

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

RE: 0820-076 - Capital Metal Supply

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Adam Bedenbaugh Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: 55.0 psf

This package includes 10 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T22149287	A1GE	12/11/20
2	T22149288	A2	12/11/20
3	T22149289	A3	12/11/20
4	T22149290	A3A	12/11/20
5	T22149291	A4GIR	12/11/20
6	T22149292	A5GIR	12/11/20
7	T22149293	F01	12/11/20
8	T22149294	F02	12/11/20
9	T22149295	M1	12/11/20
10	T22149296	M2	12/11/20

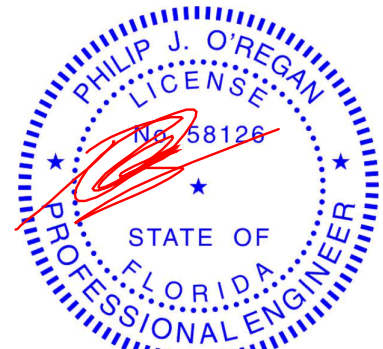


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: O'Regan, Philip

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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 11, 2020

O'Regan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149287
0820-076	A1GE	Roof Special Supported Gable	2	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:05 2020 Page 1
ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-VRPIISg0RG80taBibVZwrofw09CFxrchUm?vMjyA5nK

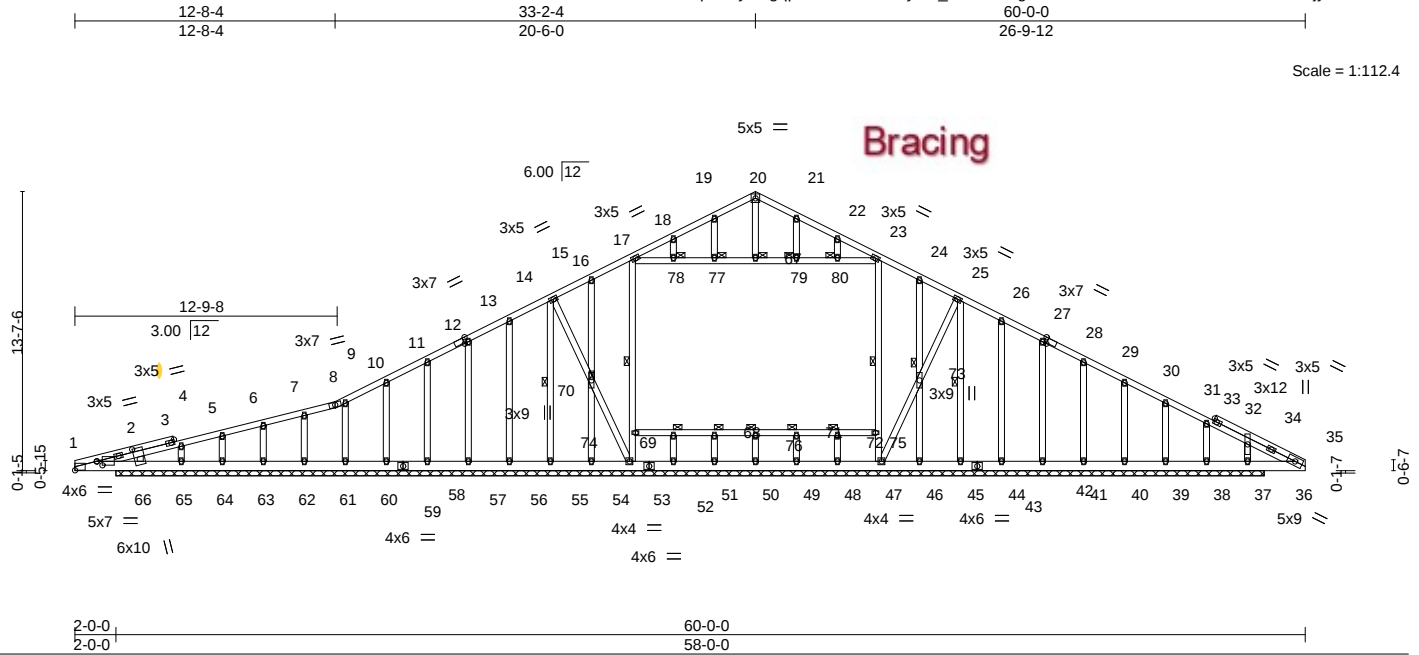


Plate Offsets (X,Y)-- [1:0-3-4,0-2-4], [1:Edge,0-5-3], [12:0-1-9,Edge], [28:0-1-9,Edge], [66:0-1-13,1-9-12]

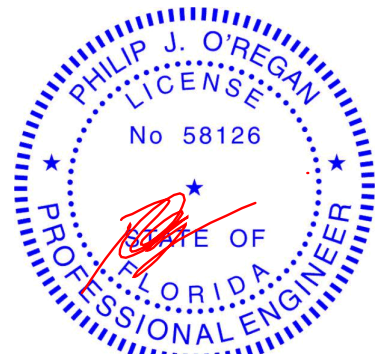
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT)	0.01	36	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S					Weight: 500 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 17-53, 15-55, 23-46, 25-44
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 67, 68, 69, 70, 71, 72, 73, 76, 77, 78, 79, 80

REACTIONS. All bearings 56-0-0.
(lb) - Max Horz 1=366(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 56, 57, 58, 60, 61, 62, 63, 64, 42, 41, 40, 39, 38, 37, 36, 54 except 53=-127(LC 12), 66=-107(LC 12), 46=-158(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 50, 51, 55, 56, 57, 58, 60, 61, 62, 63, 64, 65, 48, 47, 44, 42, 41, 40, 39, 38, 37, 49, 54, 45 except 53=628(LC 17), 66=258(LC 1), 46=510(LC 18), 36=412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-159/283, 17-18=-460/289, 18-19=-425/307, 19-20=-411/356, 20-21=-411/356, 21-22=-425/307, 22-23=-459/289, 23-24=-94/283
WEBS 53-74=-494/187, 17-74=-495/188, 46-75=-460/187, 23-75=-461/187, 34-36=-256/152, 17-78=0/393, 77-78=0/389, 67-77=0/389, 67-79=0/389, 79-80=0/389, 23-80=0/393

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=60ft; 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
 - 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.
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 56, 57, 58, 60, 61, 62, 63, 64, 42, 41, 40, 39, 38, 37, 36, 54 except (jt=lb) 53=127, 66=107, 46=158.



