



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_13 - Lot 13

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	T20545923	A1GE	6/23/20
2	T20545924	A2	6/23/20
3	T20545925	A3GE	6/23/20
4	T20545926	A4	6/23/20
5	T20545927	A5	6/23/20
6	T20545928	A6	6/23/20
7	T20545929	A7	6/23/20
8	T20545930	B1GE	6/23/20
9	T20545931	B2	6/23/20
10	T20545932	B3GE	6/23/20
11	T20545933	B4	6/23/20
12	T20545934	B5	6/23/20
13	T20545935	B6	6/23/20
14	T20545936	B7	6/23/20
15	T20545937	B8GIR	6/23/20
16	T20545938	C1GE	6/23/20
17	T20545939	C2	6/23/20
18	T20545940	J1	6/23/20
19	T20545941	M1	6/23/20
20	T20545942	P1GE	6/23/20
21	T20545943	PB2	6/23/20

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: Albani, Thomas

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

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



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6904 Parke East Blvd. Tampa FL 33610
Date:

June 23,2020

T20545923June 23, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545924
LOT_13	A2	Common	6	1		

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

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ID:ix9cSM0a6kfc0D7YKns9jhz4Ur-f9mDb386Bphl7rsSdX304zGLwdiEbUI97j0Aaz3MAk

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

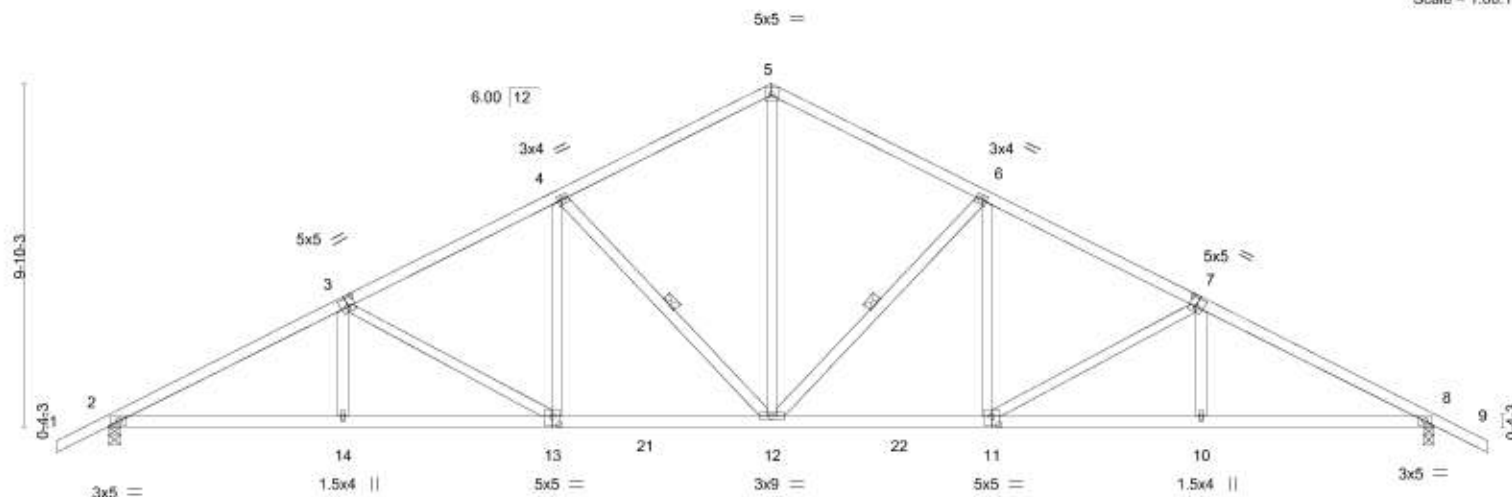


Plate Offsets (X,Y)~	[3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.17 12-13	>999	240	MT20	244/190
TCDL 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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Date:

June 23,2020

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	Lot 13	T20545925
LOT_13	A3GE	PIGGYBACK BASE STRUC	1	1		

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

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ID:ix9cSM0a6kfc007YKNs9jhz4Uj-Xw0jQRBdE2BBE18dhSb0Aw8wWX1GARSL4chDJLz3MAg

-1-6-0	6-0-0	13-10-3	19-10-3	26-1-13	32-1-13	40-0-0	46-0-0	47-6-0
1-6-0	6-0-0	7-10-3	6-0-0	6-3-10	6-0-0	7-10-3	6-0-0	1-6-0

Scale = 1:85.2

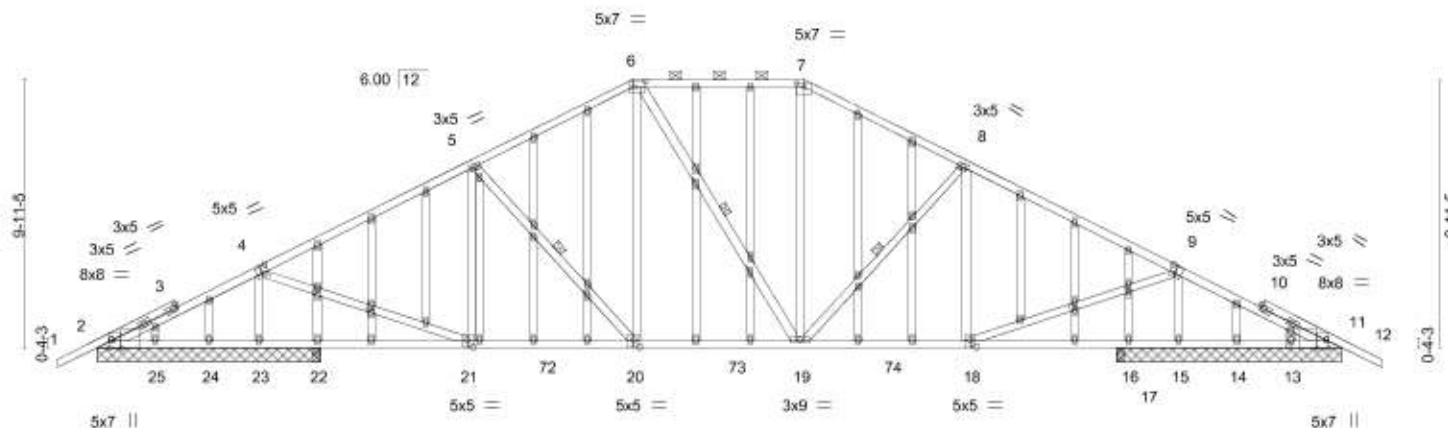


Plate Offsets (X,Y)~	[2:0-4-3,Edge], [2:0-3-8,Edge], [4:0-2-4,0-3-4], [6:0-5-4,0-2-8], [7:0-3-8,0-1-12], [9:0-2-4,0-3-4], [11:0-4-3,Edge], [13:0-2-4,0-1-0], [18:0-2-8,0-3-0], [20:0-2-8,0-3-0], [21:0-2-8,0-3-0], [42:0-1-11,0-1-0], [45:0-1-11,0-1-0], [59:0-1-11,0-1-0], [61:0-1-11,0-1-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51	Vert(LL) -0.08 19-20 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.15 19-20 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.03 17 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS		Weight: 403 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 (4-8-9 max.); 6-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-20, 6-19, 8-19

