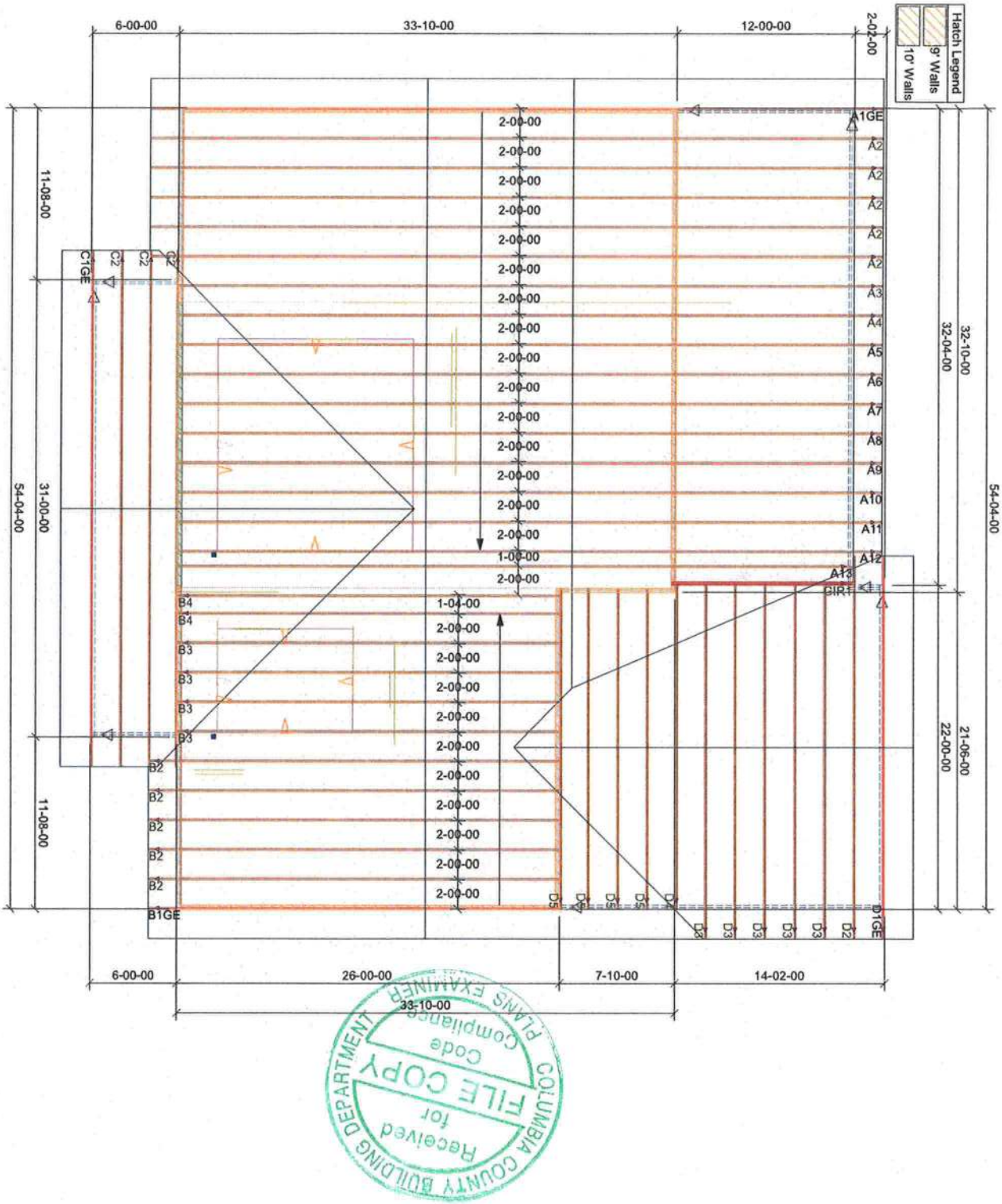


COLUMBIA COUNTY BUILDING DEPARTMENT
PLANS EXAMINER
FILE COPY
Received for Code Compliance

McGriff

Client: SCCI
Date: 11/20/2020
Quote Date: / /
Seal Date: / /
Designer: Jason Degroff
Job Number: 1120-053

Mayo Truss Company Inc.
Ph. (386) 294-3988
Fax (386) 294-3981
mayotruss@windstream.net

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

RE: McGriff - McGriff

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

Site Information:
Customer Info: SCCI Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FI

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

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

This package includes 25 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	No.	Seal#	Truss Name	Date
1	T21964781	A1GE	11/20/20	23	T21964803	D4	11/20/20
2	T21964782	A2	11/20/20	24	T21964804	D5	11/20/20
3	T21964783	A3	11/20/20	25	T21964805	GIR1	11/20/20
4	T21964784	A4	11/20/20				
5	T21964785	A5	11/20/20				
6	T21964786	A6	11/20/20				
7	T21964787	A7	11/20/20				
8	T21964788	A8	11/20/20				
9	T21964789	A9	11/20/20				
10	T21964790	A10	11/20/20				
11	T21964791	A11	11/20/20				
12	T21964792	A12	11/20/20				
13	T21964793	A13	11/20/20				
14	T21964794	B1GE	11/20/20				
15	T21964795	B2	11/20/20				
16	T21964796	B3	11/20/20				
17	T21964797	B4	11/20/20				
18	T21964798	C1GE	11/20/20				
19	T21964799	C2	11/20/20				
20	T21964800	D1GE	11/20/20				
21	T21964801	D2	11/20/20				
22	T21964802	D3	11/20/20				

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.

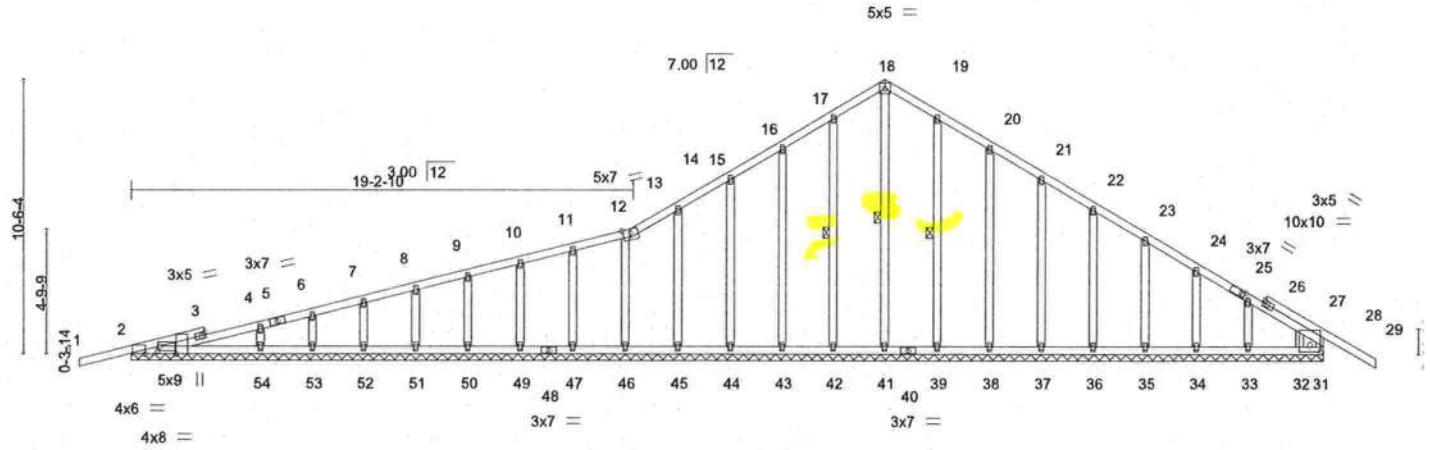
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,2020

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A1GE	Roof Special Supported Gable	1	1	T21964781
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:17 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-0FjOdgGvLI2xfDZxq23NgNzXqS84n2tyhlIRHAyHHe4

-2-0-0 | 19-1-5 | 28-11-0 | 45-10-0 | 47-10-0
2-0-0 | 19-1-5 | 9-9-11 | 16-11-0 | 2-0-0

Scale = 1:88.5



45-10-0
45-10-0

Plate Offsets (X,Y)-- [2:0-1-0,0-2-0], [2:0-6-7,Edge], [2:0-3-8,Edge], [25:0-1-8,0-1-8], [29:0-5-0,0-3-4]

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	0.30	Vert(LL)	-0.02	30	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.04	30	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	31	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 299 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 18-41, 17-42, 19-39

REACTIONS. All bearings 45-10-0.
(lb) - Max Horz 2=292(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 39, 38, 37, 36, 35, 34, 33, 32 except 31=-108(LC 12), 2=-117(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 39, 38, 37, 36, 35, 34, 33, 32 except 31=311(LC 22), 2=315(LC 21), 41=251(LC 12), 54=337(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-146/288, 18-19=-146/288, 29-31=-299/145

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 39, 38, 37, 36, 35, 34, 33, 32 except (jt=lb) 31=108, 2=117.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,2(

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

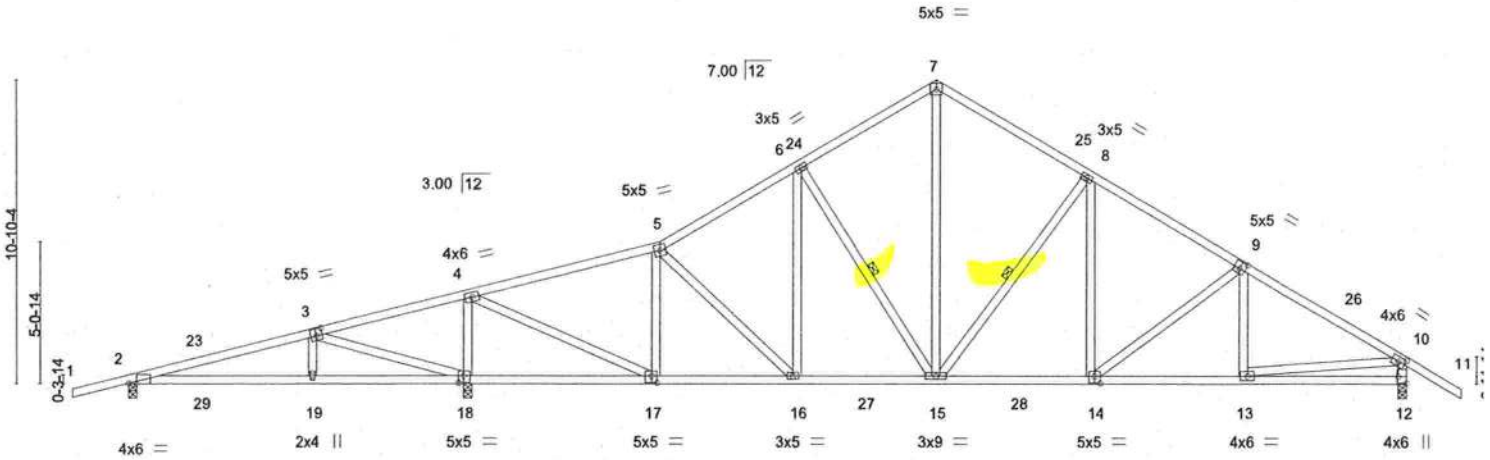
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A2	ROOF SPECIAL	5	1	T21964782
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:19 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-yer82MHAtvlfvXiJxT5rmo2pHGlRFrGF83nYM3yHHe2

-2-0-0	6-7-6	12-1-12	19-0-0	23-11-8	28-11-0	34-5-8	40-0-0	45-10-0	47-10-0
2-0-0	6-7-6	5-6-6	6-10-4	4-11-8	4-11-8	5-6-8	5-6-8	5-10-0	2-0-0

Scale = 1:82.5



6-7-6	12-1-12	19-0-0	23-11-8	28-11-0	34-5-8	40-0-0	45-10-0
6-7-6	5-6-6	6-10-4	4-11-8	4-11-8	5-6-8	5-6-8	5-10-0

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [9:0-2-8,0-3-0], [10:0-2-14,0-2-0], [12:Edge,0-3-8], [14:0-2-8,0-3-0], [17:0-2-4,0-3-0], [18:0-2-4,0-3-0]

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	0.56	Vert(LL)	-0.11	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.20	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 279 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 12=0-3-8
Max Horz 2=305(LC 11)
Max Uplift 2=-253(LC 12), 18=-484(LC 12), 12=-264(LC 12)
Max Grav 2=396(LC 21), 18=2328(LC 2), 12=1602(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-145/333, 3-4=-397/1047, 4-5=-1390/315, 5-6=-1603/479, 6-7=-1368/520, 7-8=-1350/501, 8-9=-1792/510, 9-10=-2053/479, 10-12=-1497/516
BOT CHORD 2-19=-359/116, 18-19=-357/107, 17-18=-865/479, 16-17=-70/1418, 15-16=-72/1422, 14-15=-135/1460, 13-14=-249/1658
WEBS 3-18=-973/737, 4-18=-1861/611, 4-17=-582/2292, 5-17=-755/334, 6-15=-458/194, 7-15=-304/1035, 8-15=-697/285, 8-14=-23/424, 9-14=-317/144, 10-13=-299/1431

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2R) 28-11-0 to 33-6-0, Interior(1) 33-6-0 to 47-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 18=484, 12=264.
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.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,2(