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6904 Parke East Blvd. Tampa FL 33610
Date:

December 11,2020

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 33610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149288
0820-076	A2	Attic	10	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:07 2020 Page 1
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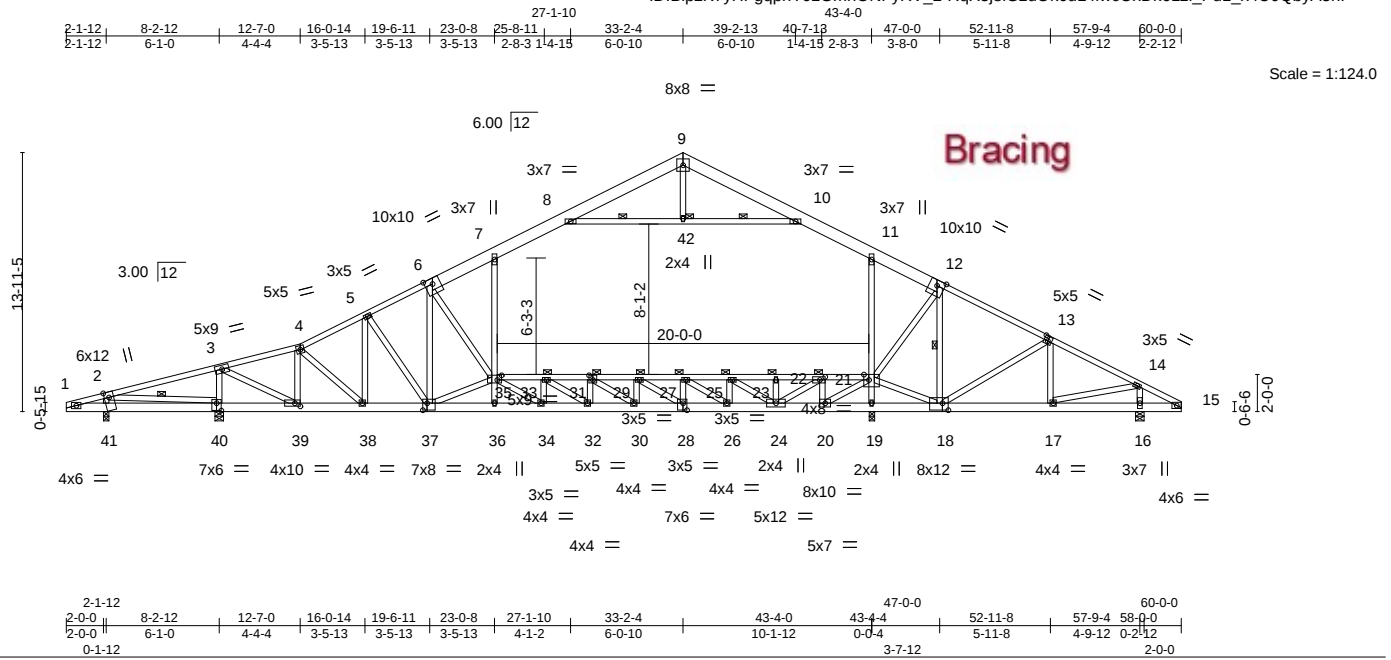


Plate Offsets (X,Y)-- [13:0-2-8,0-3-0], [18:0-3-12,0-4-8], [21:0-3-4,Edge], [22:0-3-8,0-2-0], [28:0-2-8,0-4-8], [31:0-2-8,0-3-0], [35:0-2-12,0-3-0], [37:0-2-12,0-4-8], [39:0-3-8,0-2-0], [40:0-3-0,0-4-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.88	Vert(LL)	-0.30 31-33	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.85	Vert(CT)	-0.60 31-33	>706	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT)	0.05 19	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Attic	-0.16 21-35	1497	360	Weight: 523 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-9,9-12: 2x8 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except*
31-35,21-31: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
18-21: 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-40, 8-42, 10-42, 12-18
JOINTS 1 Brace at Jt(s): 31, 42, 33, 29, 27, 25, 23, 22

REACTIONS.

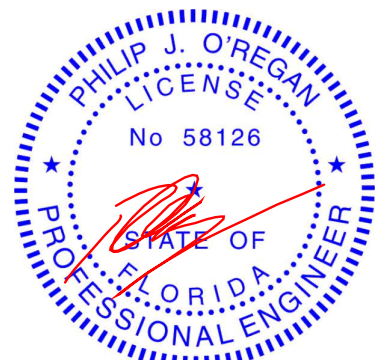
(size) 40=0-5-8, 41=0-3-8, 19=0-3-8, 16=0-5-8
Max Horz 41=366(LC 11)
Max Uplift 40=-65(LC 12), 41=-872(LC 18), 16=-146(LC 12)
Max Grav 40=3711(LC 18), 19=2525(LC 19), 16=1312(LC 1)

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

TOP CHORD 1-2=-127/675, 2-3=-664/3117, 3-4=-1056/362, 4-5=-2237/724, 5-6=-2623/841,
6-7=-2330/746, 7-8=-2014/784, 8-9=-573/267, 9-10=-605/277, 10-11=-2112/794,
11-12=-2355/724, 12-13=-1359/513, 13-14=-1425/462
BOT CHORD 1-41=-614/117, 40-41=-772/115, 39-40=-2515/638, 38-39=-230/1154, 37-38=-437/2209,
36-37=-863/3876, 34-36=-848/4504, 30-32=-751/4622,
28-30=-625/4352, 26-28=-454/3670, 24-26=-238/2561, 20-24=-951/325, 19-20=-3274/639,
18-19=-3405/681, 17-18=-289/1226, 33-35=-2379/592, 31-33=-2572/498,
29-31=-2564/369, 27-29=-2057/198, 25-27=-1055/183, 23-25=-269/1040,
22-23=-269/1040, 21-22=-581/3036
WEBS 2-41=0/603, 2-40=-2387/588, 3-40=-3168/920, 3-39=-949/4031, 4-39=-1928/551,
4-38=-283/1445, 5-38=-874/214, 5-37=-18/586, 6-37=-131/332, 6-35=-727/330,
7-35=-44/844, 8-42=-1752/631, 10-42=-1752/631, 19-21=-2211/537, 11-21=-303/525,
12-21=-95/1405, 12-18=-1883/379, 14-17=-377/1255, 14-16=-1165/492, 33-34=-596/271,
29-30=-56/263, 27-28=-82/496, 25-26=-105/735, 23-24=-264/56, 20-22=-1640/271,
34-35=0/1189, 32-33=-182/526, 30-31=-384/153, 28-29=-813/204, 26-27=-1322/258,
24-25=-1761/300, 22-24=-372/2416, 20-21=-375/2784, 18-21=-953/4900,
35-37=-1474/459

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=60ft; eave=7ft; 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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



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Date:

December 11,2020

Continued on page 2

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 33610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149288
0820-076	A2	Attic	10	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc.
Fri Dec 11 07:59:08 2020
Page 2
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- NOTES-**
- 3) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 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) Ceiling dead load (5.0 psf) on member(s). 7-8, 10-11, 8-42, 10-42; Wall dead load (5.0psf) on member(s).7-35, 11-21
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 31-33, 29-31, 27-29, 25-27, 23-25, 22-23, 21-22
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40 except (jt=lb) 41=872, 16=146.
 - 9) 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.
 - 10) Attic room checked for L/360 deflection.



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149289
0820-076	A3	Attic	13	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:10 2020 Page 2
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NOTES-

- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) All plates are 3x5 MT20 unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). 7-8, 10-11, 8-42, 10-42; Wall dead load (5.0psf) on member(s).7-35, 11-21
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 31-33, 29-31, 27-29, 25-27, 24-25, 22-24, 21-22
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 468 lb uplift at joint 41, 200 lb uplift at joint 40, 164 lb uplift at joint 19 and 132 lb uplift at joint 16.
- 10) 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.
- 11) Attic room checked for L/360 deflection.



Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149290
0820-076	A3A	Attic	5	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:12 2020 Page 1

ID:BlpzK7yHFggnY9zGmhONFyRV_2-ooKymrmPnQ00CfE2VTBZeGRwL_NJ4tzj5MBn5pyA5nD

2-1-12	8-2-12	12-7-0	16-0-14	19-6-11	23-0-8	25-8-11	27-1-10	33-2-4	39-2-13
2-1-12	6-1-0	4-4-4	3-5-13	3-5-13	3-5-13	2-8-3	1-4-15	6-0-10	6-0-10

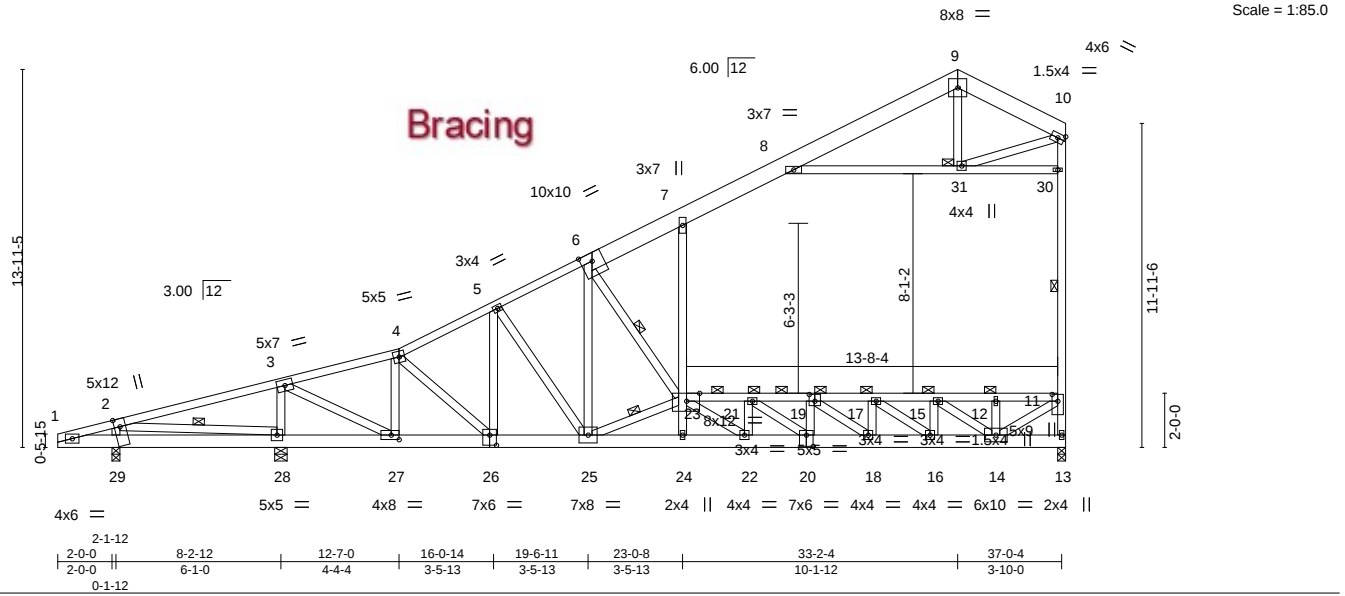


Plate Offsets (X,Y)-- [11:0-3-0,0-2-8], [19:0-2-8,0-3-0], [20:0-3-0,0-5-0], [23:0-5-12,Edge], [26:0-3-0,0-4-8], [27:0-3-8,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.97	Vert(LL)	-0.32	21-23	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.67	22-24	>519		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.05	13	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS	Attic	-0.16	11-23	1019	Weight: 351 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-9,9-10: 2x8 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except*
19-23,11-19: 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
2-2-0 oc bracing: 21-23
2-5-0 oc bracing: 19-21
2-9-0 oc bracing: 17-19
3-2-0 oc bracing: 15-17
4-4-0 oc bracing: 11-12
4-6-0 oc bracing: 12-15
WEBS 1 Row at midpt 2-28, 6-23, 11-30, 23-25
JOINTS 1 Brace at Jt(s): 31, 21, 19, 17, 15, 12

REACTIONS.

(size) 29=0-3-8, 28=0-5-8, 13=0-3-8
Max Horz 29=402(LC 12)
Max Uplift 29=-1036(LC 18), 28=-147(LC 12)
Max Grav 28=3202(LC 18), 13=2016(LC 18)

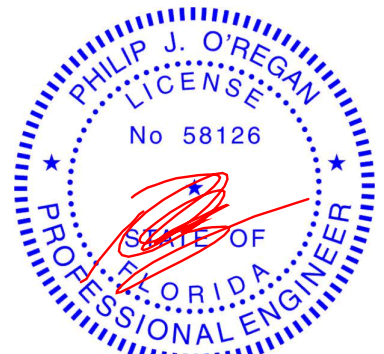
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-166/740, 2-3=-661/3578, 3-4=-260/503, 4-5=-789/0, 5-6=-1184/16, 7-8=-259/3,
8-9=-507/217, 9-10=-526/269
BOT CHORD 1-29=-680/155, 28-29=-716/0, 27-28=-3297/112, 26-27=-388/0, 25-26=-324/781,
24-25=-1168/5553, 22-24=-1187/5607, 20-22=-772/5634, 18-20=-400/5120,
16-18=-162/4382, 14-16=-2/3264, 21-23=-5563/759, 19-21=-5118/430, 17-19=-4311/149,
15-17=-3193/0, 12-15=-1699/0, 11-12=-1699/0
WEBS 2-29=0/685, 2-28=-2767/546, 3-28=-2614/495, 3-27=-351/3320, 4-27=-1602/264,
4-26=-151/1438, 5-26=-903/136, 5-25=0/604, 6-25=-427/1687, 6-23=-1789/463,
7-23=-616/479, 8-31=-195/417, 30-31=-276/52, 11-13=-1957/102, 11-30=-577/229,
10-30=-483/234, 21-22=-304/327, 19-20=-226/420, 17-18=-153/607, 15-16=-89/857,
12-14=-283/0, 22-23=-334/518, 20-21=-634/414, 18-19=-931/300, 16-17=-1372/196,
14-15=-1834/85, 11-14=0/2352, 23-25=-4889/969, 10-31=-264/730

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; 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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 7-8, 8-31, 30-31; Wall dead load (5.0psf) on member(s). 7-23, 11-30
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17,

Continued on page 2



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 11,2020

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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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149290
0820-076	A3A	Attic	5	1	Job Reference (optional)	