REACTIONS. All bearings 8-3-8 except (if=length) 22=0-3-8, 22=0-3-8, 17=0-3-8.
(lb) - Max Horz 2=194(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 15, 11 except 16=382(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 14, 13, 11, 22, 22, 2, 11 except 23=1610(LC 17), 15=1605(LC 18), 17=536(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=42/379, 4-5=1380/401, 5-6=1329/463, 6-7=1137/455, 7-8=1333/461, 8-9=1408/400, 9-11=41/280
BOT CHORD 2-25=252/119, 24-25=252/119, 23-24=252/119, 20-21=112/1269, 19-20=14/1194, 18-19=113/1156
WEBS 4-23=1612/474, 4-21=219/1445, 5-21=349/150, 6-20=38/317, 7-19=36/278, 8-18=349/151, 9-18=219/1373, 9-15=1556/474

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=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, 23, 15, 11, 2, 11 except (if=lb) 16=382.
- 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 23,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545926
LOT_13	A4	PIGGYBACK BASE	1	1		

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

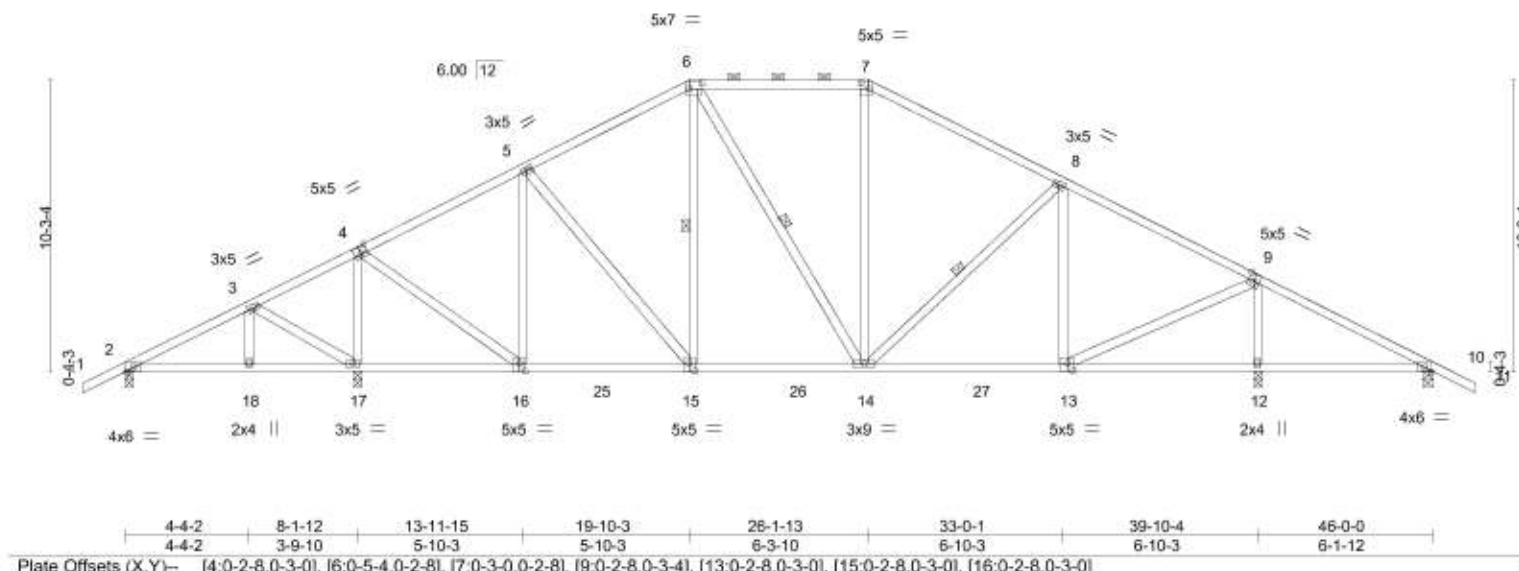
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Job Reference (optional)

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
TCLL 20.0	Plate Grip DOL 1.25		TC 0.47	Vert(LL) -0.07	13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.45	Vert(CT) -0.15	13-14	>999	180		
BCLL 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	Rigid ceiling directly applied.
	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 23,2020

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545927
LOT_13	A5	PIGGYBACK BASE	5	1		

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

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ID:ix9cSM0a6kfc00?YKNS9hz4Jr-QhFEGoE7IHhdIMSOWlgyLmlej8Rw6Cdw?EIRS6z3MAc

-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 = 1:86.1

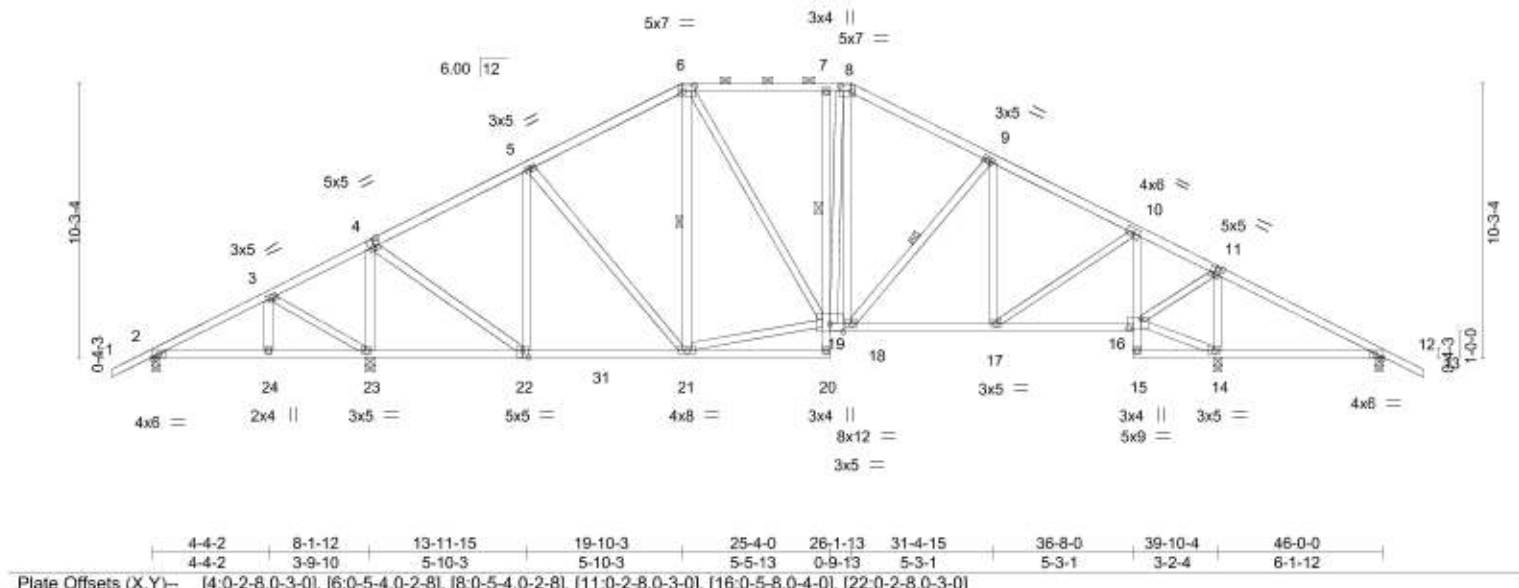


Plate Offsets (X,Y)~	4-0-2-8,0-3-0	6-0-5-4,0-2-8	8-0-5-4,0-2-8	11-0-2-8,0-3-0	16-0-5-8,0-4-0	22-0-2-8,0-3-0						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP			
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	0.06 14-30	>999	240	MT20	244/190			
TCDL 10.0	Lumber DOL	1.25	BC 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) 23, 14 except 2=105(LC 12), 12=112(LC 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=-70/407, 4-5=-831/272, 5-6=-982/382, 6-7=-938/396, 7-8=-936/395, 8-9=-1113/393,
9-10=-1181/353, 10-11=-602/206, 11-12=-58/678
BOT CHORD 22-23=-273/219, 21-22=0/756, 7-19=-251/64, 18-19=0/929, 17-18=-22/996, 16-17=0/514,
10-16=-772/188, 12-14=-528/144
WEBS 3-23=-342/300, 4-23=-1457/409, 4-22=-206/1155, 5-22=-568/201, 19-21=0/745,
6-19=-24/344, 8-18=-32/290, 10-17=-52/583, 14-16=-506/140, 11-16=-107/1166,
11-14=-1482/341