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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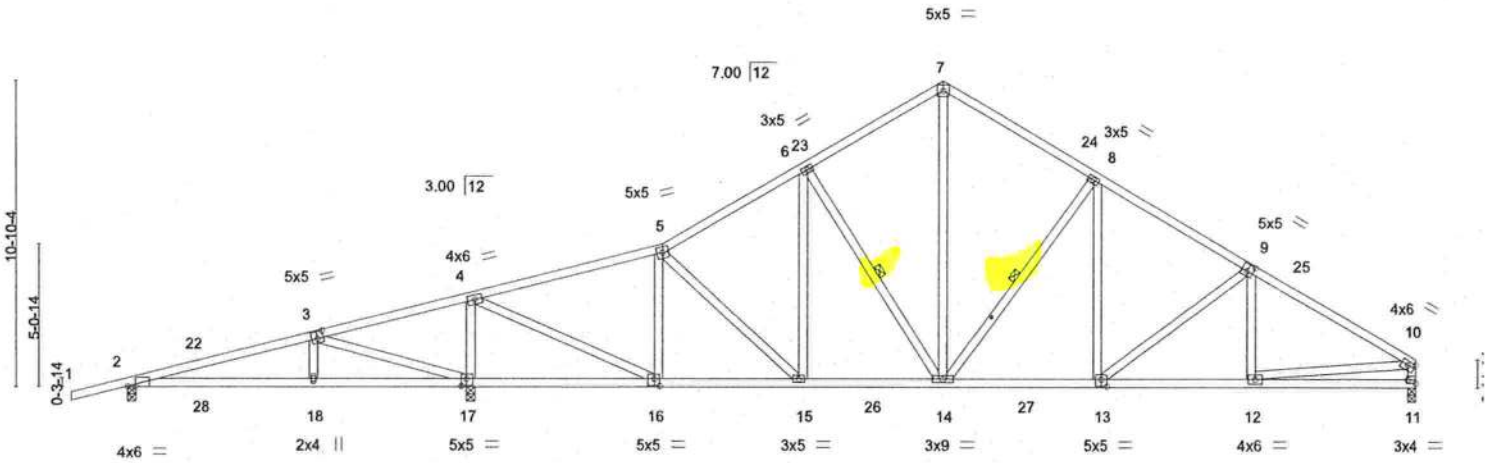
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A3	ROOF SPECIAL	1	1	T21964783
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:20 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-QqPXFhloeDQWWhHWVAc4l0b_?f4b_HbONjW6uVyHHe1

-2-0-0	6-7-6	12-1-12	19-0-0	23-11-8	28-11-0	34-5-8	40-0-0	45-10-0
2-0-0	6-7-6	5-6-6	6-10-4	4-11-8	4-11-8	5-6-8	5-6-8	5-10-0

Scale = 1:82.0



6-7-6	12-1-12	19-0-0	23-11-8	28-11-0	34-5-8	40-0-0	45-10-0
6-7-6	5-6-6	6-10-4	4-11-8	4-11-8	5-6-8	5-6-8	5-10-0

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [9:0-2-8,0-3-0], [10:Edge,0-1-12], [11:Edge,0-1-8], [13:0-2-8,0-3-0], [16:0-2-4,0-3-0], [17:0-2-4,0-3-0]

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	0.56	Vert(LL)	-0.11	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.20	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 275 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8
Max Horz 2=294(LC 11)
Max Uplift 2=-243(LC 12), 17=-501(LC 12), 11=-167(LC 12)
Max Grav 2=396(LC 21), 17=2332(LC 2), 11=1476(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-144/319, 3-4=-457/1037, 4-5=-1392/302, 5-6=-1608/473, 6-7=-1374/518, 7-8=-1355/501, 8-9=-1807/520, 9-10=-2079/496, 10-11=-1371/370
BOT CHORD 2-18=-356/116, 17-18=-353/107, 16-17=-867/444, 15-16=-141/1408, 14-15=-159/1410, 13-14=-218/1451, 12-13=-353/1696, 11-12=-117/314
WEBS 3-17=-973/737, 4-17=-1860/636, 4-16=-619/2291, 5-16=-754/350, 6-14=-459/181, 7-14=-301/1040, 8-14=-705/288, 8-13=-39/439, 9-13=-342/170, 10-12=-237/1394

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2R) 28-11-0 to 33-6-0, Interior(1) 33-6-0 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=243, 17=501, 11=167.
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.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: November 20,20

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff	T21964784
MCGRIFF	A4	Roof Special	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:21 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-v0yvT1JQPXYN8rsi3u8JrD79b3MZjjfYcNGfQxyHHe0

-2-0-0	4-9-13	8-6-11	12-3-8	19-0-0	23-11-8	28-11-0	35-10-11	42-10-6	45-10-0
2-0-0	4-9-13	3-8-13	3-8-13	6-8-8	4-11-8	4-11-8	6-11-11	6-11-11	2-11-10

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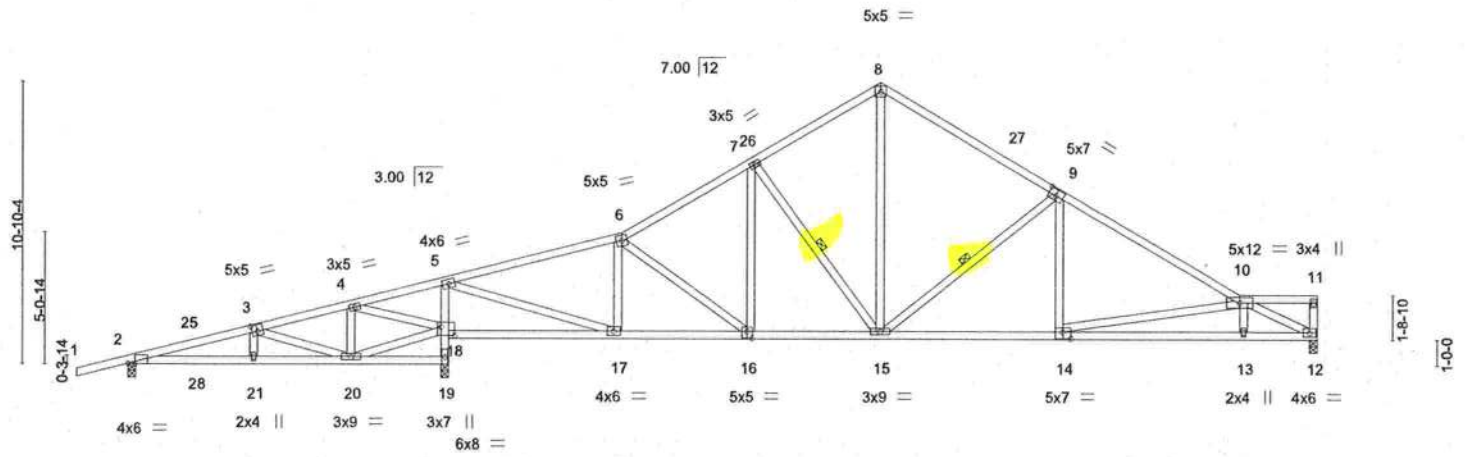

4-9-13	8-6-11	12-1-12 12-3-8	19-0-0	23-11-8	28-11-0	35-10-11	42-10-6	45-10-0
4-9-13	3-8-13	3-7-1 0-1-12	6-8-8	4-11-8	4-11-8	6-11-11	6-11-11	2-11-10

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [9:0-3-8,0-3-0], [14:0-3-8,0-3-0], [16:0-2-8,0-3-0], [18:0-6-4,0-4-0]

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	0.51	Vert(LL)	-0.11	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.26	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 267 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-15, 9-15

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 19=0-3-8
Max Horz 2=290(LC 11)
Max Uplift 12=-175(LC 12), 2=-268(LC 12), 19=-472(LC 12)
Max Grav 12=1279(LC 1), 2=468(LC 21), 19=2052(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-619/483, 3-4=-22/318, 4-5=-531/1057, 5-6=-1614/433, 6-7=-1653/539, 7-8=-1335/544, 8-9=-1378/515, 9-10=-2015/576
BOT CHORD 2-21=-599/584, 20-21=-589/576, 18-19=-2020/796, 5-18=-1746/645, 17-18=-901/451, 16-17=-341/1534, 15-16=-309/1361, 14-15=-419/1652, 13-14=-661/2351, 12-13=-653/2358
WEBS 3-20=-622/478, 4-20=-214/315, 4-18=-921/614, 5-17=-789/2521, 6-17=-609/303, 7-16=-3/275, 7-15=-498/221, 8-15=-299/937, 9-15=-765/341, 9-14=0/416, 10-14=-712/261, 10-12=-2577/699

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2R) 28-11-0 to 33-6-0, Interior(1) 33-6-0 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=175, 2=268, 19=472.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,20

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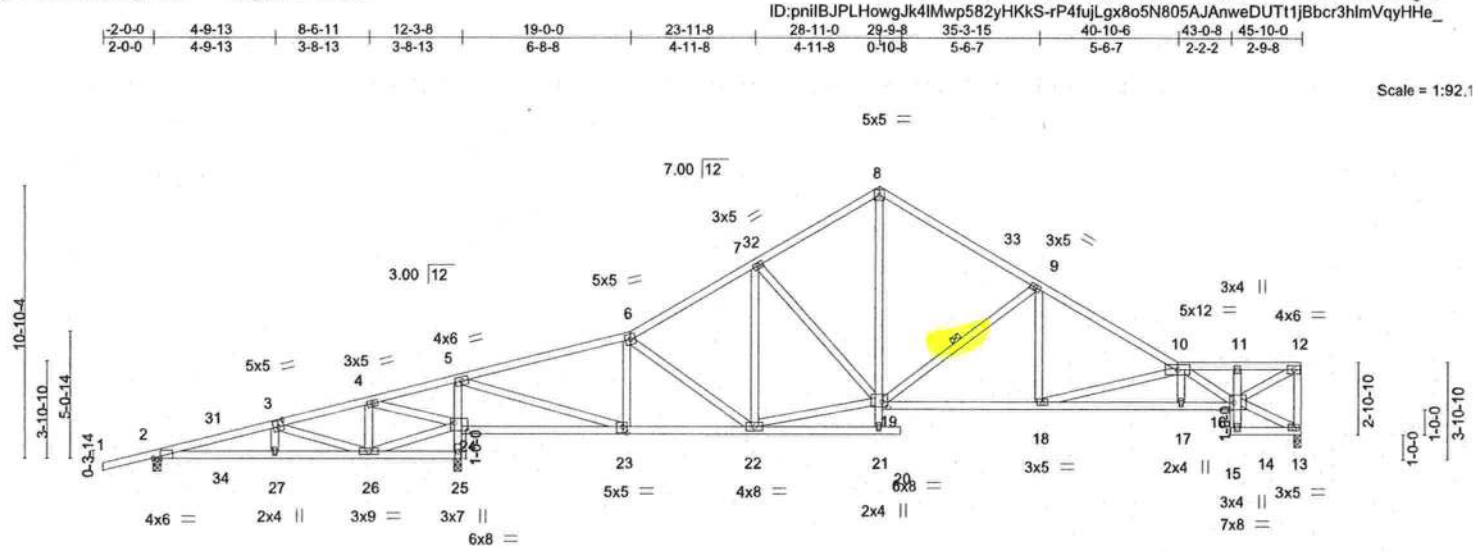
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff	T21964785
MCGRIFF	A5	Roof Special	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:23 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-rP4fujLgx8o5N805AJAnweDUT1jBbcr3hlmVqyHHe_



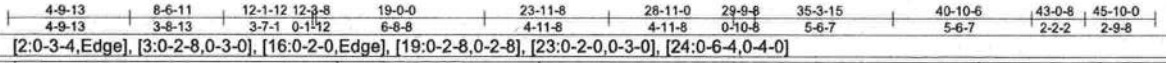


Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [16:0-2-0,Edge], [19:0-2-8,0-2-8], [23:0-2-0,0-3-0], [24:0-6-4,0-4-0]

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	0.55	Vert(LL)	-0.16	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.34	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.14	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 282 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 9-19

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 25=0-3-8
Max Horz 2=309(LC 11)
Max Uplift 13=-167(LC 12), 2=-264(LC 12), 25=-472(LC 12)
Max Grav 13=1282(LC 1), 2=449(LC 21), 25=2098(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-547/451, 3-4=-37/404, 4-5=-618/1239, 5-6=-1523/395, 6-7=-1632/517, 7-8=-1457/542, 8-9=-1511/528, 9-10=-2274/632, 10-11=-1790/474, 11-12=-1706/456, 12-13=-1225/362
BOT CHORD 2-27=-594/514, 26-27=-584/506, 24-25=-2066/814, 5-24=-1815/664, 23-24=-1081/485, 22-23=-366/1477, 18-19=-522/1926, 17-18=-921/3266, 16-17=-916/3270
WEBS 3-26=-627/480, 4-26=-216/343, 24-26=-320/0, 4-24=-988/617, 5-23=-815/2622, 6-23=-656/312, 7-19=-311/159, 8-19=-307/1078, 9-19=-913/357, 9-18=-34/586, 10-18=-1394/416, 10-16=-1766/470, 12-16=-570/2030, 19-22=-358/1345

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2R) 28-11-0 to 33-6-0, Interior(1) 33-6-0 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=167, 2=264, 25=472.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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November 20,2(

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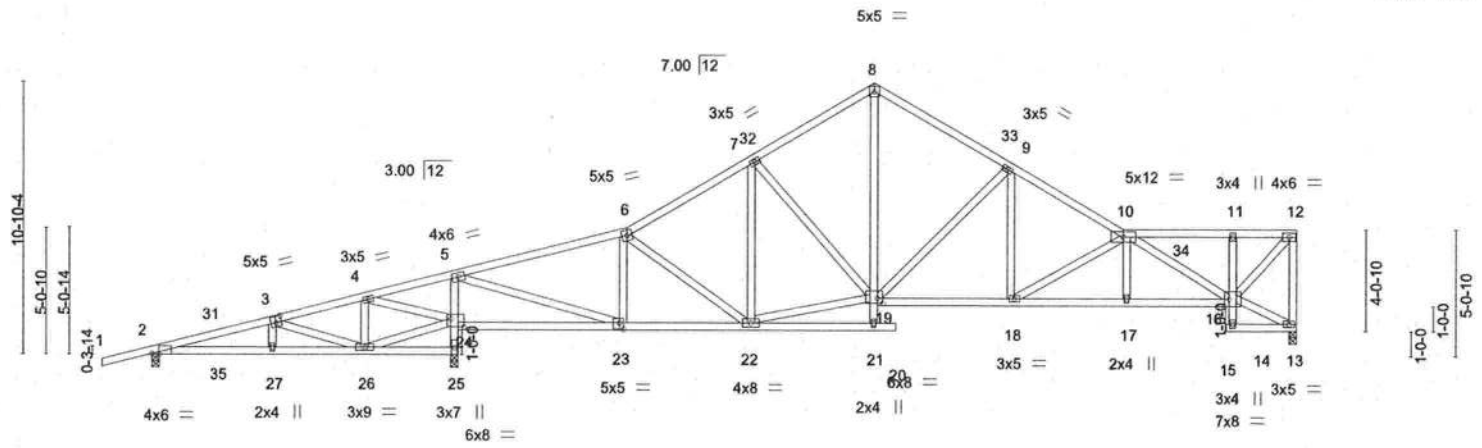
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff T21964786
MCGRIFF	A6	Roof Special	1	1	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:24 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-Jbe153LliSwy?IbHk0h0TslfZHRVw29_ILUJ0GyHHdz

