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

RE: 2871649 - MIKE TODD CONST. - SANDIA

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

Site Information:
Customer Info: Mike Todd Const. Project Name: Custom Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD Sandia Way, N/A
City: Columbia Cty 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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 33 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T24688876	CJ01	7/15/21	23	T24688898	T18	7/15/21
2	T24688877	CJ03	7/15/21	24	T24688899	T19	7/15/21
3	T24688878	CJ05	7/15/21	25	T24688900	T20	7/15/21
4	T24688879	EJ01	7/15/21	26	T24688901	T21	7/15/21
5	T24688880	HJ10	7/15/21	27	T24688902	T21G	7/15/21
6	T24688881	T01	7/15/21	28	T24688903	T22	7/15/21
7	T24688882	T02	7/15/21	29	T24688904	T23	7/15/21
8	T24688883	T03	7/15/21	30	T24688905	T24	7/15/21
9	T24688884	T04	7/15/21	31	T24688906	T24G	7/15/21
10	T24688885	T05	7/15/21	32	T24688907	T25	7/15/21
11	T24688886	T06	7/15/21	33	T24688908	T26	7/15/21
12	T24688887	T07	7/15/21				
13	T24688888	T08	7/15/21				
14	T24688889	T09	7/15/21				
15	T24688890	T10	7/15/21				
16	T24688891	T11	7/15/21				
17	T24688892	T12	7/15/21				
18	T24688893	T13	7/15/21				
19	T24688894	T14	7/15/21				
20	T24688895	T15	7/15/21				
21	T24688896	T16	7/15/21				
22	T24688897	T17	7/15/21				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

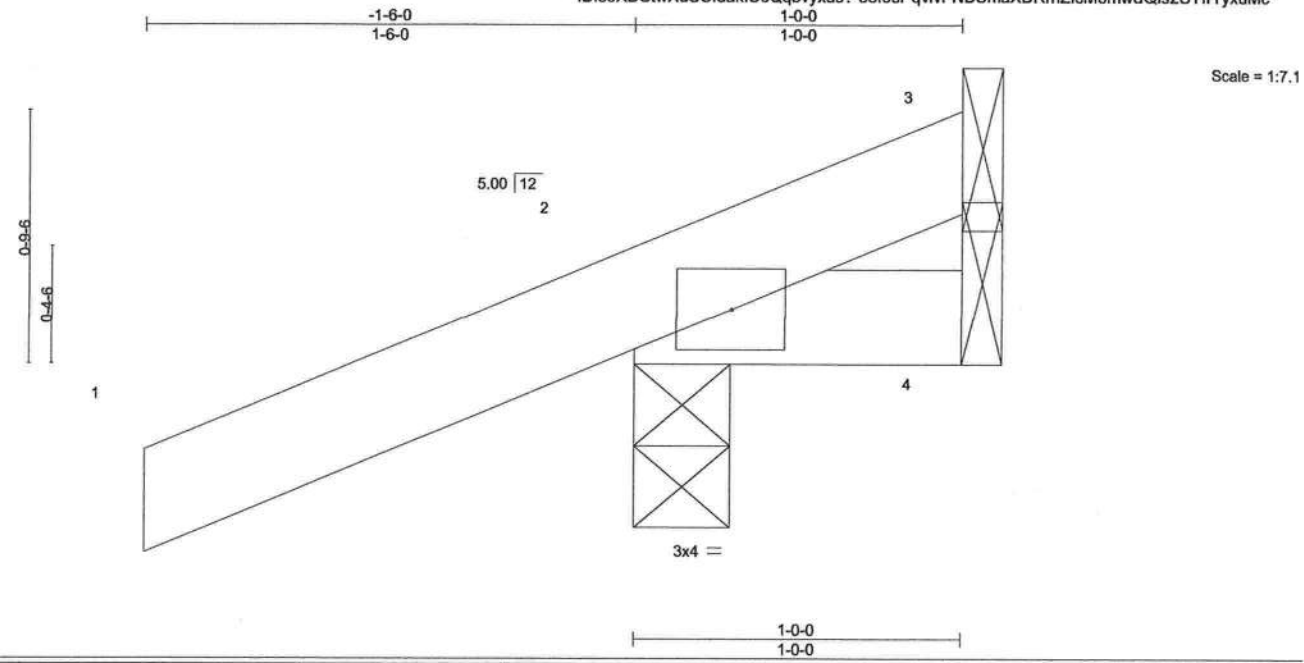
Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2023.

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:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688876
2871649	CJ01	Jack-Open	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:43 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-58f9sPqvlvFNBCmaXDRmZlcM6mwdQis2SYfrTyxuMc



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	0.13	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=33(LC 8)
Max Uplift 3=-6(LC 1), 2=-82(LC 8), 4=-19(LC 1)
Max Grav 3=10(LC 8), 2=179(LC 1), 4=19(LC 8)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) 3, 2, 4.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688877
2871649	CJ03	Jack-Open	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:44 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-ZKDX4IqXWCNEpMLm5wy4Knqn6W5UMty0H6HCOvyxuMb

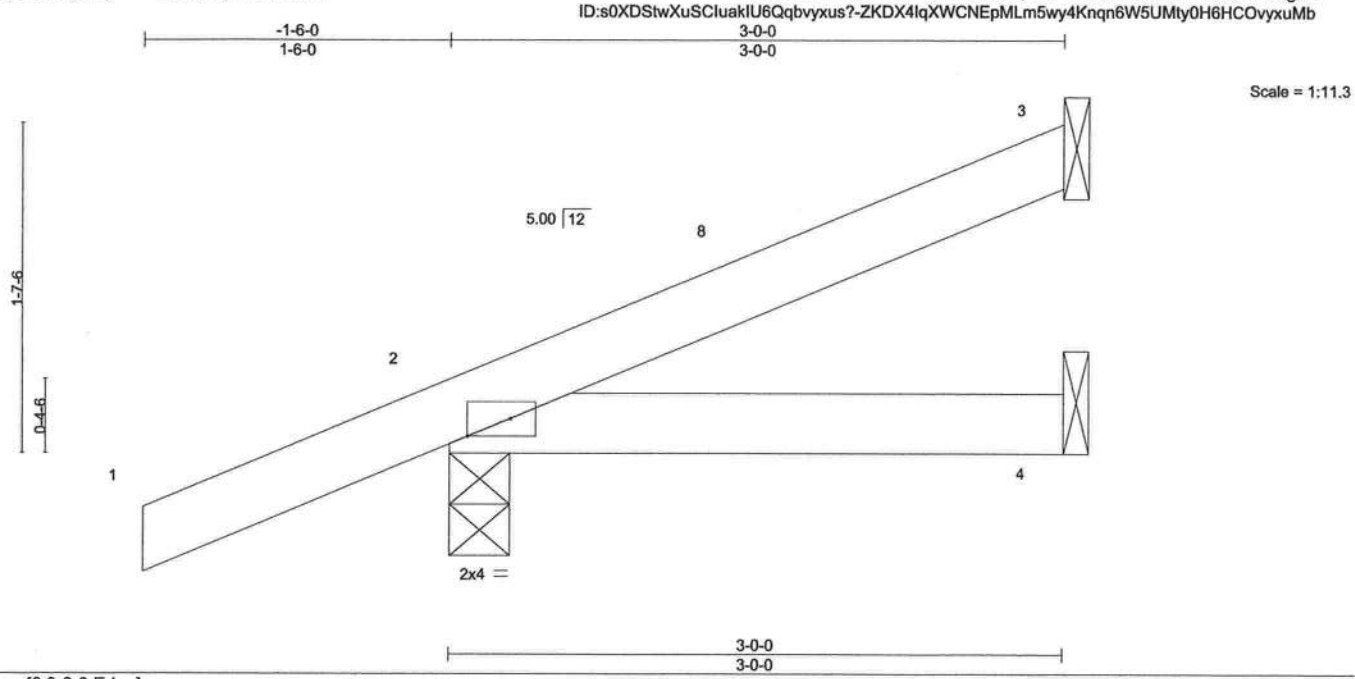


Plate Offsets (X,Y)-- [2:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=61(LC 12)
Max Uplift 3=-32(LC 12), 2=-63(LC 8)
Max Grav 3=59(LC 1), 2=210(LC 1), 4=49(LC 3)