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; 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) 23, 14 except (j=lb) 2=105, 12=112.
- 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 23,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545928
LOT_13	A6	PIGGYBACK BASE	3	1		

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

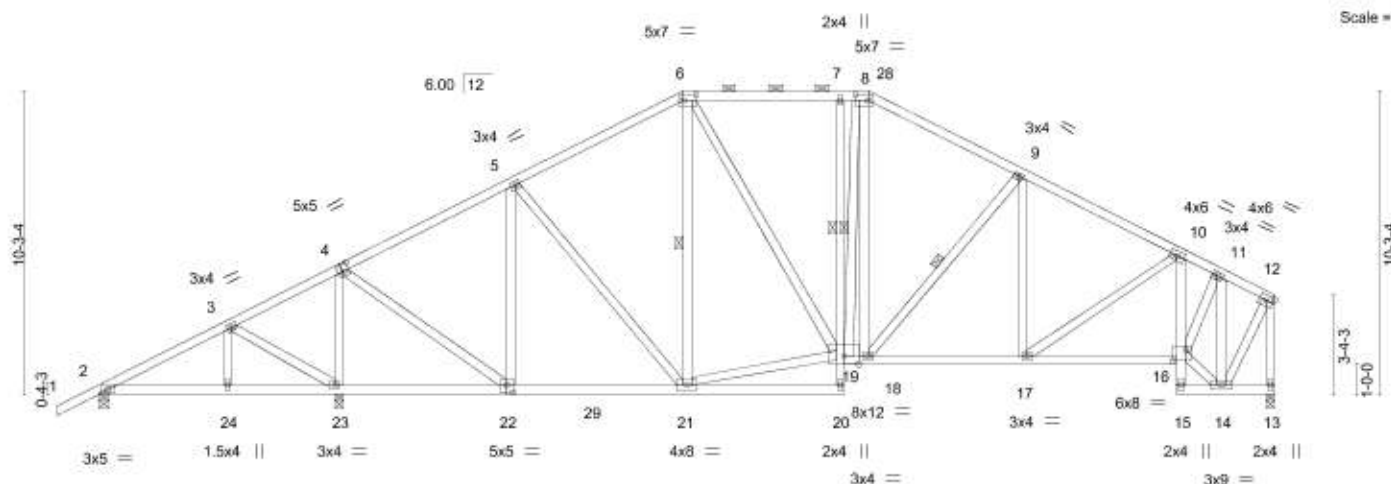
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:05 2020 Page 1

ID:ix9cSM0a6kfc007YKNs9hz4Uj-M4N7hUGOqxKygc2pQQBO0Hy6la5PDSY8YW7z3MAa

Job Reference (optional)

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 = 1:78.4



	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
	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

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

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 0.30	Vert(LL)	-0.06	21-22	>999	240	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-
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 (5-4-15 max.); 6-8.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 7-19
WEBS 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.



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Date:

June 23,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545929
LOT_13	A7	PIGGYBACK BASE	2	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:07 2020 Page 1

ID:ix9cSM0a6kfc007YKNs9jhz4Jr-ISVI6AHeMVB2BzI998kuVcTJ0mmX278Wvdfbtz3MAY

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

Scale = 1:71.1

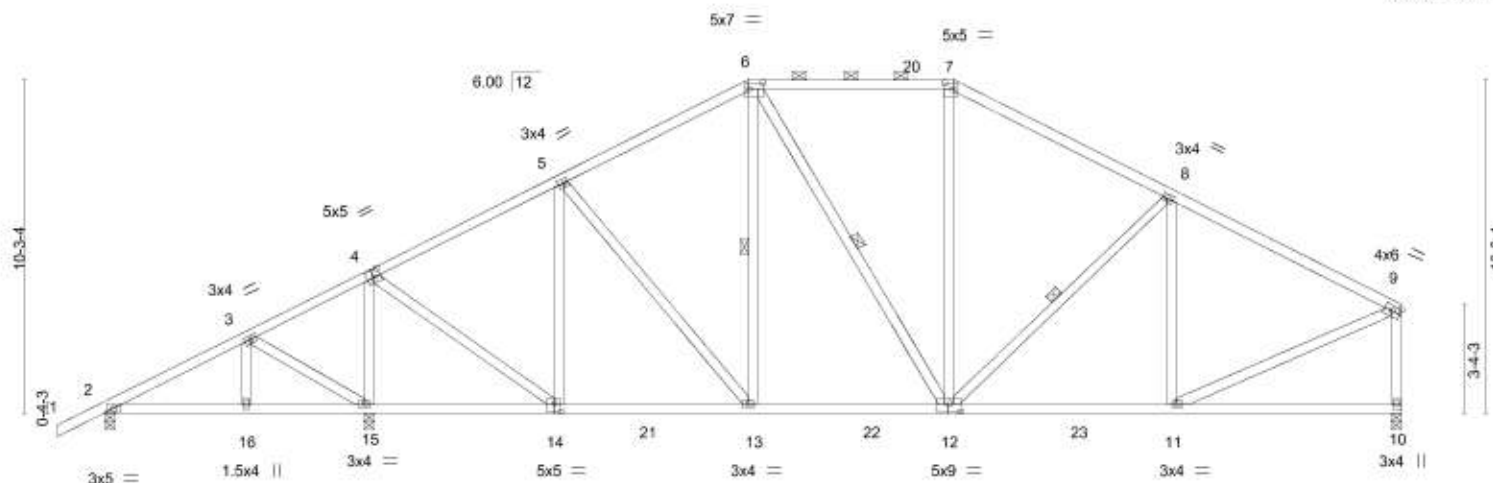


Plate Offsets (X,Y)~	[4:0-2-8,0-3-0], [6:0-5-4,0-2-8], [7:0-3-0,0-2-8], [12:0-4-8,0-3-0], [14:0-2-8,0-3-0]
----------------------	---

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=97(LC 12), 15=83(LC 12)
Max Grav 2=280(LC 21), 15=1797(LC 17), 10=1258(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-189/432, 4-5=-939/256, 5-6=-1112/380, 6-7=-1019/406, 7-8=-1208/398, 8-9=-1319/341, 9-10=-1197/306
BOT CHORD 14-15=-307/168, 13-14=-125/843, 12-13=-112/968, 11-12=-234/1085
WEBS 3-15=-341/300, 4-15=-1586/476, 4-14=-273/1285, 5-14=-604/242, 5-13=0/282, 8-11=-304/179, 9-11=-207/1122

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; porch left 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, 15.
- 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 23,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545930
LOT_13	B1GE	Common Supported Gable	2	1		