-2-0-0	4-9-13	8-6-11	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	34-3-15	38-10-6	43-0-8	45-10-0
2-0-0	4-9-13	3-8-13	3-8-13	6-8-8	4-11-8	4-11-8	0-10-8	4-6-7	4-6-7	4-2-2	2-9-8

Scale = 1:92.1



4-9-13	8-6-11	12-1-12	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	34-3-15	38-10-6	43-0-8	45-10-0
4-9-13	3-8-13	3-7-1	0-1-12	6-8-8	4-11-8	4-11-8	0-10-8	4-6-7	4-6-7	4-2-2	2-9-8

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [16:0-2-4,Edge], [19:0-2-8,0-2-8], [23:0-2-0,0-3-0], [24:0-6-4,0-4-0]

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	0.53	Vert(LL)	-0.13	18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.28	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 291 lb	FT = 20%

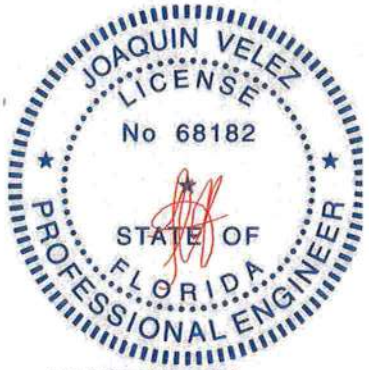
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 14-16

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 25=0-3-8
Max Horz 2=329(LC 11)
Max Uplift 13=-168(LC 12), 2=-265(LC 12), 25=-470(LC 12)
Max Grav 13=1288(LC 1), 2=460(LC 21), 25=2075(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-588/462, 3-4=-71/346, 4-5=-625/1131, 5-6=-1566/403, 6-7=-1655/521, 7-8=-1470/544, 8-9=-1503/529, 9-10=-2118/611, 10-11=-1076/320, 11-12=-1032/307, 12-13=-1246/366
BOT CHORD 2-27=-636/553, 26-27=-626/545, 24-25=-2043/815, 5-24=-1779/657, 23-24=-973/454, 22-23=-422/1517, 18-19=-523/1785, 17-18=-730/2509, 16-17=-727/2513
WEBS 3-26=-624/480, 4-26=-202/327, 24-26=-271/0, 4-24=-948/603, 5-23=-803/2552, 6-23=-637/310, 7-19=-320/165, 8-19=-334/1117, 9-19=-810/326, 9-18=-69/569, 10-18=-848/263, 10-16=-1692/451, 12-16=-453/1570, 19-22=-418/1366

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2R) 28-11-0 to 33-6-0, Interior(1) 33-6-0 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=168, 2=265, 25=470.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,20

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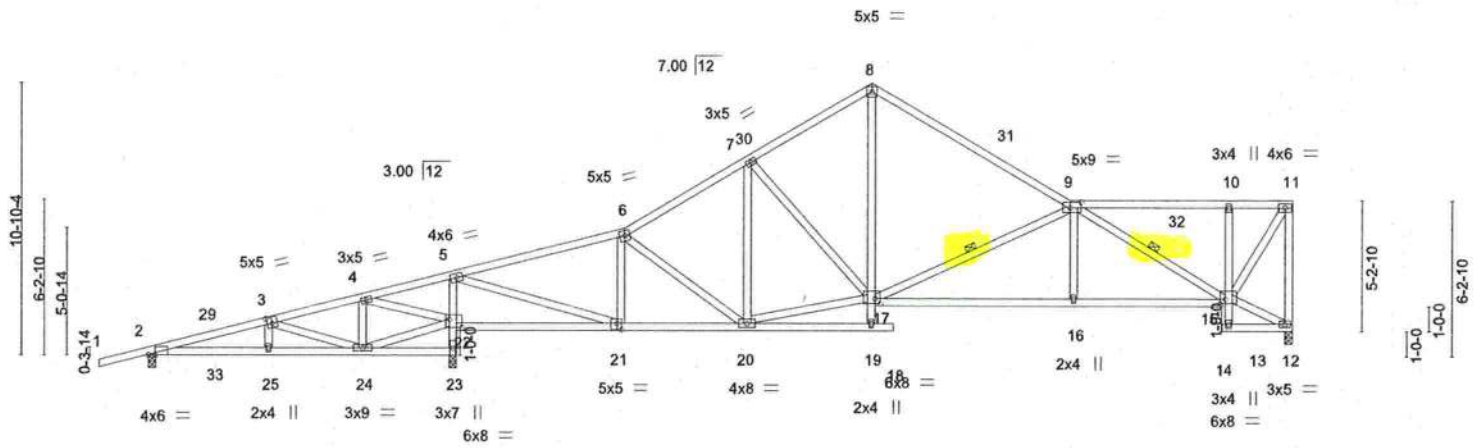
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A7	Roof Special	1	1	T21964787
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:26 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-F_moWlNZE3AgEclgrRjUYHrxb41CO_oHlf_Q59yHHdx

-2-0-0	4-9-13	8-6-11	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	36-10-6	43-0-8	45-10-0
2-0-0	4-9-13	3-8-13	3-8-13	6-8-8	4-11-8	4-11-8	0-10-8	7-0-14	6-2-2	2-9-8

Scale = 1:92.1



4-9-13	8-6-11	12-1-12	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	36-10-6	43-0-8	45-10-0
4-9-13	3-8-13	3-7-1	0-1-12	6-8-8	4-11-8	4-11-8	0-10-8	7-0-14	6-2-2	2-9-8

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [9:0-5-4,0-2-12], [15:0-2-8,0-2-4], [17:0-2-8,0-2-8], [21:0-2-0,0-3-0], [22:0-6-4,0-4-0]

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	0.81	Vert(LL)	-0.19	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.45	16-17	>900	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 287 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 13-15
WEBS 1 Row at midpt 9-17, 9-15

REACTIONS. (size) 12=0-3-8, 2=0-3-8, 23=0-3-8
Max Horz 2=348(LC 11)
Max Uplift 12=-169(LC 12), 2=-265(LC 12), 23=-469(LC 12)
Max Grav 12=1290(LC 1), 2=464(LC 21), 23=2066(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-603/465, 3-4=-113/333, 4-5=-647/1086, 5-6=-1588/406, 6-7=-1664/520, 7-8=-1477/545, 8-9=-1553/500, 9-10=-775/265, 10-11=-742/255, 11-12=-1250/372
BOT CHORD 2-25=-669/568, 24-25=-659/560, 22-23=-2033/818, 5-22=-1764/652, 21-22=-932/435, 20-21=-469/1537, 16-17=-663/2169, 15-16=-659/2176, 10-15=-303/180
WEBS 3-24=-622/480, 4-24=-195/321, 22-24=-258/11, 4-22=-932/596, 5-21=-797/2532, 6-21=-632/310, 7-17=-317/145, 8-17=-244/1023, 9-17=-1041/377, 9-16=0/344, 9-15=-1640/446, 11-15=-427/1426, 17-20=-468/1370

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2R) 28-11-0 to 33-6-0, Interior(1) 33-6-0 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=169, 2=265, 23=469.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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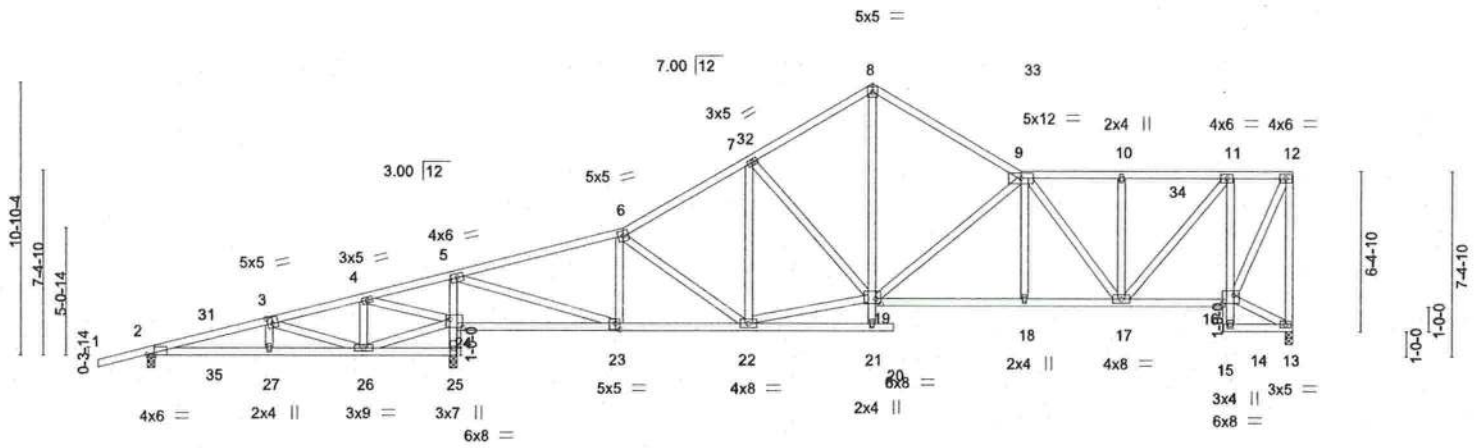
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A8	Roof Special	1	1	T21964788
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:27 2020 Page 1
ID:pnilBJPLHowgJk4IMwp582yHKkS-jAKAj5OB?NIXsmKsP8Fj4UN84UR07O1Q_JjzdbyHHdw

-2-0-0	4-9-13	8-6-11	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	34-10-6	38-11-7	43-0-8	45-10-0
2-0-0	4-9-13	3-8-13	3-8-13	6-8-8	4-11-8	4-11-8	0-10-8	5-0-14	4-1-1	4-1-1	2-9-8

Scale = 1:92.1



4-9-13	8-6-11	12-1-12	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	34-10-6	38-11-7	43-0-8	45-10-0
4-9-13	3-8-13	3-7-1	0-1-12	6-8-8	4-11-8	4-11-8	0-10-8	5-0-14	4-1-1	4-1-1	2-9-8

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [16:0-5-8,0-4-0], [19:0-2-8,0-2-8], [23:0-2-0,0-3-0], [24:0-6-4,0-4-0]

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	0.70	Vert(LL)	-0.11	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.26	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 307 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 14-16

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 25=0-3-8
Max Horz 2=368(LC 11)
Max Uplift 13=-170(LC 12), 2=-264(LC 12), 25=-468(LC 12)
Max Grav 13=1293(LC 1), 2=470(LC 21), 25=2053(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-627/465, 3-4=-155/314, 4-5=-669/1029, 5-6=-1610/405, 6-7=-1677/519, 7-8=-1483/543, 8-9=-1518/517, 9-10=-1368/445, 10-11=-1368/445, 11-12=-587/232, 12-13=-1256/388
BOT CHORD 2-27=-703/591, 26-27=-693/583, 24-25=-2021/817, 5-24=-1746/646, 23-24=-873/419, 22-23=-510/1565, 18-19=-610/1846, 17-18=-608/1849, 16-17=-250/607, 11-16=-1104/406
WEBS 3-26=-621/480, 4-26=-192/311, 4-24=-910/590, 5-23=-783/2491, 6-23=-621/307, 7-19=-325/159, 8-19=-301/1093, 9-19=-808/311, 9-17=-769/231, 10-17=-250/126, 11-17=-330/1175, 12-16=-421/1328, 19-22=-518/1385

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2R) 28-11-0 to 33-6-0, Interior(1) 33-6-0 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=170, 2=264, 25=468.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

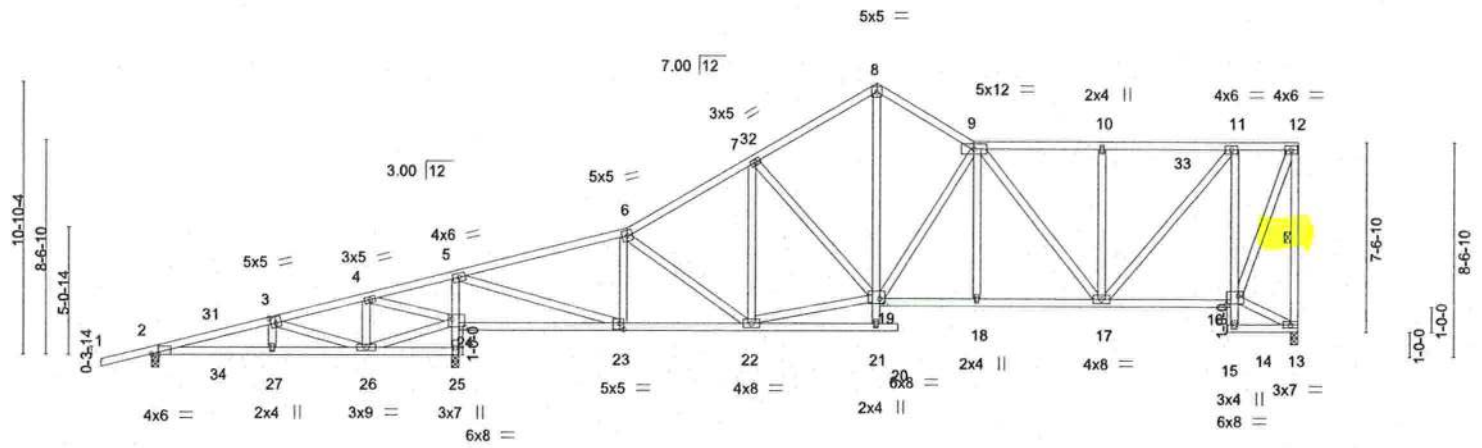
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A9	Roof Special	1	1	T21964789
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:29 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-gZRw8mPRX_YE53TEXZHBAvTXnI7obLbjSdC4iUyHHdu

