



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

RE: Lot_5 - Lot 5

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Don Little Construction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County 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 21 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	T20554885	A1GE	6/24/20
2	T20554886	A2	6/24/20
3	T20554887	A3	6/24/20
4	T20554888	A4	6/24/20
5	T20554889	A5	6/24/20
6	T20554890	B1GE	6/24/20
7	T20554891	B2	6/24/20
8	T20554892	C1GE	6/24/20
9	T20554893	C2	6/24/20
10	T20554894	C3GE	6/24/20
11	T20554895	C4	6/24/20
12	T20554896	C5	6/24/20
13	T20554897	C6	6/24/20
14	T20554898	C7	6/24/20
15	T20554899	C8GIR	6/24/20
16	T20554900	D1GE	6/24/20
17	T20554901	D2	6/24/20
18	T20554902	J1	6/24/20
19	T20554903	M1	6/24/20
20	T20554904	PB1GE	6/24/20
21	T20554905	PB2	6/24/20

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: Velez, Joaquin

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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 24,2020

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554885
LOT_5	A1GE	PIGGYBACK BASE STRUC I I	1	1		
Job Reference (optional)						

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

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ID:6xGD4C7vw3bmidFmHUNEnqz3Ovt-76lvRUfk4tlhzjHq8Ae0v5VzWDN4loJFKkCX5Dz34mU

1-6-0	4-4-5	8-2-2	14-0-3	19-10-3	26-1-13	31-11-13	37-9-14	41-7-11	46-0-0	47-6-0
1-6-0	4-4-5	3-9-13	5-10-0	5-10-0	6-3-10	5-10-0	5-10-0	3-9-13	4-4-5	1-6-0

Scale = 1:86.3

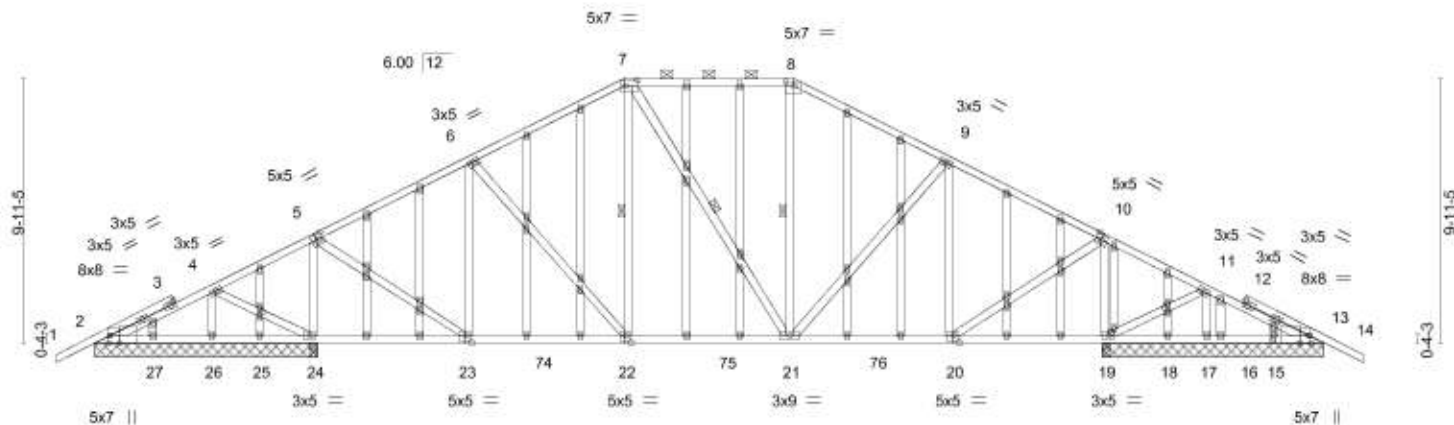


Plate Offsets (X,Y)~	4-4-5	8-2-2	8-3-8	14-0-3	19-10-3	26-1-13	31-11-13	37-9-8	37-9-14	41-7-11	46-0-0
	4-4-5	3-9-13	0-1-6	5-8-11	5-10-0	6-3-10	5-10-0	5-8-11	0-1-6	3-9-13	4-4-5
	[2:0-4-3,Edge], [2:0-3-8,Edge], [5:0-2-8,0-3-0], [7:0-5-4,0-2-8], [8:0-3-8,0-1-12], [10:0-2-8,0-3-0], [13:0-4-3,Edge], [13:0-3-8,Edge], [15:0-2-4,0-1-0], [19:0-1-8,0-1-0], [20:0-2-8,0-3-0], [22:0-2-8,0-3-0], [23:0-2-8,0-3-0], [46:0-1-14,0-1-0], [63:0-1-14,0-1-0]										

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 0.48	Vert(LL)	-0.06	21-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.39	Vert(CT)	-0.11	21-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.02	19	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-AS						Weight: 411 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, except 2-0-0 oc purlins (5-7-8 max.); 7-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-22, 7-21, 8-21

REACTIONS. All bearings 8-3-8.
(lb) - Max Horz 2=194(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 19, 17, 25, 16, 13
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 17, 25, 27, 18, 16, 15, 13, 2, 13 except 24=1637(LC 17), 24=1544(LC 1), 19=1579(LC 18), 19=1538(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-11/382, 5-6=-891/296, 6-7=-1004/380, 7-8=-849/382, 8-9=-1005/378, 9-10=-908/292, 10-11=-19/302
BOT CHORD 23-24=-256/147, 22-23=0/830, 21-22=0/898, 20-21=0/745
WEBS 5-24=-1458/365, 5-23=-160/1167, 6-23=-490/164, 9-20=-488/168, 10-20=-165/1113, 10-19=-1404/370

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=46ft; eave=6ft; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 19, 17, 25, 16, 13, 2, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

June 24,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIT-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/TPI 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	Lot 5	T20554886
LOT_5	A2	PIGGYBACK BASE	1	1		

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

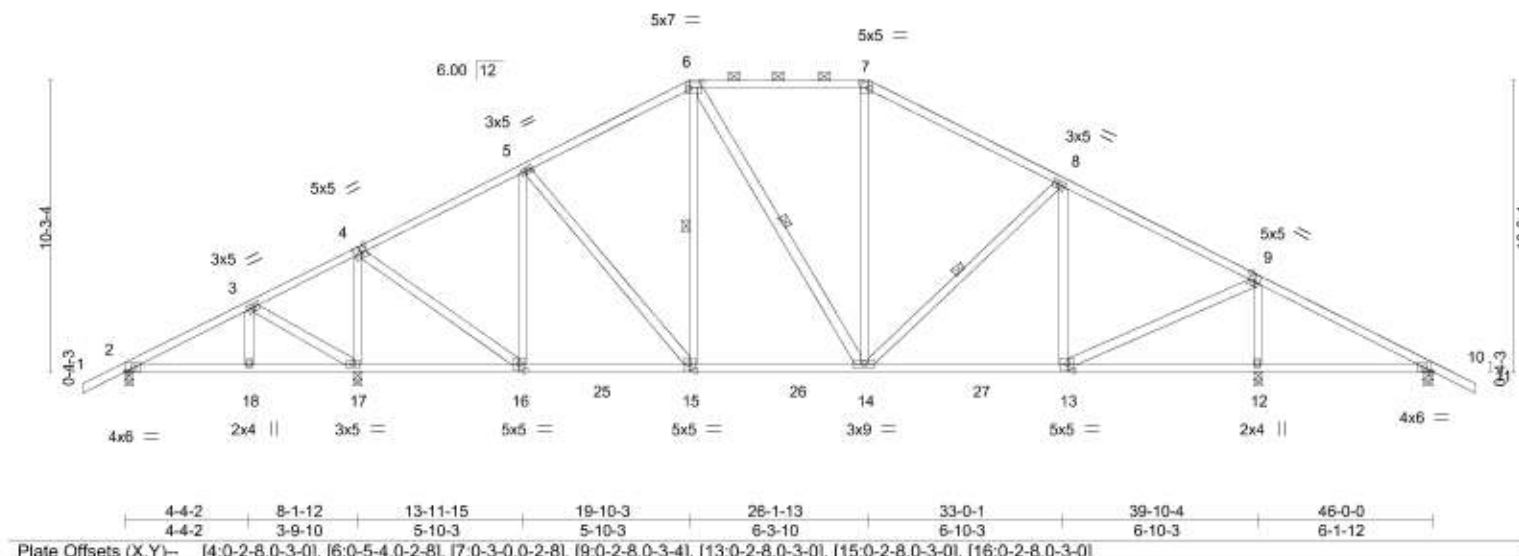
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:28 2020 Page 1

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Job Reference (optional)

1-6-0	4-4-2	8-1-12	13-11-15	19-10-3	26-1-13	33-0-1	39-10-4	46-0-0	47-6-0
1-6-0	4-4-2	3-9-10	5-10-3	5-10-3	6-3-10	6-10-3	6-10-3	6-1-12	1-6-0

Scale = 1:81.1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL 1.25		TC 0.47	Vert(LL) -0.07	13-14	>999	240	MT20	244/190
TCCL 10.0	Lumber DOL 1.25		BC 0.45	Vert(CT) -0.15	13-14	>999	180		
BCCL 0.0 *	Rep Stress Incr YES		WB 0.51	Horz(CT) 0.02	12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 281 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (5-5-5 max.): 6-7.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 6-15, 6-14, 8-14

