2-8	4-1-5	4-1-5	4-7-13

Scale = 1:57.9

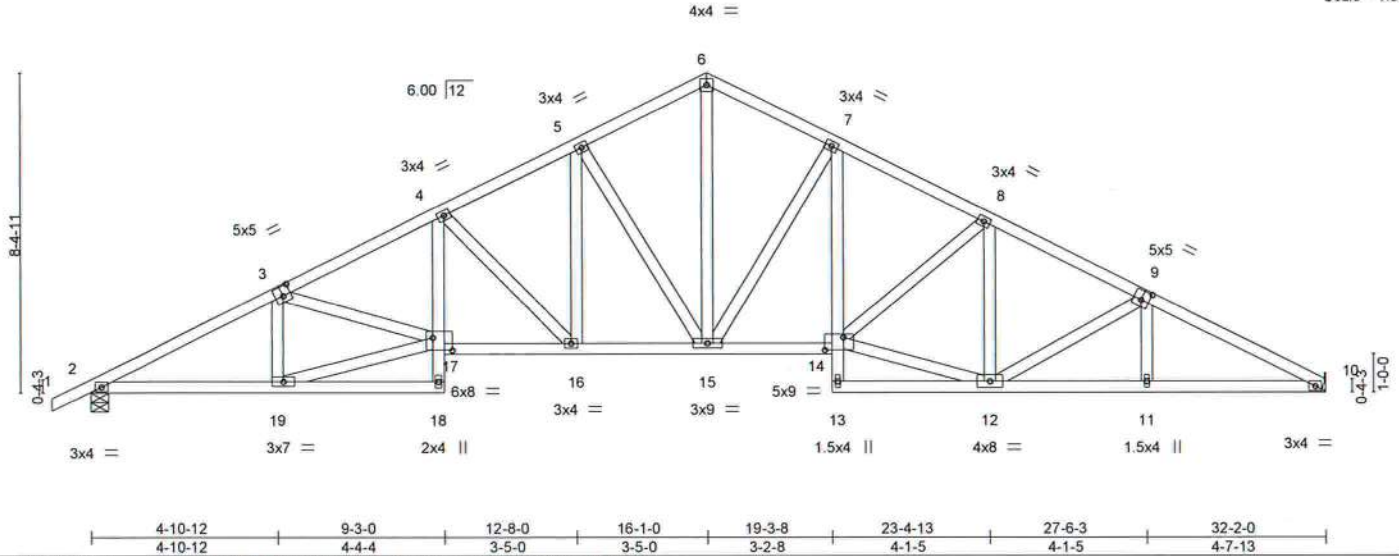


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [9:0-2-8,0-3-0], [14:0-5-12,0-4-0], [17:0-6-0,0-4-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL) -0.15 16-17 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.58	Vert(CT) -0.31 16-17 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.15 10 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS		Weight: 206 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.

(lb/size) 2=1348/0-5-8, 10=1286/Mechanical
Max Horz 2=147(LC 11)
Max Uplift 2=-25(LC 12)

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

TOP CHORD	2-3=-2483/588, 3-4=-2791/681, 4-5=-2116/575, 5-6=-1691/519, 6-7=-1690/520, 7-8=-2171/582, 8-9=-2150/560, 9-10=-2505/598
BOT CHORD	2-19=-459/2172, 4-17=-110/690, 10-17=-450/2465, 15-16=-273/1849, 14-15=-281/1897, 7-14=-127/679, 11-12=-472/2192, 10-11=-471/2195
WEBS	3-19=-496/177, 17-19=-460/2134, 3-17=-0/268, 4-16=-869/250, 5-16=-113/575, 5-15=-699/231, 6-15=-355/1261, 7-15=-798/249, 12-14=-347/1859, 8-12=-268/79, 9-12=-377/147

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Expose 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

April 16, 2019



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795158
Model_1	B1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:12:56 2019 Page 1