-2-0-0	4-9-13	8-6-11	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	32-10-6	37-11-7	43-0-8	45-10-0
2-0-0	4-9-13	3-8-13	3-8-13	6-8-8	4-11-8	4-11-8	0-10-8	3-0-14	5-1-1	5-1-1	2-9-8

Scale = 1:92.1



4-9-13	8-6-11	12-1-12	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	32-10-6	37-11-7	43-0-8	45-10-0
4-9-13	3-8-13	3-7-1	0-1-12	6-8-8	4-11-8	4-11-8	0-10-8	3-0-14	5-1-1	5-1-1	2-9-8

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [16:0-5-8,0-4-0], [19:0-2-8,0-2-8], [23:0-2-0,0-3-0], [24:0-6-4,0-4-0]

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	0.50	Vert(LL)	-0.10	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.22	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 319 lb	FT = 20%

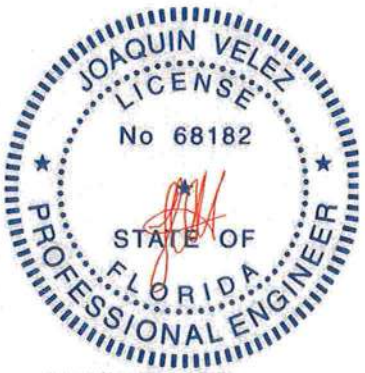
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 12-13

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 25=0-3-8
Max Horz 2=388(LC 11)
Max Uplift 13=-172(LC 12), 2=-263(LC 12), 25=-468(LC 12)
Max Grav 13=1295(LC 1), 2=472(LC 21), 25=2048(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-637/454, 3-4=-203/318, 4-5=-700/1005, 5-6=-1621/363, 6-7=-1683/472, 7-8=-1486/494, 8-9=-1484/501, 9-10=-1245/419, 10-11=-1245/419, 11-12=-478/220, 12-13=-1259/397
BOT CHORD 2-27=-731/601, 26-27=-721/593, 24-25=-2016/816, 5-24=-1737/639, 23-24=-850/389, 22-23=-542/1583, 18-19=-581/1605, 17-18=-580/1607, 16-17=-234/495, 11-16=-1119/440
WEBS 3-26=-620/480, 4-26=-186/307, 4-24=-902/579, 5-23=-771/2481, 6-23=-618/304, 7-19=-329/172, 8-19=-337/1156, 9-19=-708/259, 9-17=-575/198, 10-17=-342/184, 11-17=-342/1156, 12-16=-431/1296, 19-22=-561/1400

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2E) 28-11-0 to 32-10-6, Interior(1) 32-10-6 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=172, 2=263, 25=468.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,20

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A10	Roof Special	1	1	T21964790
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:11 2020 Page 1
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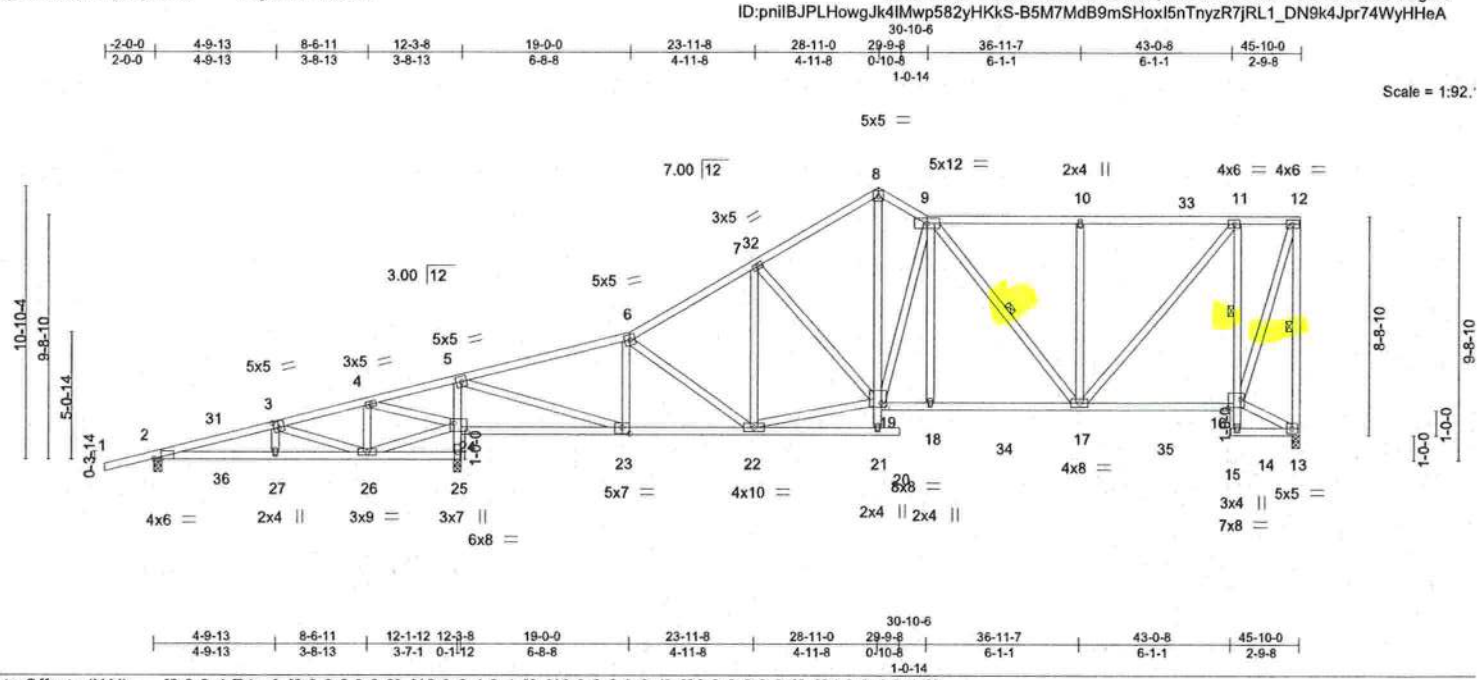

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [16:0-6-4,0-4-0], [19:0-2-8,0-2-4], [23:0-3-8,0-3-0], [24:0-6-4,0-4-0]

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	0.56	Vert(LL)	-0.14	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.25	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 332 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 11-16
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 12-13, 9-17

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 25=0-3-8
Max Horz 2=407(LC 11)
Max Uplift 13=-173(LC 12), 2=-262(LC 12), 25=-467(LC 12)
Max Grav 13=1521(LC 17), 2=474(LC 21), 25=2208(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-658/448, 3-4=-252/342, 4-5=-731/1095, 5-6=-1853/351, 6-7=-1914/460, 7-8=-1699/482, 8-9=-1691/511, 9-10=-1325/416, 10-11=-1325/416, 11-12=-529/223, 12-13=-1488/405
BOT CHORD 2-27=-759/626, 26-27=-749/613, 24-25=-2171/813, 5-24=-1876/630, 23-24=-923/376, 22-23=-570/1936, 18-19=-568/1708, 17-18=-567/1712, 16-17=-228/547, 11-16=-1238/480
WEBS 3-26=-667/481, 4-26=-184/356, 24-26=-277/52, 4-24=-973/574, 5-23=-755/2813, 6-23=-630/301, 6-22=-269/80, 7-19=-341/174, 8-19=-372/1446, 9-19=-875/242, 9-17=-520/174, 10-17=-416/226, 11-17=-353/1311, 12-16=-450/1537, 19-22=-598/1714

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2E) 28-11-0 to 30-10-6, Interior(1) 30-10-6 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 13, 262 lb uplift at joint 2 and 467 lb uplift at joint 25.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,2(

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A11	Roof Special	1	1	T21964791
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:12 2020 Page 1
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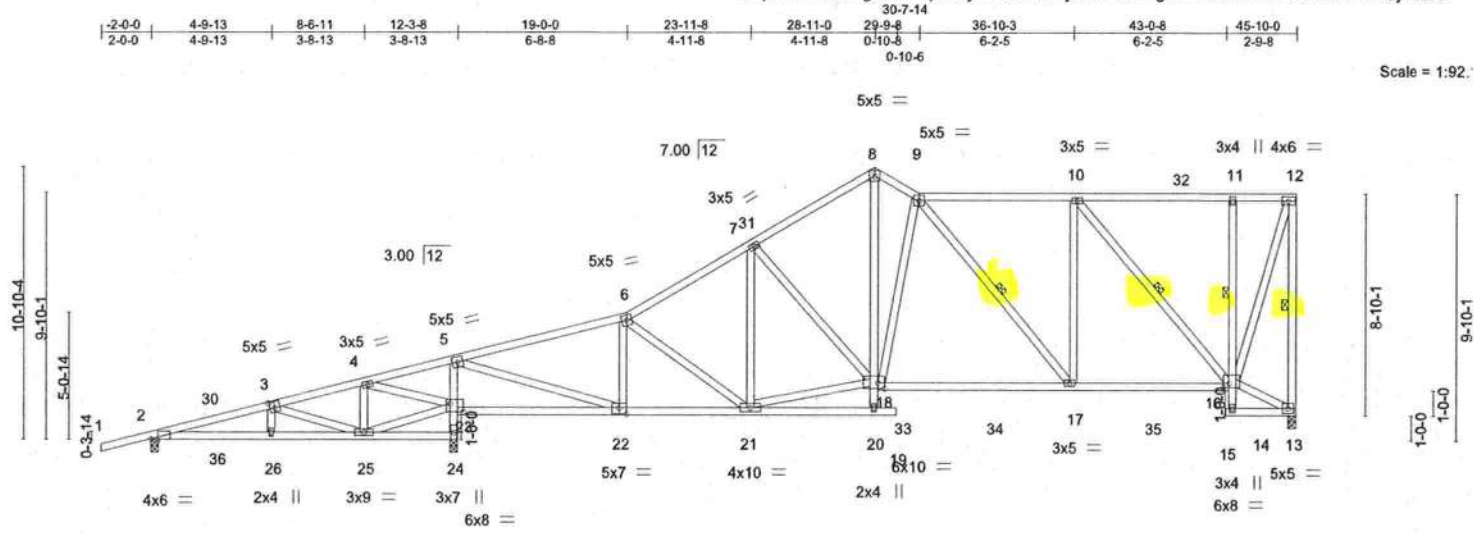

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [16:0-2-12,0-2-0], [18:0-3-4,0-2-12], [22:0-3-8,0-3-0], [23:0-6-4,0-4-0]

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	0.58	Vert(LL)	-0.25	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.46	17-18	>877	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 323 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 11-16
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 12-13, 9-17, 10-16

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 24=0-3-8
Max Horz 2=409(LC 11)
Max Uplift 13=-174(LC 12), 2=-263(LC 12), 24=-466(LC 12)
Max Grav 13=1518(LC 17), 2=475(LC 21), 24=2217(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-658/452, 3-4=-254/341, 4-5=-731/1090, 5-6=-1874/353, 6-7=-1937/460, 7-8=-1725/481, 8-9=-1706/512, 9-10=-1352/413, 10-11=-523/233, 11-12=-509/228, 12-13=-1468/401
BOT CHORD 2-26=-764/626, 25-26=-754/613, 23-24=-2181/811, 5-23=-1886/628, 22-23=-917/367, 21-22=-575/1957, 17-18=-576/1680, 16-17=-453/1410, 11-16=-292/217
WEBS 3-25=-667/481, 4-25=-182/354, 23-25=-282/55, 4-23=-970/571, 5-22=-751/2830, 6-22=-635/300, 6-21=-272/82, 7-18=-338/175, 8-18=-374/1467, 9-18=-746/282, 9-17=-427/194, 10-17=-46/701, 10-16=-1397/357, 13-16=-216/255, 12-16=-447/1520, 18-21=-602/1734

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-7-0, Interior(1) 2-7-0 to 28-11-0, Exterior(2E) 28-11-0 to 30-7-14, Interior(1) 30-7-14 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 13, 263 lb uplift at joint 2 and 466 lb uplift at joint 24.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,2

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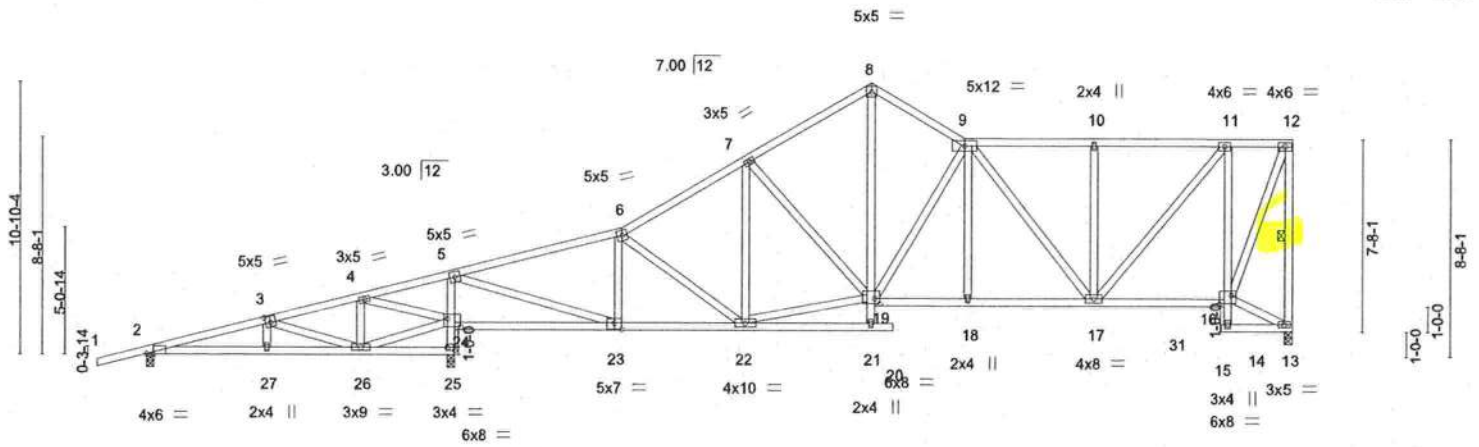
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A12	Roof Special	1	1	T21964792
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:14 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-cg1F?eE13NfNomqM8wWg3lLzZFzlaXDW?n3nhryHHe7