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

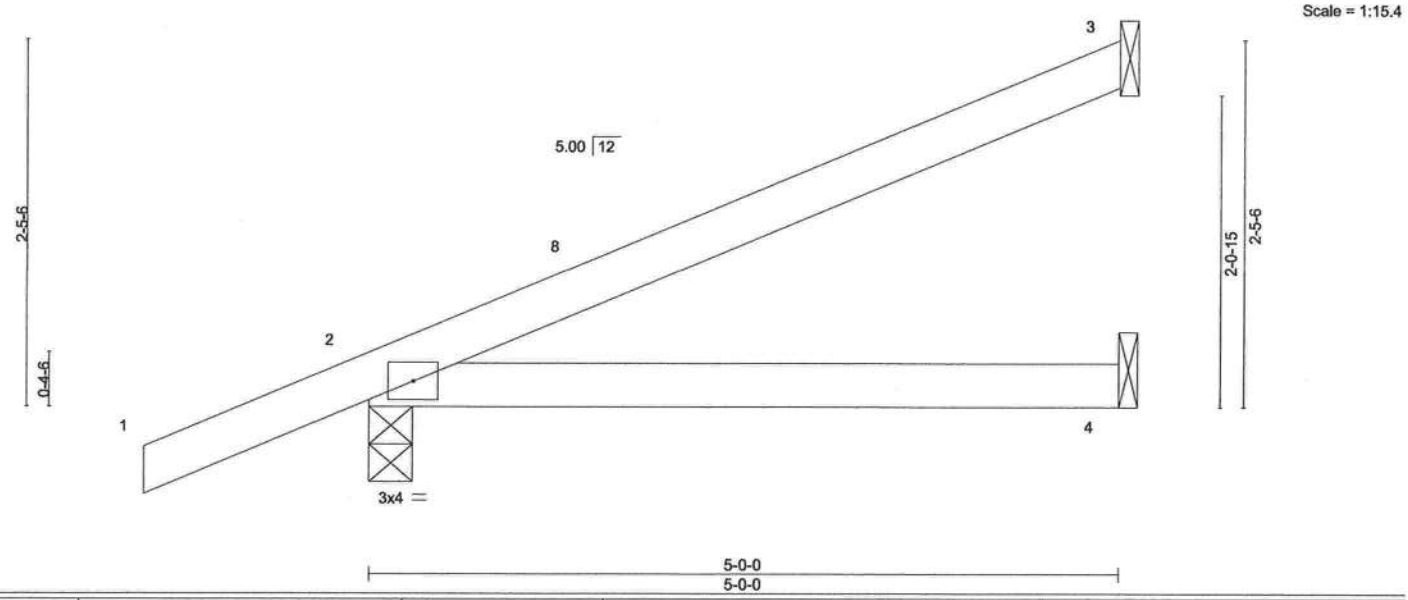
NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) 3, 2.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688878
2871649	CJ05	Jack-Open	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:45 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-1XmvH5rAHWV5RWwyfeTJt_NvXwO75KC9Vm1mwLyxuMa



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=89(LC 12)
Max Uplift 3=-61(LC 12), 2=-71(LC 12)
Max Grav 3=112(LC 1), 2=276(LC 1), 4=87(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) 3, 2.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	EJ01	Jack-Partial	20	1	T24688879
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:46 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-VjKHVRso2qdy2gV9DL_YPCw?tJg5qnSJkQmJSoyxuMZ

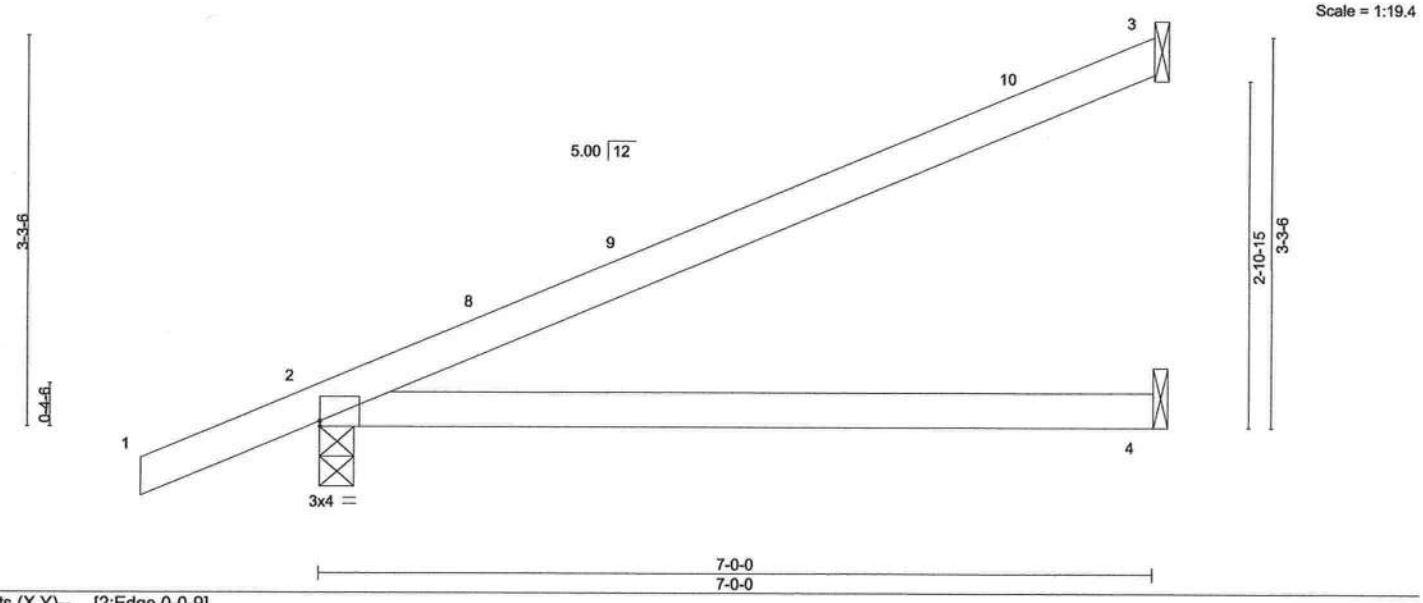


Plate Offsets (X,Y)-- [2:Edge,0-0-9]

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	0.62	Vert(LL)	0.10	4-7	>838	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	4-7	>392	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 3=-78(LC 12), 2=-85(LC 12)
Max Grav 3=163(LC 1), 2=346(LC 1), 4=125(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) 3, 2.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

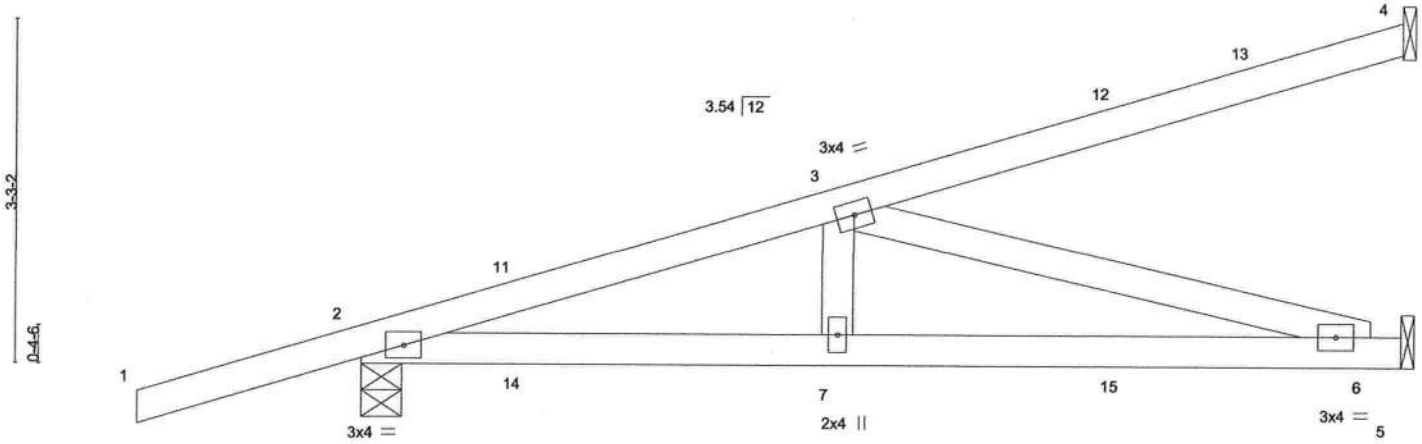
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	HJ10	Diagonal Hip Girder	5	1	T24688880
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:47 2021 Page 1
ID:s0XDStwXuSCluaklU6Qqbvyxus?-zvugintQp7logq4Lm3VnyPSA9jzBZ7sSz4Wt_EyxuMY

-2-1-7 / 2-1-7 | 4-6-0 / 4-6-0 | 9-10-1 / 5-4-1

Scale = 1:21.8



4-6-0 / 4-6-0 | 9-9-5 / 5-3-5 | 9-10-1 / 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	0.59	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.12	6-7	>941	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=124(LC 4)
Max Uplift 4=-72(LC 4), 2=-139(LC 4), 5=-41(LC 8)
Max Grav 4=151(LC 1), 2=528(LC 1), 5=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-921/173
BOT CHORD 2-7=-213/864, 6-7=-213/864
WEBS 3-7=0/277, 3-6=-896/221