ID:qLBW6X3UV8Lj4xR7JXFIEAy599j-QEdYFko7pBd_GyyVMHg_d1wbYTD6N??GIn6yoizQBML



Scale = 1:37.1

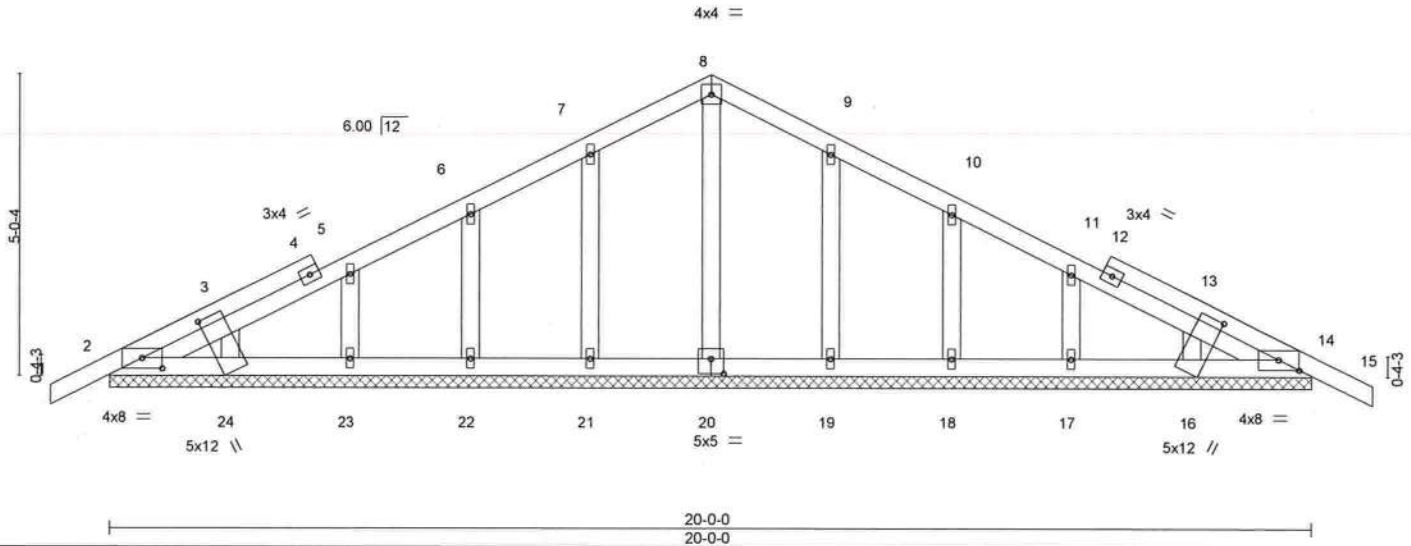


Plate Offsets (X,Y)--	[2:0-0-0,0-2-1], [3:0-0-0,0-1-15], [13:0-0-0,0-1-15], [14:0-0-0,0-2-1], [16:0-1-8,1-1-2], [20:0-2-8,0-3-0], [24:0-1-8,1-1-2]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	-0.00	15	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	15	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	14	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 106 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 10-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=-85(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 19, 18, 17.



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Date:

April 16,2019

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795159
Model_1	B2	Common	10	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:12:58 2019 Page 1
ID:qLBW6X3UV8Lj4xR7JXFIEAy599j-MclIfPqNLothVF6vsijSiS0uJGpCrSLZC5b3sazQBMJ

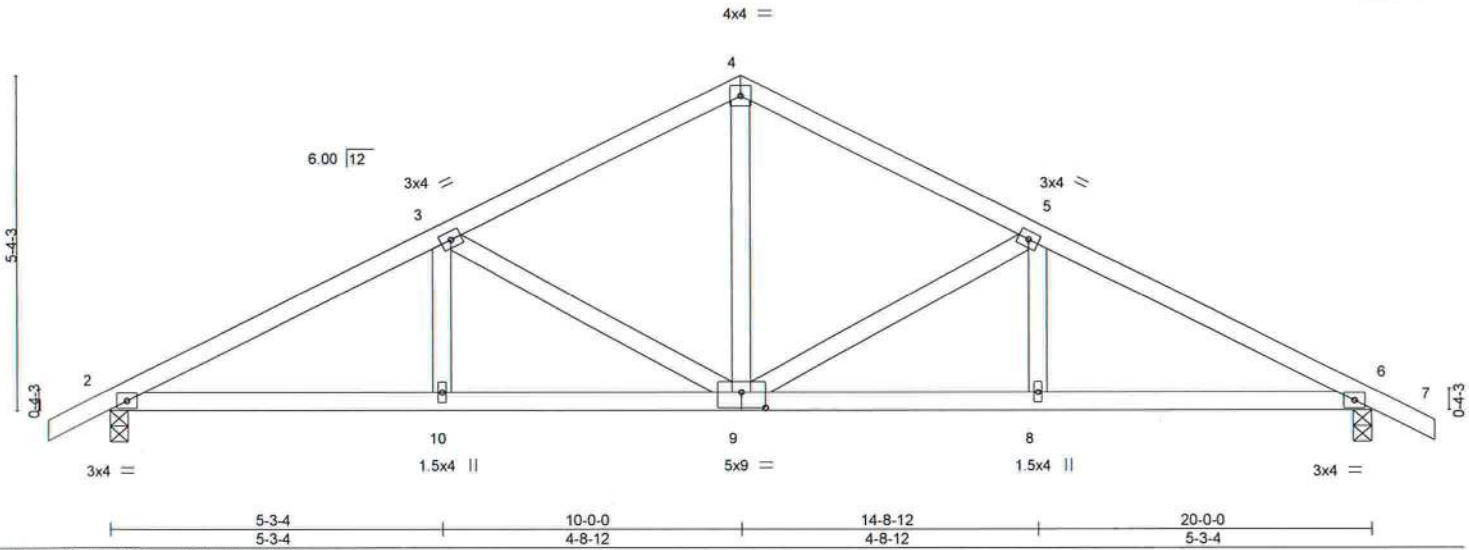
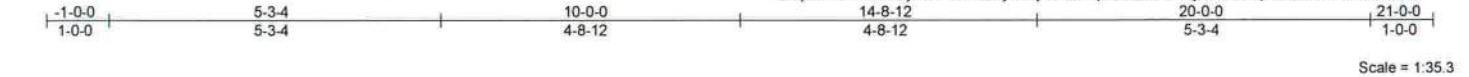


Plate Offsets (X,Y)-- [9:0-4-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	-0.04	9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.09	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.04	6	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 96 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. (lb/size) 2=860/0-3-8, 6=860/0-3-8
Max Horz 2=91(LC 10)
Max Uplift 2=24(LC 12), 6=24(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1398/339, 3-4=-973/288, 4-5=-973/288, 5-6=-1398/339
BOT CHORD 2-10=-210/1214, 9-10=-210/1214, 8-9=-215/1214, 6-8=-215/1214
WEBS 4-9=-112/547, 5-9=-476/177, 3-9=-476/177