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=200(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 12 except 2=107(LC 12), 10=103(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 10 except 2=282(LC 21), 17=1783(LC 17), 12=1613(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-65/438, 4-5=-914/278, 5-6=-1080/390, 6-7=-979/411, 7-8=-1160/402,
 8-9=-1202/339, 9-10=-1/272
 BOT CHORD 16-17=-295/214, 15-16=0/838, 14-15=0/954, 13-14=-52/974
 WEBS 3-17=-341/299, 4-17=-1571/412, 4-16=-209/1268, 5-16=-590/202, 5-15=0/269,
 8-13=-368/157, 9-13=-127/1226, 9-12=-1501/408

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=46ft; eave=6ft; Cat. II; Exp B; Encl., GCp=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
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12 except (jt=lb) 2=107, 10=103.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 Date:

June 24,2020

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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/TPI 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	Lot 5	T20554887
LOT_5	A3	PIGGYBACK BASE	5	1		

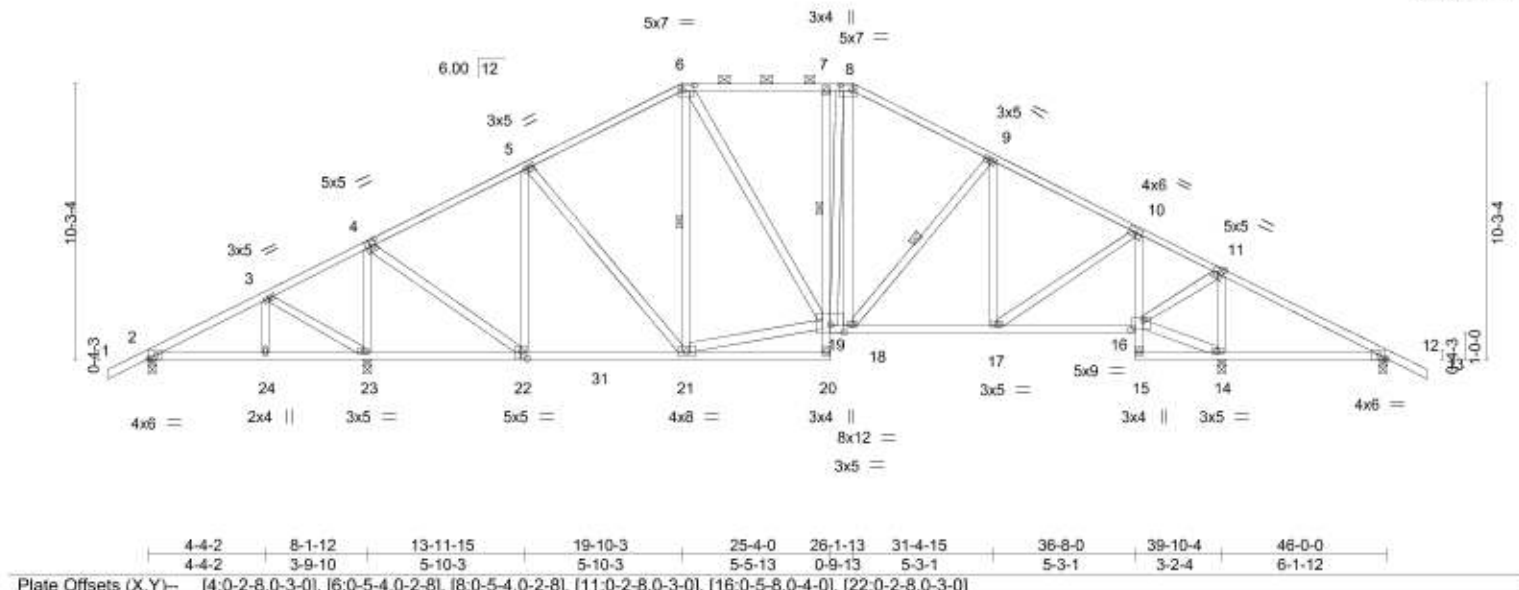
Mayo Truss Company, Inc., Mayo, FL - 32066,

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-1-6-0	4-4-2	8-1-12	13-11-15	19-10-3	25-4-0	26-1-13	31-4-15	36-8-0	39-10-4	46-0-0	47-6-0
1-6-0	4-4-2	3-9-10	5-10-3	5-10-3	5-5-13	0-9-13	5-3-1	5-3-1	3-2-4	6-1-12	1-6-0

Scale = 1:85.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	-0.05 21-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.10 21-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.04 14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 324 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, except
2-0-0 oc purlins (5-8-9 max.); 6-8,
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 7-19
WEBS 1 Row at midpt 6-21, 9-18

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=200(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=283(LC 21), 23=1729(LC 1), 14=1834(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-16/428, 4-5=-831/301, 5-6=-982/398, 6-7=-938/408, 7-8=-936/407, 8-9=-1113/406,
9-10=-1181/366, 10-11=-602/213, 11-12=-86/678
BOT CHORD 22-23=-291/170, 21-22=0/746, 7-19=-251/64, 18-19=0/929, 17-18=-33/996, 16-17=0/514,
10-16=-772/201, 12-14=-528/174
WEBS 3-23=-349/124, 4-23=-1457/384, 4-22=-179/1155, 5-22=-568/180, 19-21=0/740,
6-19=-20/344, 8-18=-33/290, 10-17=-52/583, 14-16=-506/193, 11-16=-157/1166,
11-14=-1482/359

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
 - 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.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

June 24,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554888
LOT_5	A4	PIGGYBACK BASE	3	1		

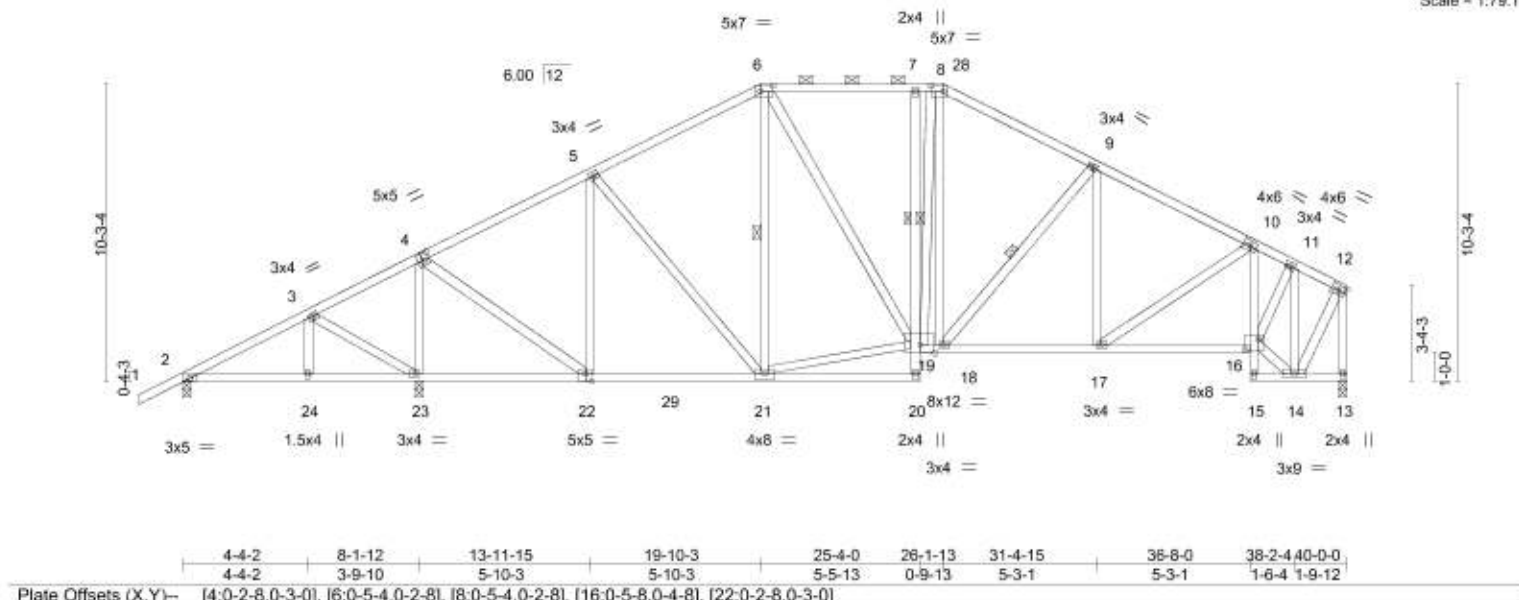
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:31 2020 Page 1

ID:6xGD4C7vw3bmldFmHUNEnqz3Ov1-0IYQGsIF75p7RKbbN7y4xgiDqk1hZyrFMAIE_z34mQ

-1-6-0	4-4-2	8-1-12	13-11-15	19-10-3	25-4-0	26-1-13	31-4-15	36-8-0	38-2-4 40-0-0
1-6-0	4-4-2	3-9-10	5-10-3	5-10-3	5-5-13	0-9-13	5-3-1	5-3-1	1-6-4 1-9-12

Scale = 1:79.1



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)	-0.06 21-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.39	Vert(CT)	-0.11 17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.06 13	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 310 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-15 max.); 6-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except:
WEBS 2x4 SP No.2	1 Row at midpt 7-19
	1 Row at midpt 6-21, 8-19, 9-18