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) 4, 5 except (jt=lb) 2=139.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 63 lb up at 1-6-1, 63 lb down and 63 lb up at 1-6-1, 21 lb down and 34 lb up at 4-4-0, 21 lb down and 34 lb up at 4-4-0, and 42 lb down and 72 lb up at 7-1-15, and 42 lb down and 72 lb up at 7-1-15 on top chord, and 24 lb down and 37 lb up at 1-6-1, 24 lb down and 37 lb up at 1-6-1, 20 lb down at 4-4-0, 20 lb down at 4-4-0, and 37 lb down at 7-1-15, and 37 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-8(F=-4, B=-4) 12=-72(F=-36, B=-36) 15=-60(F=-30, B=-30)

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

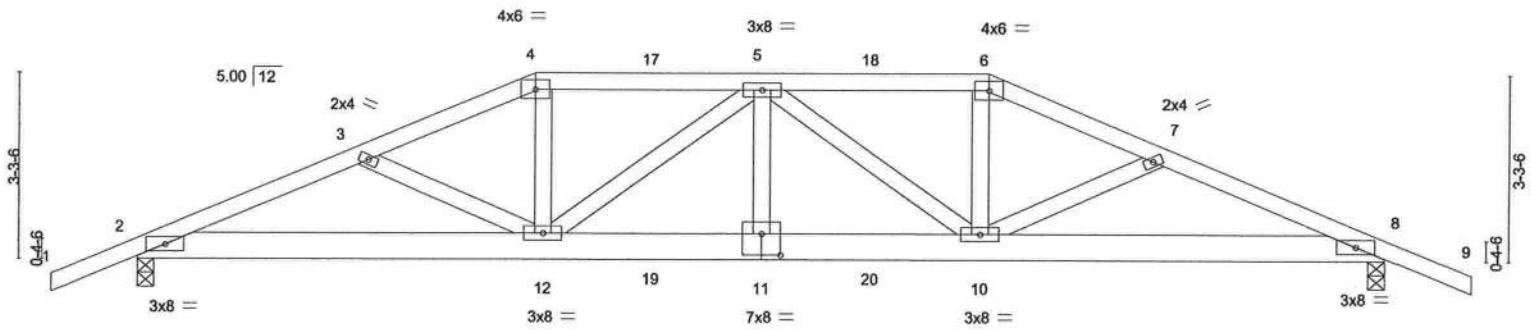
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T01	Hip Girder	1	1	T24688881
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:48 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-R5S2w7t2aRtfl_fXKm00Ud?ND7IbIcIcBkFQXgyxuMX

-1-6-0	4-0-15	7-0-0	11-0-0	15-0-0	17-11-1	22-0-0	23-6-0
1-6-0	4-0-15	2-11-1	4-0-0	4-0-0	2-11-1	4-0-15	1-6-0

Scale = 1:40.7



7-0-0	11-0-0	15-0-0	22-0-0
7-0-0	4-0-0	4-0-0	7-0-0

Plate Offsets (X,Y)-- [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.15	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.29	11	>901	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-2 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-53(LC 32)
Max Uplift 2=-382(LC 8), 8=-388(LC 9)
Max Grav 2=1624(LC 1), 8=1651(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3553/812, 3-4=-3368/748, 4-5=-3134/716, 5-6=-3196/728, 6-7=-3437/764, 7-8=-3622/828
BOT CHORD 2-12=-744/3257, 11-12=-757/3610, 10-11=-757/3610, 8-10=-705/3321
WEBS 4-12=-129/950, 5-12=-662/198, 5-11=0/272, 5-10=-571/150, 6-10=-99/902

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=382, 8=388.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 75 lb up at 11-0-0, and 109 lb down and 82 lb up at 12-11-4, and 231 lb down and 161 lb up at 15-0-0 on top chord, and 335 lb down and 67 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-0, and 85 lb down at 12-11-4, and 335 lb down and 67 lb up at 14-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-8=-20

PHILIP J. O'REGAN LICENSE No 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

Concentrated Loads (lb)

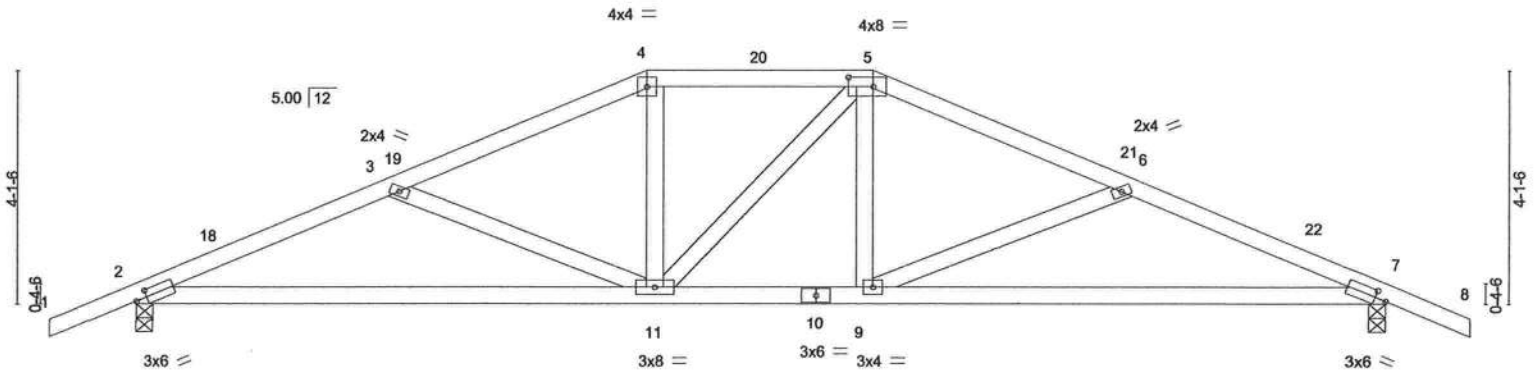
Vert: 4=-109(B) 6=-184(B) 12=-335(B) 11=-65(B) 5=-109(B) 10=-335(B) 17=-109(B) 18=-109(B) 19=-65(B) 20=-65(B)

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T02	Hip	1	1	T24688882
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:49 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-wl0Q7TugLI?Wv7EkuUYF1qXZrXeR16NlQO?z36yxuMW

-1-6-0	4-7-9	9-0-0	13-0-0	17-4-7	22-0-0	23-6-0
1-6-0	4-7-9	4-4-7	4-0-0	4-4-7	4-7-9	1-6-0

Scale = 1:40.7



9-0-0	13-0-0	22-0-0
9-0-0	4-0-0	9-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.15	9-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.33	9-17	>809	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 105 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-65(LC 13)
Max Uplift 2=-207(LC 12), 7=-207(LC 13)
Max Grav 2=895(LC 1), 7=895(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1621/399, 3-4=-1292/308, 4-5=-1154/310, 5-6=-1291/308, 6-7=-1621/399
BOT CHORD 2-11=-341/1480, 9-11=-182/1153, 7-9=-319/1480
WEBS 3-11=-366/179, 4-11=-30/315, 5-9=-32/315, 6-9=-366/180

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2E) 9-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 23-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=207, 7=207.

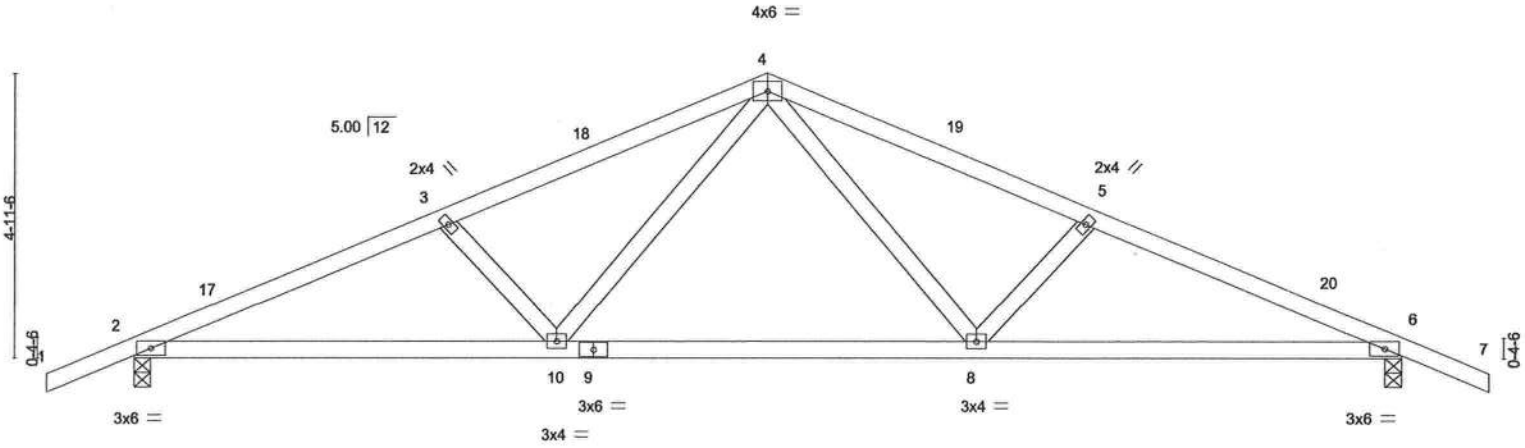
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T03	Common	6	1	T24688883
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:50 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-OUaoKovI627NXHpwSB3Ua24jMxyJmXKuf2kXbZyxuMV