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



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April 16, 2019

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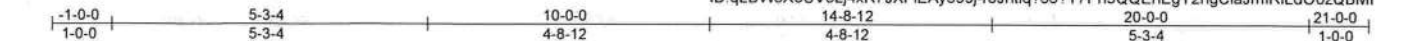
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795160
Model_1	B3GE	Common Structural Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:12:59 2019 Page 1

ID: qLBW6X3UV8Lj4xR7JXFIEAy599j-roJhtlq?66?Y7Ph5QQEHegY2hgClajmiRILdO0zQBMI



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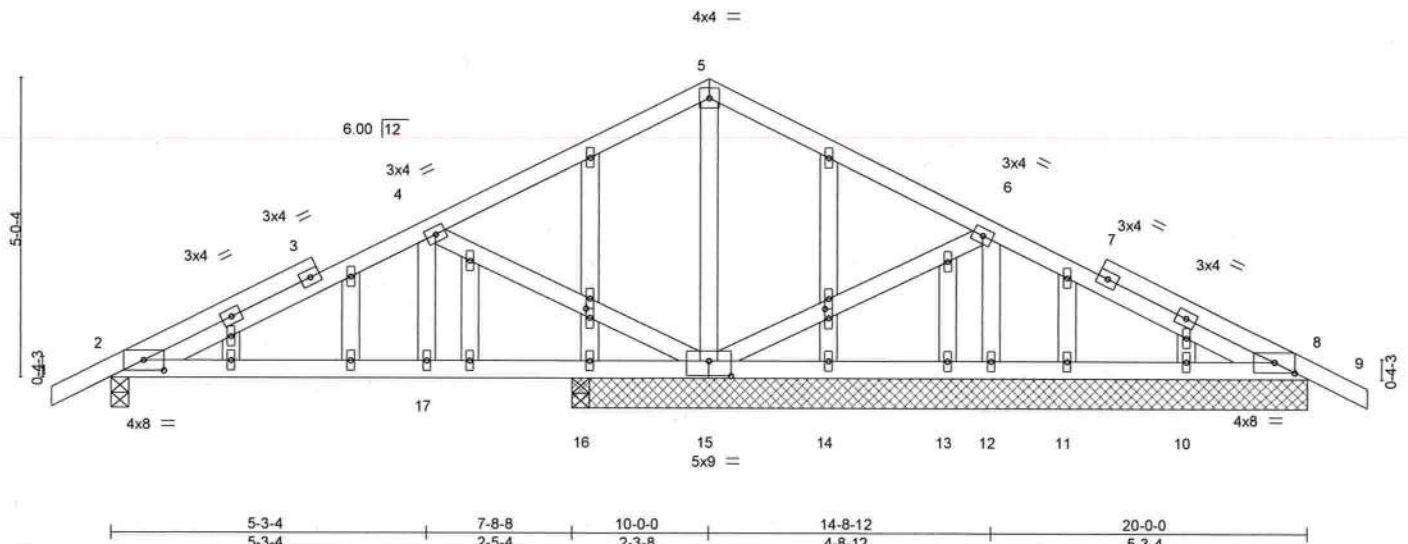


Plate Offsets (X,Y)-- [2:0-4-0-0-2-1], [8:0-4-0-0-2-1], [15:0-4-8-0-3-0], [18:0-1-14-0-0-12], [27:0-1-14-0-0-12]

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 0.26	Vert(LL)	-0.01 17-33	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.16	Vert(CT)	-0.03 17-33	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.00 15	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 124 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. All bearings 12-3-8 except (jt=length) 2=0-3-8, 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 2=86(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 15, 12
Max Grav All reactions 250 lb or less at joint(s) 8, 14, 13, 11, 10, 16, 16, 8 except 2=376(LC 21), 15=715(LC 1), 12=262(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-317/104
BOT CHORD 2-17=-5/291, 16-17=-5/291, 15-16=-5/291
WEBS 5-15=-415/124, 4-15=-480/187

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 15, 12, 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795161
Model_1	C1GE	Common Structural Gable	1	1	Job Reference (optional)	

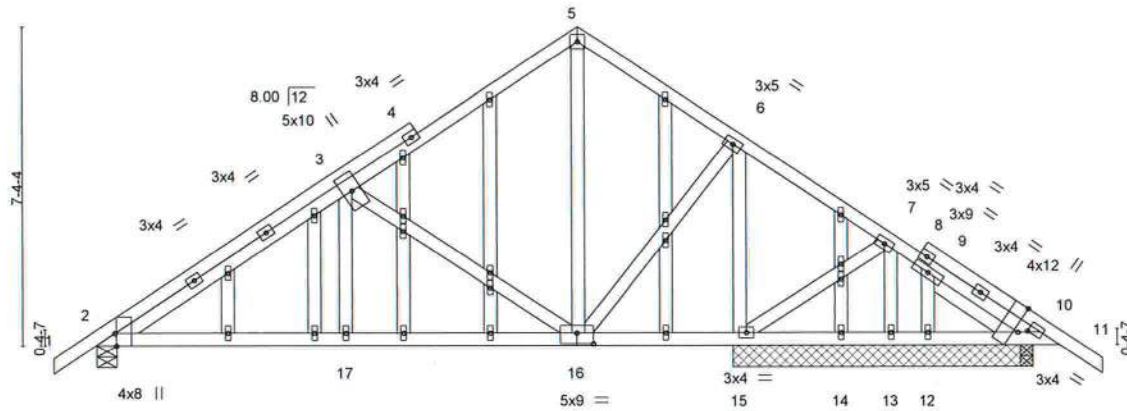
Mayo Truss Company, Inc., Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:13:01 2019 Page 1
ID:qLBW6X3UV8Lj4xR7JXFiEay599j-nBRRIRsFajFGMjrUXqG9K5eQzUsj2Al?u3qjTvzQBMG

