RE: Water - Water

Site Information:
Customer Info: SCCI   Project Name: .   Model: .
Lot/Block: .   Subdivision: .
Address: ., .
City: Columbia County   State: Fl

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

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

Design Code: FBC2017/TPI2014   Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10   Wind Speed: 130 mph
Roof Load: 40.0 psf   Floor Load: N/A psf

This package includes 12 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	T19270605	A1GE	1/29/20
2	T19270606	A2	1/29/20
3	T19270607	A3	1/29/20
4	T19270608	A4	1/29/20
5	T19270609	A5	1/29/20
6	T19270610	A6GE	1/29/20
7	T19270611	A7GIR	1/29/20
8	T19270612	B1GE	1/29/20
9	T19270613	B2	1/29/20
10	T19270614	C1GE	1/29/20
11	T19270615	C2	1/29/20
12	T19270616	GIR1	1/29/20

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

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.
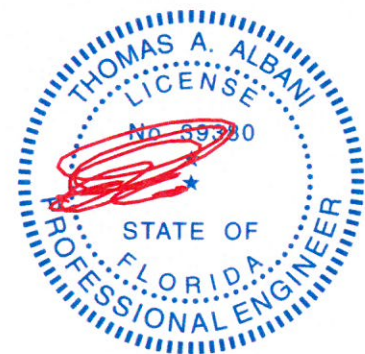
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

Albani, Thomas   1 of 1

Job	Truss	Truss Type	Qty	Ply	Water	
Water	A1GE	Roof Special Structural Gable	1	1		T19270605
					Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,
8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:25 2020 Page 1
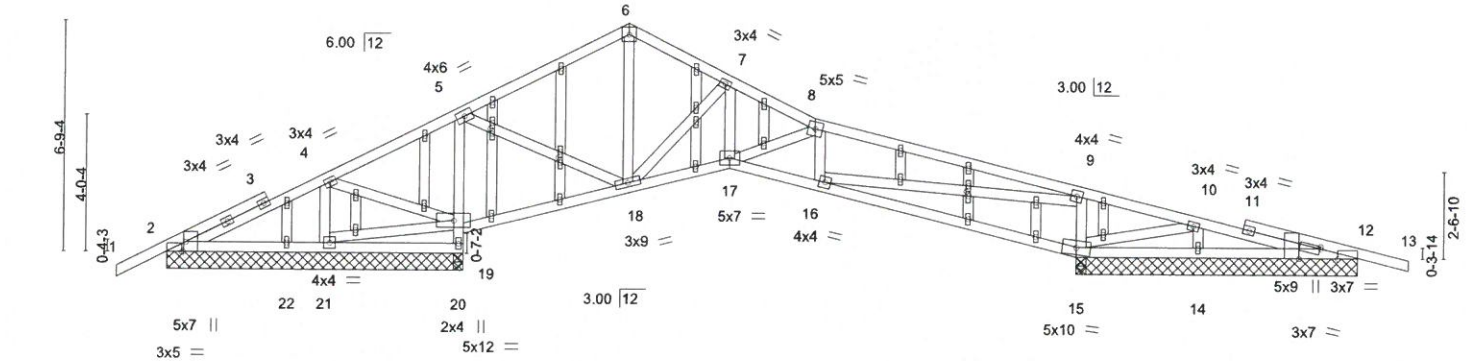ID:0I98w1jLwClAb7RXpbiY3QzqthM-hGp6caO6DXGMhrTZ06f_YEvHxZCWflIJePwpJfzqXnS
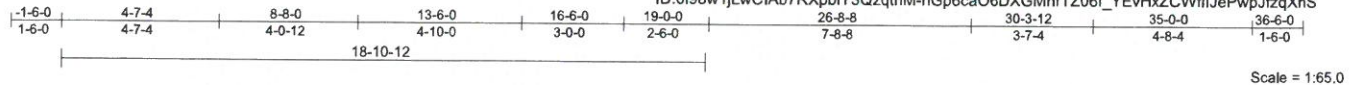
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Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-1-8,Edge], [12:0-3-8,Edge], [12:0-6-0,Edge], [12:0-4,0-0-12], [23:0-1-13,0-0-12], [26:0-1-13,0-0-12], [43:0-1-8,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.10	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.21	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.03	52	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 219 lb	FT = 0%

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

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

REACTIONS.   All bearings 8-8-0 except (jt=length) 12=8-3-8, 15=8-3-8, 15=8-3-8, 14=8-3-8, 12=8-3-8.
(lb) -   Max Horz   2=-114(LC 10)
          Max Uplift   All uplift 100 lb or less at joint(s) 2, 12, 15 except 21=-340(LC 22)
          Max Grav   All reactions 250 lb or less at joint(s) 2, 14, 22, 2 except 12=281(LC 22), 20=1644(LC 1),
                      20=1644(LC 1), 15=986(LC 1), 15=986(LC 1), 12=281(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-4=-48/374, 4-5=-137/1079, 7-8=-554/160, 8-9=-955/218, 9-10=-20/329
BOT CHORD   2-22=-290/100, 21-22=-290/100, 19-20=-1608/345, 5-19=-1181/283, 18-19=-940/261,
             17-18=0/460, 16-17=-86/899, 15-16=-389/127
WEBS   4-21=0/433, 4-19=-658/164, 5-18=-93/1030, 7-18=-589/123, 7-17=-72/542,
        8-17=-488/167, 9-16=-174/1226, 9-15=-707/276, 10-15=-294/57

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 15, 2, 12 except (jt=lb) 21=340.
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.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