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

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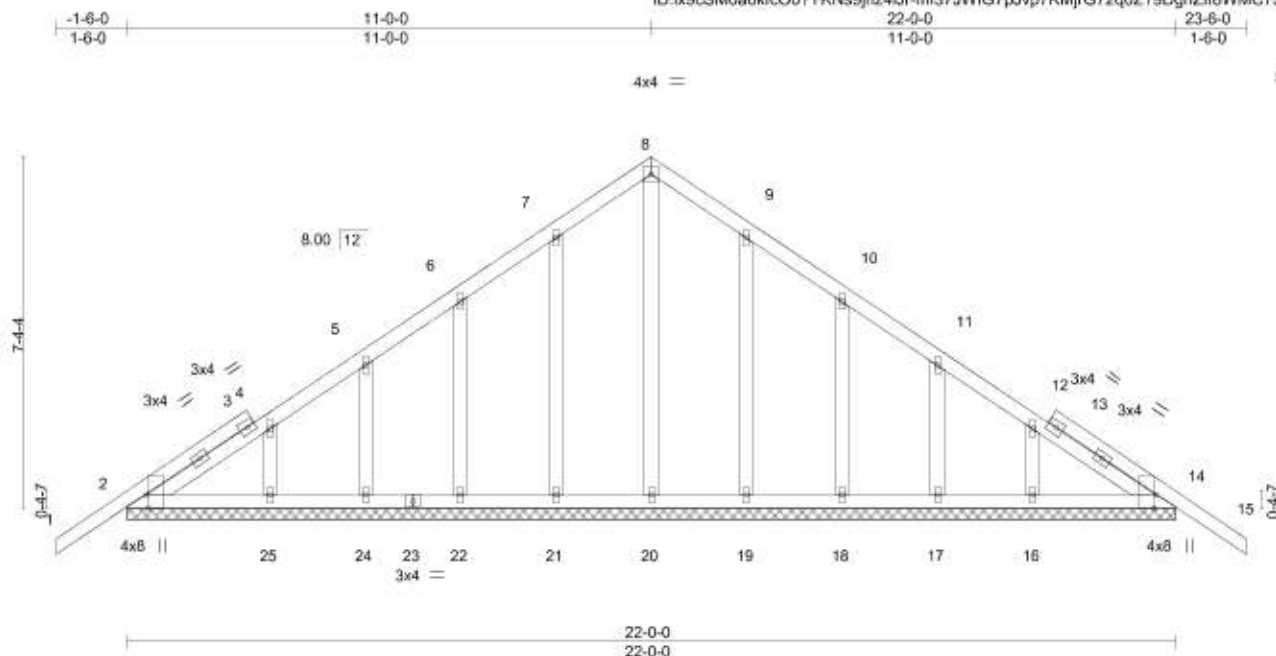


Plate Offsets (X,Y)~ [2:0-3-8,Edge], [14:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15	Vert(LL)	-0.01	15	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	15	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 137 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 22-0-0.
(lb) - Max Horz 2=-147(LC 10)
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-

- 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.
- 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, 24, 19, 18, 17.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



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MiTek USA, Inc. FL Cert 6634
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Date:

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545931
LOT_13	B2	Common	1	1		

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

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Scale = 1:47.0

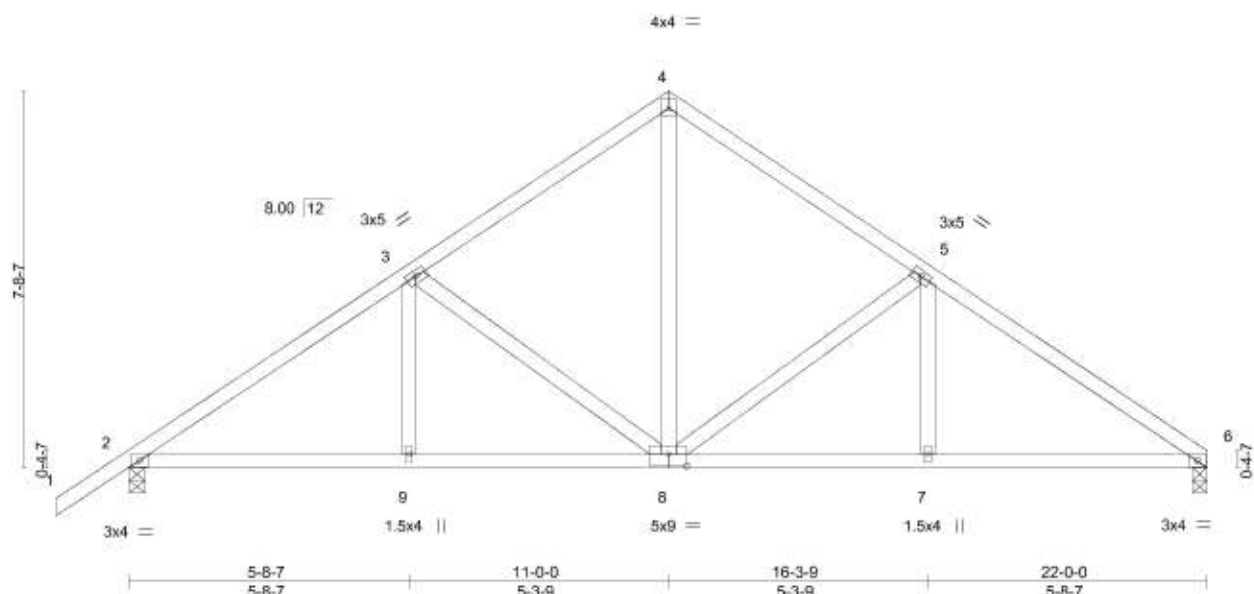


Plate Offsets (X,Y)~ [8:0-4-8,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.30	Vert(LL)	-0.04	7-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.08	7-12	>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/TPI2014		Matrix-AS						Weight: 115 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) 6=0-3-8, 2=0-3-8
Max Horz 2=148(LC 11)
Max Uplift 2=39(LC 12)
Max Grav 6=877(LC 1), 2=973(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1289/220, 3-4=-899/232, 4-5=-900/233, 5-6=-1283/226
BOT CHORD 2-9=-98/1008, 8-9=-98/1008, 7-8=-105/1021, 6-7=-105/1021
WEBS 4-8=-120/636, 5-8=-461/164, 3-8=-465/156

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.
- 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 13	T20545932
LOT_13	B3GE	Common Structural Gable	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:12 2020 Page 1
ID:ix9cSM0a6kfc007YKNS9jhz4UJr-0Qle9LnA2qLHle7yhK3CgA64nRyJFZF38KPG5z3MAT