-1-6-0	5-5-7	11-0-0	16-6-9	22-0-0	23-6-0
1-6-0	5-5-7	5-6-9	5-6-9	5-5-7	1-6-0

Scale = 1:40.1



7-4-4	14-7-12	22-0-0
7-4-4	7-3-8	7-4-4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.37	8-10	>718	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 99 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-3 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-77(LC 13)
Max Uplift 2=-244(LC 12), 6=-244(LC 13)
Max Grav 2=1041(LC 1), 6=1041(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2023/543, 3-4=-1831/511, 4-5=-1831/511, 5-6=-2023/543
BOT CHORD 2-10=-428/1825, 8-10=-235/1214, 6-8=-440/1825
WEBS 4-8=-172/692, 5-8=-303/176, 4-10=-172/692, 3-10=-303/176

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=244, 6=244.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-60(F=-40), 8-14=-20

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T04	Common	3	1	T24688884
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:51 2021 Page 1
ID:s0XDStwXuSCluakIU6Qqbvyxus?-sg8AY8wwtMFE9RO6?vak6FdpaKMLV?P2uiU47?yxuMU

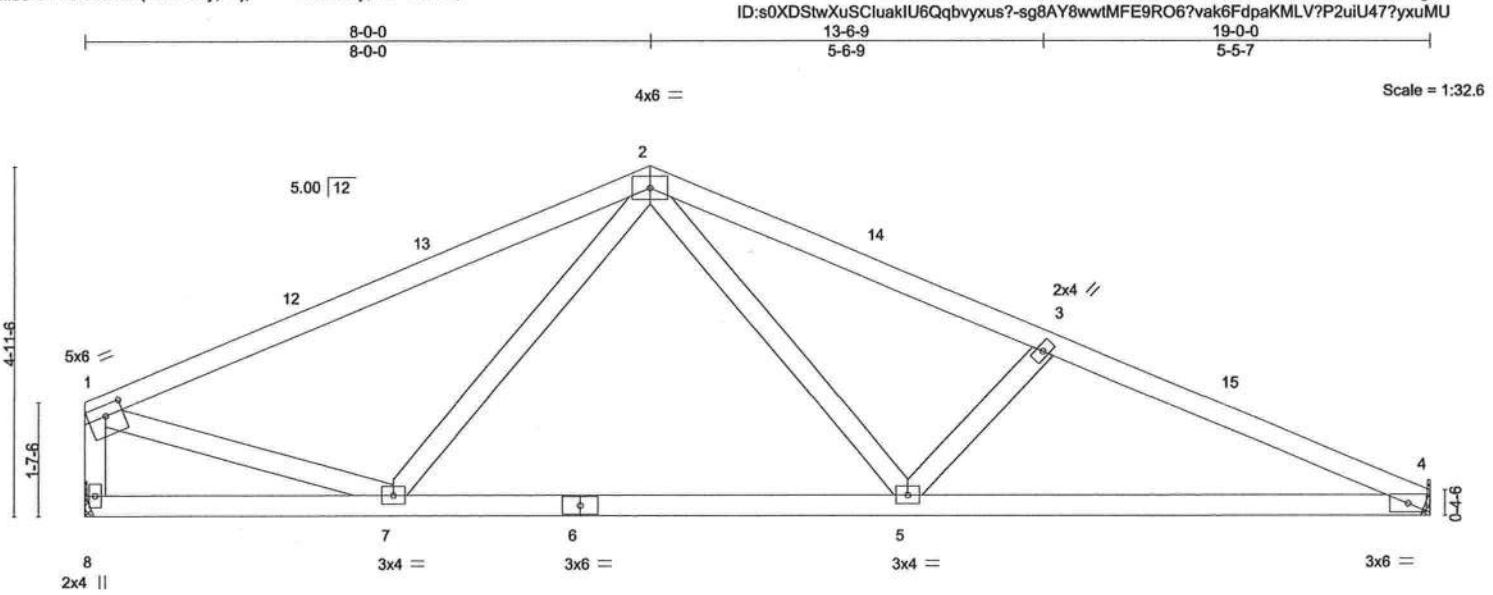


Plate Offsets (X,Y)-- [1:0-3-0,0-1-12]

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	0.82	Vert(LL)	-0.06	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.13	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 88 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 8=Mechanical
Max Horz 8=-94(LC 13)
Max Uplift 4=-155(LC 13), 8=-134(LC 12)
Max Grav 4=698(LC 1), 8=698(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-804/225, 2-3=-1159/362, 3-4=-1345/396, 1-8=-664/209
BOT CHORD 5-7=-140/708, 4-5=-321/1217
WEBS 2-5=-123/522, 3-5=-330/182, 1-7=-62/553

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 19-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=155, 8=134.

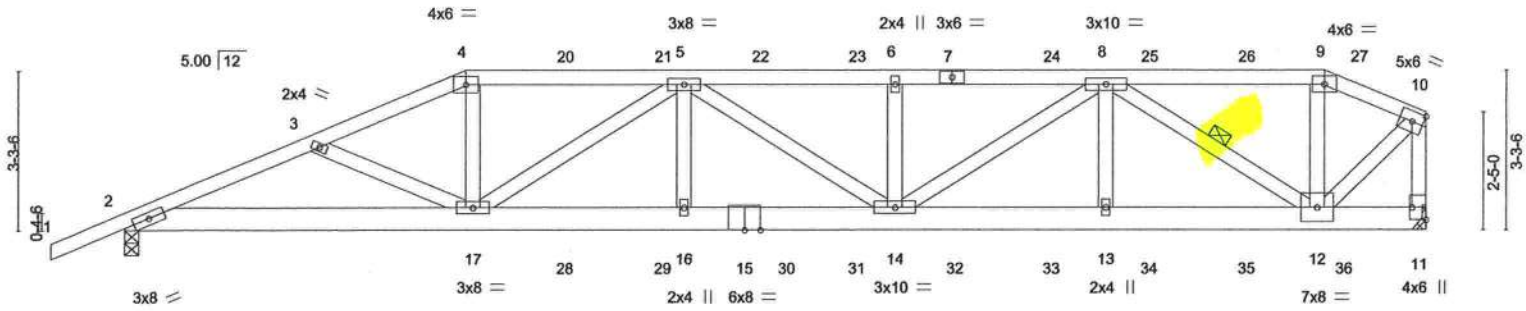
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	
2871649	T05	Hip Girder	1	1	Job Reference (optional)	T24688885

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:53 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-o3FxzqxBOzVyOlXV7JcCBgi8Y8yoznFLL0zBCuyxuMS

-1-6-0	3-11-15	7-0-0	11-5-14	15-10-0	20-2-2	24-8-0	26-8-14
1-6-0	3-11-15	3-0-1	4-5-14	4-4-2	4-4-2	4-5-14	2-0-14

Scale = 1:47.5



7-0-0	11-5-14	15-10-0	20-2-2	24-8-0	26-8-14
7-0-0	4-5-14	4-4-2	4-4-2	4-5-14	2-0-14

Plate Offsets (X,Y)-- [11: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	0.79	Vert(LL)	-0.25	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.47	14-16	>677	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 165 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-15 oc bracing.
WEBS 1 Row at midpt 8-12

REACTIONS. (size) 2=0-3-8, 11=Mechanical
Max Horz 2=103(LC 27)
Max Uplift 2=-459(LC 8), 11=-479(LC 5)
Max Grav 2=1954(LC 1), 11=2105(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4404/1011, 3-4=-4231/950, 4-5=-3948/907, 5-6=-4789/1116, 6-8=-4789/1116, 8-9=-1450/345, 9-10=-1577/365, 10-11=-2076/476
BOT CHORD 2-17=-978/4039, 16-17=-1126/4931, 14-16=-1126/4931, 13-14=-853/3684, 12-13=-853/3684
WEBS 4-17=-188/1245, 5-17=-1241/319, 5-16=0/351, 6-14=-443/213, 8-14=-316/1331, 8-13=0/367, 8-12=-2690/636, 9-12=0/335, 10-12=-455/2007