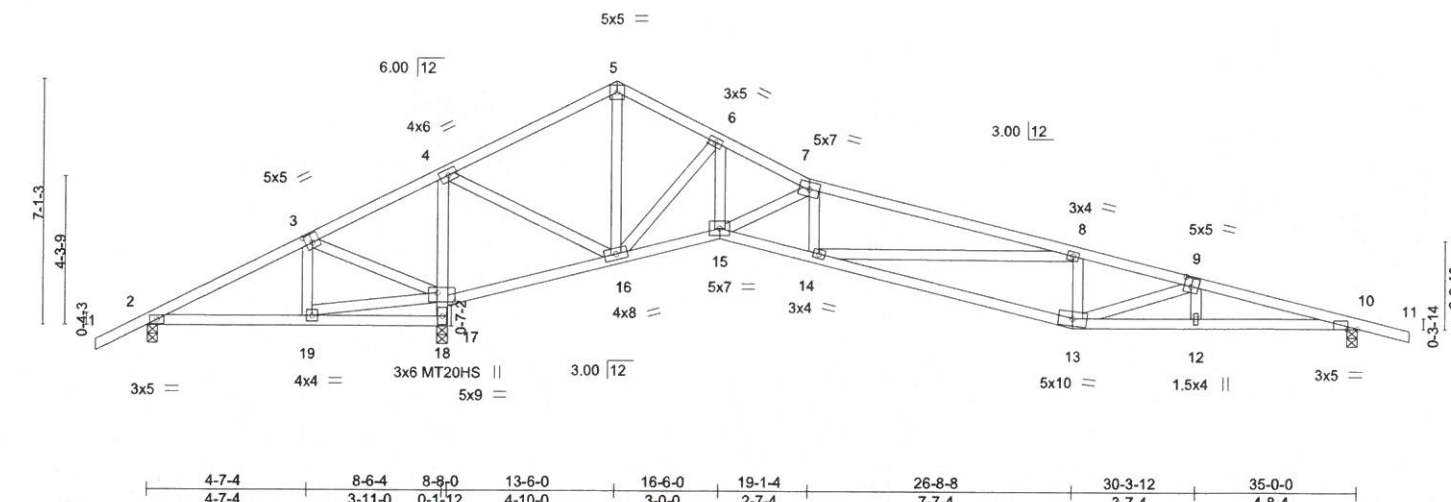| Job	Truss	Truss Type	Qty	Ply	Water	T19270606
Water	A2	Roof Special	2	1	Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:26 2020 Page 1
ID:0l98w1jLwClAb7RXpbiY3QzqthM-9TNUpwPk_rODl?2maqAD4RSRkzVqO3lSt3gMr5zqXnR

Scale: 3/16"=1'

Plate Offsets (X,Y)--   [3:0-2-8,0-3-0], [9:0-2-8,0-3-0], [10:0-3-4,Edge], [17:0-6-0,0-3-4]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.45	13-14	>711	240		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.37	13-14	>870	180		MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.05	10	n/a	n/a			
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS								Weight: 186 lb	FT = 0%

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

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

REACTIONS.   (lb/size)   2=-377/0-3-8, 18=2468/0-3-8, 10=889/0-3-8
Max Horz   2=-131(LC 10)
Max Uplift   2=-571(LC 22), 18=-417(LC 12), 10=-218(LC 12)
Max Grav   2=108(LC 9), 18=2468(LC 1), 10=889(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1557/1502, 3-4=-1900/2137, 4-5=-139/348, 5-6=-119/365, 6-7=-476/526,
7-8=-1438/1569, 8-9=-2026/2002, 9-10=-2393/2164
BOT CHORD   2-19=-1319/1497, 18-19=-195/295, 17-18=-2454/2210, 4-17=-1887/1673,
16-17=-1925/1986, 15-16=-89/387, 14-15=-1193/1355, 13-14=-1864/2027,
12-13=-2048/2294, 10-12=-2051/2300
WEBS   3-19=-201/352, 17-19=-1152/1227, 3-17=-681/439, 4-16=-1654/1799, 5-16=-503/231,
6-16=-964/930, 6-15=-936/956, 7-15=-1079/1244, 7-14=-572/408, 8-14=-621/490,
8-13=-251/98, 9-13=-352/194

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
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=571, 18=417, 10=218.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Water	T19270607
Water	A3	Roof Special	11	1		
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:27 2020 Page 1
ID:0I98w1jLwCIAb7RXpbiY3QzqthM-dfws1GQMl8W3w9cy8XhSdf?Z2Nru7Yqb5jPvNXzqXnQ

Scale: 3/16"=1'

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.21	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.45	13-14	>716	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.25	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 162 lb	FT = 0%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied.
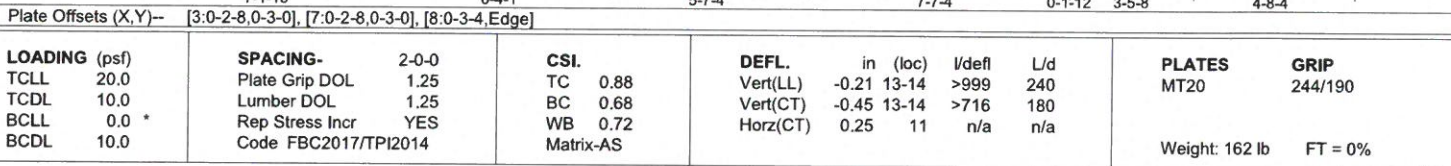
REACTIONS. (lb/size) 2=1017/0-3-8, 11=1997/0-3-8, 8=-34/0-3-8
Max Horz 2=-119(LC 10)
Max Uplift 2=-39(LC 12), 11=-63(LC 12), 8=-147(LC 10)
Max Grav 2=1017(LC 1), 11=1997(LC 1), 8=61(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2868/591, 3-4=-1797/332, 4-5=-1783/335, 5-6=-1589/304, 6-7=-376/1720,
7-8=-5/1244
BOT CHORD   2-14=-429/2587, 13-14=-432/2580, 12-13=-166/1595, 11-12=-1791/488, 10-11=-1185/68,
8-10=-1175/56
WEBS   3-14=0/274, 3-13=-994/379, 4-13=-113/1181, 5-12=-770/262, 6-12=-594/3201,
6-11=-1292/386, 7-11=-469/403