1-0-0 5-8-7 11-0-0 14-8-5 18-1-11 22-0-0 23-0-0
1-0-0 5-8-7 5-3-9 3-8-5 3-5-7 3-10-5 1-0-0

4x4 =

Scale = 1:51.0



5-8-7 11-0-0 14-6-8 14-8-5 18-1-11 21-5-0 22-0-0
5-8-7 5-3-9 3-6-8 0-1-13 3-5-7 3-3-5 0-7-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [10:0-1-12,0-2-10], [10:0-7-0,Edge], [10:0-2-0,0-1-12], [16:0-4-8,0-3-0]

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 0.15	Vert(LL)	-0.02 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.04 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.01 15	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 178 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

All bearings 6-10-8 except (jt=length) 2=0-5-8.

(lb) - Max Horz 2=142(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13

Max Grav All reactions 250 lb or less at joint(s) 10, 10, 13, 14, 12 except 2=623(LC 1), 15=850(LC 1)

FORCES.

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

TOP CHORD 2-3=-707/132, 3-5=-319/133, 5-6=-303/140

BOT CHORD 2-17=-4/586, 16-17=-4/586

WEBS 3-16=-475/168, 6-16=-6/440, 6-15=-735/156

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13.
- 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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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795162
Model_1	C2	Common	2	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:qLBW6X3UV8Lj4xR7JXFIEAy599j-FN?pvntuP1N7_IQg5YnOslAZKuCCnde87jZH?LzQBMF

1-0-0	5-8-7	11-0-0	14-9-4	18-2-3	22-0-0	23-0-0
1-0-0	5-8-7	5-3-9	3-9-4	3-4-15	3-9-13	1-0-0

4x4 =

Scale = 1:48.7

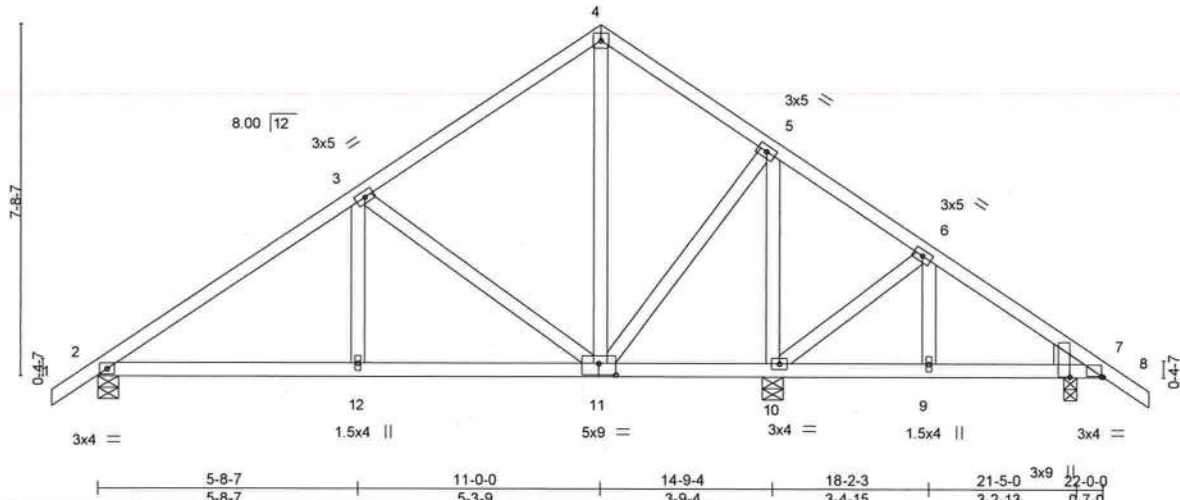


Plate Offsets (X,Y)-- [7:0-0-0,0-8-14], [7:0-0-7,0-0-2], [11:0-4-8,0-3-0]

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 0.30	Vert(LL)	-0.02	12-15	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.06	12-15	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.01	7	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-AS						
								Weight: 128 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Right: 2x6 SP No.2

BRACING-

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

REACTIONS.

(lb/size) 2=614/0-5-8, 10=966/0-5-8, 7=299/0-3-8
Max Horz 2=148(LC 11)
Max Uplift 2=-22(LC 12), 10=-62(LC 12), 7=-89(LC 12)
Max Grav 2=614(LC 1), 10=966(LC 1), 7=327(LC 22)

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

TOP CHORD 2-3=-722/118, 3-4=-317/127, 4-5=-303/136
BOT CHORD 2-12=0/583, 11-12=0/583
WEBS 3-11=-478/166, 5-11=-7/449, 5-10=-759/156

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; porch 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, 10, 7.
- 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.