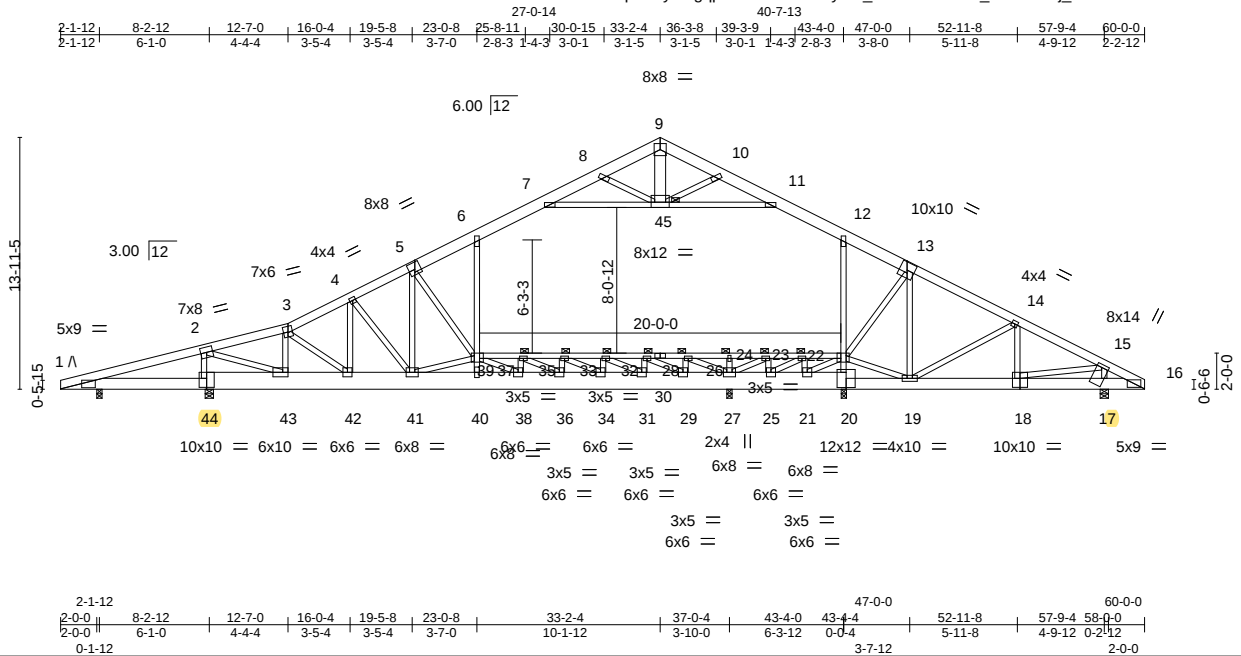
Mayo Truss Company, Inc.,
Mayo, FL - 32066,
8.430 s Nov 30 2020 MiTek Industries, Inc.
Fri Dec 11 07:59:12 2020
Page 2
ID:BlpzK7yHfGqpY9zGmhONFyRV_2-ooKymrmPnQ00CfE2VTBZeGRwL_NJ4tzj5MBn5pyA5nD

- NOTES-
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1036 lb uplift at joint 29 and 147 lb uplift at joint 28.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) This truss has large uplift reaction at jt. 29 from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
10) Attic room checked for L/360 deflection.

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149291
0820-076	A4GIR	ATTIC	1	3	Job Reference (optional)	

Mayo Truss, Mayo, FL

8.420 s Sep 14 2020 MiTek Industries, Inc. Fri Dec 11 13:48:41 2020 Page 1
ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-Gz6Z3ENJK_8JWKWxj_awYIJJZXRfAM0H577NDayA1Xq



Scale: 3/32"=1'

Plate Offsets (X,Y)--	[1:1-11-0,Edge], [3:0-3-0,0-3-12], [5:0-4-0,0-4-8], [15:0-2-0,0-3-4], [18:0-5-0,0-6-0], [20:0-6-0,0-1-2], [22:0-2-8,Edge], [39:0-2-8,Edge], [43:0-3-8,0-3-0], [45:0-6-0,0-3-8]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.42	Vert(LL)	-0.18 40	>999	240	MT20	137/130
TCDL 10.0	Lumber DOL 1.25	BC 0.79	Vert(CT)	-0.30 40-41	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.80	Horz(CT)	0.09 17	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Attic	0.10 22-39	2428	360	Weight: 2037 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 5-9,9-13: 2x8 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x8 SP 2400F 2.0E *Except* 30-39,22-30: 2x4 SP No.2, 20-44: 1-1/2X11-1/4 LP-LSL 1.75E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 2-43: 2x4 SP No.1, 9-45: 2x8 SP 2400F 2.0E	JOINTS 1 Brace at Jt(s): 45, 26, 37, 35, 33, 32, 28, 24, 23

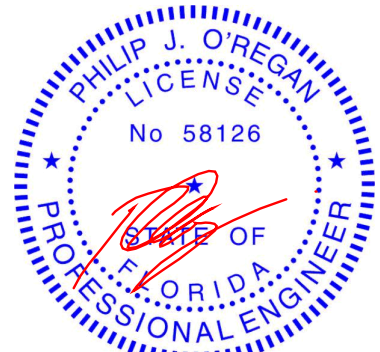
PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED AT JOINT 9 FOR LOAD REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.25"x 4.5" SCREWS OR OTHER FASTENERS THAT PENETRATES ALL PLIES, PER HANGER MANUFACTURER SPECIFICATIONS.

REACTIONS.	All bearings 0-3-8 except (jt=length) 44=0-5-8, 17=0-5-8.
(lb) - Max Horz	1=369(LC 11)
Max Uplift	All uplift 100 lb or less at joint(s) except 44=2908(LC 12), 20=-621(LC 12), 17=-2262(LC 12)
Max Grav	All reactions 250 lb or less at joint(s) 1 except 44=11185(LC 18), 20=1790(LC 19), 17=9748(LC 18), 27=4041(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1562/481, 2-3=-14508/5389, 3-4=-19377/8208, 4-5=-20422/9019, 5-6=-19796/9251, 6-7=-20901/9976, 7-8=-23834/11656, 8-9=-23349/11410, 9-10=-23315/11404, 10-11=-23565/11550, 11-12=-21031/10002, 12-13=-19732/9196, 13-14=-17262/7957, 14-15=-14078/6416, 15-16=-2676/1148
BOT CHORD	1-44=-419/1559, 43-44=-909/1952, 42-43=-5262/14644, 41-42=-7163/17611, 40-41=-8315/21011, 38-40=-8400/21240, 36-38=-8174/20649, 34-36=-7545/18811, 31-34=-6821/16486, 29-31=-6059/13815, 27-29=-5284/10877, 25-27=-4664/9083, 21-25=-4673/9861, 20-21=-4530/10099, 19-20=-4317/9797, 18-19=-5657/12656, 17-18=-982/2355, 16-17=-982/2355, 37-39=-2389/61, 35-37=-887/38, 33-35=-1292/1854, 32-33=-2054/4445, 30-32=-2829/7383, 28-30=-2829/7383, 26-28=-3011/8608, 24-26=-3011/8608, 23-24=-3449/9224, 22-23=-3440/8399
WEBS	2-44=-9533/4815, 2-43=-7506/15428, 3-43=-7642/3978, 39-40=-1804/718, 6-39=-2887/1653, 7-45=-1876/3441, 11-45=-1727/3185, 20-22=-2213/1218, 12-22=-3607/1831, 13-22=-2144/4741, 13-19=-3807/1810, 14-19=-1370/3217, 14-18=-3204/1578, 15-18=-4733/10441, 15-17=-7600/3580, 9-45=-188/339, 26-27=-335/82, 37-38=-336/931, 35-36=-384/1199, 33-34=-411/1422, 31-32=-417/1578, 28-29=-60/521, 24-25=-547/310, 21-23=0/346, 24-27=-522/770, 23-25=-1002/12, 21-22=-330/0, 27-28=-1411/209, 29-32=-3437/907, 31-33=-3125/891, 34-35=-2719/847, 36-37=-2150/735, 38-39=-691/277, 4-42=-1969/1397, 5-41=0/1170, 5-39=-689/385, 4-41=-980/1461, 3-42=-2500/3902, 39-41=-2771/602, 19-22=-2766/6174, 8-45=-759/441, 10-45=-326/275