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11 except (jt=lb) 8=147.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Water	
Water	A4	Roof Special	6	1		T19270608
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:28 2020 Page 1
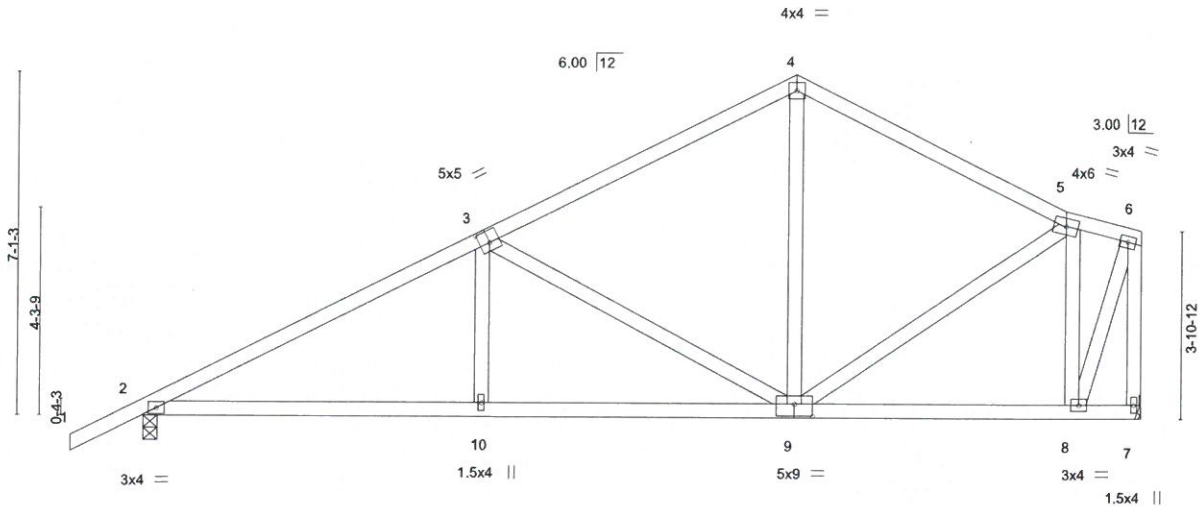ID:0I98w1jLwCIAb7RXpbiY3QzqthM-5rUEEcR_WSewYJB8hFCh9sXrenExs1jIKN9Tv_zqXnP
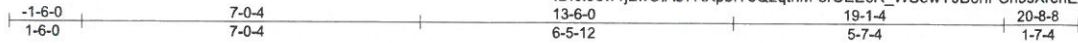
Scale = 1:45.8

Plate Offsets (X,Y)--   [3:0-2-8,0-3-0], [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	0.44	Vert(LL)	-0.06	10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.14	10-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 119 lb	FT = 0%

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

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.
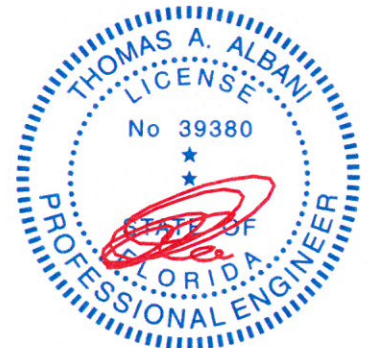
REACTIONS. (lb/size)   2=916/0-3-8, 7=819/Mechanical
Max Horz 2=168(LC 11)
Max Uplift 2=-37(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1364/314, 3-4=-750/252, 4-5=-726/252, 5-6=-285/129, 6-7=-818/194
BOT CHORD   2-10=-387/1154, 9-10=-389/1151, 8-9=-119/305
WEBS   3-10=0/287, 3-9=-658/243, 4-9=-30/330, 5-9=-71/346, 5-8=-678/278, 6-8=-214/803

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

Job	Truss	Truss Type	Qty	Ply	Water	
Water	A5	Roof Special	2	1		T19270609
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:29 2020 Page 1
ID:0l98w1jLwCIAb7RXpbiY3QzqthM-Z22cSyRcHmmn9TmKFyjwi44y5AVVbUTuZ1u0SQzqXnO

-1-6-0	7-1-15	13-6-0	19-1-4	24-0-8	28-11-12	35-0-0	36-0-0
1-6-0	7-1-15	6-4-1	5-7-4	4-11-4	4-11-4	6-0-4	1-0-0

Scale = 1:62.1

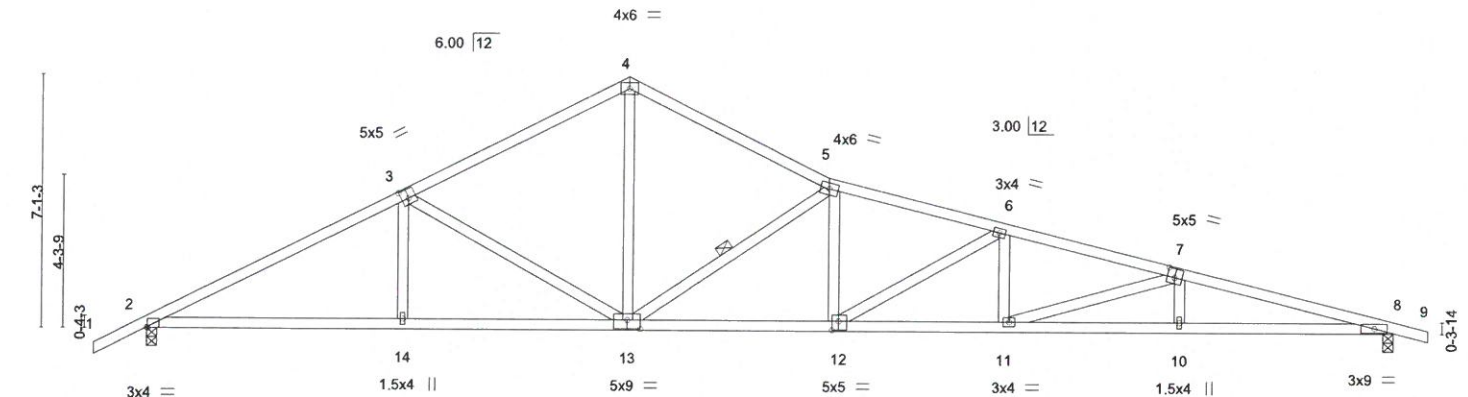|	7-1-15	13-6-0	19-1-4	24-0-8	28-11-12	35-0-0
	7-1-15	6-4-1	5-7-4	4-11-4	4-11-4	6-0-4