-2-0-0	4-9-13	8-6-11	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	32-7-14	37-10-3	43-0-8	45-10-0
2-0-0	4-9-13	3-8-13	3-8-13	6-8-8	4-11-8	4-11-8	0-10-8	2-10-6	5-2-5	5-2-5	2-9-8

Scale = 1:92.1



4-9-13	8-6-11	12-1-12	12-3-8	19-0-0	23-11-8	28-11-0	29-9-8	32-7-14	37-10-3	43-0-8	45-10-0
4-9-13	3-8-13	3-7-1	0-1-12	6-8-8	4-11-8	4-11-8	0-10-8	2-10-6	5-2-5	5-2-5	2-9-8

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:0-2-8,0-3-0], [16:0-5-12,0-4-0], [19:0-2-8,0-2-8], [23:0-3-8,0-3-0], [24:0-6-4,0-4-0], [25:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.13	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.25	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 320 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 12-13

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 25=0-3-8
Max Horz 2=390(LC 11)
Max Uplift 13=-179(LC 12), 2=-129(LC 12), 25=-284(LC 12)
Max Grav 13=1468(LC 17), 2=473(LC 21), 25=2308(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-745/54, 3-4=-260/270, 4-5=-174/1202, 5-6=-1778/241, 6-7=-1836/298, 7-8=-1625/316, 8-9=-1654/325, 9-10=-1368/264, 10-11=-1368/264, 11-12=-574/148, 12-13=-1429/166
BOT CHORD 2-27=-75/637, 26-27=-79/623, 24-25=-2251/303, 5-24=-1886/317, 23-24=-1023/115, 22-23=-179/1848, 18-19=-188/1819, 17-18=-187/1823, 16-17=-132/597, 11-16=-1189/198
WEBS 3-26=-700/75, 4-26=0/372, 4-24=-988/130, 5-23=-294/2826, 6-23=-631/161, 6-22=-250/88, 7-19=-339/138, 8-19=-208/1362, 9-19=-827/157, 9-17=-641/75, 10-17=-350/138, 11-17=-172/1287, 12-16=-169/1489, 19-22=-188/1650

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 13, 129 lb uplift at joint 2 and 284 lb uplift at joint 25.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,20

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	A13	Roof Special	1	1	T21964793
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:15 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-4tbeC_EfqhoEQwPYid1vbyu7LeMwJ0JfDRpLDlyHHe6

6-7-6	12-1-12	19-0-0	23-11-8	28-11-0	33-7-14	39-8-15	45-10-0
6-7-6	5-6-6	6-10-4	4-11-8	4-11-8	4-8-14	6-1-1	6-1-1

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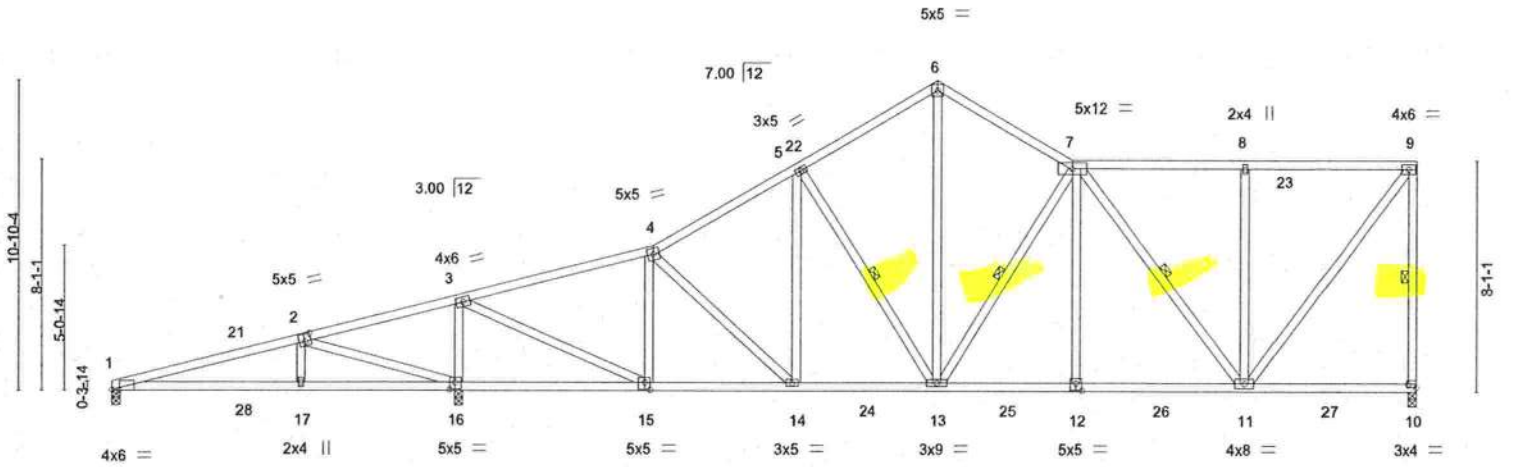

6-7-6	12-1-12	19-0-0	23-11-8	28-11-0	33-7-14	39-8-15	45-10-0
6-7-6	5-6-6	6-10-4	4-11-8	4-11-8	4-8-14	6-1-1	6-1-1

Plate Offsets (X,Y)-- [1:0-3-4,Edge], [2:0-2-8,0-3-0], [10:Edge,0-1-8], [12:0-2-8,0-3-0], [15:0-2-4,0-3-0], [16:0-2-4,0-3-0]

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	0.56	Vert(LL)	-0.10	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.18	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 296 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 9-10, 5-13, 7-13, 7-11

REACTIONS. (size) 10=0-3-8, 1=0-3-8, 16=0-3-8
Max Horz 1=405(LC 11)
Max Uplift 10=-169(LC 12), 1=-142(LC 12), 16=-516(LC 12)
Max Grav 10=1499(LC 17), 1=263(LC 21), 16=2358(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-181/311, 2-3=-715/1053, 3-4=-1428/253, 4-5=-1631/420, 5-6=-1387/467, 6-7=-1367/461, 7-8=-1007/346, 8-9=-1007/346, 9-10=-1371/392
BOT CHORD 1-17=-474/154, 16-17=-462/144, 15-16=-876/391, 14-15=-390/1439, 13-14=-464/1449, 12-13=-452/1491, 11-12=-451/1496
WEBS 2-16=-1017/763, 3-16=-1901/662, 3-15=-662/2358, 4-15=-784/367, 5-13=-460/166, 6-13=-289/1064, 7-13=-692/242, 7-12=0/294, 7-11=-821/215, 8-11=-410/243, 9-11=-396/1567

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=46ft; eave=6ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-7-0, Interior(1) 4-7-0 to 28-11-0, Exterior(2E) 28-11-0 to 33-7-14, Interior(1) 33-7-14 to 45-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 10, 142 lb uplift at joint 1 and 516 lb uplift at joint 16.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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November 20,20

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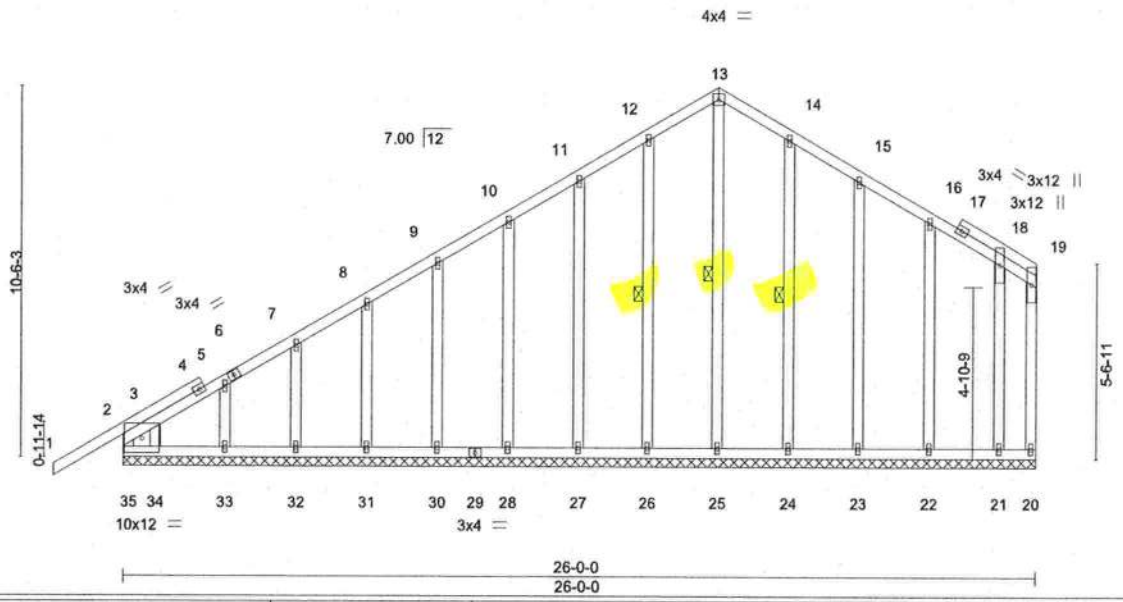
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	B1GE	Common Supported Gable	1	1	T21964794
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:30 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-8I?JM6Q3Hlg5jD2R4HoQi7?lYhb8Kw6tgHyeEwyHHdt

-2-0-0 2-0-0 | 16-11-0 16-11-0 | 26-0-0 9-1-0

Scale = 1:65.5



26-0-0
26-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	20	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-R							Weight: 216 lb	FT = 20%

LUMBER-

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

BRACING-

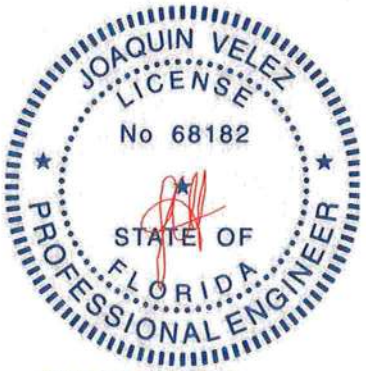
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 13-25, 12-26, 14-24

REACTIONS. All bearings 26-0-0.
(lb) - Max Horz 35=378(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 20, 25, 26, 27, 28, 30, 31, 32, 33, 24, 23, 22, 21 except 35=-184(LC 8), 34=-197(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 20, 25, 26, 27, 28, 30, 31, 32, 33, 34, 24, 23, 22, 21 except 35=463(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-35=-381/168, 2-3=-368/261, 3-5=-296/235, 5-7=-291/225, 7-8=-274/206, 8-9=-258/189, 12-13=-246/272, 13-14=-246/272

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 25, 26, 27, 28, 30, 31, 32, 33, 24, 23, 22, 21 except (jt=lb) 35=184, 34=197.



Joaquin Velez PE No.68182
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Date:
November 20,20

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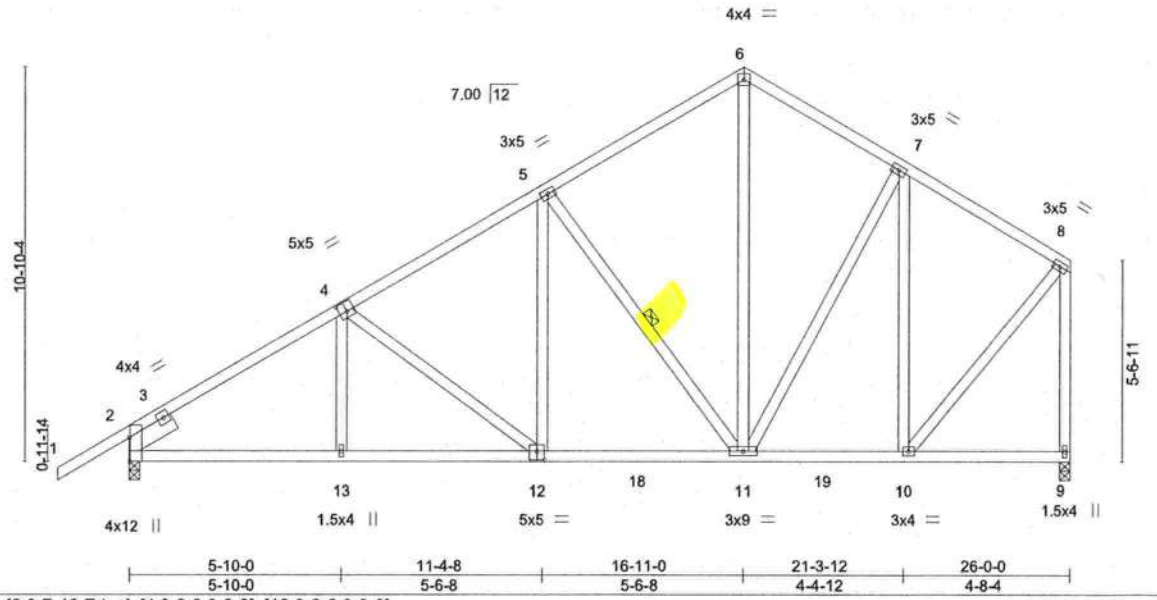
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	B2	Common	5	1	T21964795
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:31 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-cyZhZSRh2bpyLNdde_JfFKYns5lA3Hu0vxhBmMyHHds