NOTES-

1) N/A



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
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Date:

December 11,2020

Continued on page 2

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

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149291
0820-076	A4GIR	ATTIC	1	3	Job Reference (optional)	

Mayo Truss, Mayo, FL

8.420 s Sep 14 2020 MiTek Industries, Inc. Fri Dec 11 13:48:41 2020 Page 2
ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-Gz6Z3ENJK_8JWKWxj_awYIJJZXRfAM0H577NDayA1Xq

NOTES-

- 2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 4 rows staggered at 0-4-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 1-1/2x11-1/4 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 15-17 2x4 - 1 row at 0-7-0 oc, 2x8 - 4 rows staggered at 0-4-0 oc.
- 3) 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.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=60ft; eave=7ft; 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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) All plates are 3x7 MT20 unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). 6-7, 11-12, 7-45, 11-45; Wall dead load (5.0psf) on member(s). 6-39, 12-22
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 37-39, 35-37, 33-35, 32-33, 28-32, 26-28, 24-26, 23-24, 22-23
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2908 lb uplift at joint 44, 621 lb uplift at joint 20 and 2262 lb uplift at joint 17.
- 13) "A" indicates Released bearing: allow for upward movement at joint(s) 1.
- 14) 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.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20000 lb down and 9696 lb up at 33-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-6=-60, 6-7=-70, 7-9=-60, 9-11=-60, 11-12=-70, 12-16=-60, 1-16=-20, 22-39=-30, 7-11=-10
Drag: 6-39=-10, 12-22=-10
Concentrated Loads (lb)
Vert: 9=-11250(F)

 **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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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149292
0820-076	A5GIR	Attic	1	3	Job Reference (optional)	

Mayo Truss Company, Inc.,	Mayo, FL - 32066,	8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:18 2020 Page 1
ID:gw5BI?qsDFCFX_faR53HAoyJujL-dxhD1vqANGnAwahCkrlztXhywOW6UbNtHe5JSyA5n7		

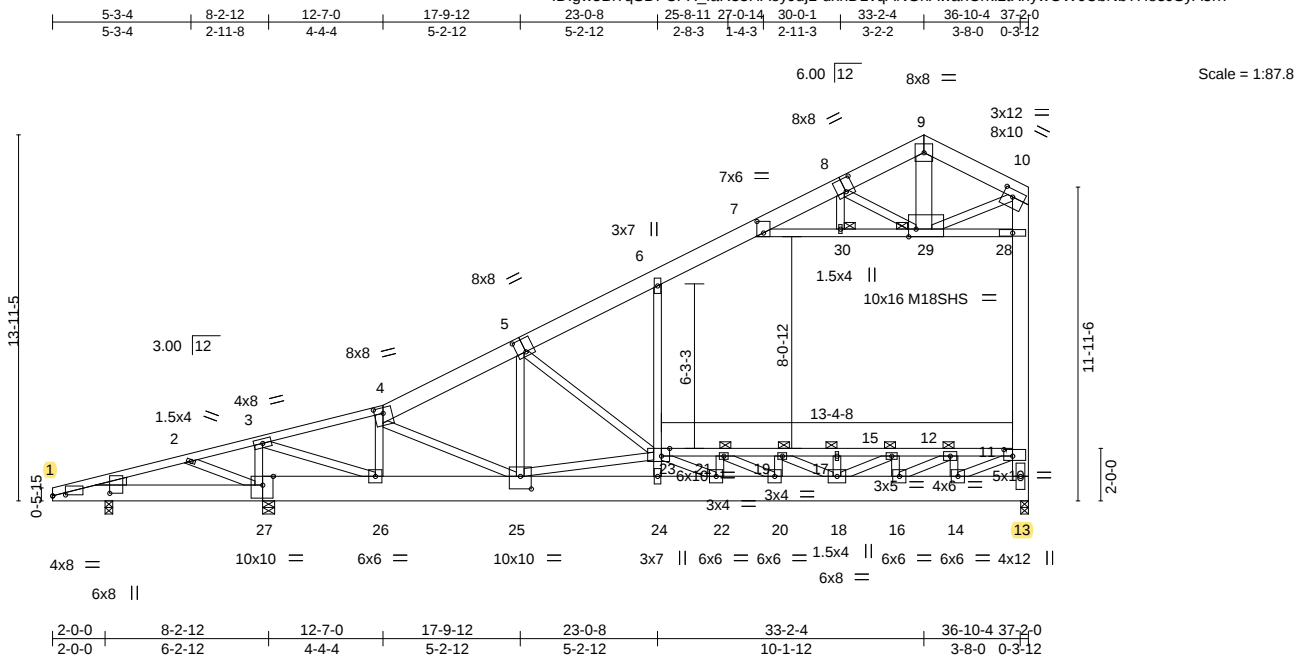


Plate Offsets (X,Y)--	[1:0-1-3,2-2-1], [1:0-5-14,0-0-8], [4:0-4-0,0-2-8], [5:0-4-0,0-6-0], [7:0-3-0,0-5-4], [8:0-4-0,0-6-0], [10:0-4-8,0-3-4], [11:0-4-0,0-3-0], [23:0-3-12,Edge], [25:0-5-0,0-5-12], [27:0-4-12,Edge], [29:0-3-6,0-3-8]
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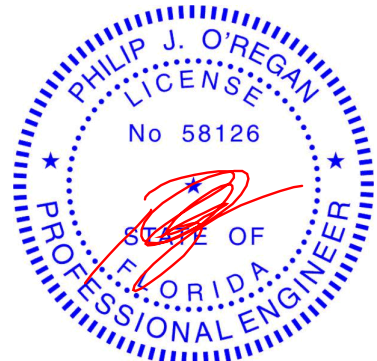
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.96	Vert(LL) -0.32	22-24	>999	240	MT20	137/130
TCDL 10.0	Lumber DOL 1.25	BC 0.63	Vert(CT) -0.51	22-24	>682	180	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.88	Horz(CT) 0.02	13	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS	Attic -0.16	11-23	1032	360		
							Weight: 1422 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP 2400F 2.0E *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals.
1-4: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
BOT CHORD 2x8 SP 2400F 2.0E *Except*	JOINTS 1 Brace at Jt(s): 29, 30, 12, 15, 17, 19, 21
11-23: 2x4 SP No.2, 13-27: 1-1/2X11-1/4 LP-LSL 1.75E	
WEBS 2x4 SP No.2 *Except*	
7-28: 2x4 SP No.1, 9-29: 2x8 SP 2400F 2.0E	
10-13: 1-1/2X7-1/4 LP-LSL 1.75E, 10-29: 2x4 SP SS	
WEDGE	
Left: 2x4 SP No.2	