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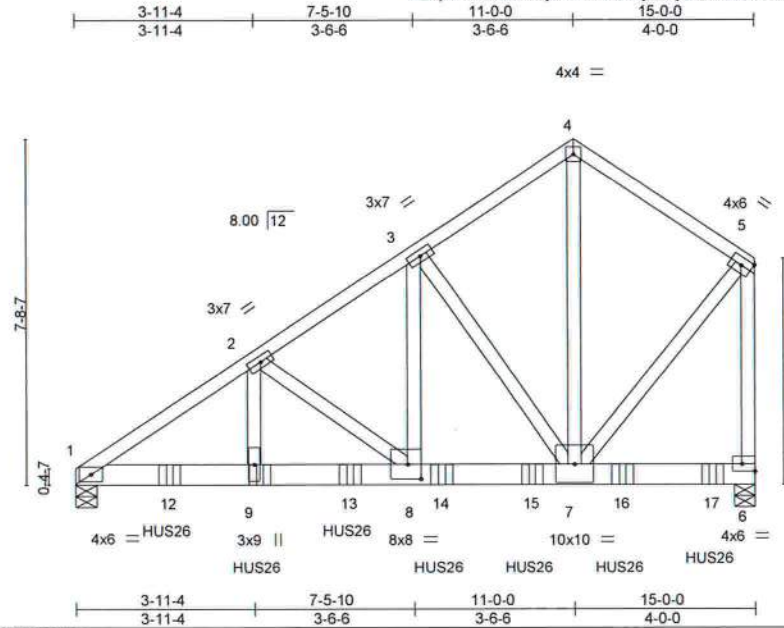
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795163
Model_1	C3GIR	Common Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:qLBW6X3UV8Lj4xR7JXFIEAy599j-Bm6ZwTu8xedrDAa3DzqsxjFubhqiFWiRb12N4EzQBMD



Scale = 1:49.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.06	8-9	>999	240	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.13	8-9	>999	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.03	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 225 lb	FT = 0%

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 4-4-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=4656/0-5-8, 6=5395/0-5-8
Max Horz 1=190(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7302/0, 2-3=-4902/0, 3-4=-2697/0, 4-5=-2702/0, 5-6=-4235/0
BOT CHORD 1-9=0/6060, 8-9=0/6060, 7-8=0/4031
WEBS 2-9=0/2595, 2-8=-2517/0, 3-8=0/3582, 3-7=-3161/0, 4-7=0/2741, 5-7=0/3430

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Use USP HUS26 (With 16d nails into Girder & 16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 1-6=-20
Concentrated Loads (lb)
Vert: 9=-1266(B) 12=-1266(B) 13=-1266(B) 14=-1266(B) 15=-1266(B) 16=-1266(B) 17=-1268(B)



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April 16, 2019

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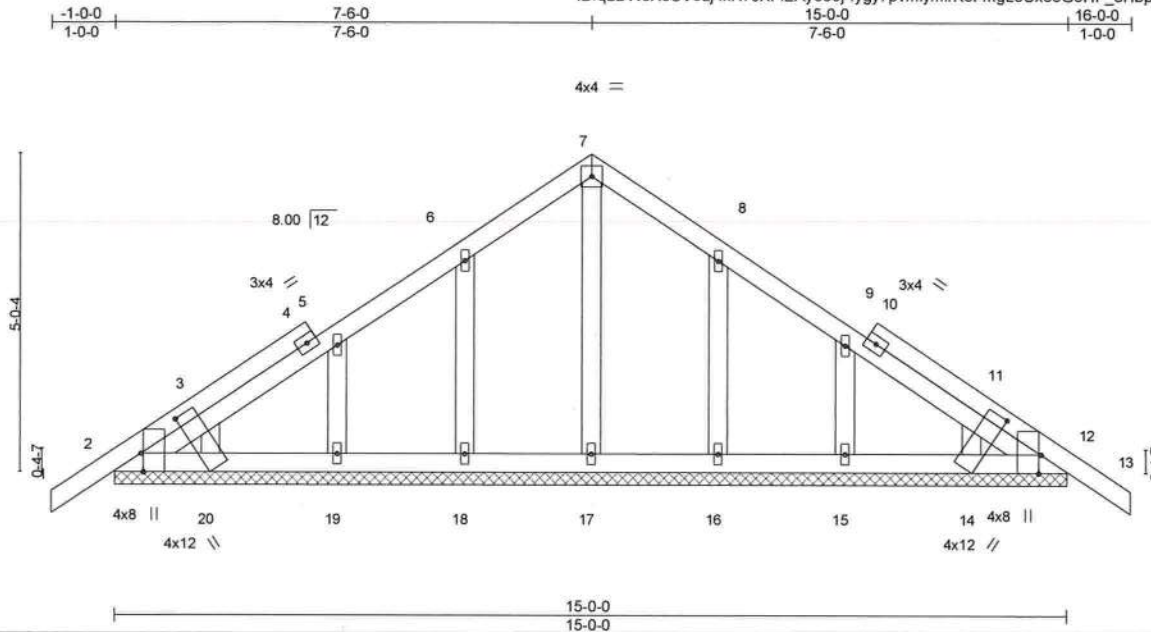
MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795164
Model_1	D1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:13:05 2019 Page 1
ID: qLBW6X3UV8Lj4xR7JXFIEAy599j-fygy7pvmyimrK8FmgL5Uxo8G5HF_3HbphoxczQBMC



Scale = 1:35.1

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-0-0,0-2-2], [11:0-0-0,0-2-2], [12:0-3-8,Edge], [14:0-1-14,0-8-15], [20:0-1-14,0-8-15]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	-0.00	13	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	13	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 85 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 10-0-0 oc bracing.

REACTIONS. All bearings 15-0-0.
(lb) - Max Horz 2=-98(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 16, 15
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 16, 15.