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=459, 11=479.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 82 lb up at 13-0-12, 109 lb down and 81 lb up at 15-0-12, 109 lb down and 82 lb up at 17-0-12, 109 lb down and 82 lb up at 19-0-12, 109 lb down and 82 lb up at 21-0-12, and 109 lb down and 82 lb up at 23-0-12, and 137 lb down and 82 lb up at 25-0-12 on top chord, and 335 lb down and 67 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, and 85 lb down at 23-0-12, and 85 lb down at 25-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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:
July 15,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

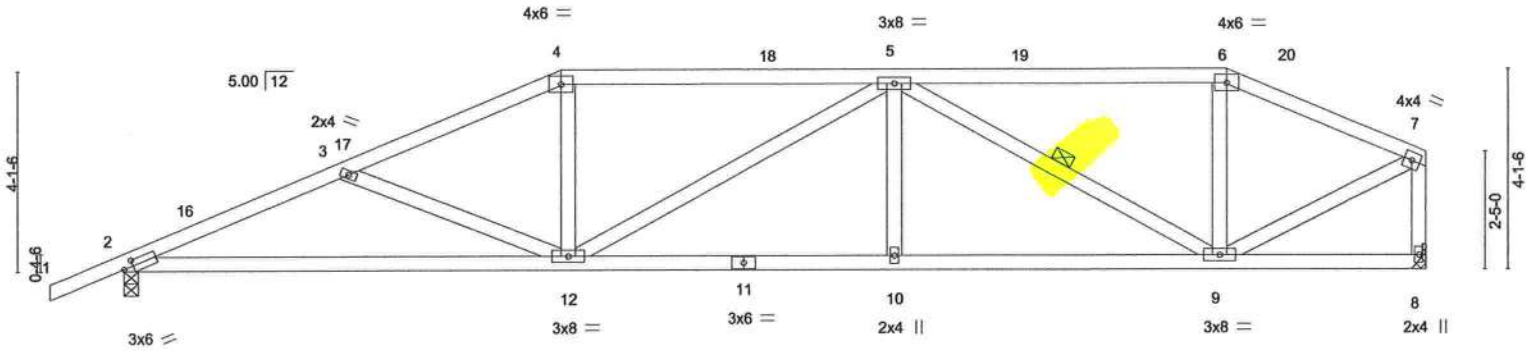
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-9=-54, 9-10=-54, 2-11=-20
   Concentrated Loads (lb)
   Vert: 4=-109(F) 7=-109(F) 17=-335(F) 20=-109(F) 21=-109(F) 22=-109(F) 23=-109(F) 24=-109(F) 25=-109(F) 26=-109(F) 27=-109(F) 28=-65(F) 29=-65(F) 30=-65(F) 31=-65(F) 32=-65(F) 33=-65(F) 34=-65(F) 35=-65(F) 36=-65(F)

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T06	Hip	1	1	T24688886
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:55 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-kSNhOWzRwbmge2htEkegH5nY7yg5RmedpKSIGmyxuMQ

-1-6-0	4-7-9	9-0-0	15-10-0	22-8-0	26-8-14
1-6-0	4-7-9	4-4-7	6-10-0	6-10-0	4-0-14

Scale = 1:47.5



9-0-0	15-10-0	22-8-0	26-8-14
9-0-0	6-10-0	6-10-0	4-0-14

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.15	12-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.32	12-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 138 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-3-0 oc bracing.
WEBS 1 Row at midpt 5-9

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=116(LC 12)
Max Uplift 2=-261(LC 12), 8=-215(LC 9)
Max Grav 2=1067(LC 1), 8=982(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2050/495, 3-4=-1743/391, 4-5=-1578/388, 5-6=-917/240, 6-7=-1026/243, 7-8=-953/222
BOT CHORD 2-12=-510/1871, 10-12=-414/1726, 9-10=-414/1726
WEBS 3-12=-333/166, 4-12=-30/425, 5-12=-296/105, 5-10=0/254, 5-9=-959/247, 7-9=-223/1014

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 22-8-0, Exterior(2E) 22-8-0 to 26-7-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=261, 8=215.

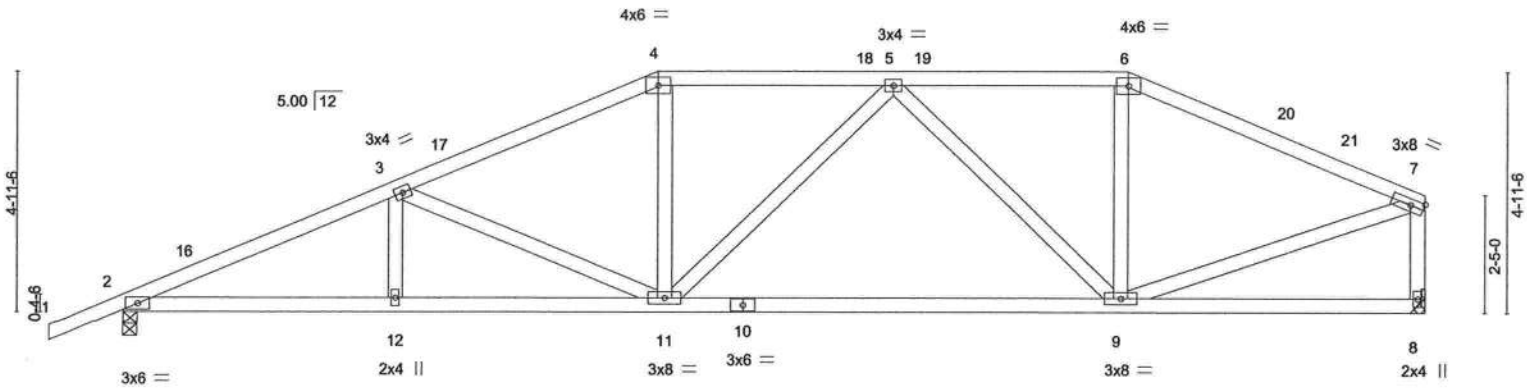
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T07	Hip	1	1	T24688887
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:56 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-Cex3bs_3huuXFCG4oSAvpJKkoL1LADCn1_BrpCyxuMP

-1-6-0	5-7-5	11-0-0	15-10-0	20-8-0	26-8-14
1-6-0	5-7-5	5-4-11	4-10-0	4-10-0	6-0-14

Scale = 1:47.5



5-7-5	11-0-0	20-8-0	26-8-14
5-7-5	5-4-11	9-8-0	6-0-14

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.18	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.39	9-11	>813	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 140 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=128(LC 12)
Max Uplift 2=-259(LC 12), 8=-193(LC 13)
Max Grav 2=1067(LC 1), 8=982(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2057/463, 3-4=-1565/348, 4-5=-1397/349, 5-6=-1028/259, 6-7=-1172/253, 7-8=-937/220
BOT CHORD 2-12=-488/1856, 11-12=-488/1856, 9-11=-296/1352
WEBS 3-11=-513/205, 4-11=-34/369, 5-9=-510/172, 6-9=-17/250, 7-9=-187/1032

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 20-8-0, Exterior(2R) 20-8-0 to 24-10-15, Interior(1) 24-10-15 to 26-7-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=259, 8=193.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

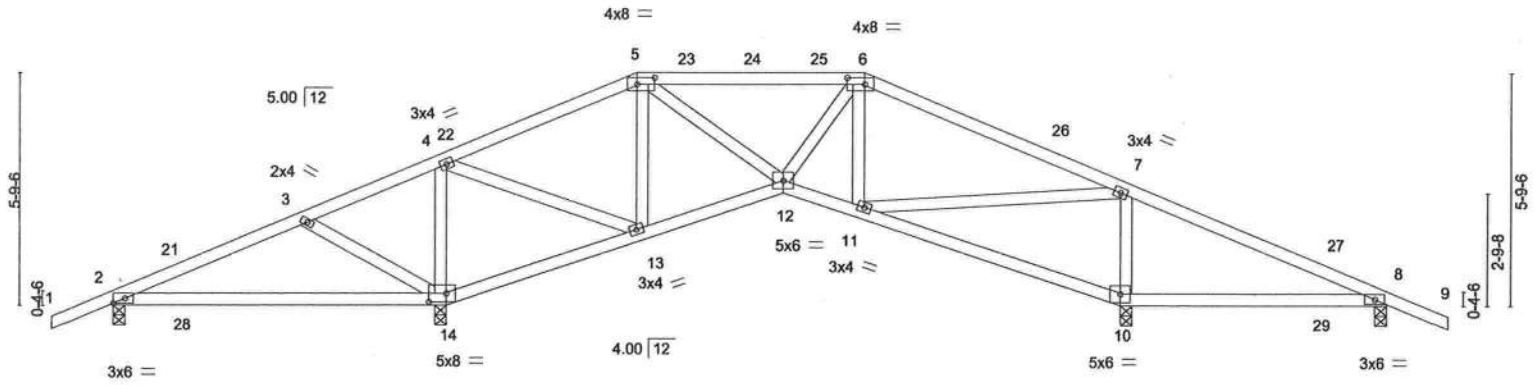
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T08	Hip	1	1	T24688888
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:57 2021 Page 1
ID:s0XDStwXuSCluakIU6Qqbvyxus?-hqVRoC_hSC0OtMrGM9h8MWtvtlQ8vi1wGexOLfyxuMO