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

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 0.65	Vert(LL)	-0.33 11-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.80	Vert(CT)	-0.67 11-12	>629	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT)	0.17 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS					Weight: 173 lb	FT = 0%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2 *Except*
    8-12: 2x4 SP No.1
WEBS   2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   5-13

REACTIONS.   (lb/size)   2=1491/0-3-8, 8=1459/0-3-8
     Max Horz 2=-117(LC 10)
     Max Uplift 2=-37(LC 12), 8=-23(LC 12)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2617/622, 3-4=-2029/559, 4-5=-2003/556, 5-6=-3224/805, 6-7=-3992/959,
    7-8=-4721/1100
BOT CHORD   2-14=-444/2270, 13-14=-445/2267, 12-13=-615/3052, 11-12=-822/3841,
    10-11=-1017/4548, 8-10=-1013/4555
WEBS   3-14=0/280, 3-13=-639/236, 4-13=-307/1378, 5-13=-1623/453, 5-12=-57/550,
    6-12=-872/237, 6-11=-10/362, 7-11=-758/205

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

Job	Truss	Truss Type	Qty	Ply	Water	
Water	A6GE	Roof Special Supported Gable	1	1		T19270610
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:30 2020 Page 1
ID:0l98w1jLwClAb7RXpbiY3QzqthM-1Ec?flSE23uendLXpgF9FHdDMa_vK3U2nhea_szqXnN

Scale: 3/16"=1'
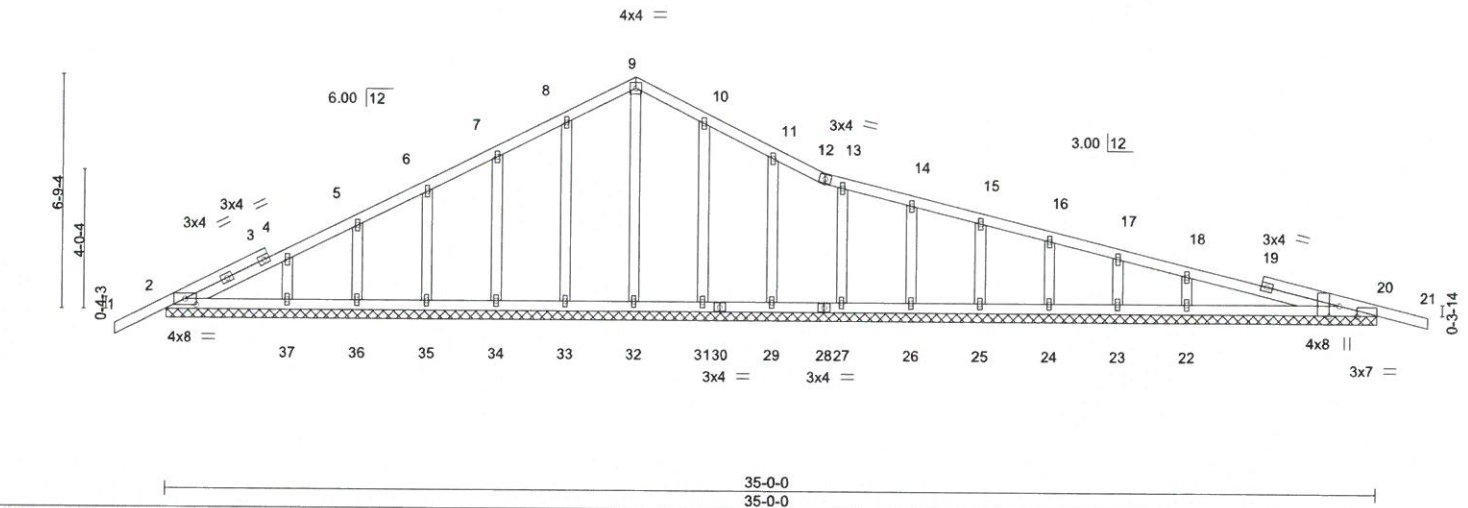
Plate Offsets (X,Y)--   [2:0-4-0,0-2-1], [20:0-3-8,Edge], [20:0-6-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.00	21	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	0.01	21	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	20	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 186 lb	FT = 0%

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

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

REACTIONS.   All bearings 35-0-0.
  (lb) - Max Horz   2=-114(LC 10)
          Max Uplift   All uplift 100 lb or less at joint(s) 2, 12, 20, 33, 34, 35, 36, 31, 29, 26, 25, 23
          Max Grav   All reactions 250 lb or less at joint(s) 2, 12, 32, 33, 34, 35, 36, 37, 31, 29, 27, 26, 25, 24, 23
                      except 20=289(LC 1), 22=407(LC 1)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   18-22=-291/146

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=2ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 20, 33, 34, 35, 36, 31, 29, 26, 25, 23.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

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Job	Truss	Truss Type	Qty	Ply	Water	
Water	A7GIR	ROOF SPECIAL GIRDER	1	**3**	Job Reference (optional)	T19270611

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:39 2020 Page 1
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Plate Offsets (X,Y)—	[3:0-2-8,0-3-0], [8:0-3-4,0-3-4], [10:0-3-7,0-0-8], [14:0-3-8,0-4-0], [15:0-3-0,0-4-12], [16:0-4-0,0-4-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.39	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.76	14-15	>549	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 649 lb	FT = 0%