REACTIONS.	(size) 27=0-5-8, 13=0-3-8 (req. 0-4-6), 1=0-3-8
Max Horz 1=404(LC 12)	
Max Uplift 27=-518(LC 12), 13=-1305(LC 12), 1=-3247(LC 18)	
Max Grav 27=8543(LC 18), 13=18728(LC 18), 1=195(LC 12)	
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1638/7992, 2-3=-1894/8936, 3-4=-505/1043, 4-5=-4576/503, 5-6=-2213/0, 6-7=-4506/687, 7-8=-16660/3547, 8-9=-14850/3107, 9-10=-14858/3096, 11-13=-18723/3673, 11-28=-15017/3107, 10-28=-14988/3114
BOT CHORD	1-27=-7495/724, 26-27=-8989/1114, 25-26=-725/0, 24-25=-3449/16065, 22-24=-3581/16607, 20-22=-3012/15747, 18-20=-2102/12542, 16-18=-381/4629, 14-16=-152/414, 13-14=-6228/1405, 21-23=-13502/2436, 19-21=-10297/1527, 17-19=-6096/596, 15-17=-6096/596, 12-15=-2384/0, 11-12=-990/2358
WEBS	2-27=-1153/331, 3-27=-5278/1038, 3-26=-1484/8699, 4-26=-5426/1022, 4-25=-900/5547, 5-25=-647/2995, 5-23=-2030/564, 23-24=-3817/962, 6-23=-5926/1620, 7-30=-3244/14033, 29-30=-3248/14046, 28-29=-7699/1316, 9-29=-5774/1068, 10-29=-4023/20041, 8-29=-3821/999, 8-30=-607/171, 12-14=-2860/392, 15-16=-2599/471, 19-20=-606/2361, 21-22=-633/1878, 22-23=-1013/670, 20-21=-3774/1071, 18-19=-4946/1095, 15-18=-932/4371, 12-16=-936/5583, 11-14=-1130/6971, 23-25=-12423/2459

NOTES-	
1) N/A	
2) 3-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, 2x8 - 4 rows staggered at 0-4-0 oc.	
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 1-1/2X11-1/4 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.	
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 4 rows staggered at 0-4-0 oc.	
3) 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.	
4) Unbalanced roof live loads have been considered for this design.	
Continued on page 2	

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MiTek	
6904 Parke East Blvd. Tampa, FL 36610	



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 11,2020

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
0820-076	A5GIR	Attic	1	3	T22149292

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:18 2020 Page 2
ID:gw5BI?qSDFCFX_faR53HAoyJujL-dxhD1vqANGnAwahCrkztXhywOW6UbNtHe5JSyA5n7

- NOTES-**
- 5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Ceiling dead load (5.0 psf) on member(s). 6-7, 7-30, 29-30, 28-29; Wall dead load (5.0psf) on member(s).6-23
 - 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 19-21, 17-19, 15-17, 12-15, 11-12
 - 11) WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 27, 1305 lb uplift at joint 13 and 3247 lb uplift at joint 1.
 - 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 14) This truss has large uplift reaction at jt. 1 from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19794 lb down and 3895 lb up at 33-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

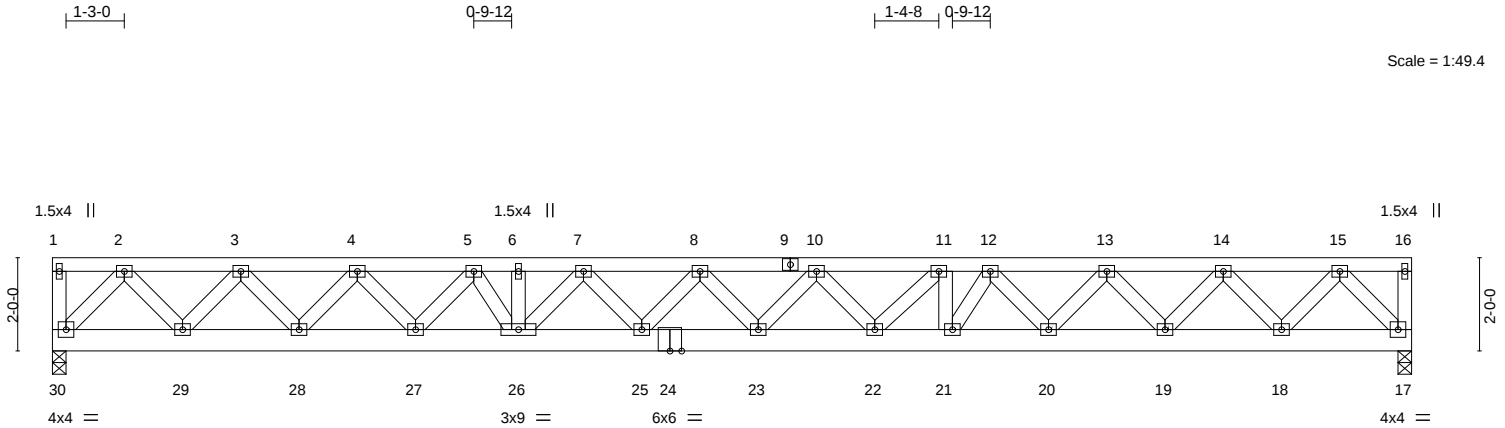
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-4=-60, 4-6=-60, 6-7=-70, 7-9=-60, 9-10=-60, 13-31=-20, 11-23=-30, 7-28=-10
 - Drag: 6-23=-10
 - Concentrated Loads (lb)
 - Vert: 9=-11250(F)

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
0820-076	F01	FLOOR	16	1	T22149293

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:19 2020 Page 1
ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-58FbEEro8av1YkGOPRpCQIEFYouxDBilixOfvryA5n6

Scale = 1:49.4



10-0-0 10-0-0		19-2-0 9-2-0		29-2-0 10-0-0	
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.46	in (loc)	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.46	Vert(LL) -0.46 23 >753 360		
BCLL 0.0	Lumber DOL 1.00	WB 0.30	Vert(CT) -0.63 23 >548 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 17 n/a n/a		
	Code FBC2017/TPI2014			Weight: 179 lb	FT = 11%

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 2-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

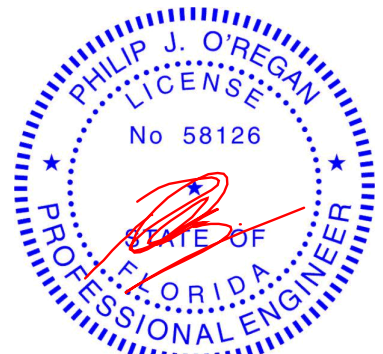
(size) 30=0-3-8, 17=0-3-8
Max Grav 30=1059(LC 1), 17=1059(LC 1)