-1-6-0	4-9-14	8-3-8	13-0-0	18-8-0	25-0-8	31-8-0	33-2-0
1-6-0	4-9-14	3-5-10	4-8-8	5-8-0	6-4-8	6-7-8	1-6-0

Scale = 1:57.4



8-1-12	8-3-8	13-0-0	16-8-0	18-8-0	25-0-8	25-2-4	31-8-0
8-1-12	0-1-12	4-8-8	3-8-0	2-0-0	6-4-8	0-1-12	6-5-12

Plate Offsets (X,Y)– [2:Edge,0-1-8], [5:0-5-4,0-2-0], [6:0-5-4,0-2-0], [14:0-5-4,0-2-8]

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	0.51	Vert(LL)	0.22	14-17	>459	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.23	14-17	>428	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 156 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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 0-3-8.
(lb) - Max Horz 2=90(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-132(LC 8), 14=-258(LC 12), 10=-204(LC 13), 8=-133(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 8 except 2=256(LC 23), 14=1123(LC 1), 10=907(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-67/397, 4-5=-364/121, 5-6=-558/156, 6-7=-636/152
BOT CHORD 13-14=-404/127, 12-13=0/302, 11-12=-6/532
WEBS 3-14=-306/226, 4-14=-720/201, 4-13=-80/698, 5-13=-368/96, 5-12=-39/362, 7-11=-25/657, 7-10=-716/217

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-0, Interior(1) 1-8-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-5-12, Interior(1) 17-5-12 to 18-8-0, Exterior(2R) 18-8-0 to 23-1-12, Interior(1) 23-1-12 to 33-2-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2, 258 lb uplift at joint 14, 204 lb uplift at joint 10 and 133 lb uplift at joint 8.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

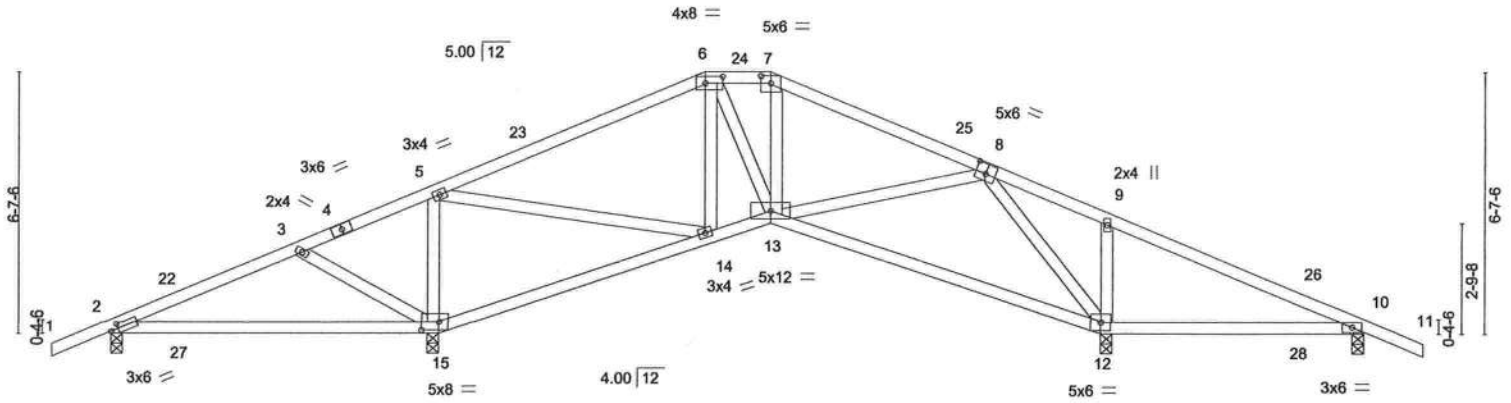
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T09	Hip	1	1	T24688889
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:58 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-913q0Y?JDW8FVWQSwtCNukP4V9k8e8k4Vlgyt5yxuMN

-1-6-0	4-9-14	8-3-8	15-0-0	16-8-0	22-1-0	25-0-8	31-8-0	33-2-0
1-6-0	4-9-14	3-5-10	6-8-8	1-8-0	5-5-0	2-11-8	6-7-8	1-6-0

Scale = 1:58.3



8-1-12	8-3-8	15-0-0	16-8-0	25-0-8	25-2-4	31-8-0
8-1-12	0-1-12	6-8-8	1-8-0	8-4-8	0-1-12	6-5-12

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [6:0-5-4,0-2-0], [7:0-3-0,0-2-4], [8:0-3-0,0-3-0], [15:0-5-4,0-2-8]

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	0.45	Vert(LL)	0.22	15-18	>443	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.35	12-13	>577	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 159 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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 0-3-8.
(lb) - Max Horz 2=102(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-143(LC 8), 15=-252(LC 12), 12=-202(LC 13), 10=-138(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 10 except 2=307(LC 23), 15=1035(LC 1), 12=962(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-569/132, 6-7=-536/159, 7-8=-641/142, 9-10=-20/253
BOT CHORD 13-14=0/474, 12-13=-58/274
WEBS 5-15=-697/223, 5-14=-43/667, 6-13=-28/275, 8-13=0/315, 8-12=-718/107, 9-12=-282/159

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-0, Interior(1) 1-8-0 to 15-0-0, Exterior(2E) 15-0-0 to 16-8-0, Exterior(2R) 16-8-0 to 21-1-12, Interior(1) 21-1-12 to 33-2-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 2, 252 lb uplift at joint 15, 202 lb uplift at joint 12 and 138 lb uplift at joint 10.

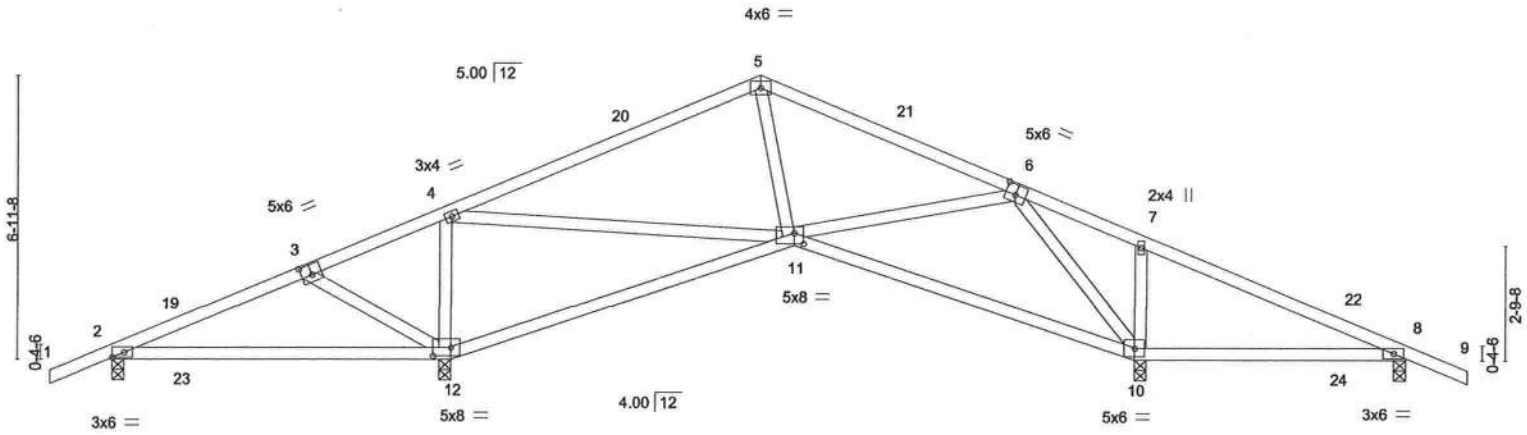
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T10	Roof Special	6	1	T24688890
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:21:59 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-dDdCDt0y_pG56g?fTajcRxyD7Z4wNaeDjyQVPXyxuMM

-1-6-0	4-9-14	8-3-8	15-10-0	22-1-0	25-0-8	31-8-0	33-2-0
1-6-0	4-9-14	3-5-10	7-6-8	6-3-0	2-11-8	6-7-8	1-6-0

Scale = 1:56.5



8-1-12	8-3-8	16-8-0	25-0-8	25-2-4	31-8-0
8-1-12	0-1-12	8-4-8	8-4-8	0-1-12	6-5-12

Plate Offsets (X,Y)-- [2:Edge,0-1-8], [3:0-3-0,0-3-0], [6:0-3-0,0-3-0], [11:0-2-12,0-3-4], [12:0-5-4,0-2-8]

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	0.59	Vert(LL)	0.23	12-15	>425	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	0.20	12-15	>501	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 152 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 10-11.