LUMBER-
TOP CHORD   2x4 SP No.2 *Except*
   8-11: 2x4 SP No.1
BOT CHORD   2x6 SP No.2 *Except*
   10-15: 2x6 SP SS
WEBS   2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 4-5-13 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   2=3362/0-3-8, 10=5754/0-3-8
Max Horz   2=-118(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-6944/0, 3-4=-6591/0, 4-5=-6199/0, 5-6=-6245/0, 6-7=-13044/0, 7-8=-16527/0,
   8-9=-18601/0, 9-10=-20388/0
BOT CHORD   2-18=0/6175, 17-18=0/6172, 16-17=0/5844, 15-16=0/12276, 14-15=0/16012,
   13-14=0/17966, 12-13=0/19752, 10-12=0/19752
WEBS   3-17=-401/37, 4-17=0/333, 4-16=-522/33, 5-16=0/5179, 6-16=-8252/0, 6-15=0/4890,
   7-15=-4617/0, 7-14=0/3819, 8-14=-2315/0, 8-13=0/1464, 9-13=-1838/0, 9-12=0/928

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
   Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 20-10-0 from the left end to connect truss(es) to back face of bottom chord.
8) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 21-11-4 from the left end to 32-11-4 to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)   Standard

January 29,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Water	
Water	A7GIR	ROOF SPECIAL GIRDER	1	**3**		T19270611
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:39 2020 Page 2
ID:0l98w1jLwCIAb7RXpbiY3QzqthM-HzfOYNZuwq1NM?XFr3vG6BUdWCwox1BNsaJYorzqXnE

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-5=-60, 5-6=-60, 6-11=-60, 2-10=-20
   Concentrated Loads (lb)
      Vert: 14=-485(B) 23=-2774(B) 24=-485(B) 25=-485(B) 26=-485(B) 27=-485(B) 28=-485(B) 29=-485(B)

Job	Truss	Truss Type	Qty	Ply	Water	
Water	B1GE	Common Supported Gable	1	1		T19270612
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:40 2020 Page 1
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1-6-0   10-6-0   10-6-0   1-6-0
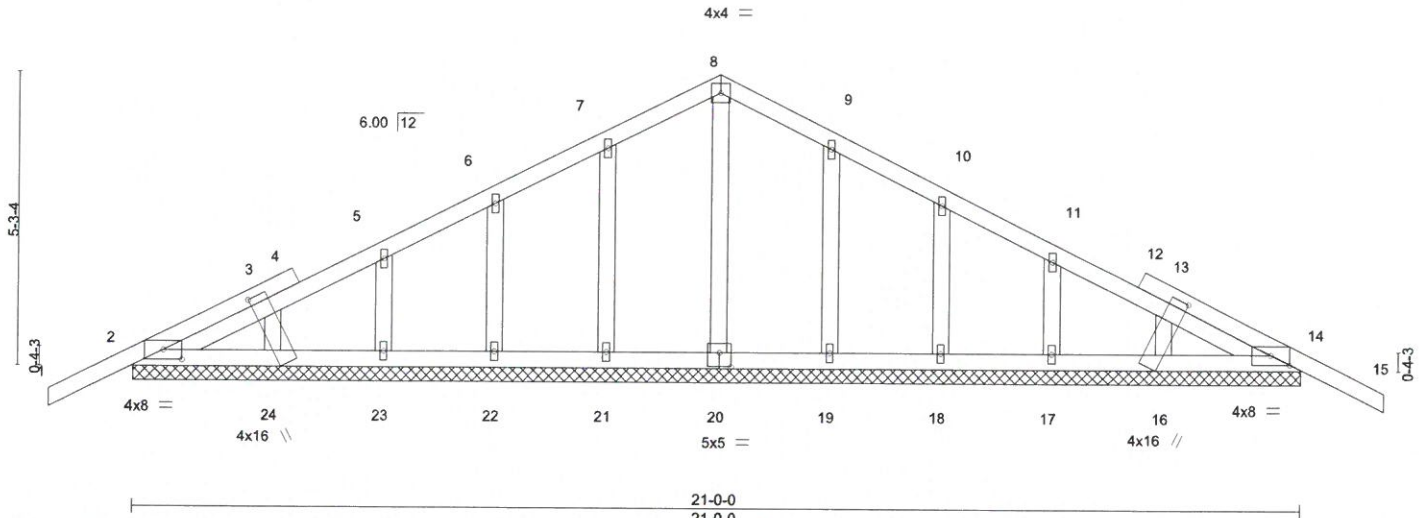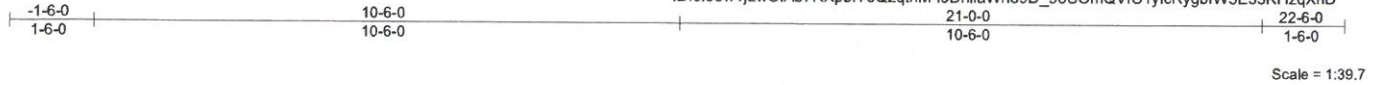
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6.00 ⌐12

21-0-0
21-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [3:0-0-0,0-1-15], [13:0-0-0,0-1-15], [14:0-4-0,0-2-1], [16:0-0-13,0-1-9], [16:0-1-9,1-9-1], [20:0-2-8,0-3-0], [24:0-0-13,0-1-9], [24:0-1-9,1-9-1]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	15	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 113 lb	FT = 0%