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 23=0-3-8
 Max Horz 2=229(LC 11)
 Max Uplift 2=-96(LC 12), 23=-84(LC 12)
 Max Grav 2=267(LC 21), 13=1221(LC 1), 23=1819(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-207/443, 4-5=-861/250, 5-6=-1048/376, 6-7=-1044/407, 7-8=-1043/406,
 8-9=-1235/407, 9-10=-1422/387, 10-11=-1112/284, 11-12=-575/185, 12-13=-1187/282
 BOT CHORD 22-23=-323/180, 21-22=-117/770, 7-19=-252/65, 18-19=-147/1040, 17-18=-246/1211,
 16-17=-264/1038, 10-16=-479/168
 WEBS 3-23=-343/301, 4-23=-1546/486, 4-22=-284/1244, 5-22=-621/247, 5-21=0/290,
 19-21=-122/794, 6-19=-81/428, 8-18=-53/367, 9-18=-295/159, 14-16=-133/594,
 11-16=-269/1139, 11-14=-1268/317, 12-14=-209/978

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; 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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23.
 - 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.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

June 24,2020

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

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554889
LOT_5	A5	PIGGYBACK BASE	2	1		

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

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ID:6xGD4C7vw3bmdFmHUNEnqz3Ovt-yG/AhYkVf3rhek_VOIQ9Mi7zePp9Tg8igsJtz34mO

Job Reference (optional)

1-6-0	4-4-2	8-1-12	13-11-15	19-10-3	26-1-13	32-11-3	40-0-0
1-6-0	4-4-2	3-9-10	5-10-3	5-10-3	6-3-10	6-9-5	7-0-13

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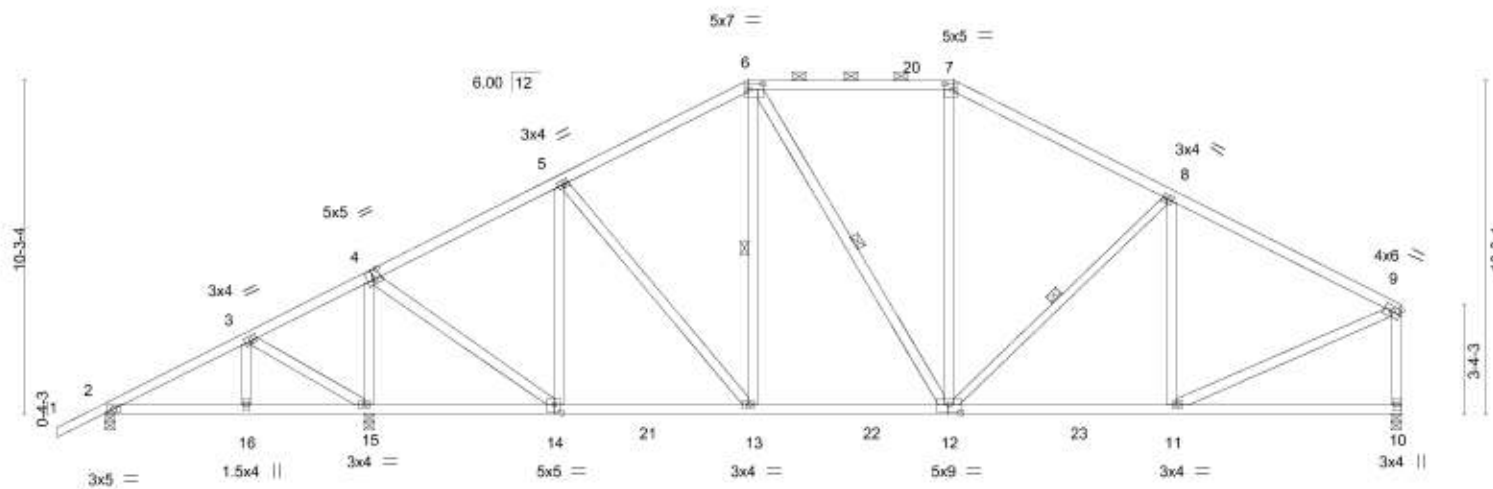


Plate Offsets (X,Y)~	[4:0-2-8,0-3-0], [6:0-5-4,0-2-8], [7:0-3-0,0-2-8], [12:0-4-8,0-3-0], [14:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.07 11-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.13 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 259 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, except end verticals, and 2-0-0 oc purlins (5-2-11 max.); 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-13, 6-12, 8-12

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=229(LC 11)
Max Uplift 2=40(LC 12)
Max Grav 2=280(LC 21), 15=1862(LC 17), 10=1255(LC 18)

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

TOP CHORD 3-4=-134/452, 4-5=-928/286, 5-6=-1106/395, 6-7=-1016/415, 7-8=-1204/409,
8-9=-1316/349, 9-10=-1195/313
BOT CHORD 14-15=-326/119, 13-14=-151/833, 12-13=-126/963, 11-12=-241/1082
WEBS 3-15=-345/125, 4-15=-1596/450, 4-14=-245/1296, 5-14=-604/221, 5-13=0/282,
8-11=-304/182, 9-11=-215/1119

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=40ft; eave=5ft; Cat. II; Exp B; Encl., GCp=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
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554890
LOT_5	B1GE	Common Girder	1	1		

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

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ID:6xGD4C7vw3bmldFmHUNEnqz3Ovt-MrLJJZmNyeRQY5TYAZJ7n_NWWrS3MtcaOdIwWcz34mL

1-6-0	7-0-0	13-0-0	19-0-0	25-0-0	31-0-0	38-0-0	39-6-0
1-8-0	7-0-0	6-0-0	6-0-0	6-0-0	6-0-0	7-0-0	1-6-0

Scale = 1:80.3

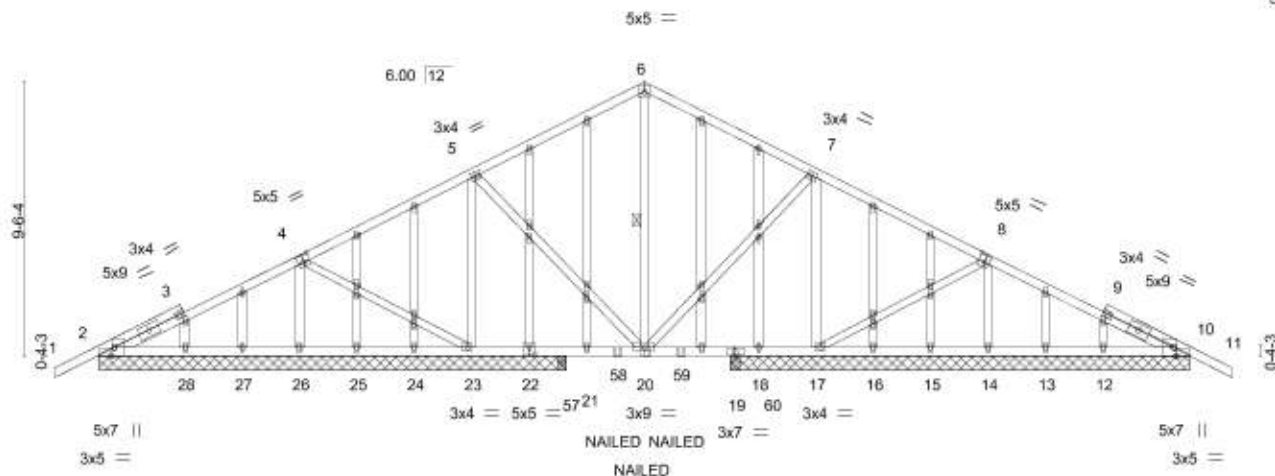


Plate Offsets (X,Y)~	[2:0-1-8,Edge], [2:0-3-8,Edge], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [10:0-1-8,Edge], [10:0-3-8,Edge], [22:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.01	51	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	-0.02	51	>999	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.01	10	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 294 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 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-20

REACTIONS. All bearings 15-11-8 except (jt=length) 2=16-3-8, 23=16-3-8, 26=16-3-8, 24=16-3-8, 25=16-3-8, 27=16-3-8, 28=16-3-8, 21=0-3-8, 2=16-3-8.

(lb) - Max Horz 2=180(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 14, 23, 26, 27, 28, 13, 12, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 27, 28, 18, 16, 15, 13, 12, 10, 21, 2, 10 except 17=535(LC 1), 14=533(LC 18), 23=600(LC 29), 26=532(LC 17)

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

TOP CHORD 2-4=-83/256

WEBS 7-17=-568/71, 8-14=-475/77, 5-23=-568/71, 4-26=-475/77

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=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 14, 23, 26, 27, 28, 13, 12, 10, 2, 10.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-60, 49-53=-20



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554891
LOT_5	B2	Common	6	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:38 2020 Page 1

ID:6xGD4C7vw3bmdFmHUNEnqz3QvI-JET3kFoeUFh7nPdxHzLbsPSs7f3yqlEtsxMd_4z34mJ

1-6-0	6-8-5	12-10-3	19-0-0	25-1-13	31-3-11	38-0-0	39-6-0
1-6-0	6-8-5	6-1-13	6-1-13	6-1-13	6-1-13	6-8-5	1-6-0