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

4x8 =

Scale = 1:69.9

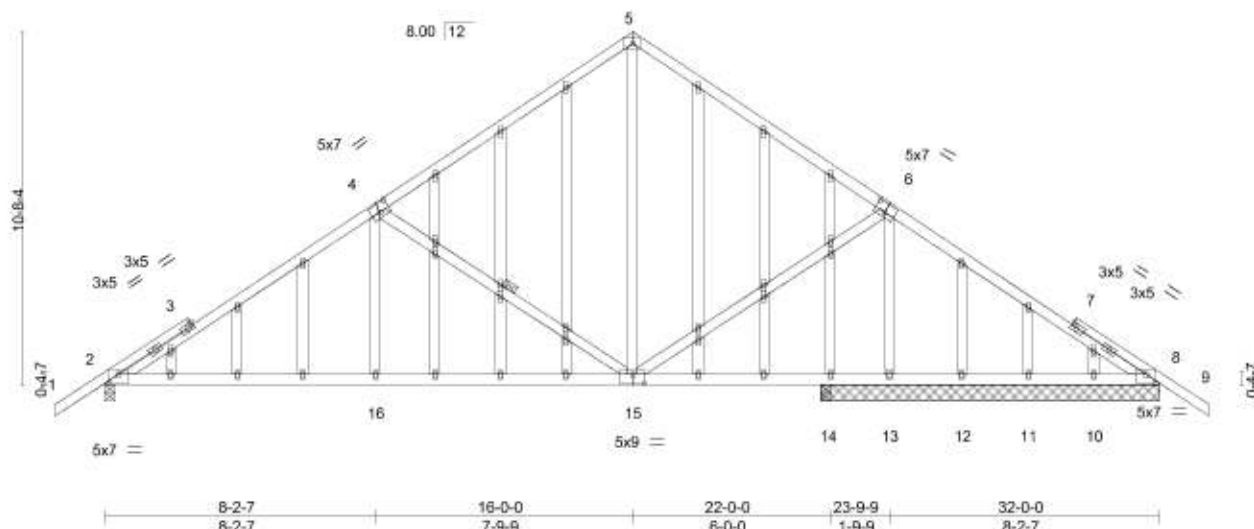


Plate Offsets (X,Y)=[2:0-3-8,0-3-2], [4:0-3-8,0-3-0], [6:0-3-8,0-3-0], [8:0-3-8,0-3-2], [15:0-4-8,0-3-0]

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.



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MiTek USA, Inc. FL Cert 6634
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Date:

June 23,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545934
LOT_13	B5	Common	2	1		

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

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ID:ix9cSM0a6kfc007YKNs9hz4Ur-bpQOaZN1if43X2oV46MXH5GWiaBIB7VYWSqWLzz3MAR

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 = 1.66.8

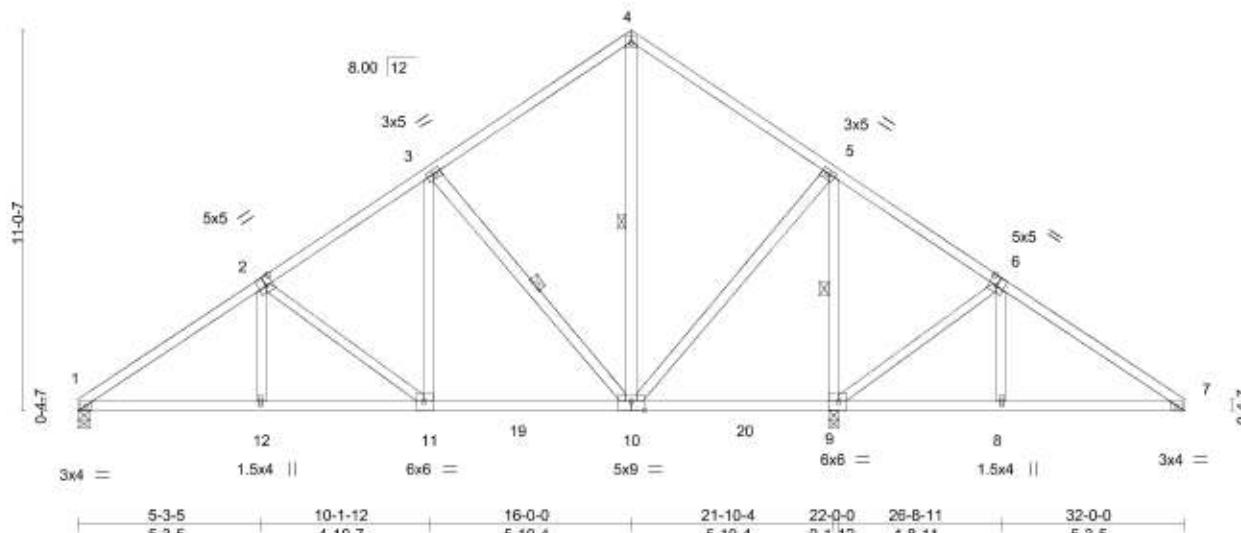


Plate Offsets (X,Y)~ [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-8,0-3-0]

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)	0.05 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 0.74	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 4-10, 5-9, 3-10

REACTIONS.

(size) 1=0-3-8, 9=0-3-8
Max Horz 1=204(LC 11)
Max Uplift 1=-83(LC 9), 9=-117(LC 9)
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=-1067/594, 2-3=-724/436, 3-4=-316/240, 4-5=-256/240, 5-6=-363/770,
6-7=-195/404
BOT CHORD 1-12=-420/909, 11-12=-417/907, 10-11=-162/604, 9-10=-574/478, 8-9=-257/213,
7-8=-254/210
WEBS 4-10=-291/30, 5-10=-526/1013, 5-9=-1532/844, 6-9=-398/331, 3-10=-617/455,
3-11=-323/394, 2-11=-380/320

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; porch 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) 1 except (jt=lb) 9=117.
- 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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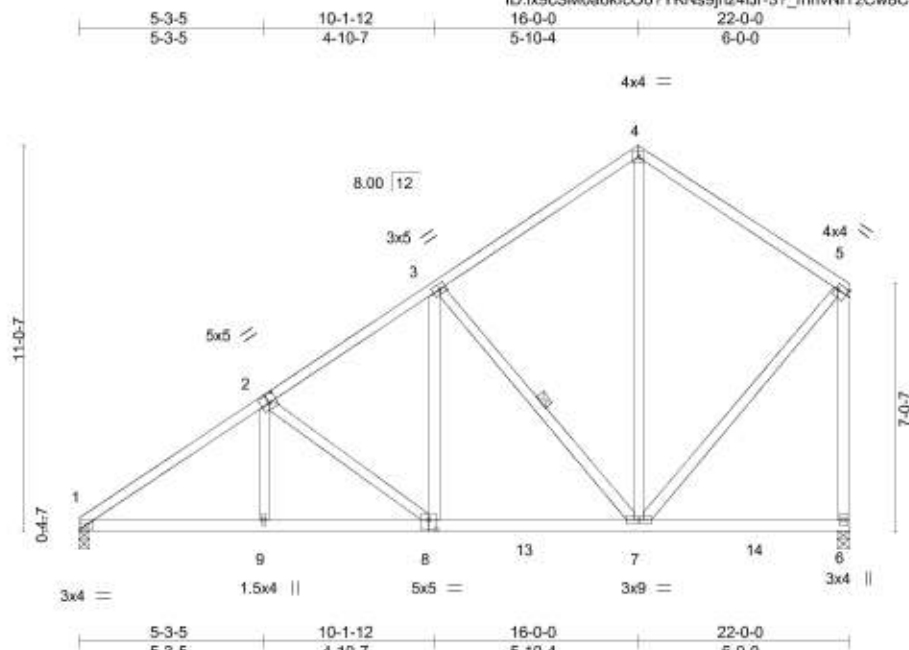


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545935
LOT_13	B6	Common	8	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:15 2020 Page 1
ID:ix9cSM0a6kfc007YKNs9jhz4Ur-37_mnvNFTzCw8CNidqumqlodJ_XFwiThi6Z4IPz3MAQ



Scale = 1:65.9

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	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.09	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS							
									Weight: 147 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=-1305/220, 2-3=-955/230, 3-4=-552/236, 4-5=-550/237, 5-6=-821/214
BOT CHORD 1-9=-396/1131, 8-9=-396/1129, 7-8=-284/815
WEBS 2-8=-395/142, 3-8=-23/395, 3-7=-607/202, 4-7=-100/279, 5-7=-127/597

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.