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Date:

April 16,2019

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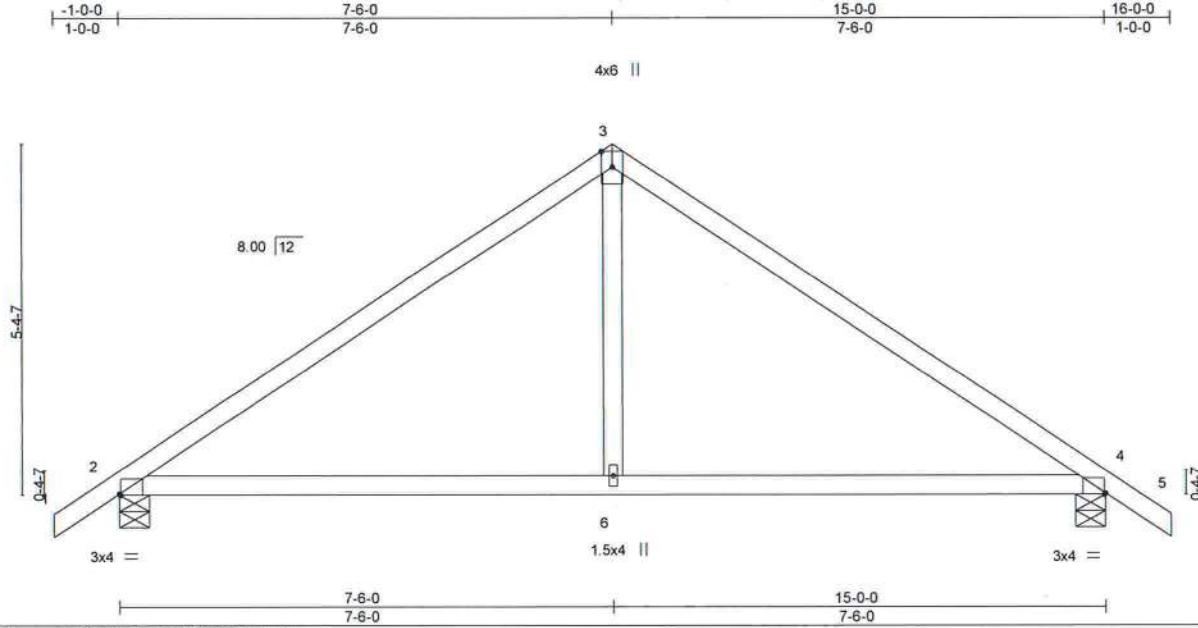


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795165
Model_1	D2	Common	3	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:13:06 2019 Page 1
ID: qLBW6X3UV8Lj4xR7JXFIEAy599j-79EKL8wOSFuZTjRK0sK18LBMVVDjVrk2LXU86zQBMB



Scale = 1:33.8

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	-0.08	6-9	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.17	6-9	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.01	4	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 60 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. (lb/size) 2=660/0-5-8, 4=660/0-5-8
Max Horz 2=-104(LC 10)
Max Uplift 2=-24(LC 12), 4=-24(LC 12)

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

TOP CHORD 2-3=-735/145, 3-4=-735/146
BOT CHORD 2-6=0/523, 4-6=0/523
WEBS 3-6=0/346

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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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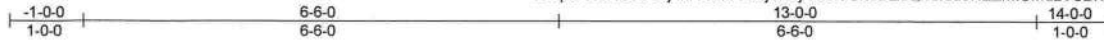


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795166
Model_1	E1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8/22/2018 10:16:20 AM MiTek Industries, Inc. Tue Apr 16 09:13:07 2019 Page 1
ID:qLBW6X3UV8Lj4xR7JXFIEAy599j-cLoiYUx0DZ0Q4eldu5NZZMIUmuzVSzvtH?H2gZzQBMA



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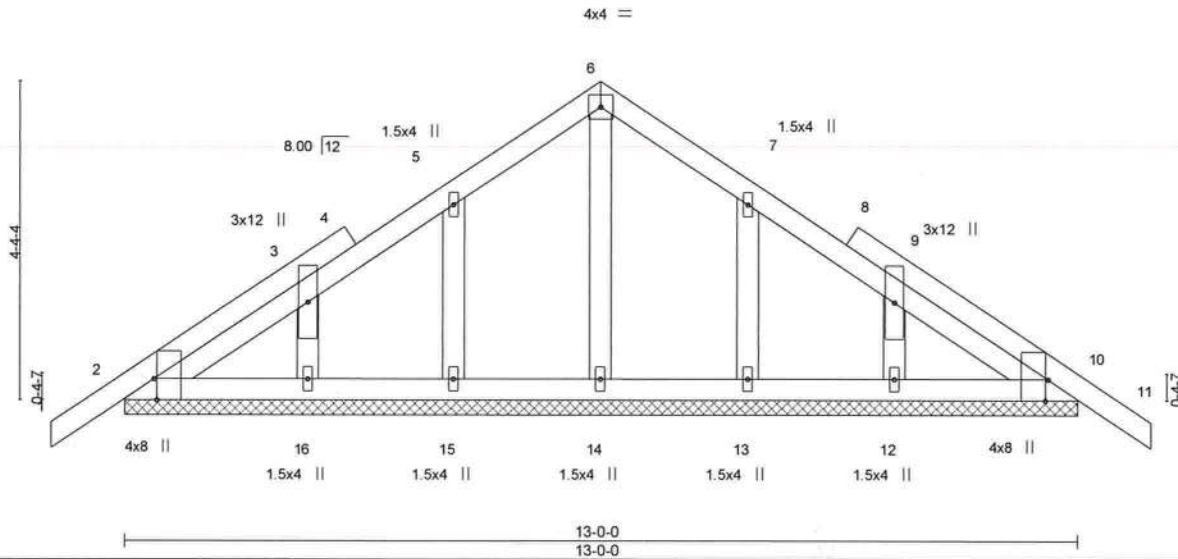


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [10:0-3-8,Edge]

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	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S					Weight: 72 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 10-0-0 oc bracing.