-2-0-0	5-10-0	11-4-8	16-11-0	21-3-12	26-0-0
2-0-0	5-10-0	5-6-8	5-6-8	4-4-12	4-8-4

Scale: 3/16"=1



5-10-0	11-4-8	16-11-0	21-3-12	26-0-0
5-10-0	5-6-8	5-6-8	4-4-12	4-8-4

Plate Offsets (X,Y)-- [2:0-7-13,Edge], [4:0-2-8,0-3-0], [12:0-2-8,0-3-0]

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	0.84	Vert(LL)	-0.09	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.18	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	-0.04	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 187 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=385(LC 11)
Max Uplift 2=-231(LC 12), 9=-148(LC 12)
Max Grav 2=1300(LC 17), 9=1167(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1588/248, 4-5=-1276/245, 5-6=-858/258, 6-7=-834/265, 7-8=-733/196, 8-9=-1093/180
BOT CHORD 2-13=-194/1451, 12-13=-195/1449, 11-12=-132/1193, 10-11=-59/610
WEBS 4-12=-313/103, 5-12=0/449, 5-11=-737/178, 6-11=-139/549, 7-11=-67/285, 7-10=-499/80, 8-10=-47/893

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=231, 9=148.
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.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
November 20,2(

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	B3	Roof Special	4	1	T21964796

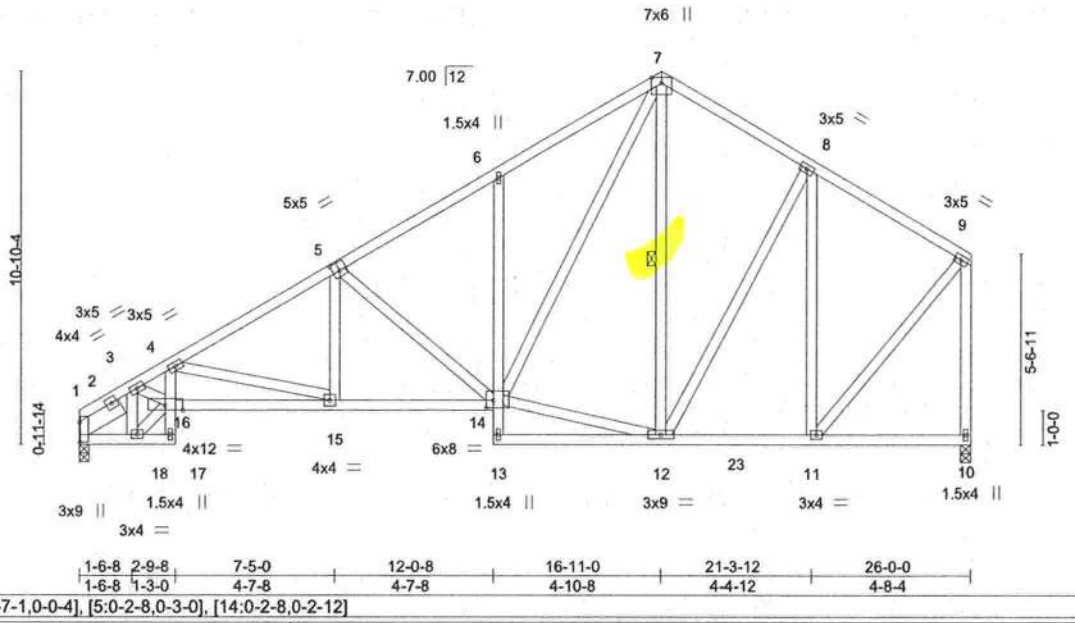
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:33 2020 Page 1

ID:pnilBJPLHowgJk4lMwp582yHKkS-YKhR_8SyaD3gahn0mPL7KldFfvUqXBYJMEAlrFyHHdq

1-6-8	2-9-8	7-5-0	12-0-8	16-11-0	21-3-12	26-0-0
1-6-8	1-3-0	4-7-8	4-7-8	4-10-8	4-4-12	4-8-4

Scale = 1:67.2



1-6-8	2-9-8	7-5-0	12-0-8	16-11-0	21-3-12	26-0-0
1-6-8	1-3-0	4-7-8	4-7-8	4-10-8	4-4-12	4-8-4

Plate Offsets (X,Y)-- [1:0-7-1,0-0-4], [5:0-2-8,0-3-0], [14:0-2-8,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.16	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 207 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -t 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 7-12

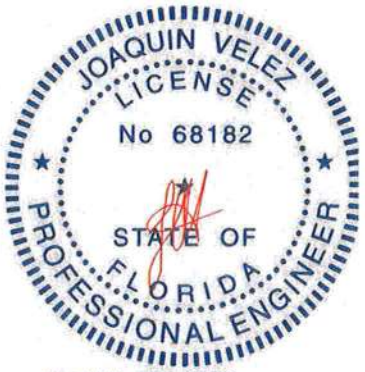
REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=363(LC 11)
Max Uplift 1=-144(LC 12), 10=-151(LC 12)
Max Grav 1=1165(LC 17), 10=1151(LC 17)

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

TOP CHORD	1-3=-1303/176, 3-4=-2836/350, 4-5=-1918/271, 5-6=-1357/263, 6-7=-1382/376, 7-8=-817/269, 8-9=-722/198, 9-10=-1078/183
BOT CHORD	1-18=-238/1131, 4-16=-98/492, 15-16=-433/2785, 14-15=-214/1758, 6-14=-296/169, 11-12=-59/602
WEBS	3-18=-1126/207, 16-18=-281/1337, 3-16=-193/1673, 4-15=-1050/225, 5-15=0/421, 5-14=-674/140, 12-14=-75/677, 7-14=-214/1138, 8-12=-67/269, 8-11=-487/85, 9-11=-50/882

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=144, 10=151.
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.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:

November 20,20

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	B4	Common	2	1	T21964797
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:33 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-YKhR_8SyaD3gahn0mPL7Kld9ivRkXBKJMEAlrFyHHdq

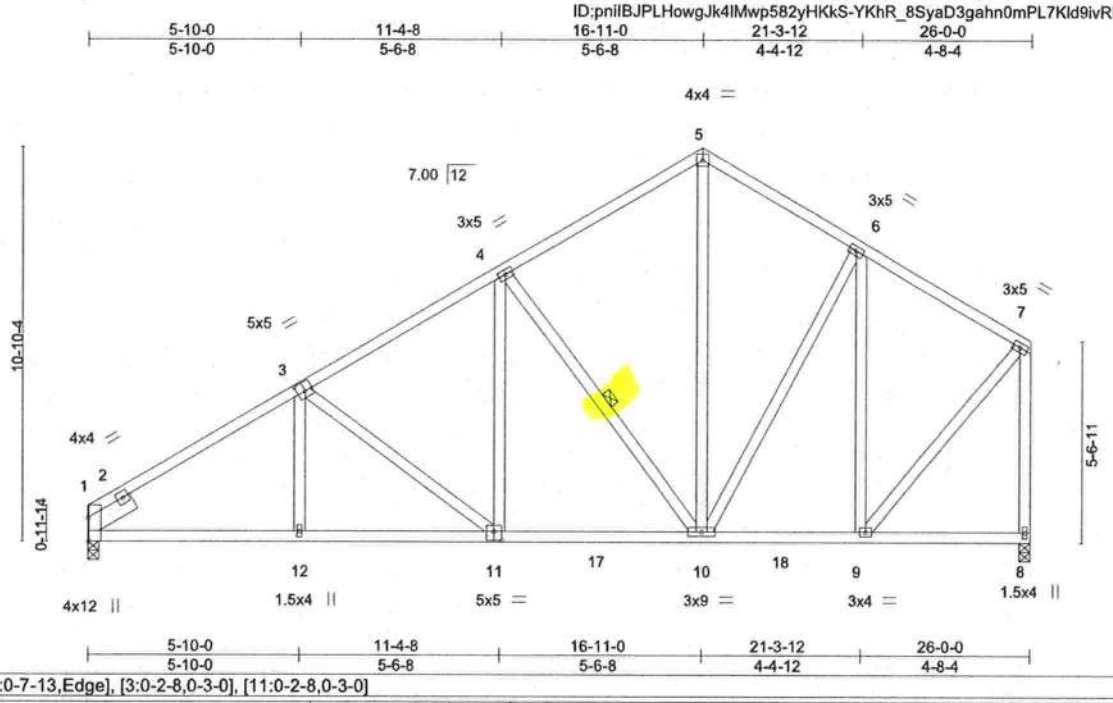


Plate Offsets (X,Y)-- [1:0-7-13,Edge], [3:0-2-8,0-3-0], [11:0-2-8,0-3-0]

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	0.76	Vert(LL)	-0.09	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.17	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 184 lb	FT = 20%

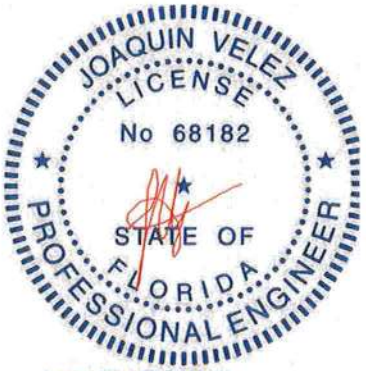
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-10

REACTIONS. (size) 1=0-3-8, 8=0-3-8
Max Horz 1=363(LC 11)
Max Uplift 1=-144(LC 12), 8=-151(LC 12)
Max Grav 1=1186(LC 17), 8=1171(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1614/232, 3-4=-1301/253, 4-5=-861/261, 5-6=-838/268, 6-7=-735/198, 7-8=-1097/183
BOT CHORD 1-12=-197/1479, 11-12=-198/1477, 10-11=-133/1200, 9-10=-59/613
WEBS 3-11=-338/121, 4-11=-6/461, 4-10=-743/183, 5-10=-141/551, 6-10=-67/287, 6-9=-502/83, 7-9=-49/897

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=144, 8=151.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:
November 20,2(

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6904 Parke East Blvd.
Tampa, FL 36610

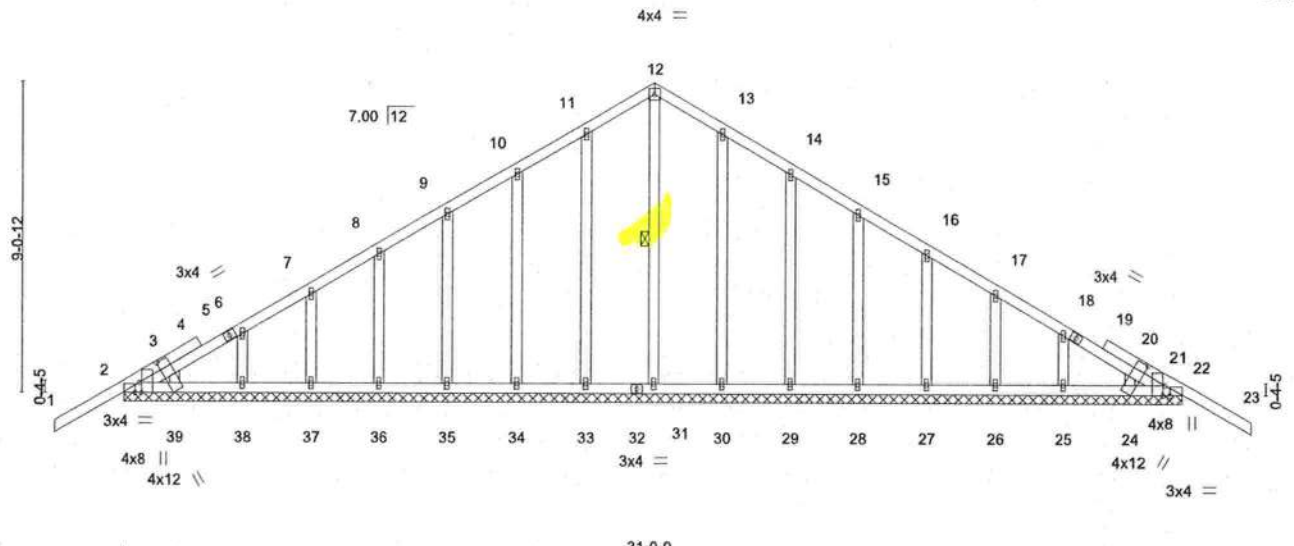
Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	C1GE	Common Supported Gable	1	1	T21964798

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:35 2020 Page 1
ID:pnilBJPLHowgJk4IMwp582yHKkS-UjpCPqUC6qJOq_xOtqObPAjcuiJC?BPcqYfOv7yHHdo

-2-0-0 2-0-0 | 15-6-0 15-6-0 | 31-0-0 15-6-0 | 33-0-0 2-0-0

Scale = 1:67.3



31-0-0
31-0-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-1-9,Edge], [22:0-1-9,Edge], [22:0-3-8,Edge], [24:0-2-14,0-8-12], [39:0-2-14,0-8-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.02	23	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.03	23	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 205 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 12-31

REACTIONS. All bearings 31-0-0.
(lb) - Max Horz 2=-255(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25 except 2=-140(LC 12), 22=-140(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 31, 33, 34, 35, 36, 37, 38, 39, 30, 29, 28, 27, 26, 25, 24 except 2=257(LC 1), 22=257(LC 1)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25 except (jt=lb) 2=140, 22=140.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 22.