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June 23,2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545936
LOT_13	B7	Common	4	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:16 2020 Page 1

ID:ix9cSM0a6kfc007YKNs9jhz4Ij-XBY9?FOHEGKmmMyuBXP?MWLubOfYf7Hr_mJdPsz3MAP

Job Reference (optional)

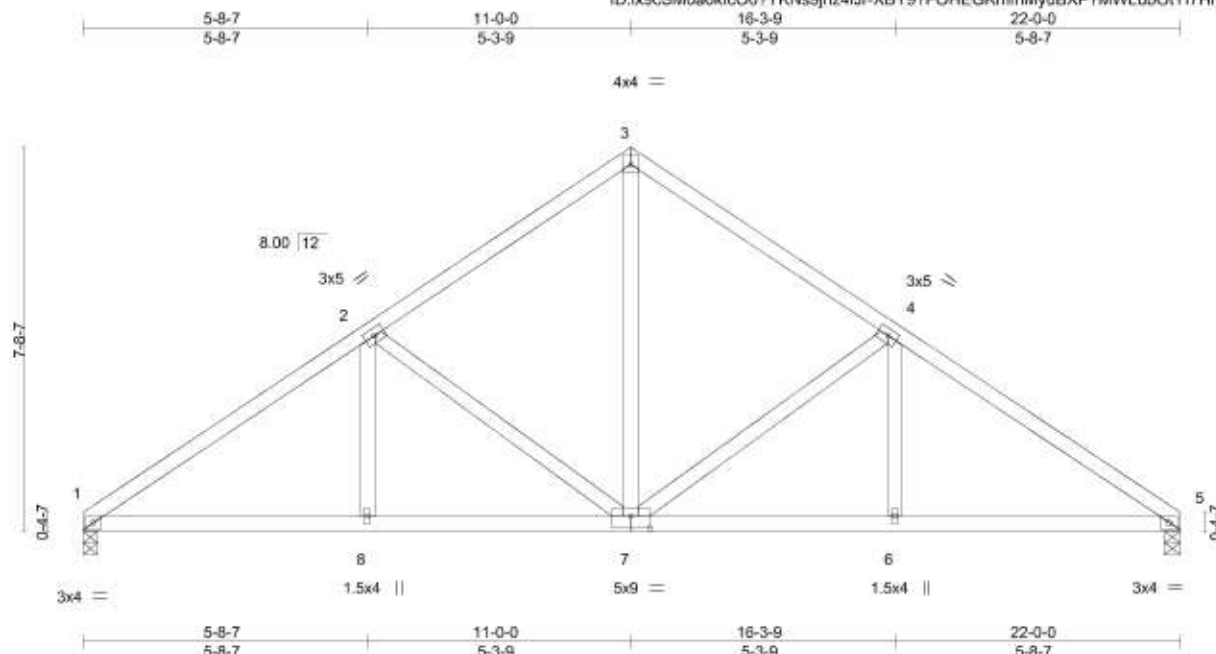


Plate Offsets (X,Y)~ [7:0-4-8,0-3-0]

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	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.08	8-11	>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 11)
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.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545937
LOT_13	B8GIR	Roof Special Girder	1	2		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:26 2020 Page 1
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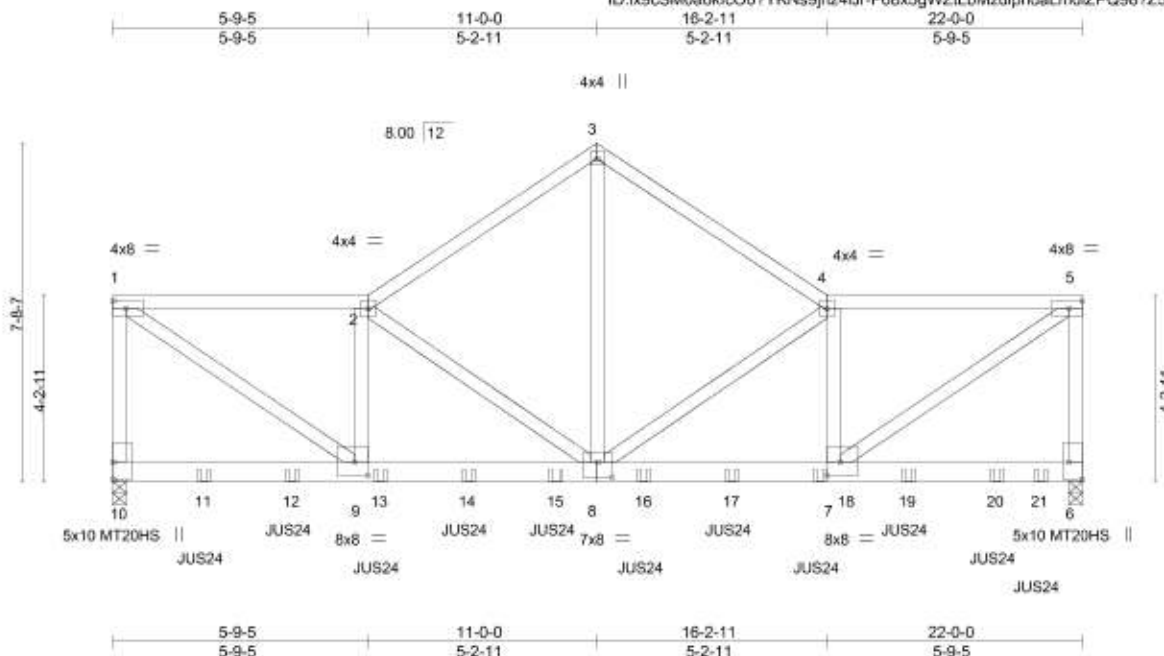


Plate Offsets (X,Y)-- [6:Edge,0-3-8], [7:0-3-8,0-4-0], [8:0-4-0,0-4-8], [9:0-3-8,0-4-0]

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	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.21	8-9	>999	180	MT20HS	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/TPI2014		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 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



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June 23,2020

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Lot 13
LOT_13	B8GIR	Roof Special Girder	1	2	T20545937

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:26 2020 Page 2
ID:ix9cSM0a6kfc00?YKNs9jhz4Ur-F68x5gWZILbMzuipndal.mdlZPQ98?Z5JHJk9mHz3MAF

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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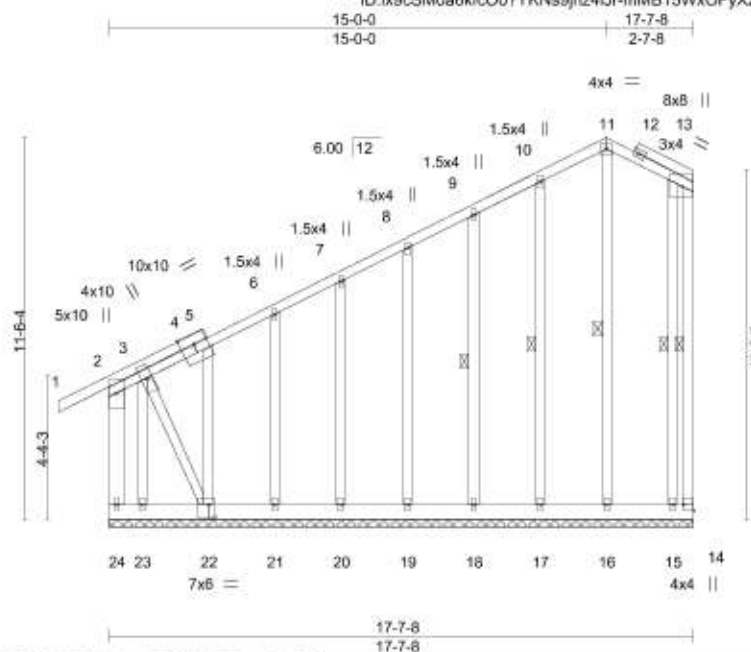
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545938
LOT_13	C1GE	Common Supported Gable	1	1		

Mayo Truss, Mayo, FL

Job Reference (optional)

8.240 s Apr 4 2020 MITEK Industries, Inc. Tue Jun 23 16:59:24 2020 Page 1
ID:ix9cSM0a6kfc00?YKns9jhz4Jr-mMB15WxOFyXzqZHnZ1_wORENblUSx5KaMorOlz3LxH



Scale = 1:69.5

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/TPI2014		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" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6'-0" oc bracing, Except: 10'-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 3-4=-326/182, 4-5=-318/198, 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/TPI 1.
- 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" 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" tall by 2'-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.