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

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

REACTIONS.   All bearings 21-0-0.
(lb) -   Max Horz 2=-94(LC 10)
     Max Uplift   All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17
     Max Grav   All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 19, 18, 17.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Water	
Water	B2	Scissor	6	1		T19270613
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:41 2020 Page 1
ID:0I98w1jLwCIAb7RXpbiY3QzqthM-DLn9z2b8SSH4cJheyTxkBca1f0f_P_tfJuoftjzqXnC
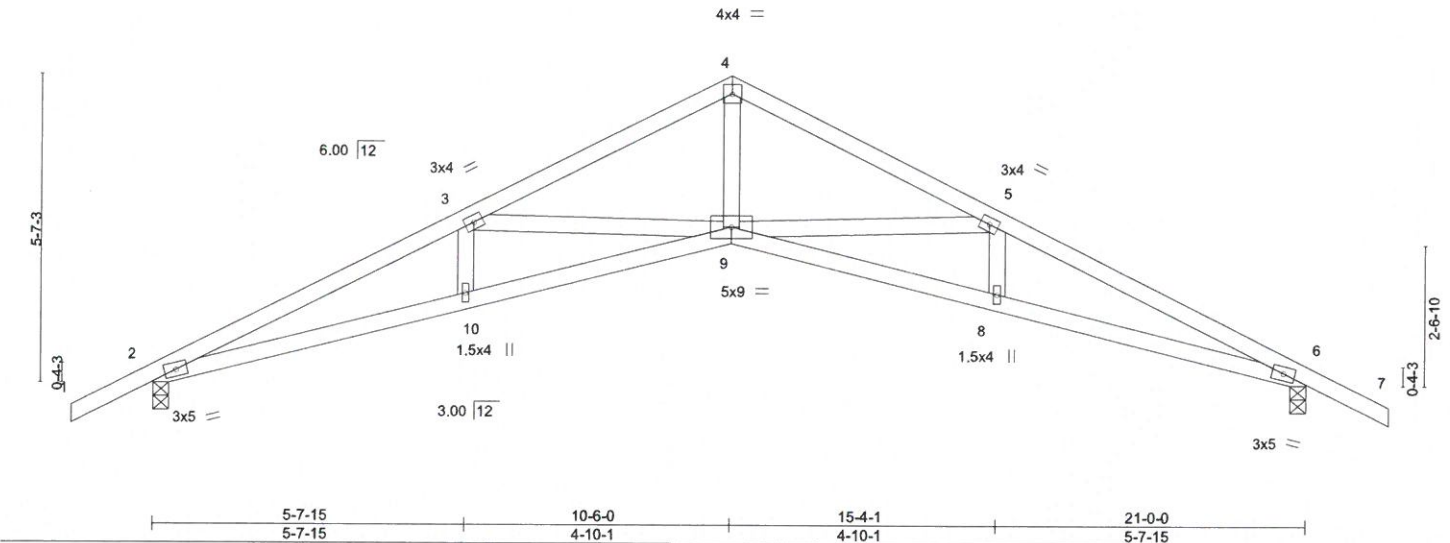
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.32	9-10	>796	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.33	9-10	>757	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.23	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 94 lb	FT = 0%

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

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

REACTIONS. (lb/size)   2=930/0-3-8, 6=930/0-3-8
Max Horz 2=-99(LC 10)
Max Uplift 2=-218(LC 12), 6=-218(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2609/2687, 3-4=-1894/1835, 4-5=-1894/1835, 5-6=-2609/2706
BOT CHORD   2-10=-2317/2351, 9-10=-2232/2358, 8-9=-2251/2358, 6-8=-2338/2351
WEBS   4-9=-1470/1336, 5-9=-683/884, 5-8=-298/189, 3-9=-683/887, 3-10=-298/189

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=218, 6=218.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Water	T19270614
Water	C1GE	Common Supported Gable	1	1		
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:42 2020 Page 1
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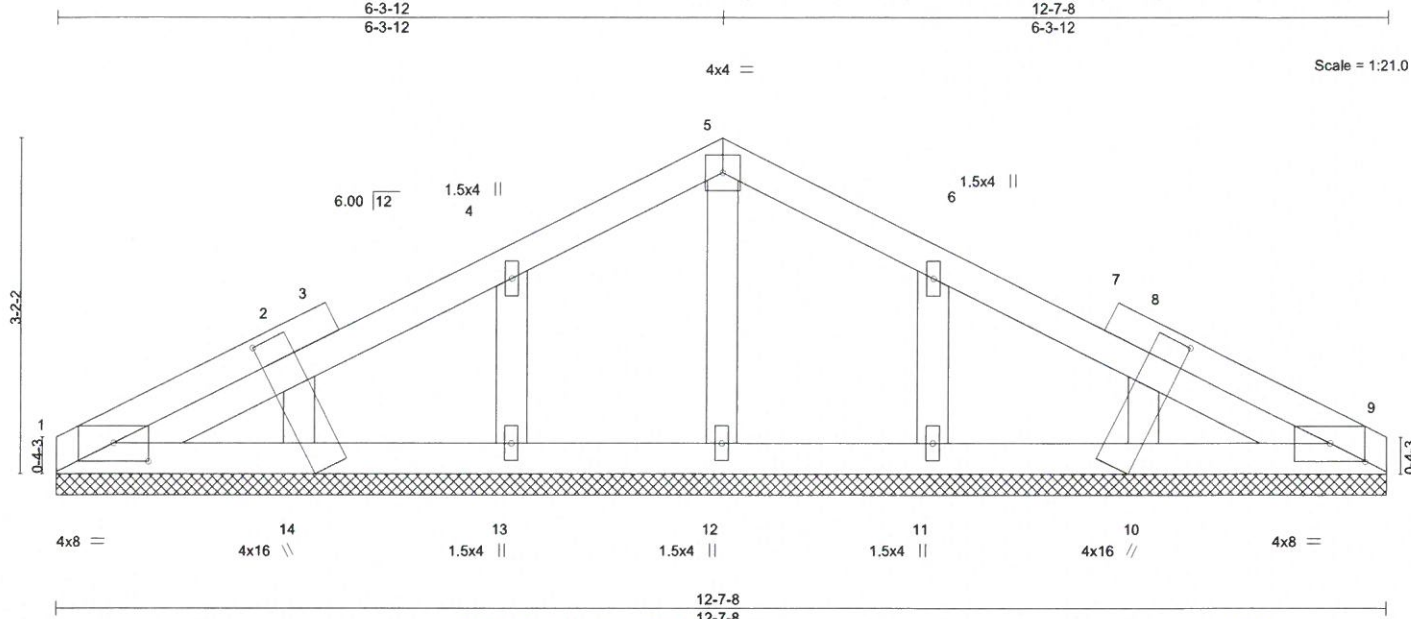
Plate Offsets (X,Y)-- [1:0-4-0,0-2-1], [2:0-0-0,0-1-15], [8:0-0-0,0-1-15], [9:0-4-0,0-2-1], [10:0-0-13,0-1-9], [10:0-2-9,1-7-1], [14:0-0-13,0-1-9], [14:0-2-9,1-7-1]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999		MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	9	n/a	n/a			
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S								Weight: 57 lb	FT = 0%