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6904 Parke East Blvd. Tampa FL 33610
Date:

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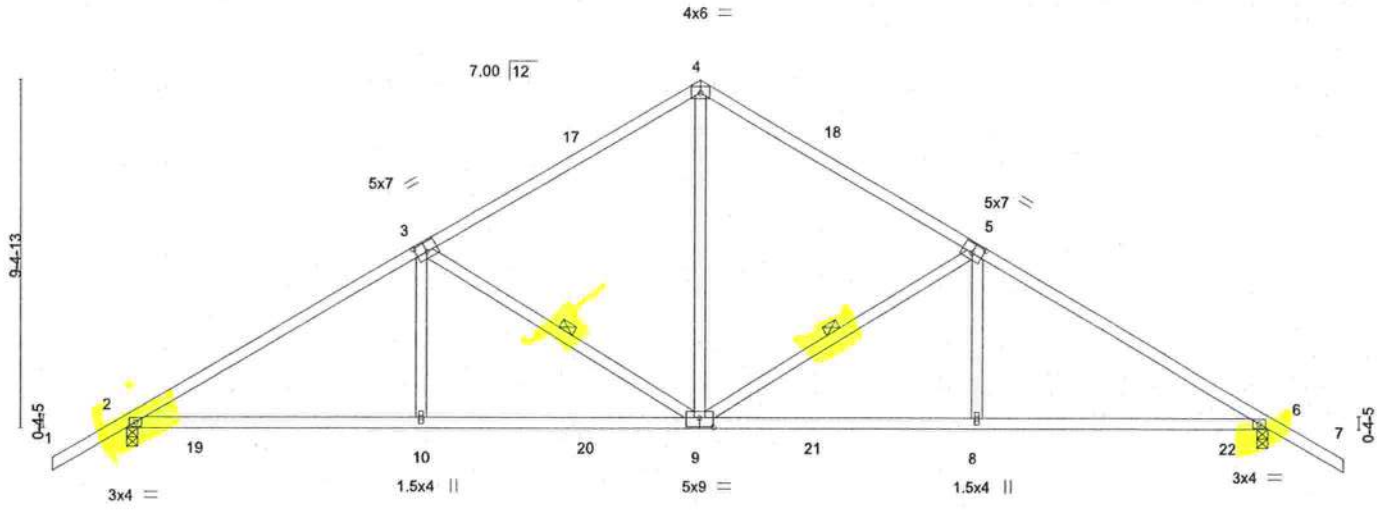
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff	T21964799
MCGRIFF	C2	Common	3	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:36 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-yvMacAVqt8RFR8WbRXvqyOFjs6VWkRgl3CPyRayHHdn

-2-0-0	7-11-13	15-6-0	23-0-3	31-0-0	33-0-0
2-0-0	7-11-13	7-6-3	7-6-3	7-11-13	2-0-0

Scale = 1:62.4



7-11-13	15-6-0	23-0-3	31-0-0
7-11-13	7-6-3	7-6-3	7-11-13

Plate Offsets (X,Y)-- [3:0-3-8,0-3-0], [5:0-3-8,0-3-0], [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	0.57	Vert(LL)	0.21	8-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.23	10-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 158 lb	FT = 20%

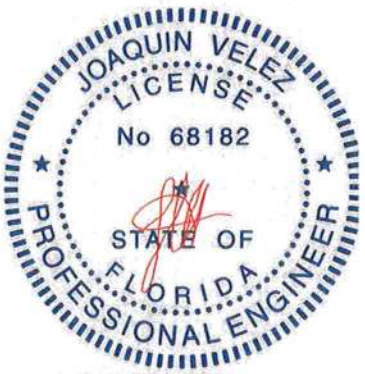
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-9, 3-9

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-264(LC 10)
Max Uplift 2=-656(LC 12), 6=-656(LC 12)
Max Grav 2=1360(LC 1), 6=1360(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1989/1198, 3-4=-1365/869, 4-5=-1365/869, 5-6=-1989/1198
BOT CHORD 2-10=-884/1632, 9-10=-881/1629, 8-9=-874/1629, 6-8=-878/1632
WEBS 4-9=-668/849, 5-9=-674/541, 5-8=-246/327, 3-9=-674/541, 3-10=-246/327

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-1-3, Interior(1) 1-1-3 to 15-6-0, Exterior(2R) 15-6-0 to 18-7-3, Interior(1) 18-7-3 to 33-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=656, 6=656.
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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November 20,20

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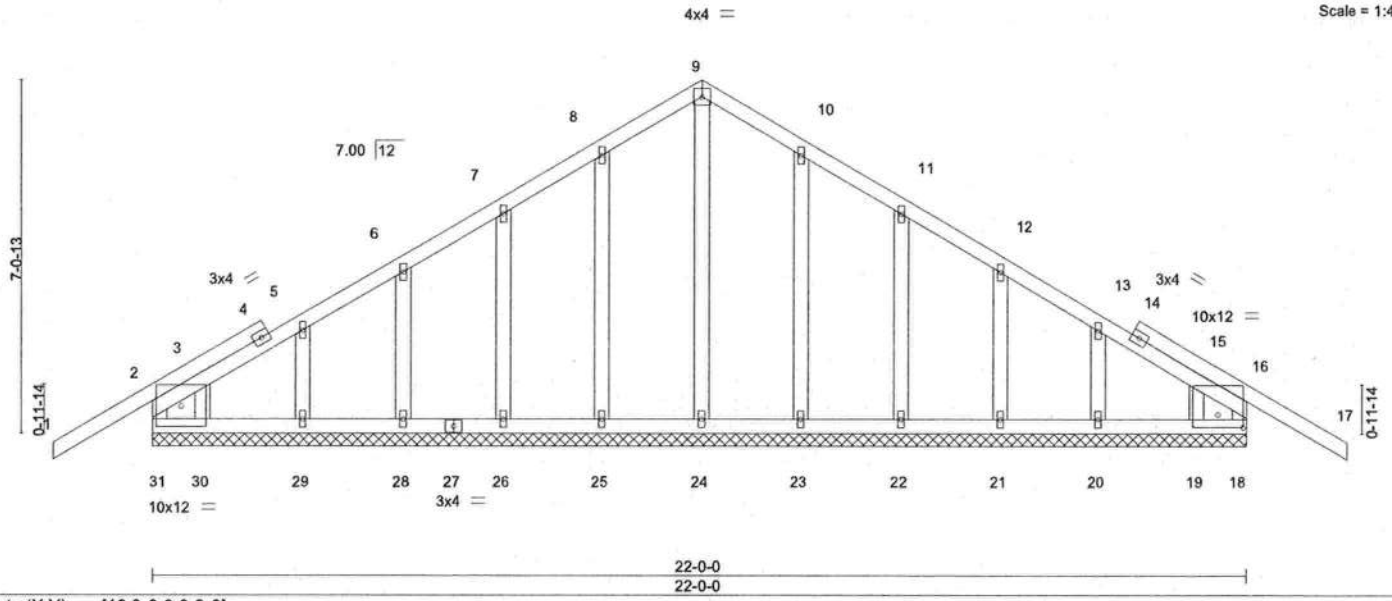
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff	T21964800
MCGRIFF	D1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:37 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-R5wyqWVSeRZ63I5n?FQ3UboxnW?bT6LvHs8V_0yHHdm

-2-0-0 2-0-0 | 11-0-0 11-0-0 | 22-0-0 11-0-0 | 24-0-0 2-0-0

Scale = 1:46.2



22-0-0
22-0-0

Plate Offsets (X,Y)-- [16:0-6-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.02	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.04	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-R							Weight: 141 lb	FT = 20%

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

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

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 31=210(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 25, 26, 28, 29, 30, 23, 22, 21, 20, 19 except 31=-153(LC 12), 18=-153(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 28, 29, 30, 23, 22, 21, 20, 19 except 31=299(LC 21), 18=299(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-31=-287/175, 16-18=-287/175

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 28, 29, 30, 23, 22, 21, 20, 19 except (jt=lb) 31=153, 18=153.

Joaquin Velez PE No.68182
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Date:
November 20,2(

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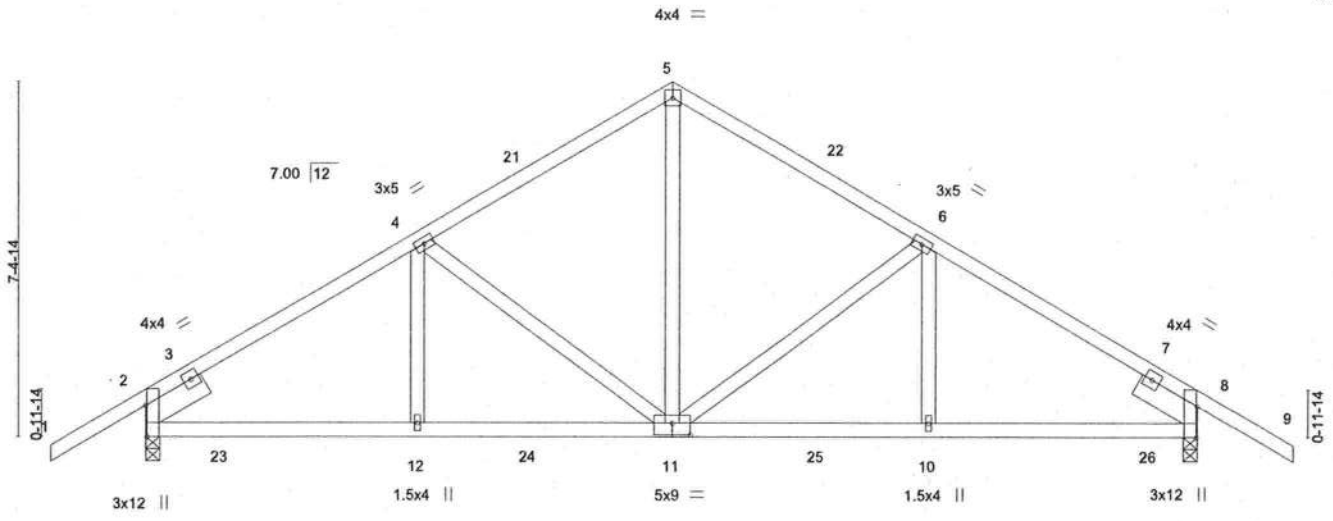
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff	T21964801
MCGRIFF	D2	Common	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:39 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-NU2iEBXjA3pqlcE96gSXZ0tC4KXNxxqBlAdc2uyHHdk

-2-0-0	5-7-12	11-0-0	16-4-4	22-0-0	24-0-0
2-0-0	5-7-12	5-4-4	5-4-4	5-7-12	2-0-0

Scale: 1/4"=1'



5-7-12	11-0-0	16-4-4	22-0-0
5-7-12	5-4-4	5-4-4	5-7-12

Plate Offsets (X,Y)-- [2:0-7-13,Edge], [8:0-7-13,Edge], [11:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.10	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.14	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 125 lb	FT = 20%

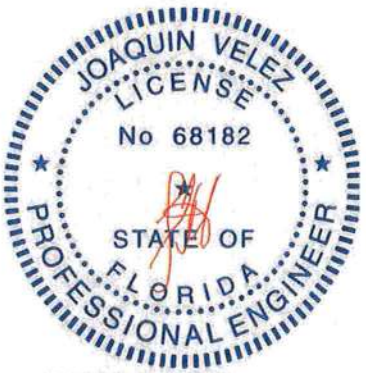
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0, Right 2x6 SP No.2 -t 1-6-0

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

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=194(LC 11)
Max Uplift 2=-490(LC 12), 8=-490(LC 12)
Max Grav 2=1000(LC 1), 8=1000(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1145/753, 4-5=-879/594, 5-6=-879/594, 6-8=-1145/753
BOT CHORD 2-12=-508/907, 11-12=-508/907, 10-11=-498/907, 8-10=-498/907
WEBS 5-11=-419/484, 6-11=-301/287, 4-11=-301/287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 24-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=490, 8=490.
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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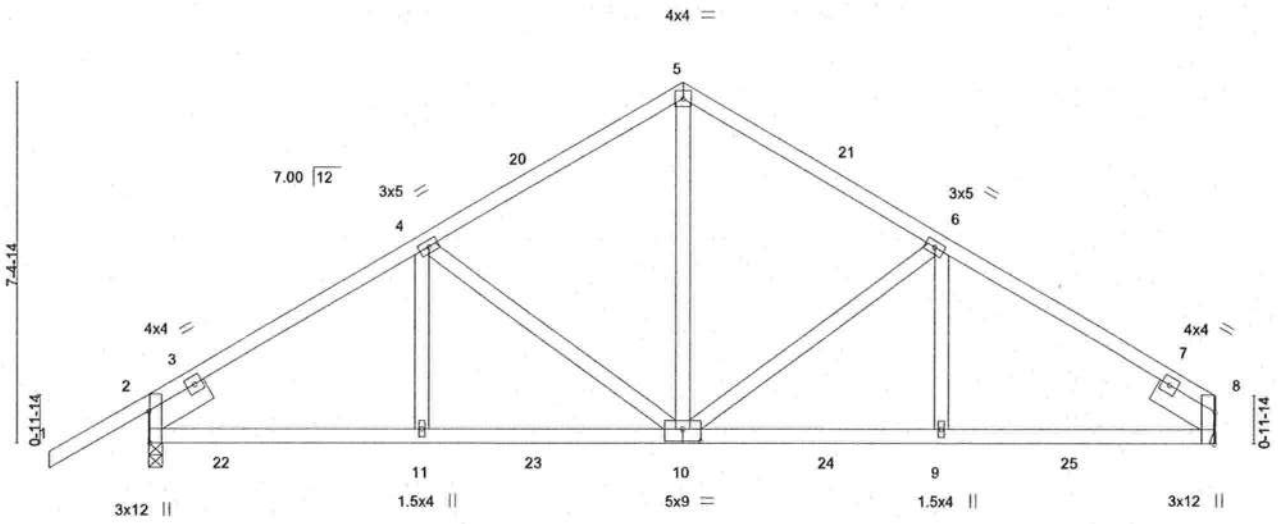
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	D3	Common	5	1	T21964802
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:39 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-NU2iEBXjA3pqIcE96gSXZ0tB_KXIxxnBlAdc2uyHHdk