LOAD CASE(S) Standard



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Date:

June 23,2020

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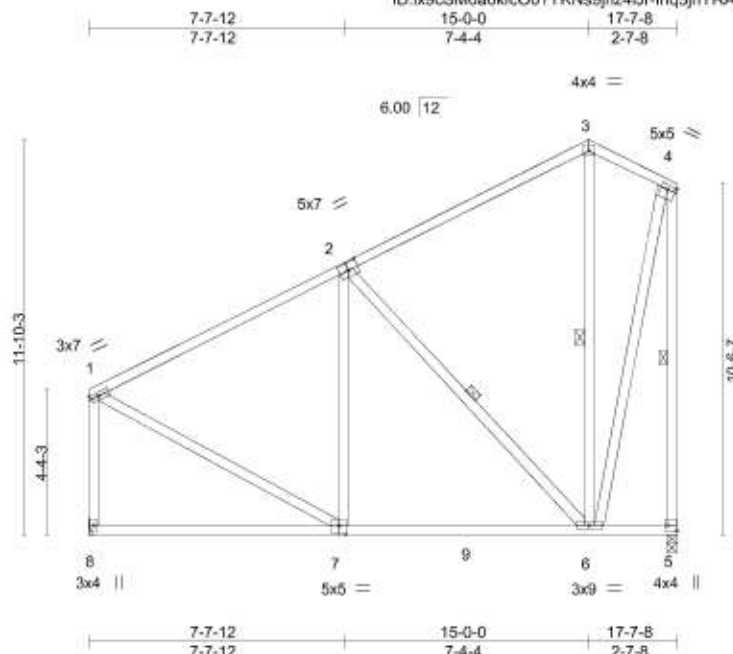
Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545939
LOT_13	C2	Common	11	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:29 2020 Page 1

ID:ix9cSM0a6kfcO07YKNs9jhz4LJr-fhq3jYRAGzwqMROsm82OFN0LdHICw5LzHypNcz3MAC

Job Reference (optional)



Scale = 1:69.0

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	
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-

- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 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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June 23,2020

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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.



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Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545940
LOT_13	J1	Jack-Open	3	1		

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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:30 2020 Page 1
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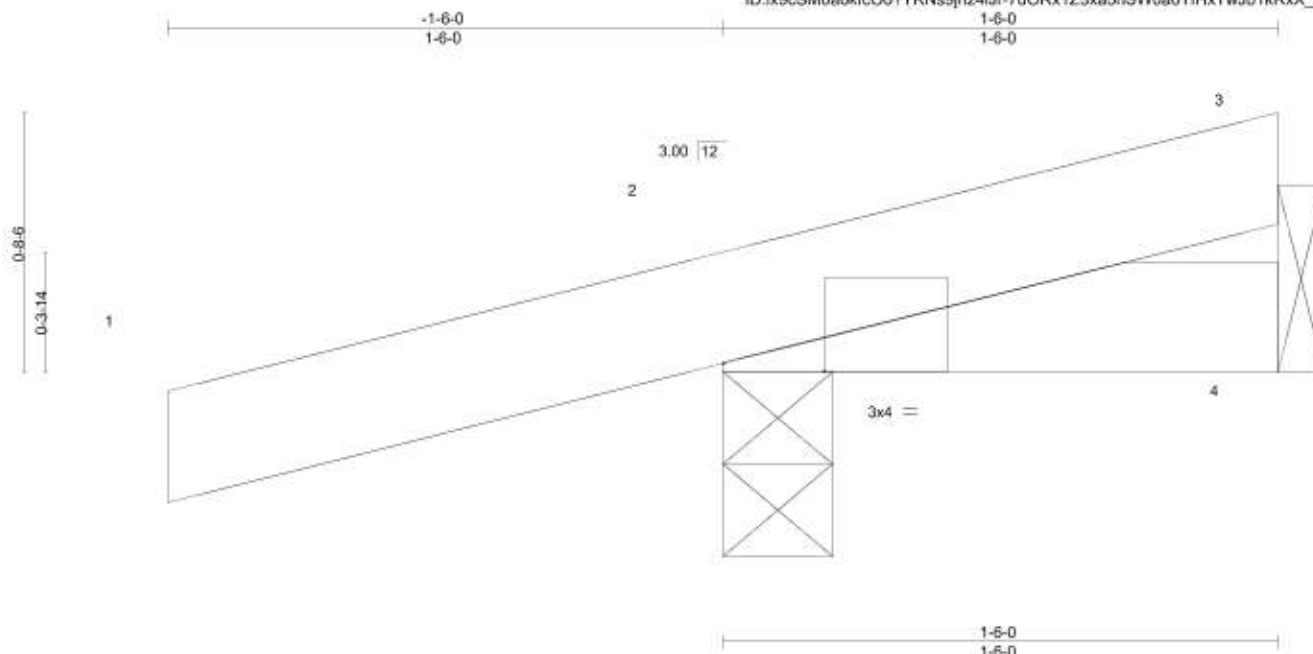


Plate Offsets (X,Y)~ [2:0-3-4,Edge]

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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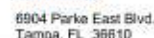
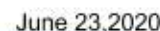
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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$$\begin{array}{r} 1-6-0 \\ 1-6-0 \\ \hline \end{array}$$
 $3 \times 4 =$

- 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., 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
- 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" 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" tall by 2'-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.