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

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

REACTIONS.   All bearings 12-7-8.
   (lb) -   Max Horz   1=-47(LC 10)
          Max Uplift   All uplift 100 lb or less at joint(s) 13, 14, 11, 10
          Max Grav   All reactions 250 lb or less at joint(s) 1, 9, 12, 13, 14, 11, 10

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 11, 10.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Water	T19270615
Water	C2	Scissor	7	1		
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:43 2020 Page 1
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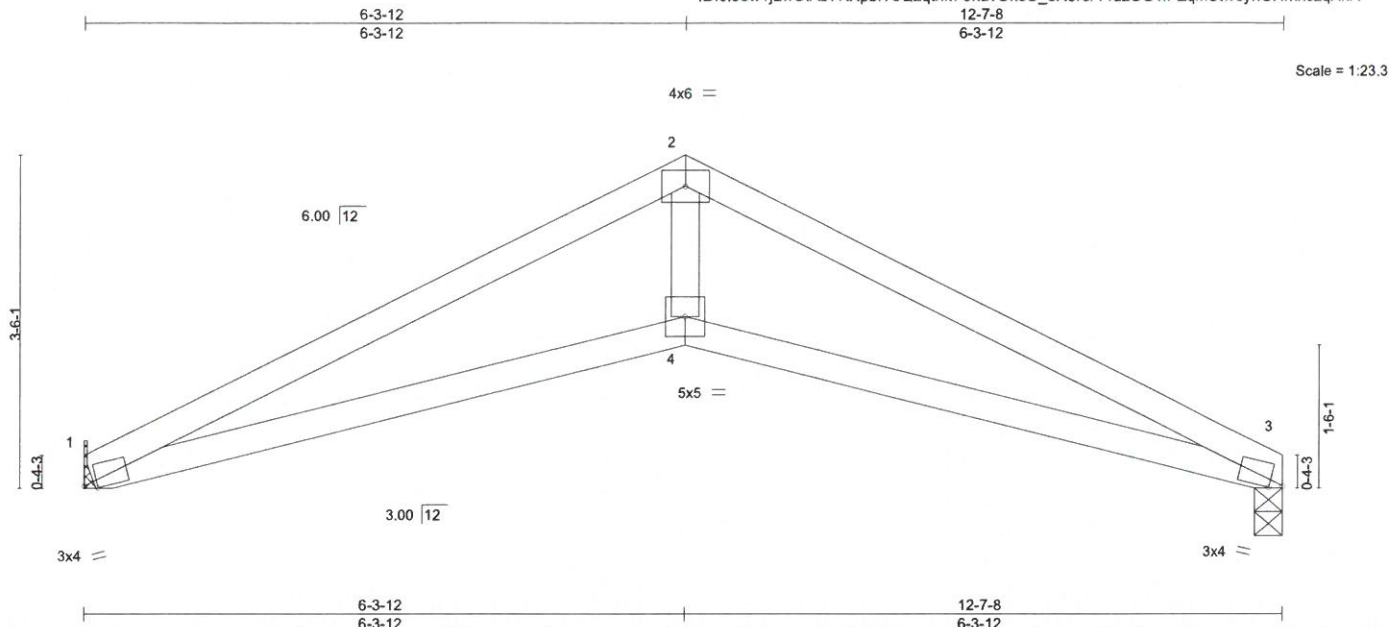
Plate Offsets (X,Y)-- [1:0-1-11,0-0-9], [3:0-1-11,0-0-9]

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	0.40	Vert(LL)	-0.06	4-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.13	4-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.06	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 43 lb	FT = 0%

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

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

REACTIONS. (lb/size) 1=505/Mechanical, 3=505/0-3-8
             Max Horz 1=52(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1252/329, 2-3=-1252/329
BOT CHORD 1-4=-221/1129, 3-4=-221/1129
WEBS 2-4=-72/700

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

Job	Truss	Truss Type	Qty	Ply	Water	
Water	GIR1	Flat Girder	1	**2**		T19270616
					Job Reference (optional)	

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

8.240 s Dec 6 2019 MiTek Industries, Inc. Wed Jan 29 09:26:44 2020 Page 1
ID:0I98w1jLwCIAb7RXpbiY3QzqthM-dwSHb4d0lNffTmQDdcVRpECb2Db6cJ46?s1JU2zqXn9

6-3-12
6-3-12

12-7-8
6-3-12

1.5x4 || 3x7 =   Scale = 1:25.6

3-10-0

4x4 ||

9 JUS26   10 JUS26   11 JUS26   5   12 JUS26   13 JUS26   14 JUS26

6   10x10 =   4

4x4 ||

6-3-12
6-3-12

12-7-8
6-3-12

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

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	0.35	Vert(LL)	-0.07	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.14	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 163 lb	FT = 0%

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

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

REACTIONS.   (lb/size)   6=2794/Mechanical, 4=2989/0-3-8
Max Horz 6=-97(LC 6)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-6=-1904/0, 1-2=-3193/0, 2-3=-3193/0, 3-4=-1903/0
WEBS   1-5=0/3541, 2-5=-394/113, 3-5=0/3537

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) Refer to girder(s) for truss to truss connections.
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 1-6-12 from the left end to 11-6-12 to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)   Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
  Uniform Loads (plf)
    Vert: 1-3=-60, 4-6=-20
  Concentrated Loads (lb)
    Vert: 9=-799(B) 10=-799(B) 11=-799(B) 12=-799(B) 13=-799(B) 14=-800(B)

Thomas A. Albani PE No.39380
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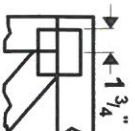6904 Parke East Blvd. Tampa FL 33610
Date:

January 29,2020

MiTek
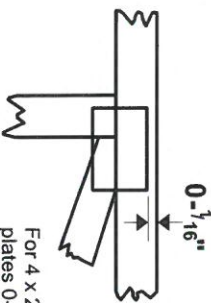6904 Parke East Blvd.
Tampa, FL 36610

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.