Scale = 1:66.1

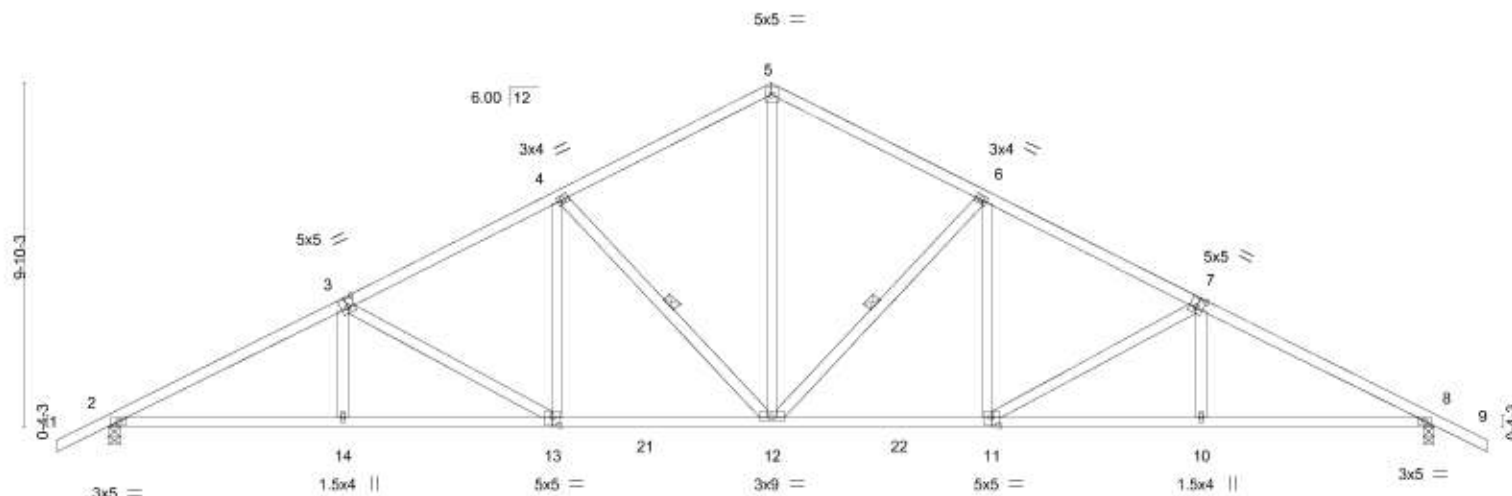


Plate Offsets (X,Y)~	[3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.17 11-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.35 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.14 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 212 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	WEBS 1 Row at midpt 6-12, 4-12

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-186(LC 10)
 Max Uplift 2=-36(LC 12), 8=-36(LC 12)
 Max Grav 2=1610(LC 1), 8=1610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2900/684, 3-4=-2356/628, 4-5=-1796/568, 5-6=-1796/568, 6-7=-2356/628, 7-8=-2900/684
 BOT CHORD 2-14=-482/2567, 13-14=-484/2564, 12-13=-308/2074, 11-12=-309/2025, 10-11=-495/2524, 8-10=-494/2527
 WEBS 5-12=-313/1171, 6-12=-773/269, 6-11=-31/462, 7-11=-569/214, 7-10=0/260, 4-12=-773/269, 4-13=-31/462, 3-13=-569/214, 3-14=0/260

- 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=38ft; eave=5ft; 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, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - 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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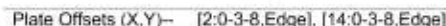
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6904 Parke East Blvd.
 Tampa, FL 33610



LUMBER-

BRACING-

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

REACTIONS.

ONS. All bearings 22-0-0.
(lb) - Max Horz 2=147(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 24, 25, 19, 18, 17, 16

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; TCDFL=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) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-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" tall by 2'-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, 21, 22, 24, 19, 18, 17.



June 24, 2020



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Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:43 2020 Page 1
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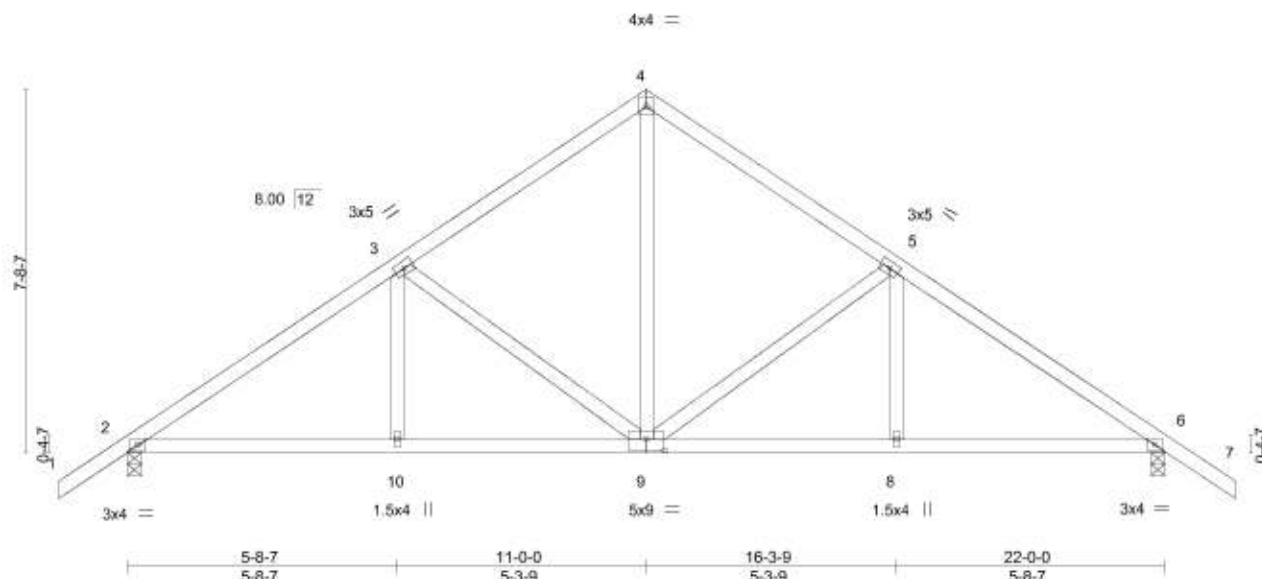


Plate Offsets (X,Y) --		[9.0-4-8,0-3-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.03 9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.08 9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03 6	n/a	n/a		
BCDL	10.0	Code FBC2017/TP12014		Matrix-AS						Weight: 118 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. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=154(LC 11)
Max Uplift 2=37(LC 12), 6=37(LC 12)
Max Grav 2=970(LC 1), 6=970(LC 1)

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

TOP CHORD	2-3=1284/214, 3-4=-894/227, 4-5=-894/227, 5-6=1284/214
BOT CHORD	2-10=-54/1004, 9-10=-54/1004, 8-9=-62/1004, 6-8=-62/1004
WEBS	4-9=-112/629, 5-9=-464/155, 3-9=-464/155

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.; GCp=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, 6.
- 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 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554894
LOT_5	C3GE	Common Structural Gable	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:46 2020 Page 1

ID:6xGD4C7vw3bmidFmHUNEnqz3Ovt-4my4Q_ufbii7ldETIFUTB5n97tp6iL42hB12Gdz34mB

1-6-0 8-2-7 16-0-0 23-9-9 32-0-0 33-6-0
1-6-0 8-2-7 7-9-9 7-9-9 8-2-7 1-6-0

Scale = 1:69.9

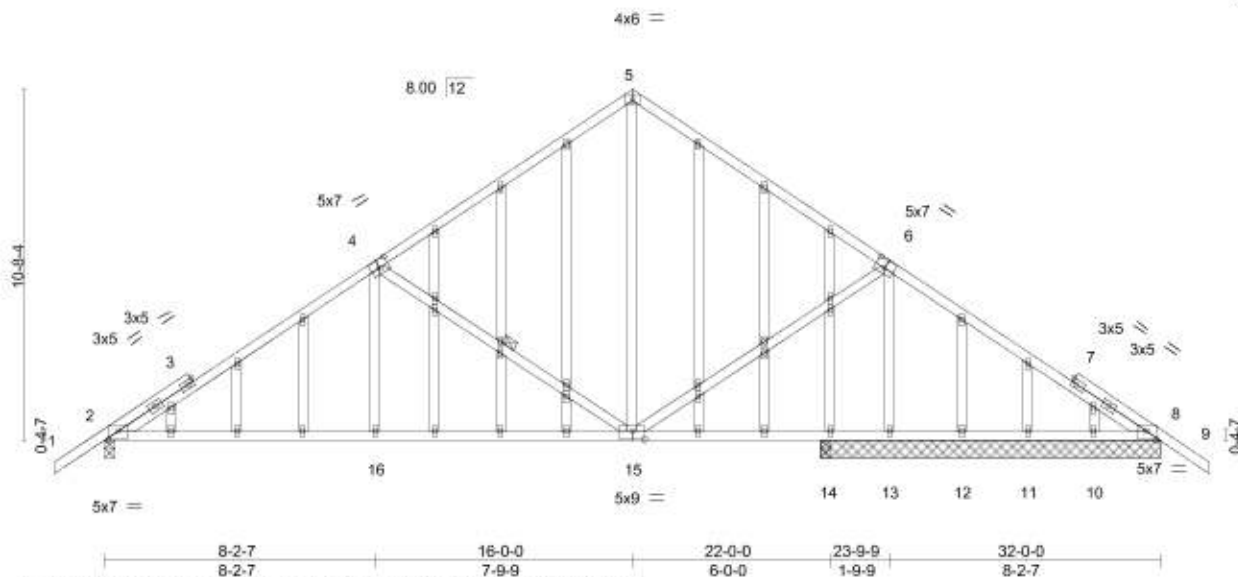


Plate Offsets (X,Y)~ [2:0-3-8,0-3-2], [4:0-3-8,0-3-0], [6:0-3-8,0-3-0], [8:0-3-8,0-3-2], [15:0-4-8,0-3-0]

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 0.72	Vert(LL)	-0.09 16-45	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.22 16-45	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.02 14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 259 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.
WEBS 1 Row at midpt 4-15

REACTIONS.