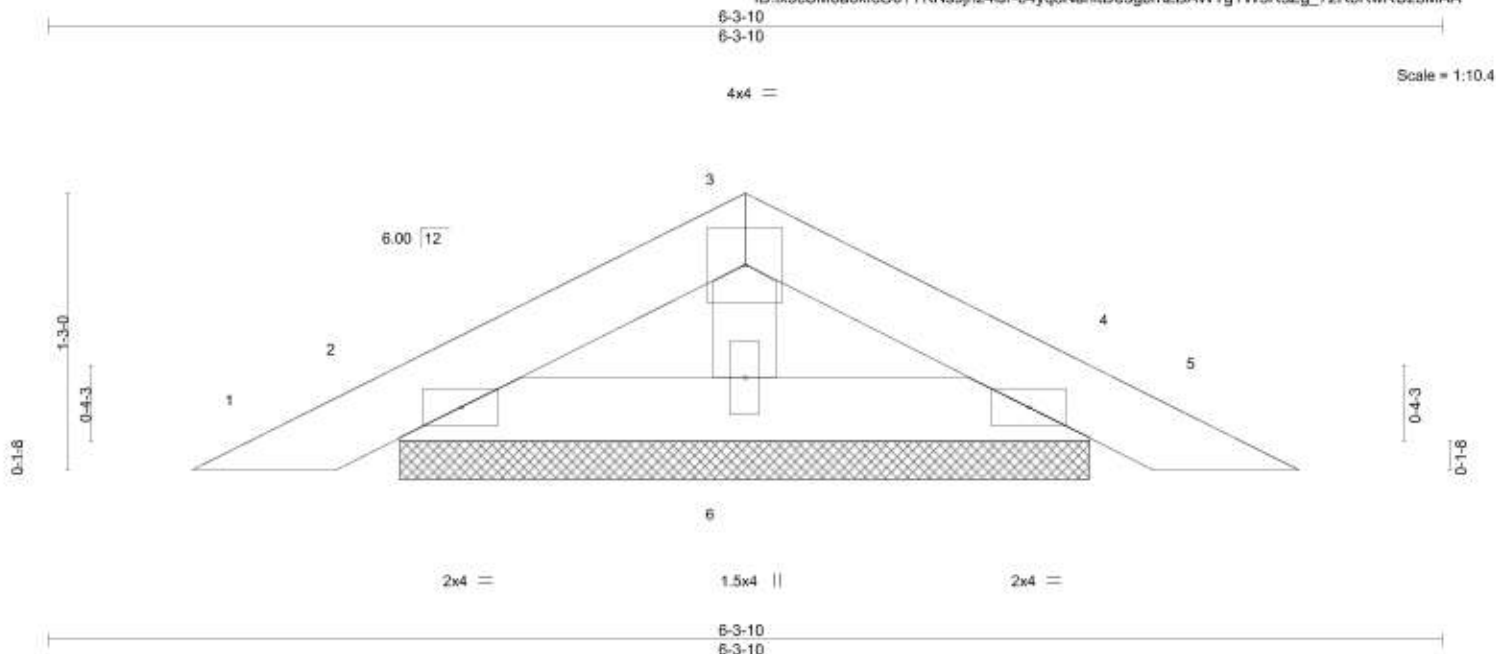
Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545942
LOT_13	P1GE	GABLE	1	1		

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

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Job Reference (optional)



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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Date:

June 23,2020

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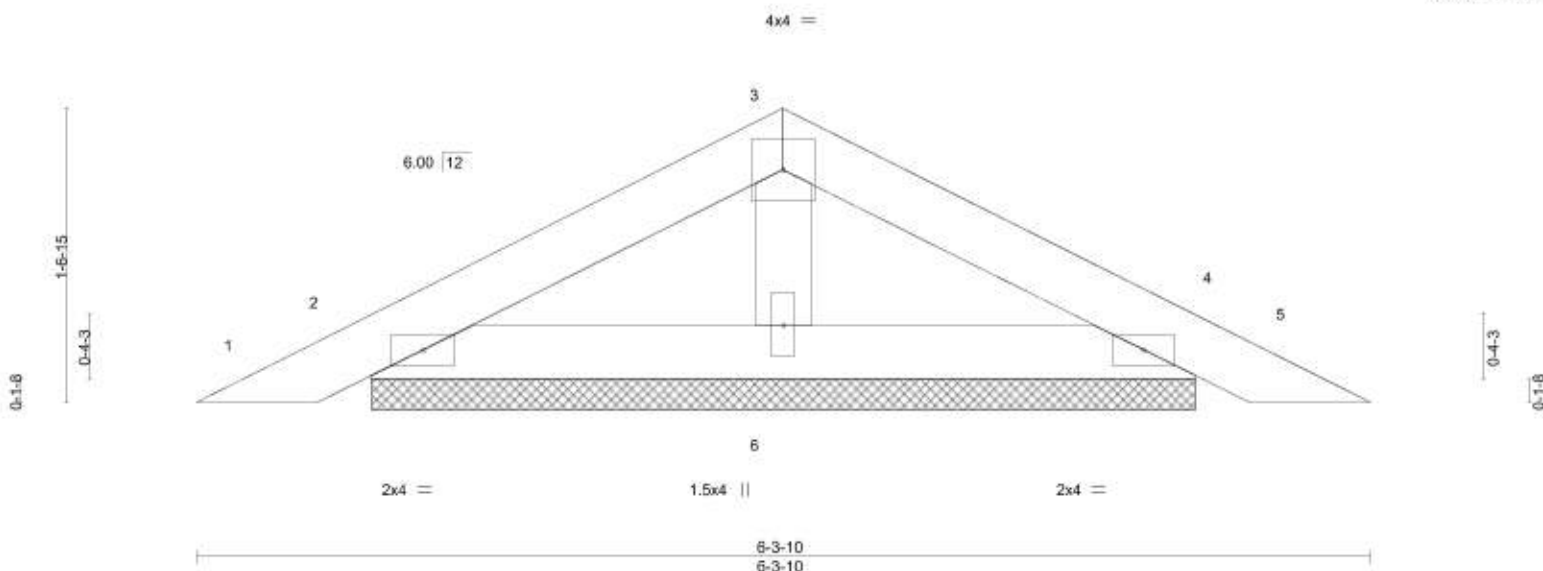
Job	Truss	Truss Type	Qty	Ply	Lot 13	T20545943
LOT_13	PB2	Piggyback	11	1		

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8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 15:43:32 2020 Page 1
ID:ix9cSM0a6kfc007YKNs9jhz4Ur-3GVCMjbJTBLVhpAz7uhl0u?gCrPPPRJBIFBTzwz3MA9

3-1-13 3-1-13 6-3-10 3-1-13

Scale = 1:12.4



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 0.07	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	5	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: 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.

(size) 2=4-5-0, 4=4-5-0, 6=4-5-0
Max Horz 2=-23(LC 10)
Max Uplift 2=-27(LC 12), 4=-27(LC 12)
Max Grav 2=131(LC 1), 4=131(LC 1), 6=166(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=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
- Gable requires continuous bottom chord bearing.
- 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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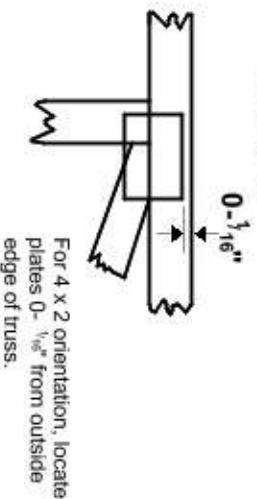
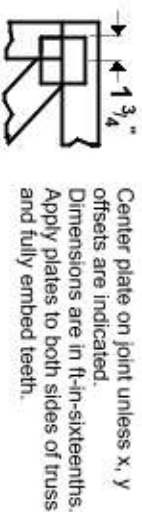
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

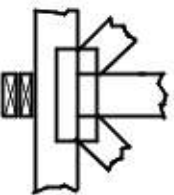
4 X 4

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

LATERAL BRACING LOCATION



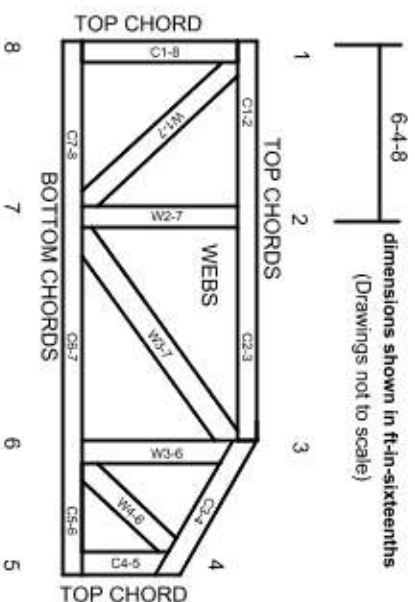
BEARING



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.