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

TOP CHORD 2-3=-1510/0, 3-4=-2679/0, 4-5=-3559/0, 5-6=-4119/0, 6-7=-4119/0, 7-8=-4496/0,
8-10=-4579/0, 10-11=-4342/0, 11-12=-4166/0, 12-13=-3554/0, 13-14=-2680/0,
14-15=-1509/0
BOT CHORD 29-30=0/859, 28-29=0/2160, 27-28=0/3182, 26-27=0/3931, 25-26=0/4386, 23-25=0/4598,
22-23=0/4532, 21-22=0/4166, 20-21=0/3941, 19-20=0/3181, 18-19=0/2161, 17-18=0/859
WEBS 11-21=-296/0, 2-30=-1286/0, 2-29=0/1067, 3-29=-1067/0, 3-28=0/850, 4-28=-826/0,
4-27=0/617, 5-27=-610/0, 5-26=0/371, 15-17=-1285/0, 15-18=0/1066, 14-18=-1068/0,
14-19=0/851, 13-19=-823/0, 13-20=0/612, 12-20=-634/0, 12-21=0/443, 7-26=-409/0,
10-22=-312/0, 11-22=0/258

NOTES-

- 1) All plates are 3x4 MT20 unless otherwise indicated.
- 2) The Fabrication Tolerance at joint 24 = 11%, joint 9 = 11%
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 11,2020

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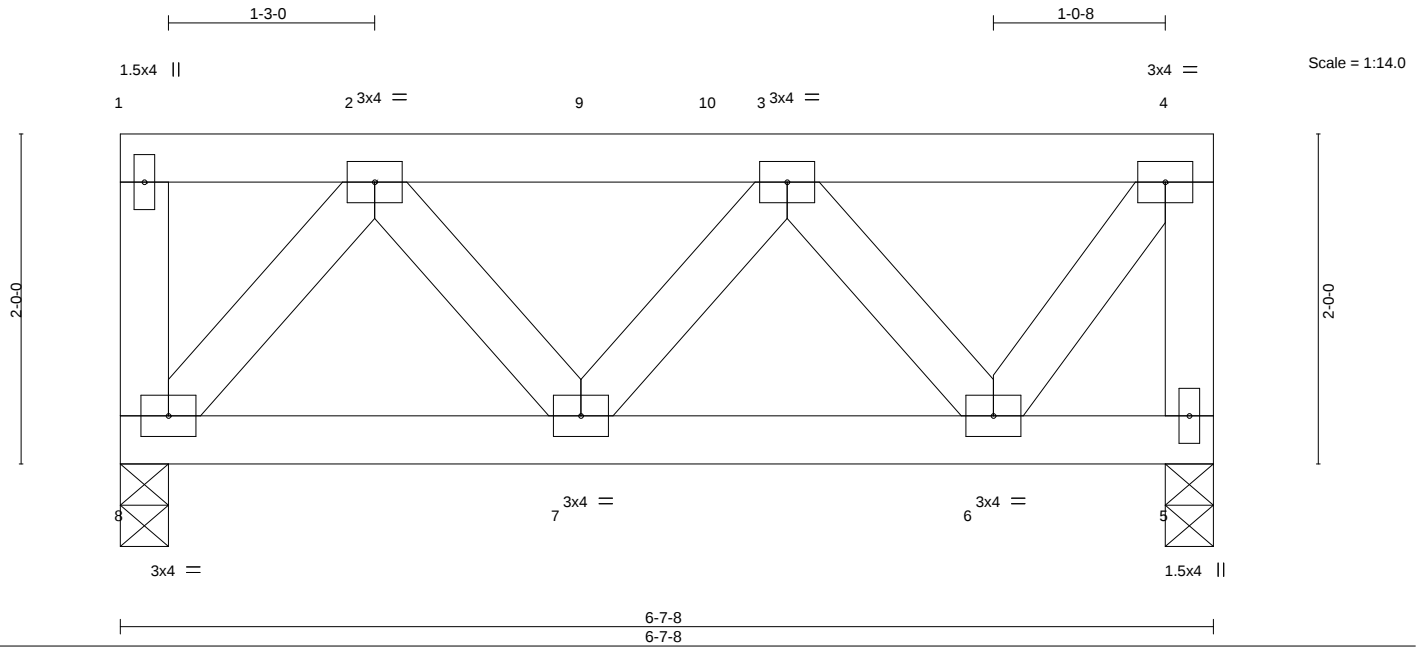
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
0820-076	F02	FLOOR	12	1	T22149294

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:19 2020 Page 1
ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-58FbEEro8av1YkGOPRpCQIEL9o__DFXlixOfrrvyA5n6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL) -0.00	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.07	Vert(CT) -0.00	7	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2017/TPI2014	Matrix-P					Weight: 38 lb	FT = 11%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

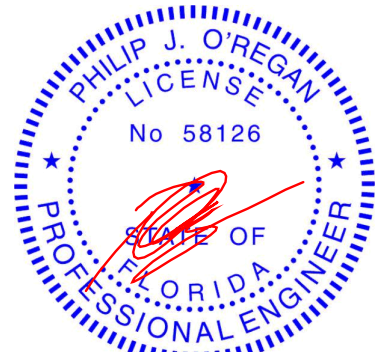
REACTIONS.

(size) 5=0-3-8, 8=0-3-8
Max Grav 5=232(LC 1), 8=232(LC 1)

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

NOTES-

- 1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply
0820-076	M1	Monopitch	16	1	T22149295

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:20 2020 Page 1
ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-ZKpzSasQvt1tAuraz8LRyynQuCEtyfWuxb7CNLYA5n5

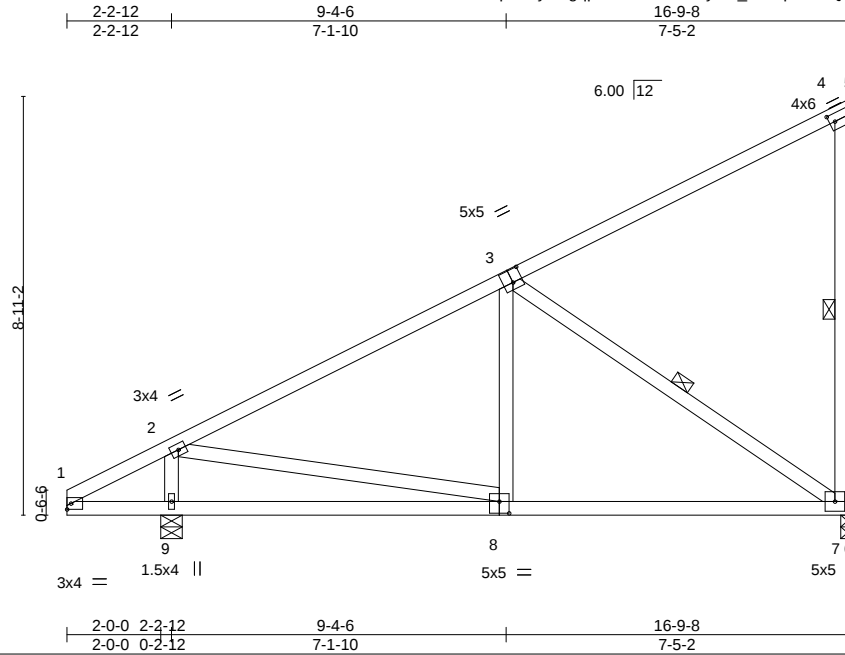


Plate Offsets (X,Y)-- [3:0-2-8,0-3-4], [4:0-1-7,0-2-0], [8:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL 10.0	2-0-0	BC 0.48	Vert(CT)	-0.14	7-8	>999	180		
BCLL 0.0 *	2-0-0	WB 0.20	Horz(CT)	-0.01	7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS						Weight: 97 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 4-7, 3-7

REACTIONS.