All bearings 10-3-8 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=217(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 10, 8 except 13=107(LC 12), 8=100(LC 21)
Max Grav All reactions 250 lb or less at joint(s) 14, 14, 12, 11, 8 except 2=956(LC 1), 13=1373(LC 1), 10=292(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1154/190, 4-5=-574/197, 5-6=-568/196, 6-8=-147/518
BOT CHORD 2-16=-8/974, 15-16=-9/971, 14-15=-404/238, 13-14=-404/238, 12-13=-420/243, 11-12=-420/243, 10-11=-420/243, 8-10=-420/243
WEBS 6-15=-50/805, 6-13=-1380/379, 4-15=-716/235, 4-16=0/342

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
- 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, 11, 10 except (jt=lb) 13=107, 8=100, 8=100.
- 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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 24,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554895
LOT_5	C4	Common	1	1		

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:47 2020 Page 1

ID:6xGD4C7vw3bmidFmHUNEnq3Ovt-YyVTdKvHMOqsMnpgJM7ijJKR7HDURikBwr2bp3z34mA

5-3-5	10-1-12	16-0-0	21-10-4	26-8-11	32-0-0
5-3-5	4-10-7	5-10-4	5-10-4	4-10-7	5-3-5

4x4 =

Scale = 1:68.2

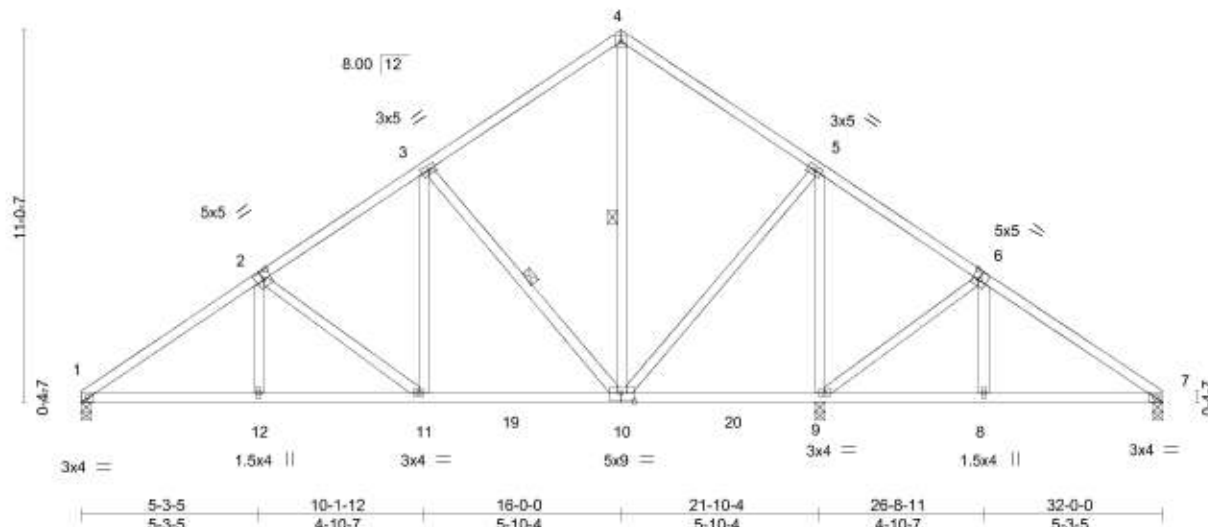


Plate Offsets (X,Y)~ [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-8,0-3-0]

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 0.31	Vert(LL)	0.06	10-11	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.08	10-11	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.02	7	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 193 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.
WEBS 1 Row at midpt 3-10, 4-10

REACTIONS.

(size) 1=0-3-8, 9=0-3-8, 7=0-3-8
Max Horz 1=204(LC 11)
Max Uplift 1=172(LC 12), 9=240(LC 12)
Max Grav 1=807(LC 1), 9=1493(LC 1), 7=310(LC 22)

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

TOP CHORD 1-2=-1187/723, 2-3=-828/565, 3-4=-420/371, 4-5=-420/372, 5-6=-91/305, 6-7=-292/59
BOT CHORD 1-12=-526/928, 11-12=-524/926, 10-11=-269/629, 9-10=-284/250
WEBS 2-11=-377/318, 3-11=-320/380, 3-10=-558/452, 5-10=-344/696, 5-9=-1154/630,
6-9=-414/130

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=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; porch left 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=172, 9=240.
- 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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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 24,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554896
LOT_5	C5	Common	2	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:49 2020 Page 1

ID:6xGD4C7vw3bmidFmHUNEeqz3Ovt-ULdID20wXud4Zc5z2Rn1ApkPl_5u8vixUN9Xityz34m8

5-3-5	10-1-12	16-0-0	21-10-4	26-8-11	32-0-0
5-3-5	4-10-7	5-10-4	5-10-4	4-10-7	5-3-5

4x4 =

Scale = 1:68.2

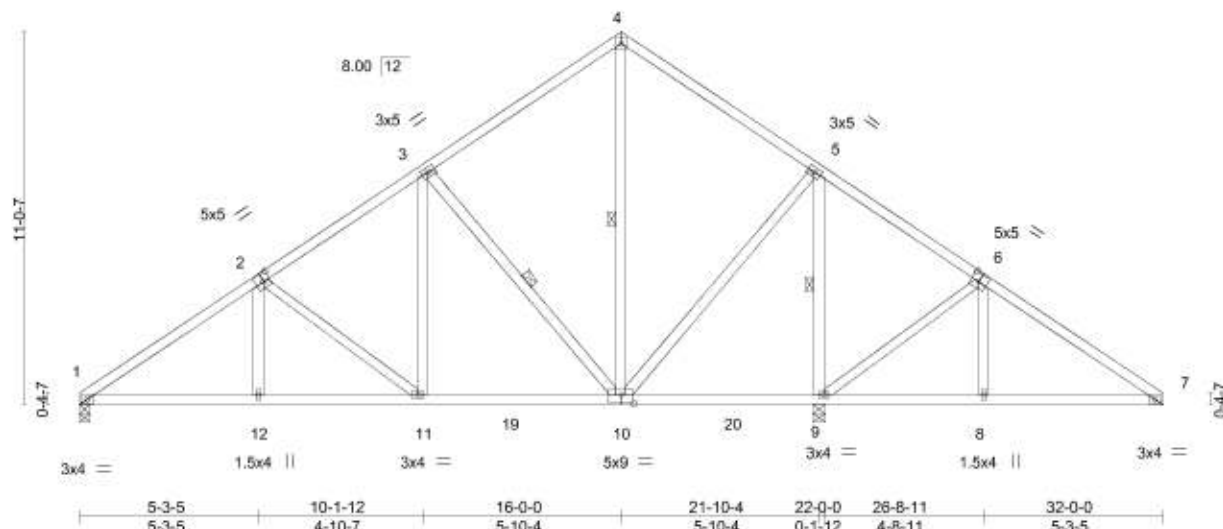


Plate Offsets (X,Y)-- [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-8,0-3-0]

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 0.41	Vert(LL)	-0.04 10-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.08 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 193 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.
WEBS 1 Row at midpt 3-10, 4-10, 5-9

REACTIONS.

(size) 1=0-3-8, 9=0-3-8
Max Horz 1=204(LC 11)
Max Grav 1=749(LC 21), 9=1874(LC 1)

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

TOP CHORD 1-2=-1067/28, 2-3=-724/71, 3-4=-316/120, 4-5=-279/145, 5-6=-374/770, 6-7=-190/404
BOT CHORD 1-12=0/909, 11-12=0/907, 10-11=0/604, 9-10=-574/486, 8-9=-257/210, 7-8=-254/206
WEBS 2-11=-401/143, 3-11=-20/394, 3-10=-617/203, 4-10=-291/131, 5-10=-268/1013,
5-9=-1532/538, 6-9=-398/346

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=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, with BCDL = 10.0psf.
- 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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 24,2020

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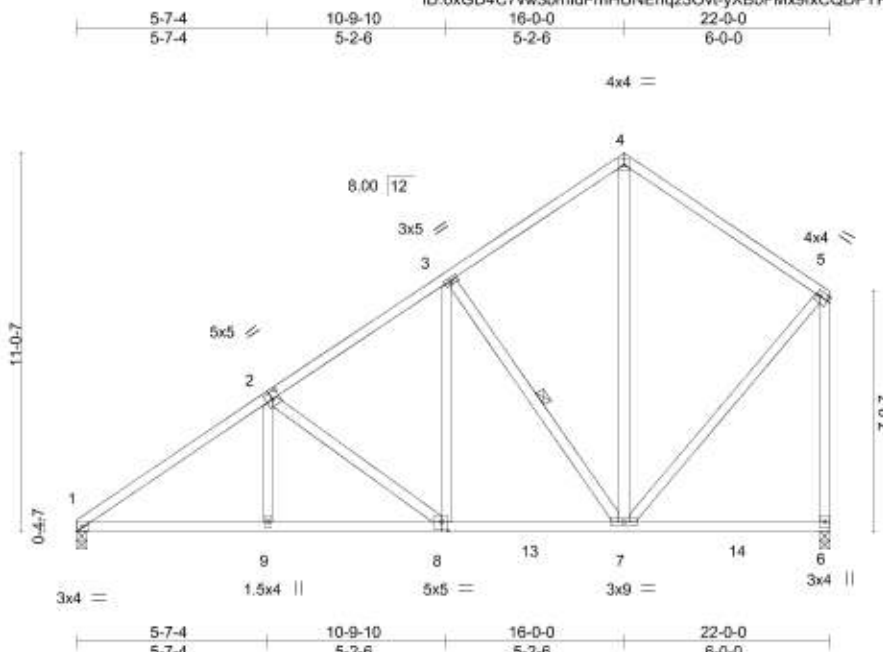
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554897
LOT_5	C6	Common	8	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:50 2020 Page 1

ID:6xGD4C7vw3bmldFmHUNEnqz3Ovt-yXBbFMx9fxCQDFYF_VZPLxyszVEheDFecpGFPOz34m7



Scale = 1:67.3

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

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 0.65	Vert(LL)	-0.04	7-8	>999	240	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.08	9-12	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.02	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 148 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, except end verticals.
BOT CHORD Rigid ceiling directly applied,
WEBS 1 Row at midpt 3-7

REACTIONS.