REACTIONS. All bearings 13-0-0.
(lb) - Max Horz 2=86(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.



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April 16,2019

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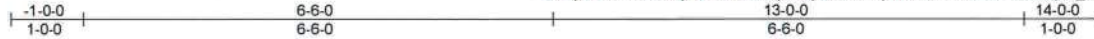
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Job	Truss	Truss Type	Qty	Ply	Model 1	T16795167
Model_1	E2	Common	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066.

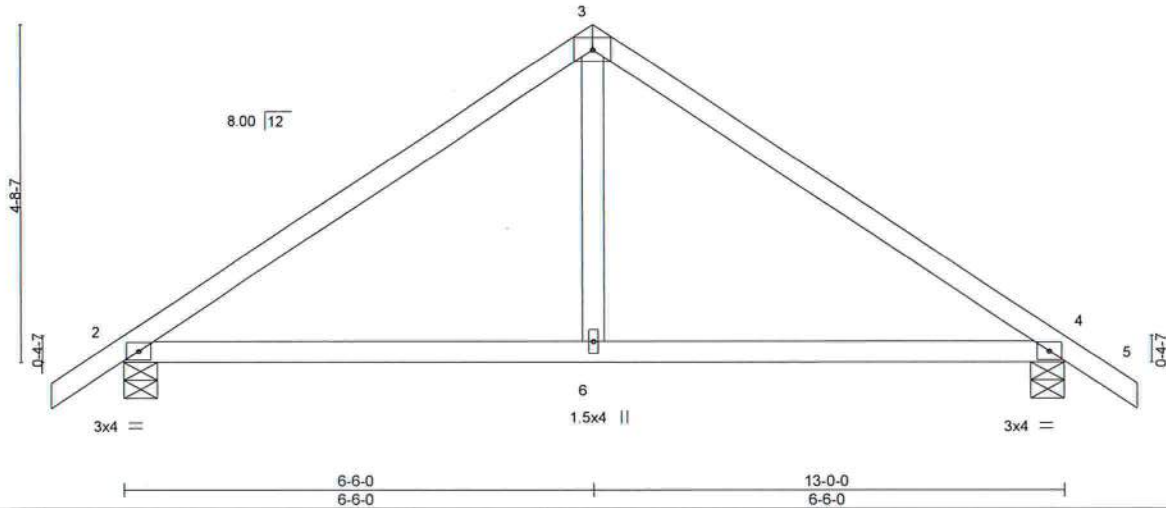
8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:13:09 2019 Page 1

ID: qLBW6X3UV8Lj4xR7JXFIEAy599j-YkwSzAyHAG8KxS07WP1enzkyiZ_wsmAkJm8IRzQBM8



4x6 =

Scale = 1:30.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.40	Vert(LL) -0.05	6-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.42	Vert(CT) -0.10	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS					Weight: 53 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.

(lb/size) 2=580/0-5-8, 4=580/0-5-8
Max Horz 2=92(LC 11)
Max Uplift 2=24(LC 12), 4=24(LC 12)

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

TOP CHORD 2-3=-633/130, 3-4=-633/131
BOT CHORD 2-6=0/451, 4-6=0/451
WEBS 3-6=0/300

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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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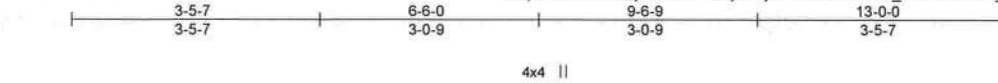
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795168
Model_1	E3GIR	Common Girder	1	2	Job Reference (optional)	

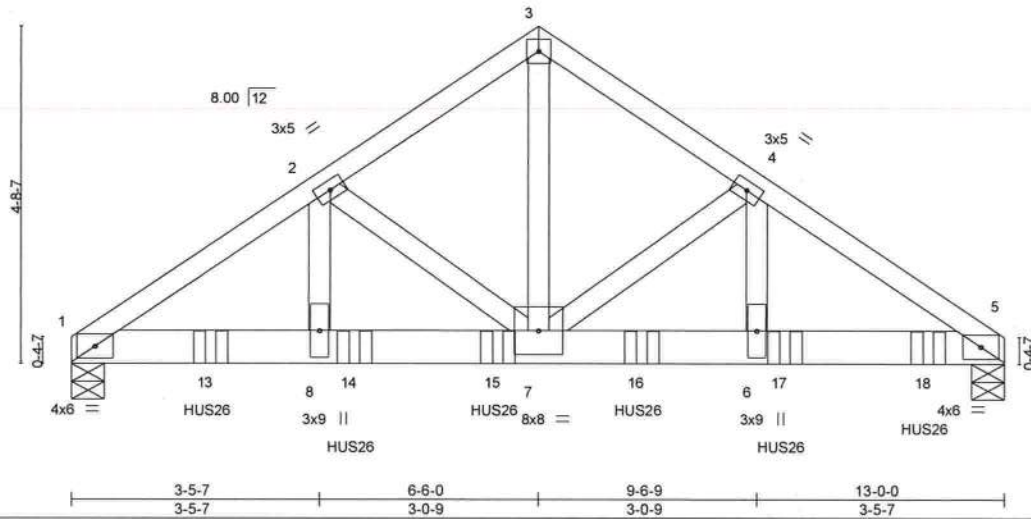
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:13:10 2019 Page 1