-2-0-0	5-7-12	11-0-0	16-4-4	22-0-0
2-0-0	5-7-12	5-4-4	5-4-4	5-7-12

Scale = 1:47.4



5-7-12	11-0-0	16-4-4	22-0-0
5-7-12	5-4-4	5-4-4	5-7-12

Plate Offsets (X,Y)-- [2:0-7-13,Edge], [8:0-7-13,Edge], [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	0.64	Vert(LL)	0.10	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.13	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 121 lb	FT = 20%

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

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

REACTIONS. (size) 8=Mechanical, 2=0-3-8
Max Horz 2=187(LC 11)
Max Uplift 8=-402(LC 12), 2=-493(LC 12)
Max Grav 8=875(LC 1), 2=1005(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1154/755, 4-5=-888/597, 5-6=-890/589, 6-8=-1173/729
BOT CHORD 2-11=-545/914, 10-11=-545/914, 9-10=-541/937, 8-9=-541/937
WEBS 5-10=-423/488, 6-10=-329/282, 4-10=-301/287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=402, 2=493.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	D4	Common	1	1	T21964803
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:40 2020 Page 1
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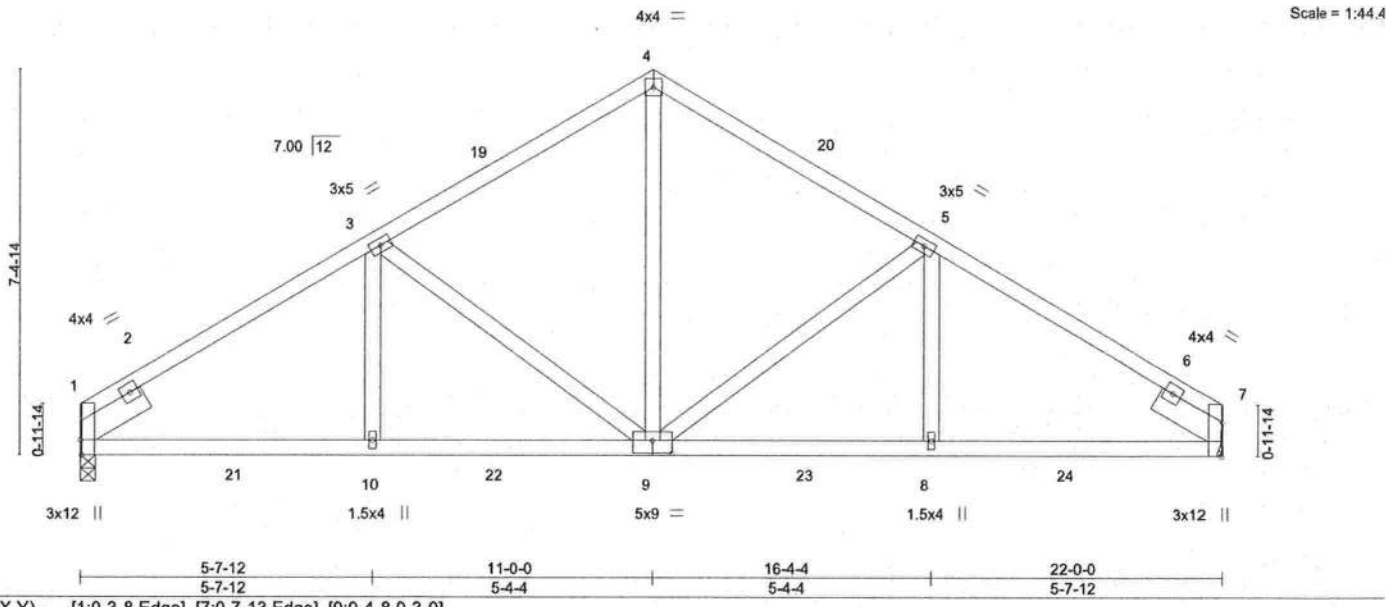


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [7:0-7-13,Edge], [9:0-4-8,0-3-0]

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	0.54	Vert(LL)	0.10	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.12	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 118 lb	FT = 20%

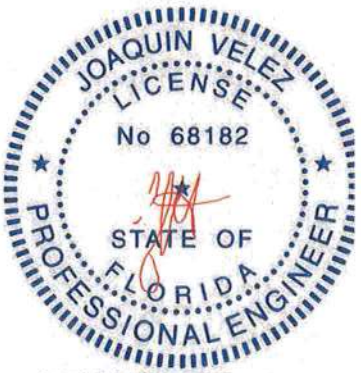
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0, Right 2x6 SP No.2 -t 1-6-0

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

REACTIONS. (size) 1=0-3-8, 7=Mechanical
Max Horz 1=-164(LC 10)
Max Uplift 1=-406(LC 12), 7=-406(LC 12)
Max Grav 1=880(LC 1), 7=880(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1182/731, 3-4=-899/590, 4-5=-899/590, 5-7=-1182/731
BOT CHORD 1-10=-548/945, 9-10=-548/945, 8-9=-538/945, 7-8=-538/945
WEBS 4-9=-417/493, 5-9=-329/282, 3-9=-329/282

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=406, 7=406.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:
November 20,2(

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	McGriff
MCGRIFF	D5	Common	4	1	T21964804
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:42 2020 Page 1
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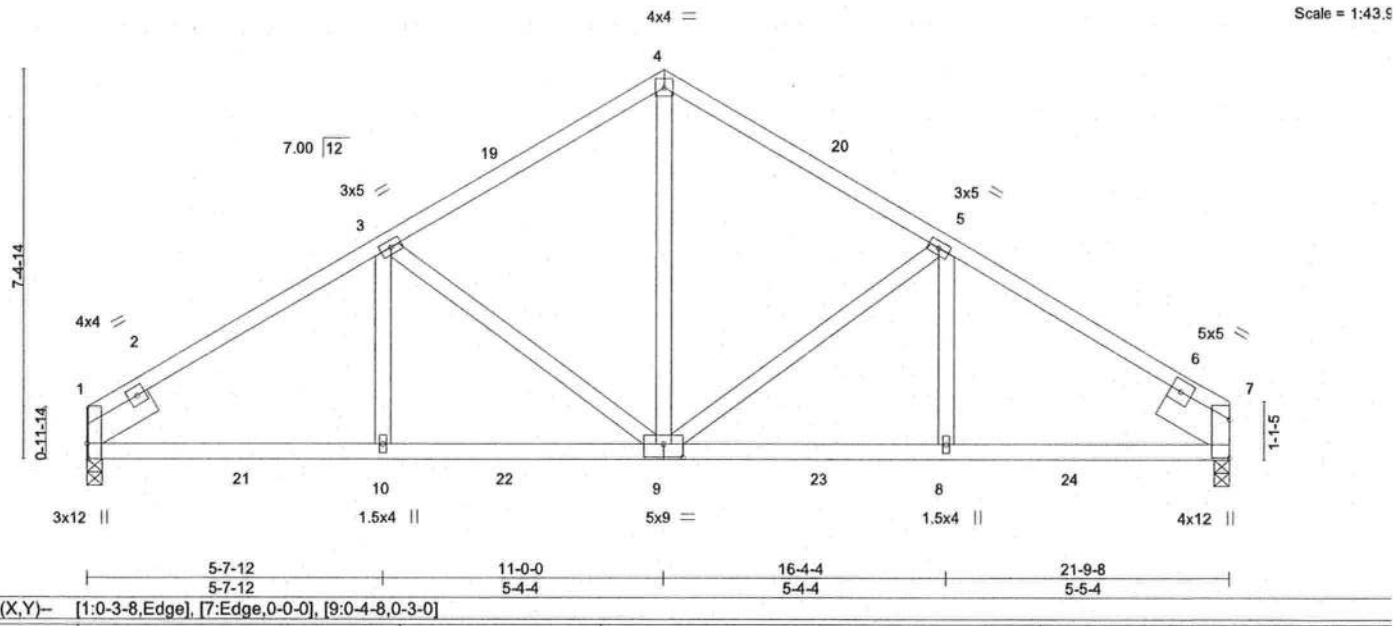

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [7:Edge,0-0-0], [9:0-4-8,0-3-0]

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	0.63	Vert(LL)	0.11	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.13	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 118 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -t 1-6-0, Right 2x8 SP 2400F 2.0E -t 1-6-0

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

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-163(LC 10)
Max Uplift 1=-402(LC 12), 7=-402(LC 12)
Max Grav 1=872(LC 1), 7=872(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1168/723, 3-4=-885/582, 4-5=-883/580, 5-7=-1137/704
BOT CHORD 1-10=-546/933, 9-10=-546/933, 8-9=-513/901, 7-8=-513/901
WEBS 3-9=-329/283, 4-9=-406/479, 5-9=-301/256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 21-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=402, 7=402.
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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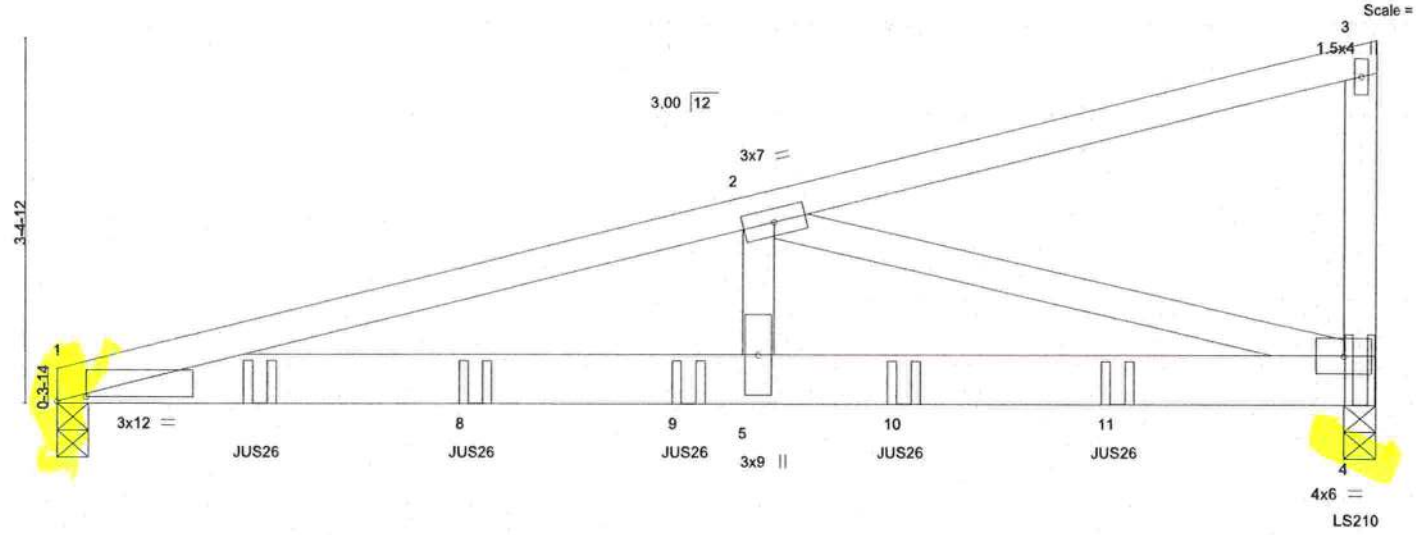
Job	Truss	Truss Type	Qty	Ply	McGriff	T21964805
MCGRIFF	GIR1	Monopitch Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.420 s Oct 9 2020 MiTek Industries, Inc. Fri Nov 20 12:46:43 2020 Page 1
ID:pnilBJPLHowgJk4lMwp582yHKkS-FFHD4ZaDEHJFnDYxLVXTks2tqxujtdzngobqBgyHHdg

6-6-8 / 6-6-8 | 12-3-8 / 5-9-0

Scale = 1:21.5



6-6-8 / 6-6-8 | 12-3-8 / 5-9-0

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

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	0.65	Vert(LL)	0.19	5-7	>752	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.25	5-7	>566	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 123 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=0-3-8
Max Horz 1=127(LC 5)
Max Uplift 1=-1235(LC 8), 4=-1547(LC 8)
Max Grav 1=2716(LC 1), 4=3385(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6689/3047
BOT CHORD 1-5=-2943/6483, 4-5=-2943/6483
WEBS 2-5=-1388/2981, 2-4=-6629/3056

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) 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) except (jt=lb) 1=1235, 4=1547.
8) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-12 from the left end to 9-10-12 to connect truss(es) to back face of bottom chord.
9) Use USP LS210 (With 9-10d x 1-1/2 nails into Girder & 9-10d x 1-1/2 nails into Truss) or equivalent at 12-1-12 from the left end to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: November 20,20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 1-4=-20
   Concentrated Loads (lb)
   Vert: 4=-868(B) 7=-855(B) 8=-855(B) 9=-855(B) 10=-855(B) 11=-855(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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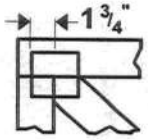
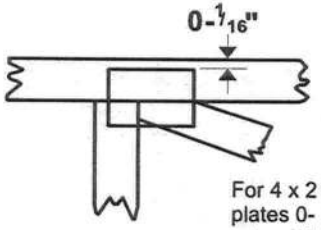
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

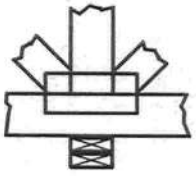
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

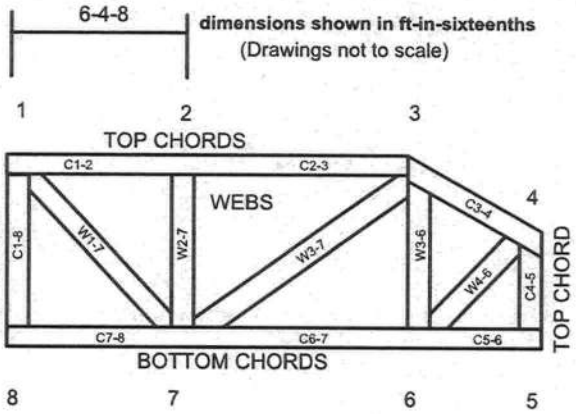


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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