(size) 1=0-3-8, 6=0-3-8
Max Horz 1=277(LC 11)
Max Uplift 6=4(LC 12)
Max Grav 1=874(LC 1), 6=927(LC 17)

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

TOP CHORD 1-2=-1296/219, 2-3=-913/230, 3-4=-553/243, 4-5=-549/237, 5-6=-819/215
BOT CHORD 1-9=-391/1120, 8-9=-392/1117, 7-8=-268/763
WEBS 2-8=-438/156, 3-8=-36/405, 3-7=-594/199, 4-7=-115/299, 5-7=-126/592

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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 24,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554898
LOT_5	C7	Common	4	1		

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:50 2020 Page 1

ID:6xGD4C7vw3bmdFmHUNEnqz3OvI-yXBbFMx9fxCQDFYF_VZPLxyWVEieCpepGFPOz34m7

5-8-7	11-0-0	16-3-9	22-0-0
5-8-7	5-3-9	5-3-9	5-8-7

4x4 =

Scale = 1:47.2

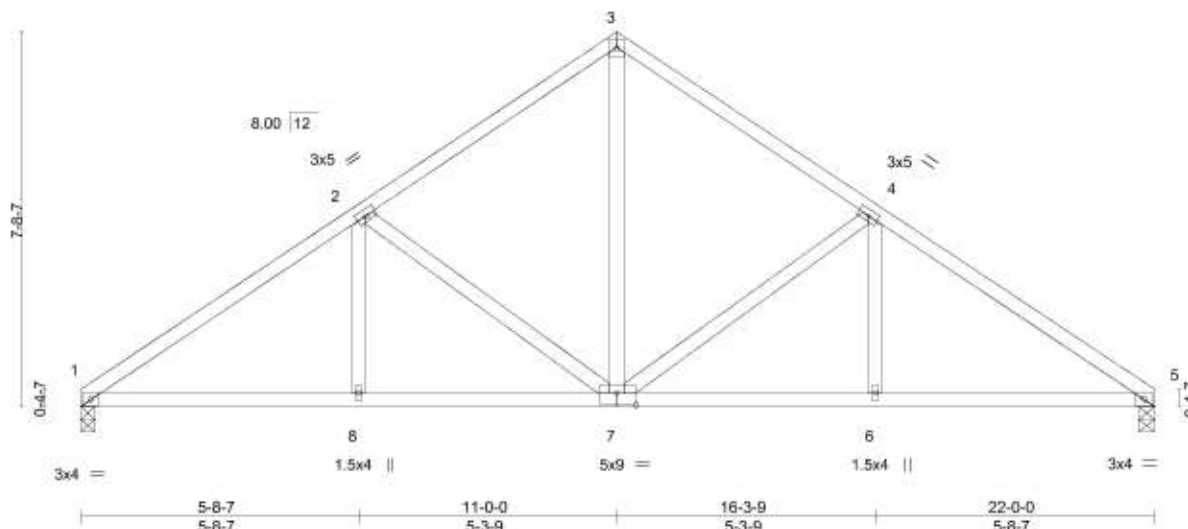


Plate Offsets (X,Y)~ [7:0-4-8,0-3-0]

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)	-0.04	6-14	>999	240	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.08	6-14	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.03	5	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 112 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) 1=0-3-8, 5=0-3-8
Max Horz 1=-135(LC 10)
Max Grav 1=880(LC 1), 5=880(LC 1)

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

TOP CHORD 1-2=-1289/229, 2-3=-905/235, 3-4=-905/235, 4-5=-1289/229
BOT CHORD 1-8=-107/1026, 7-8=-107/1026, 6-7=-107/1026, 5-6=-107/1026
WEBS 3-7=-124/634, 4-7=-461/165, 2-7=-461/165

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
- 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.
- 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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554899
LOT_5	C8GIR	Roof Special Girder	1	2		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:52 2020 Page 1

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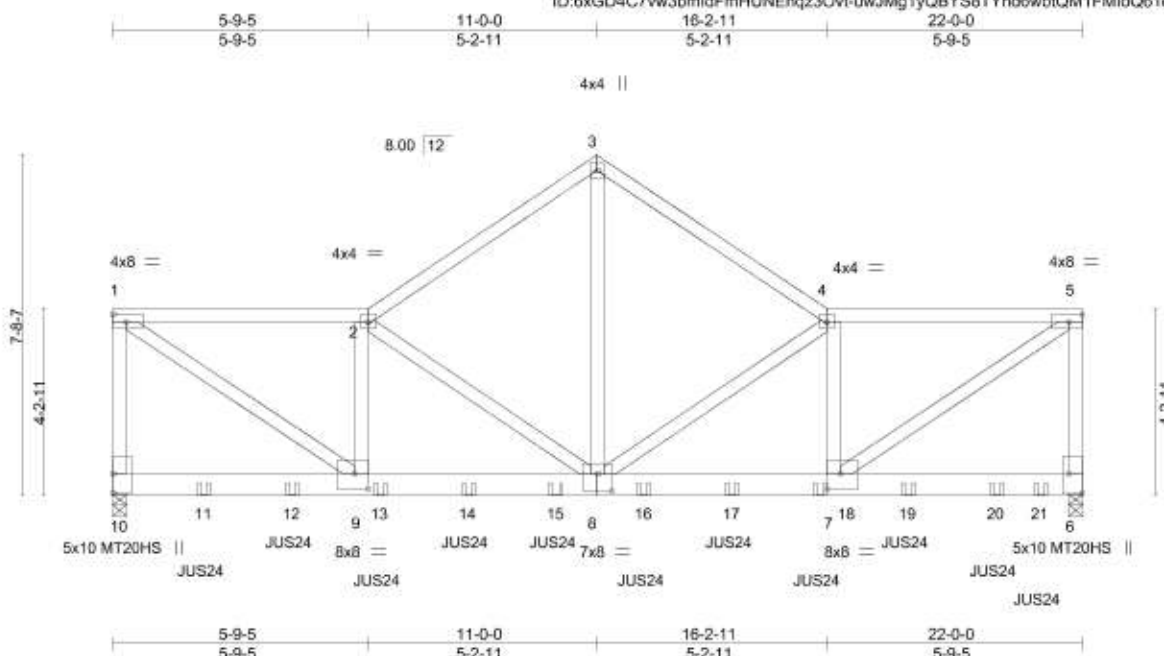


Plate Offsets (X,Y)~ [6:Edge,0-3-8], [7:0-3-8,0-4-0], [8:0-4-0,0-4-8], [9:0-3-8,0-4-0]

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 0.47	Vert(LL)	-0.11	8-9	>999	240	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.21	8-9	>999	180	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.70	Horz(CT)	0.03	6	n/a	n/a	
BCDL 10.0	Code FBC2017/TP12014		Matrix-MS						
								Weight: 311 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 5-0-12 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=-171(LC 6)
Max Grav 10=4240(LC 1), 6=4905(LC 1)

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

TOP CHORD 1-10=-3672/0, 1-2=-5058/0, 2-3=-4284/0, 3-4=-4284/0, 4-5=-5162/0, 5-6=-3734/0
BOT CHORD 8-9=0/5113, 7-8=0/5214
WEBS 1-9=0/6084, 2-9=-1442/0, 2-8=-2007/0, 3-8=0/4302, 4-8=-2132/0, 4-7=-1365/0, 5-7=0/6189

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; 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 JUS24 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 21-0-12 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: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 6-10=-20



Joaquin Velez PE No.68182
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Continued on page 2

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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/TPI Quality Criteria, DSB-89 and BCS 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	Lot 5
LOT_5	C8GIR	Roof Special Girder	1	2	T20554899
					Job Reference (optional)

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:52 2020 Page 2
ID:6xGD4C7vw3bmldFmHUNEnqz3Qvt-uwJMg1yQBYS8TYhd6wbtQM1FMloQ61dx47IMUGz34m5

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 11=-673(B) 12=-673(B) 13=-673(B) 14=-673(B) 15=-673(B) 16=-673(B) 17=-673(B) 18=-673(B) 19=-673(B) 20=-673(B) 21=-675(B)

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Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554900
LOT_5	D1GE	Common Supported Gable	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:53 2020 Page 1
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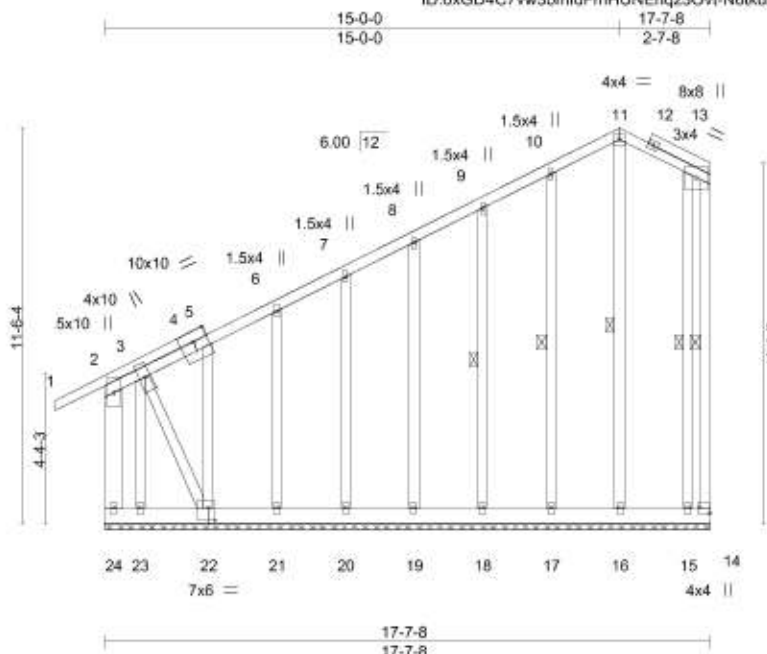


Plate Offsets (X,Y)~ [4:0-0-0,0-1-12], [5:0-1-15,0-0-0], [14:Edge,0-3-8], [22:0-2-4,0-4-8]

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 0.61	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	-0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	-0.00	14	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-S					Weight: 211 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
2-24: 2x6 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, Except:
10-0-0 oc bracing: 14-15.
WEBS 1 Row at midpt 13-14, 11-16, 10-17, 9-18, 13-15

REACTIONS.