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Scale = 1:31.0



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 0.37	Vert(LL)	-0.06	6-7	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.11	6-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.52	Horz(CT)	0.04	5	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 152 lb	FT = 0%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 1=4061/0-5-8, 5=4573/0-5-8
Max Horz 1=80(LC 24)

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

TOP CHORD 1-2=-6362/0, 2-3=-4379/0, 3-4=-4392/0, 4-5=-6453/0
BOT CHORD 1-8=0/5283, 7-8=0/5283, 6-7=0/5369, 5-6=0/5369
WEBS 3-7=0/4611, 4-7=-2190/0, 4-6=0/2242, 2-7=-2082/0, 2-8=0/2149

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Use USP HUS26 (With 16d nails into Girder & 16d 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.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 13=-1266(F) 14=-1266(F) 15=-1266(F) 16=-1266(F) 17=-1266(F) 18=-1266(F)



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Model 1	T16795169
Model_1	F1	Common	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Apr 16 09:13:11 2019 Page 1

ID: qLBW6X3UV8Lj4xR7JXFIEAy599j-U61DOs_XHoWzZFcP7xSVkC27rWH3OneTccFFqKzQBM6



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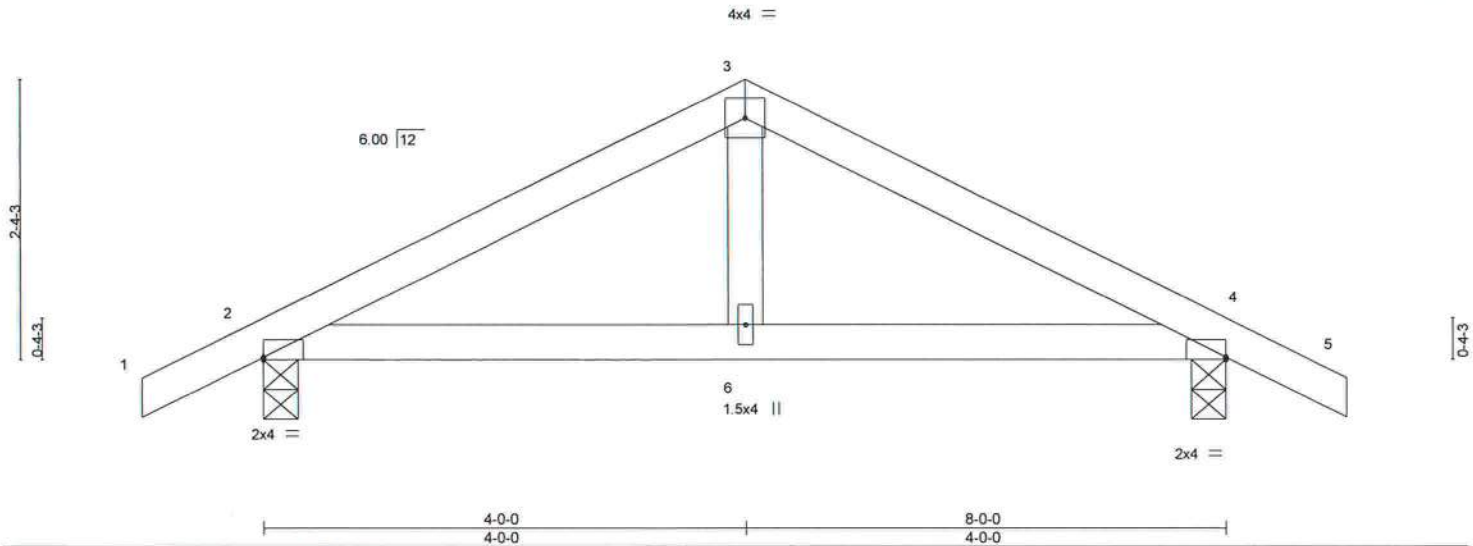


Plate Offsets (X,Y)-- [2:Edge,0-0-4], [4:Edge,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	0.02	6-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.02	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 32 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.

(lb/size) 2=380/0-3-8, 4=380/0-3-8
Max Horz 2=-41(LC 10)
Max Uplift 2=-94(LC 12), 4=-94(LC 12)

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

TOP CHORD 2-3=-417/403, 3-4=-417/403
BOT CHORD 2-6=-269/328, 4-6=-269/328

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

April 16,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

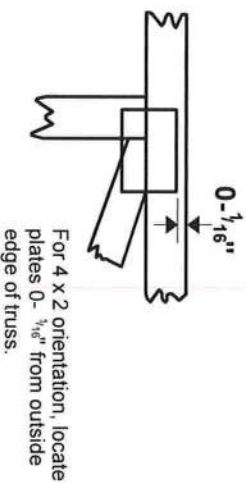
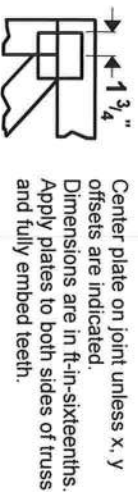
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

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



BEARING

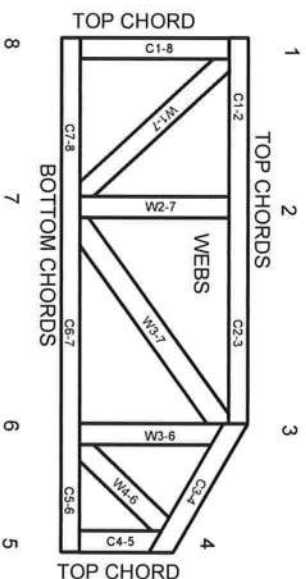


Industry Standards:

ANSI/ITP1: 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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.