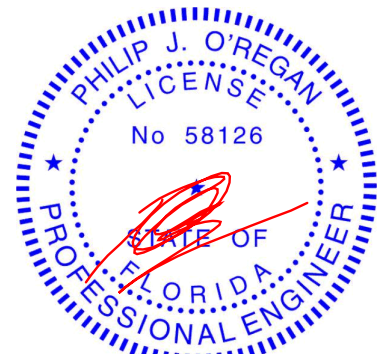
(size) 9=0-5-8, 7=0-3-8
Max Horz 9=378(LC 11)
Max Uplift 9=-152(LC 12), 7=-125(LC 9)
Max Grav 9=764(LC 1), 7=607(LC 17)

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

TOP CHORD 2-3=-619/193
BOT CHORD 8-9=-547/416, 7-8=-410/528
WEBS 2-9=-659/418, 2-8=-87/476, 3-8=0/251, 3-7=-587/366

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 9 and 125 lb uplift at joint 7.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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December 11,2020

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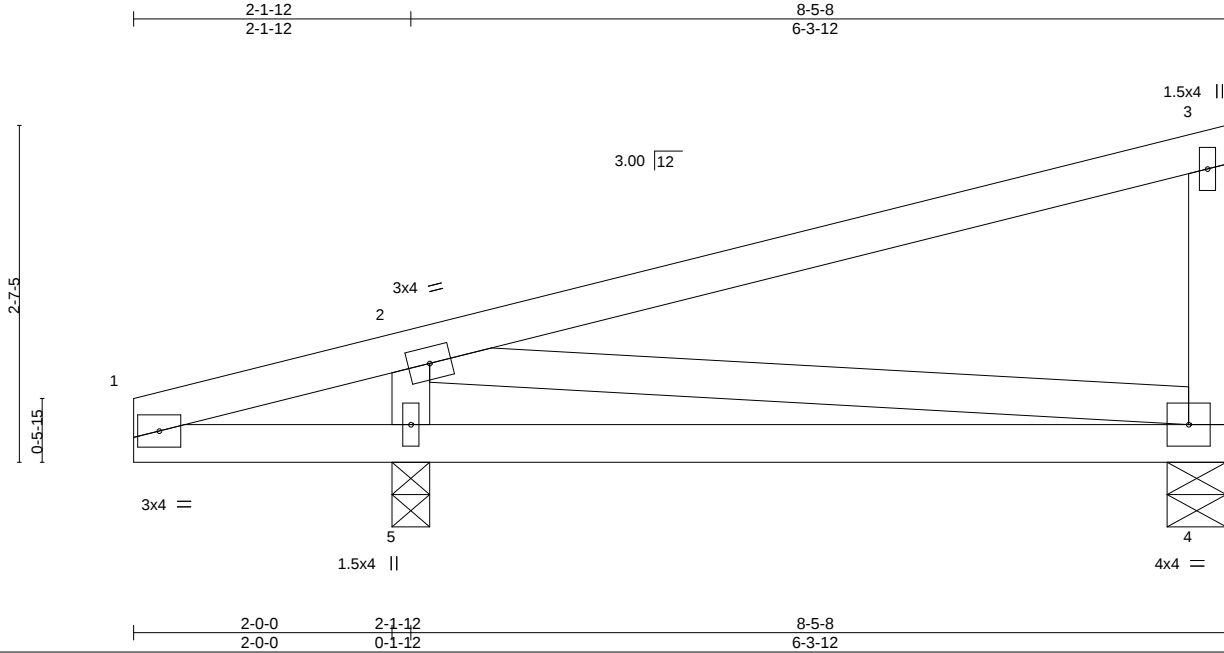


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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Capital Metal Supply	T22149296
0820-076	M2	Monopitch	10	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Dec 11 07:59:21 2020 Page 1
ID:BlpzK7yHFgqpnY9zGmhONFyRV_2-1WNMfw2gB9kn2QnWssgVAJcwccGh8N29FtmwnyA5n4



Scale = 1:17.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	0.11	4-5	>665	240	MT20	244/190
TCDL 10.0	1.25	BC 0.34	Vert(CT)	-0.10	4-5	>763	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS						Weight: 38 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.

REACTIONS.

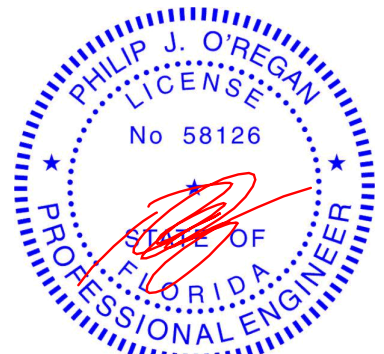
(size) 4=0-5-8, 5=0-3-8
Max Horz 5=94(LC 11)
Max Uplift 4=-102(LC 12), 5=-204(LC 12)
Max Grav 4=217(LC 1), 5=448(LC 1)

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

BOT CHORD 4-5=-321/182
WEBS 2-5=-351/253, 2-4=-146/291

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 4 and 204 lb uplift at joint 5.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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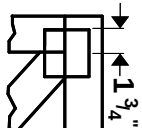
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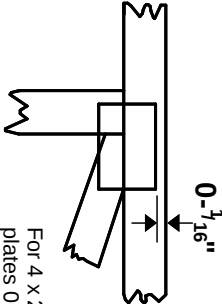
6904 Parke East Blvd.
Tampa, FL 33610

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- $\frac{1}{16}$ " from outside edge of truss.

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

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

PLATE SIZE

4 X 4

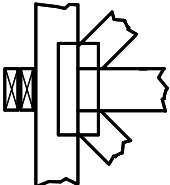
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



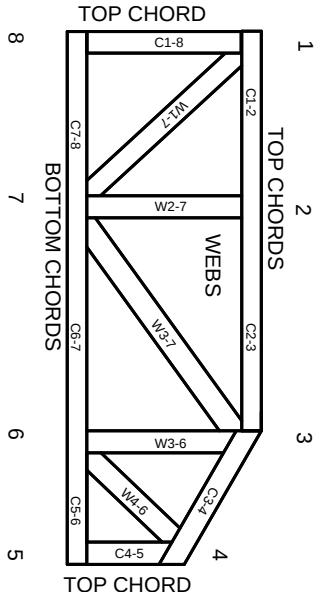
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.