All bearings 17-7-8.
(lb) - Max Horz 24=323(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 24, 16, 17, 18, 19, 20, 21, 23 except 14=-258(LC 11), 22=-366(LC 9), 15=-296(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 16, 17, 18, 19, 20, 21 except 24=271(LC 18), 22=337(LC 10), 23=271(LC 11), 15=428(LC 11)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-326/198, 5-6=-318/205, 6-7=-278/192
BOT CHORD 23-24=-510/361, 22-23=-510/361
WEBS 3-23=-646/382, 3-22=-571/959

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=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/TP1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 24, 16, 17, 18, 19, 20, 21, 23 except (jt=lb) 14=258, 22=366, 15=296.



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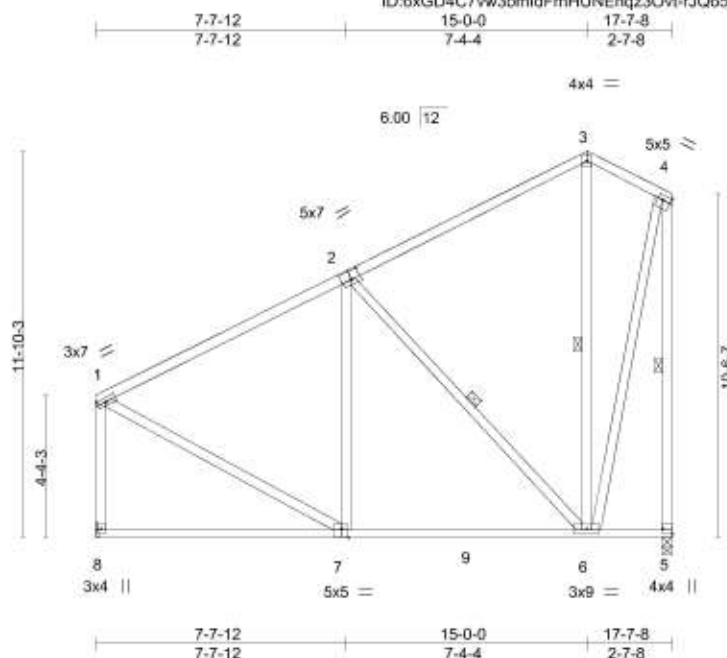
June 24,2020

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Scale = 1:70.5

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.68	Vert(LL) -0.10 6-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.49	Vert(CT) -0.16 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) -0.01 5 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS		Weight: 148 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 2-6, 3-6, 4-5

REACTIONS.

(size) 8=Mechanical, 5=0-3-8
Max Horz 8=322(LC 11)
Max Uplift 5=-25(LC 9)
Max Grav 8=693(LC 1), 5=742(LC 17)

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

TOP CHORD 1-2=-592/156, 2-3=-330/212, 3-4=-299/270, 1-8=-628/199, 4-5=-748/285
BOT CHORD 7-8=-554/424, 6-7=-397/531
WEBS 2-6=-504/316, 1-7=-84/516, 4-6=-342/705

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.; GCp=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, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 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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Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554902
LOT_5	J1	Jack-Open	3	1		

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

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Scale = 1:6.2

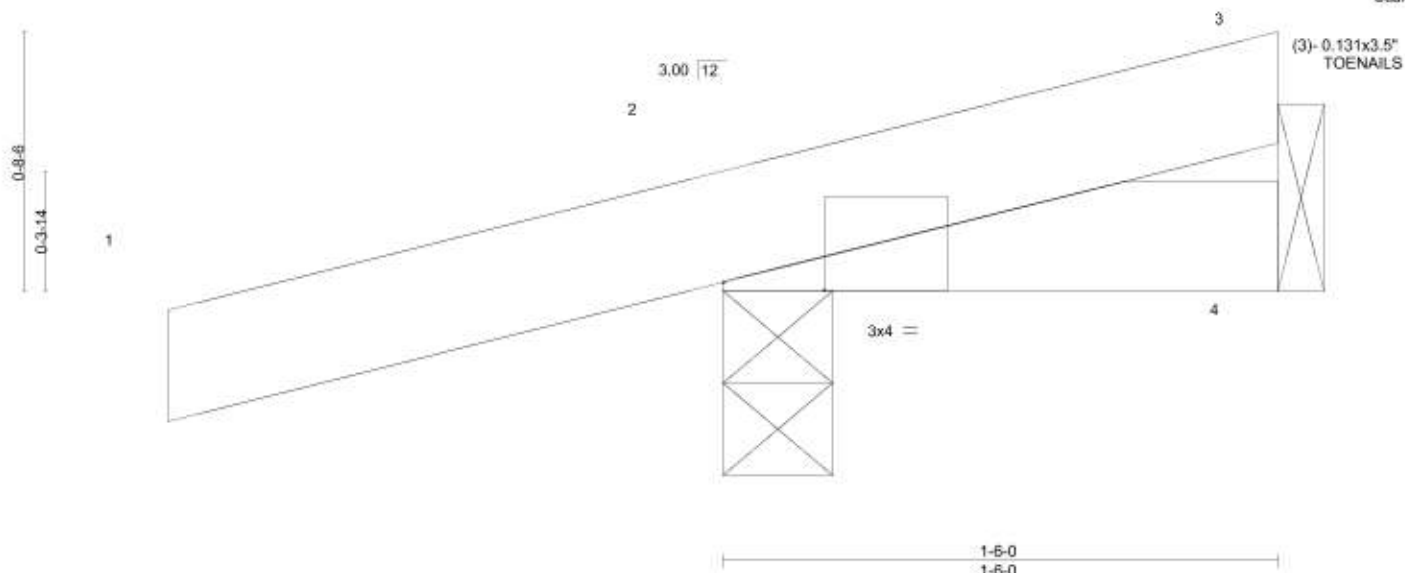


Plate Offsets (X,Y)-- [2:0-3-4,Edge]

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 0.14	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 7 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=Mechanical
Max Horz 2=24(LC 12)
Max Uplift 2=56(LC 12)
Max Grav 2=195(LC 1), 4=30(LC 3)

FORCES.

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

NOTES-

- 1) 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.
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



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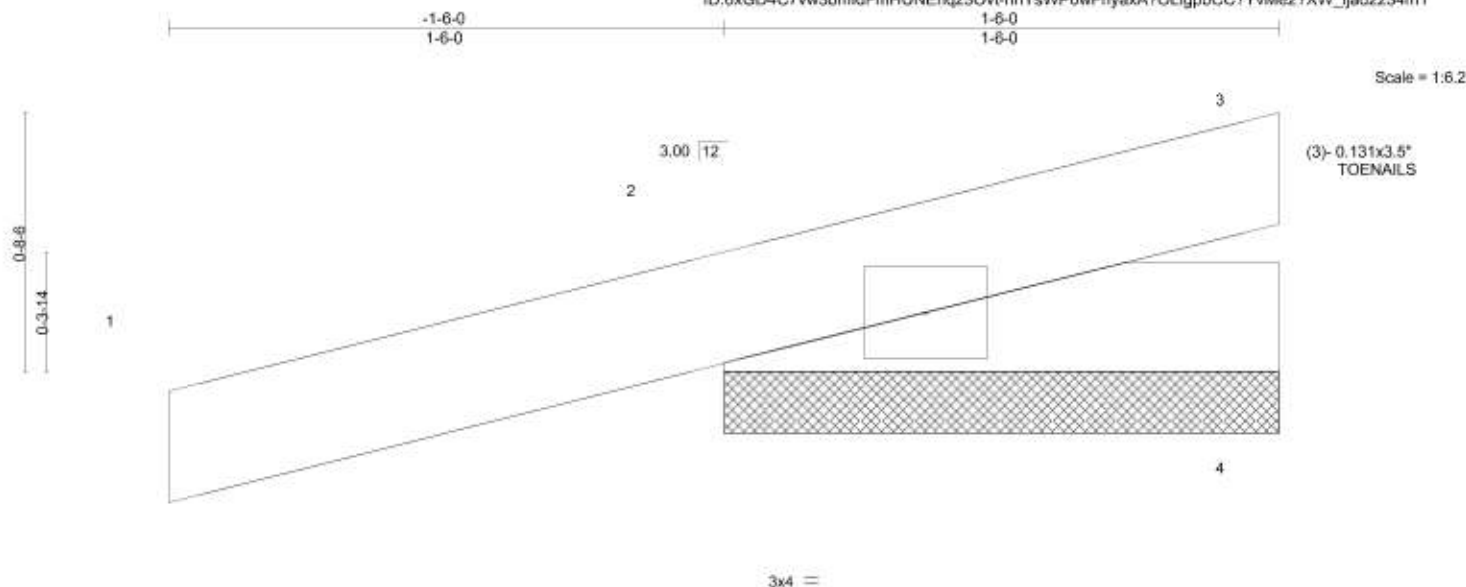
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Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554903
LOT_5	M1	Monopitch Supported Gable	2	1		
Job Reference (optional)						