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=107(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-147(LC 8), 12=-247(LC 12), 10=-202(LC 13), 8=-140(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 8 except 2=324(LC 23), 12=1002(LC 1), 10=984(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-655/159, 5-6=-654/147, 6-7=0/250, 7-8=-19/278
BOT CHORD 10-11=-61/280
WEBS 4-12=-678/237, 4-11=-23/665, 6-11=0/335, 6-10=-761/123, 7-10=-273/156

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-0, Interior(1) 1-8-0 to 15-10-0, Exterior(2R) 15-10-0 to 19-0-0, Interior(1) 19-0-0 to 33-2-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2, 247 lb uplift at joint 12, 202 lb uplift at joint 10 and 140 lb uplift at joint 8.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

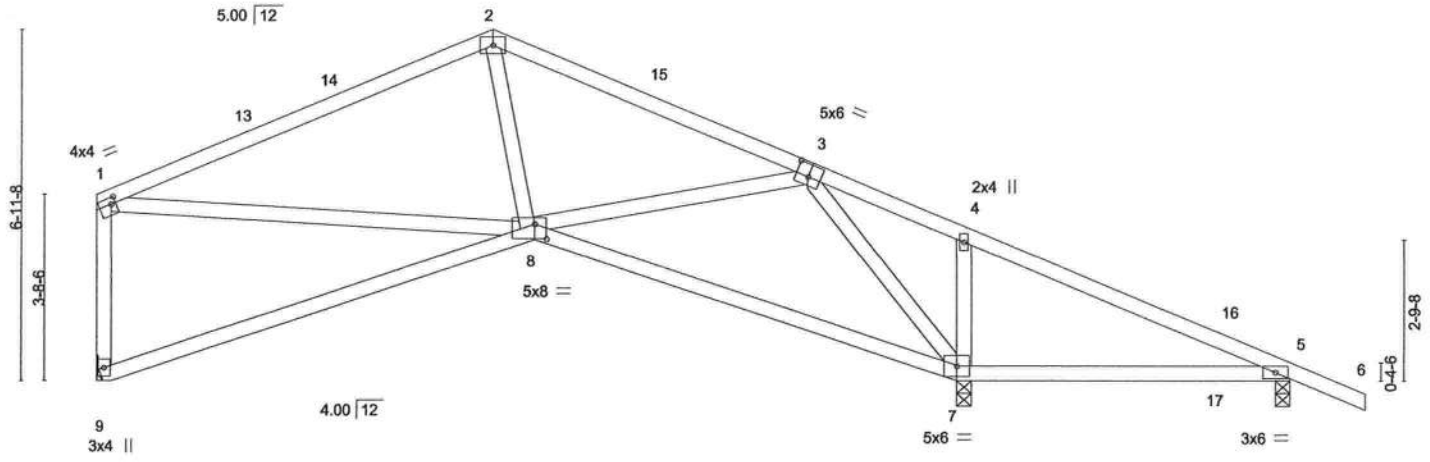
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688891
2871649	T11	Roof Special	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:00 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-5PAaRD1al7Oykqar1IEr_9VLkzQa61ENyc93y_yxuML

7-10-0	14-1-0	17-0-8	23-8-0	25-2-0
7-10-0	6-3-0	2-11-8	6-7-8	1-6-0

Scale = 1:45.8



8-8-0	17-0-8	17-2-4	23-8-0
8-8-0	8-4-8	0-1-12	6-5-12

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

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	0.79	Vert(LL)	0.14	7-12	>583	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.37	8-9	>546	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 119 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 7=0-3-8, 5=0-3-8
Max Horz 9=-183(LC 13)
Max Uplift 9=-121(LC 12), 7=-184(LC 13), 5=-141(LC 9)
Max Grav 9=574(LC 1), 7=1042(LC 1), 5=232(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-757/166, 2-3=-776/150, 3-4=0/266, 4-5=-22/295, 1-9=-509/153
BOT CHORD 7-8=-57/311
WEBS 2-8=0/304, 3-8=0/417, 3-7=-842/94, 4-7=-276/175, 1-8=-75/569

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior(1) 10-10-0 to 25-2-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 9, 184 lb uplift at joint 7 and 141 lb uplift at joint 5.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688892
2871649	T12	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:02 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-1olKsv2qHkegz7jD9iGJ3aapNm7yaxzfQve90syxuMJ

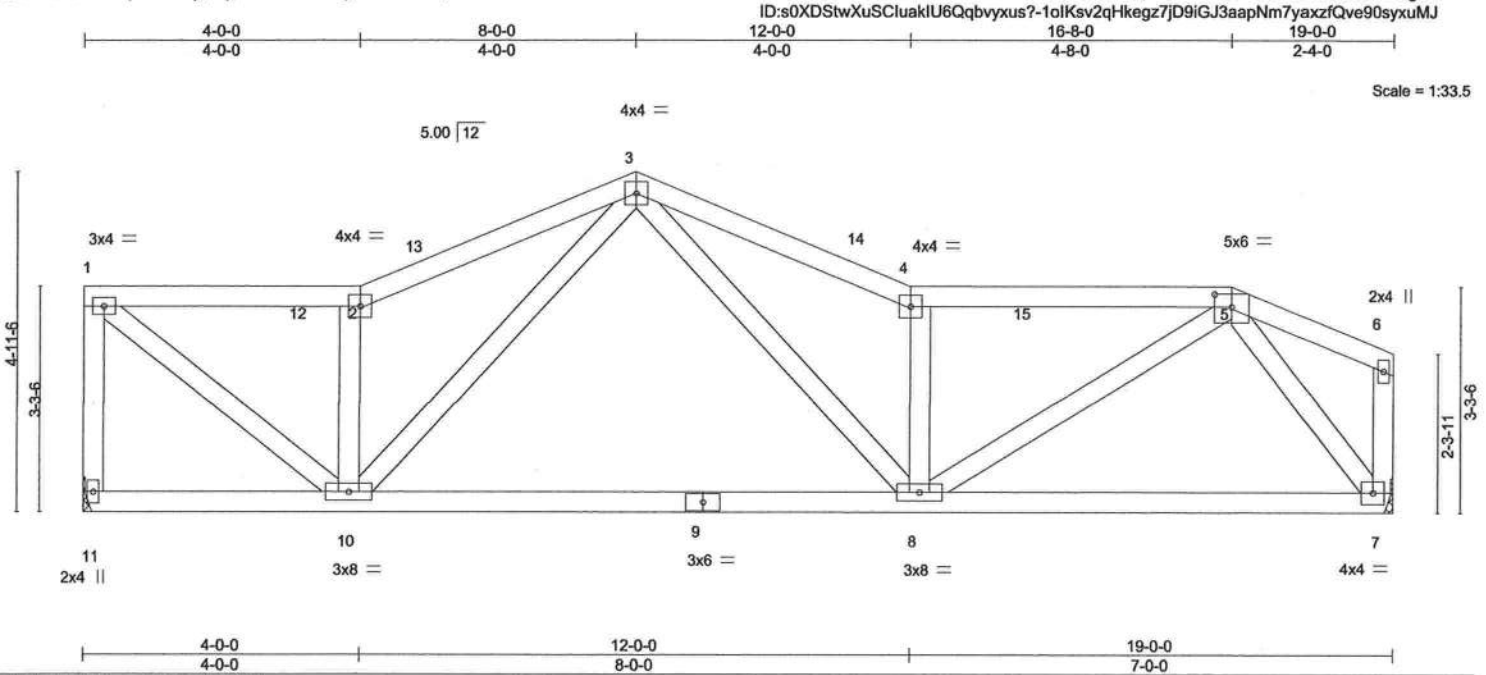


Plate Offsets (X,Y)-- [5:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.10	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.21	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 110 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=Mechanical
Max Horz 11=-56(LC 13)
Max Uplift 11=-138(LC 12), 7=-153(LC 13)
Max Grav 11=692(LC 1), 7=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-676/209, 1-2=-724/202, 2-3=-851/269, 3-4=-1204/386, 4-5=-1042/311
BOT CHORD 8-10=-180/674, 7-8=-144/449
WEBS 1-10=-252/915, 2-10=-522/210, 3-8=-163/614, 4-8=-677/260, 5-8=-159/710, 5-7=-727/246