$1\frac{3}{4}$"

$0-\frac{1}{16}$"

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

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

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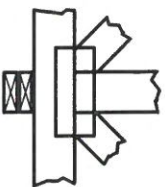
PLATE SIZE

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

6-4-8

dimensions shown in ft-in-sixteenths
(Drawings not to scale)
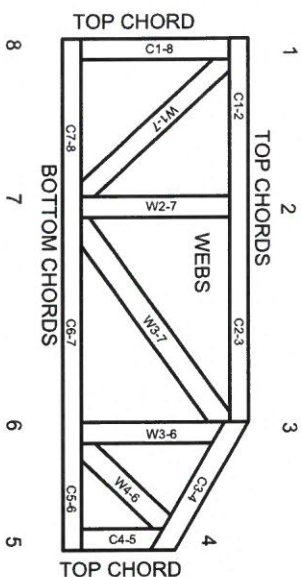
JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

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

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

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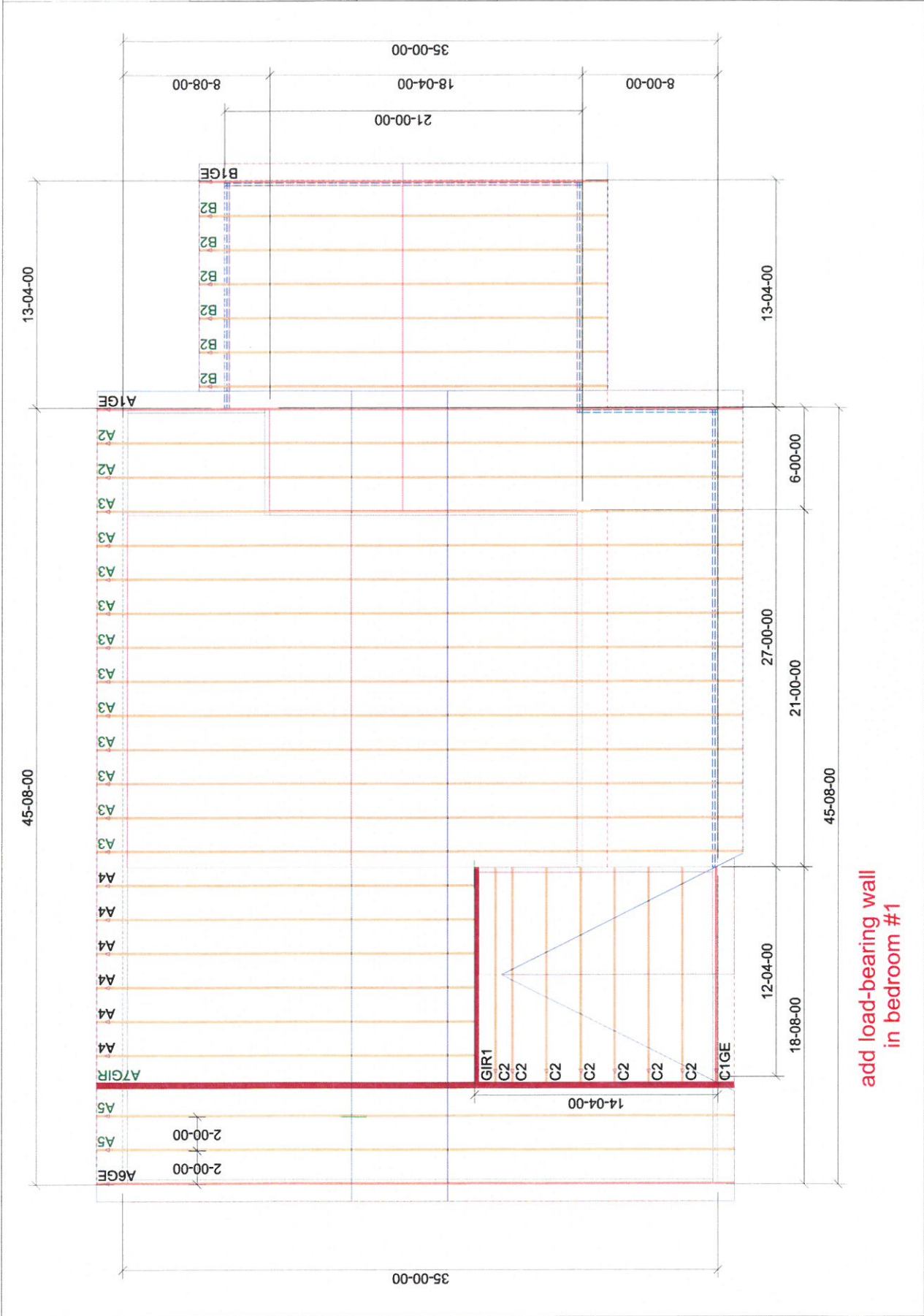

⚠ General Safety Notes

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 T or 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.

Roof Loading
TC Live: 20.00 psf
TC Dead: 10.00 psf
BC Live: 0.00 psf
BC Dead: 10.00 psf
Spacing: 2.00 O.C.

Client: SCCI
Date: 1/29/2020
Quote Date: / /
Seal Date: / /
Designer: Stephanie Ramirez
Job Number: 0120-067

35-00-00
8-08-00
18-04-00
8-00-00
21-00-00

B1GE
B2
B2
B2
B2
B2
B2

13-04-00
13-04-00

A1GE
A2
A2
A3
A3
A3
A3
A3
A3
A3

6-00-00

27-00-00
21-00-00

45-08-00
45-08-00

A4
A4
A4
A4
A4

GIR1
C2 C2 C2 C2 C2 C2 C2
C1GE

12-04-00
18-08-00
14-04-00

A7GIR
A5
A5
A6GE

2-00-00
2-00-00

35-00-00

add load-bearing wall
in bedroom #1