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

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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 0.14	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P						Weight: 7 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=1-6-0, 2=1-6-0, 4=1-6-0
Max Horz 2=22(LC 12)
Max Uplift 3=-4(LC 9), 2=-56(LC 12)
Max Grav 3=10(LC 13), 2=195(LC 1), 4=30(LC 3)

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

NOTES-

- 1) 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
- 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 3, 2.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554904
LOT_5	PB1GE	GABLE	1	1		

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

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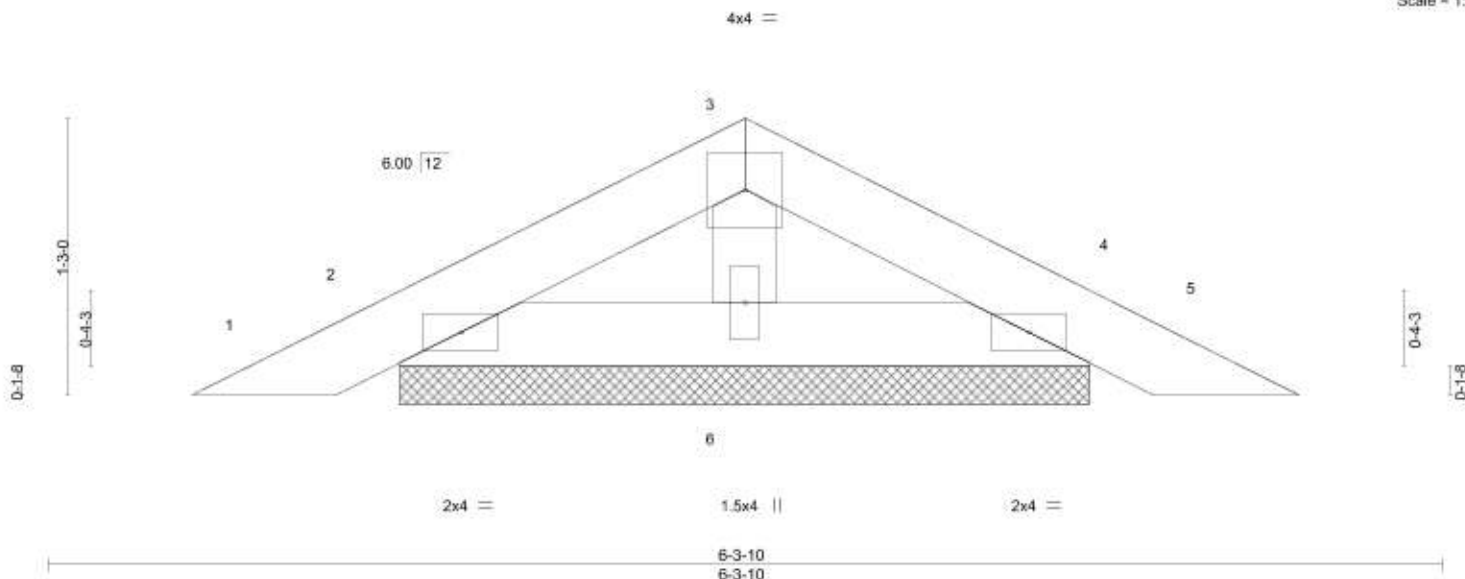
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Job Reference (optional)

6-3-10

6-3-10

Scale = 1:10.4



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 0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P							
									Weight: 14 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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=3-1-6, 4=3-1-6, 6=3-1-6
Max Horz 2=-18(LC 10)
Max Uplift 2=-25(LC 12), 4=-25(LC 12)
Max Grav 2=106(LC 1), 4=106(LC 1), 6=111(LC 1)

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; 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, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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June 24,2020

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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

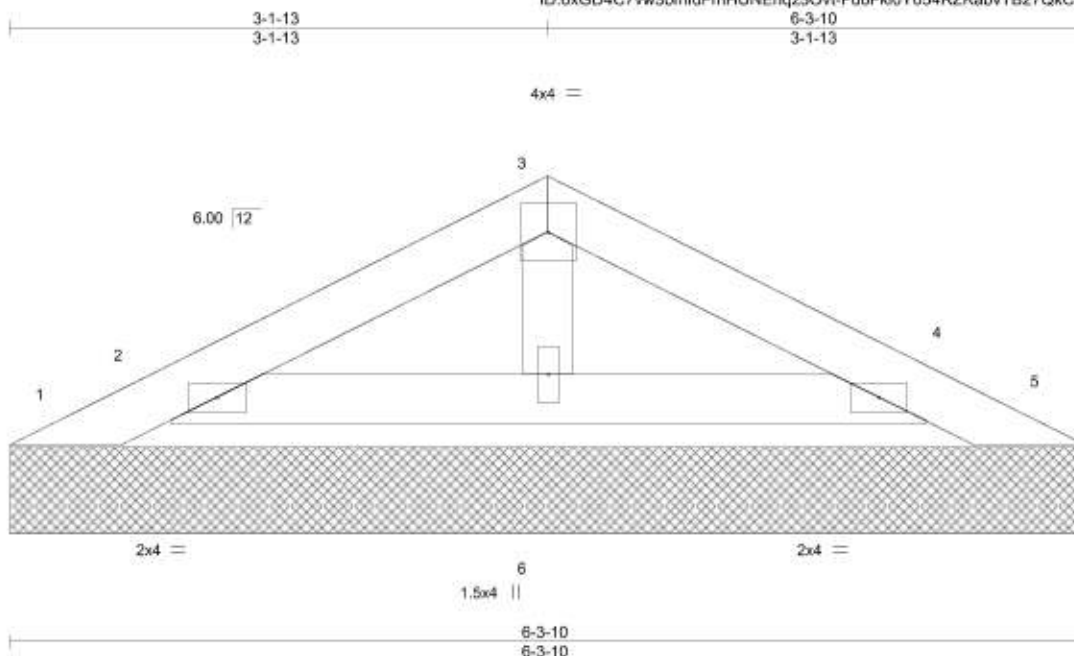
Job	Truss	Truss Type	Qty	Ply	Lot 5	T20554905
LOT_5	PB2	Piggyback	11	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Jun 24 11:31:57 2020 Page 1

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Job Reference (optional)



Scale = 1:13.5

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	-0.00	2-6	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P							
	Code FBC2017/TPI2014								
								Weight: 18 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 6-3-10 except (jt=length) 5=0-3-8, 5=0-3-8.
(lb) - Max Horz 1=24(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 4, 5, 5
Max Grav All reactions 250 lb or less at joint(s) 1, 2, 4, 6, 5

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



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 24,2020

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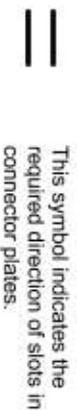
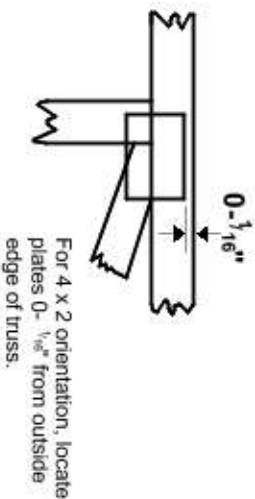
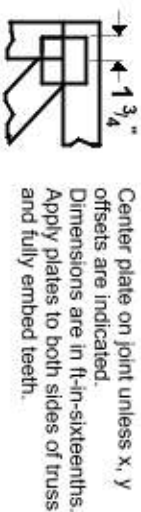
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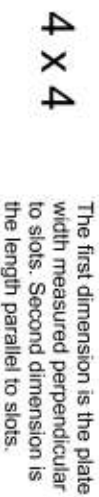
Symbols

PLATE LOCATION AND ORIENTATION

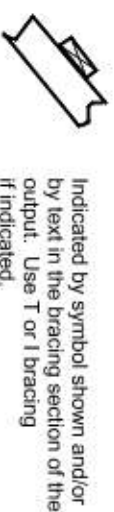


* Plate location details available in **MITek 20120** software or upon request.

PLATE SIZE



LATERAL BRACING LOCATION

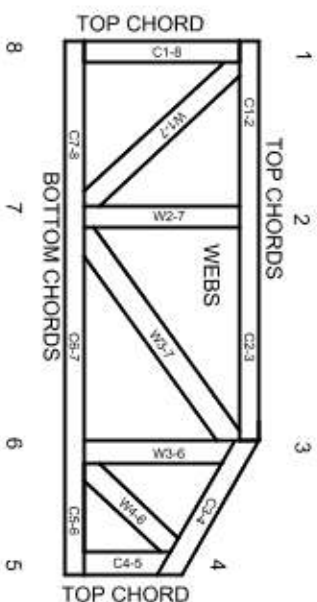


BEARING



Industry Standards:
ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: 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.

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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 1 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.