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-8-0, Exterior(2E) 16-8-0 to 18-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 11 and 153 lb uplift at joint 7.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688893
2871649	T13	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:03 2021 Page 1
ID:s0XDStwXuSCluakIU6Qqbvyxus?-V_sj3F3S22mXbHIQiQoYbn7xXAS?JNkpeZOjZJyxuMI

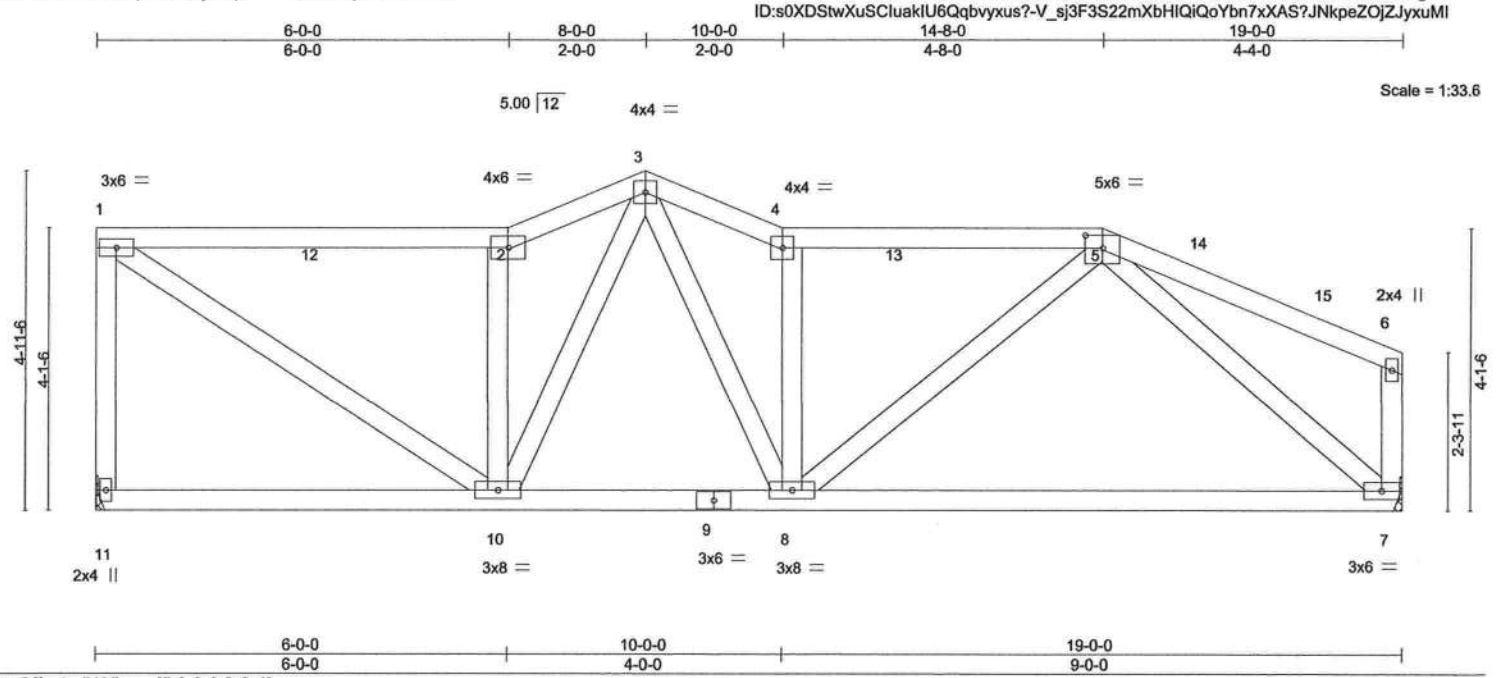


Plate Offsets (X,Y)-- [5:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.16	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.33	7-8	>684	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=Mechanical, 7=Mechanical
Max Horz 11=-73(LC 13)
Max Uplift 11=-143(LC 12), 7=-150(LC 13)
Max Grav 11=692(LC 1), 7=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-633/222, 1-2=-739/227, 2-3=-854/282, 3-4=-996/325, 4-5=-877/273
BOT CHORD 8-10=-154/686, 7-8=-172/578
WEBS 1-10=-264/855, 2-10=-556/227, 3-8=-152/508, 4-8=-556/217, 5-8=-49/391, 5-7=-710/229

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-0-0, Exterior(2E) 8-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 17-8-0, Interior(1) 17-8-0 to 18-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 11 and 150 lb uplift at joint 7.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

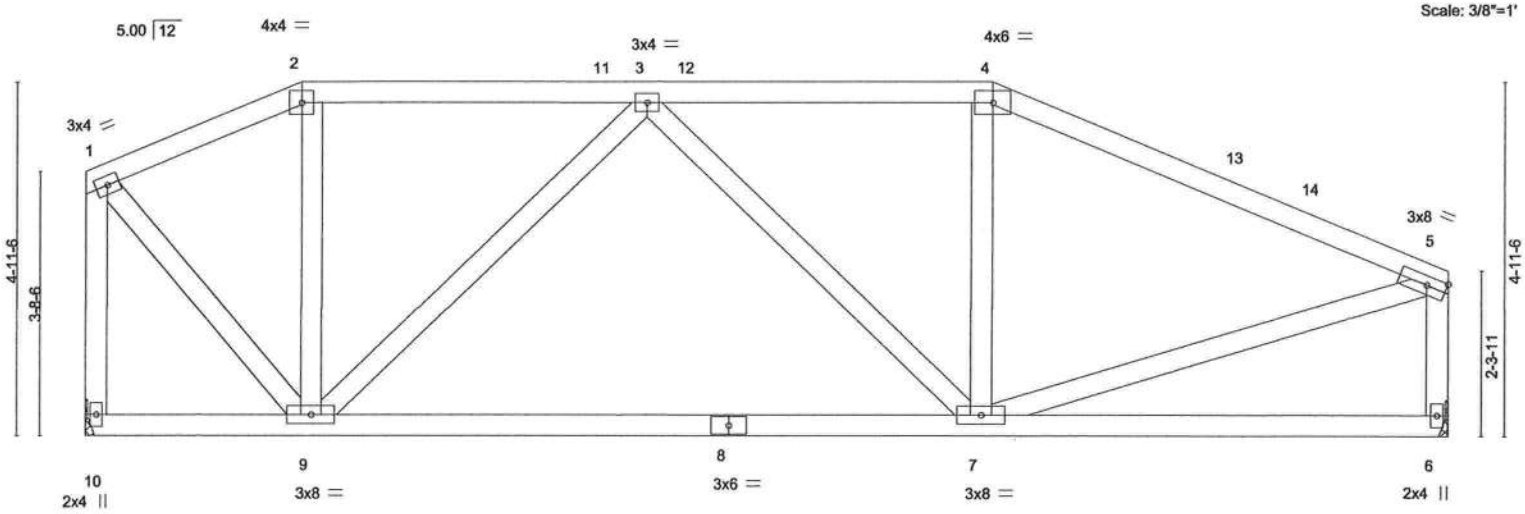
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688894
2871649	T14	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:04 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-zAQ5Gb44pMuODRtcG7Jn8?f6gamo2rfytD7G5lyxuMH

3-0-0 | 7-10-0 | 12-8-0 | 19-0-0
3-0-0 | 4-10-0 | 4-10-0 | 6-4-0

Scale: 3/8"=1'



3-0-0 | 12-8-0 | 19-0-0
3-0-0 | 9-8-0 | 6-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.15	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.31	7-9	>724	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 6=Mechanical
Max Horz 10=-66(LC 13)
Max Uplift 10=-154(LC 8), 6=-153(LC 13)
Max Grav 10=692(LC 1), 6=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-467/128, 2-3=-406/137, 3-4=-666/206, 4-5=-787/187, 1-10=-704/187, 5-6=-644/180
BOT CHORD 7-9=-150/678
WEBS 3-9=-398/146, 1-9=-138/618, 5-7=-101/638

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-0-0, Exterior(2R) 3-0-0 to 7-2-15, Interior(1) 7-2-15 to 12-8-0, Exterior(2R) 12-8-0 to 16-10-15, Interior(1) 16-10-15 to 18-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 10 and 153 lb uplift at joint 6.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T15	Hip	1	1	T24688895
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:05 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-SN_TUx5iaf0FqbSoqrq0hCCIw_7InIW66ttpdByxuMG

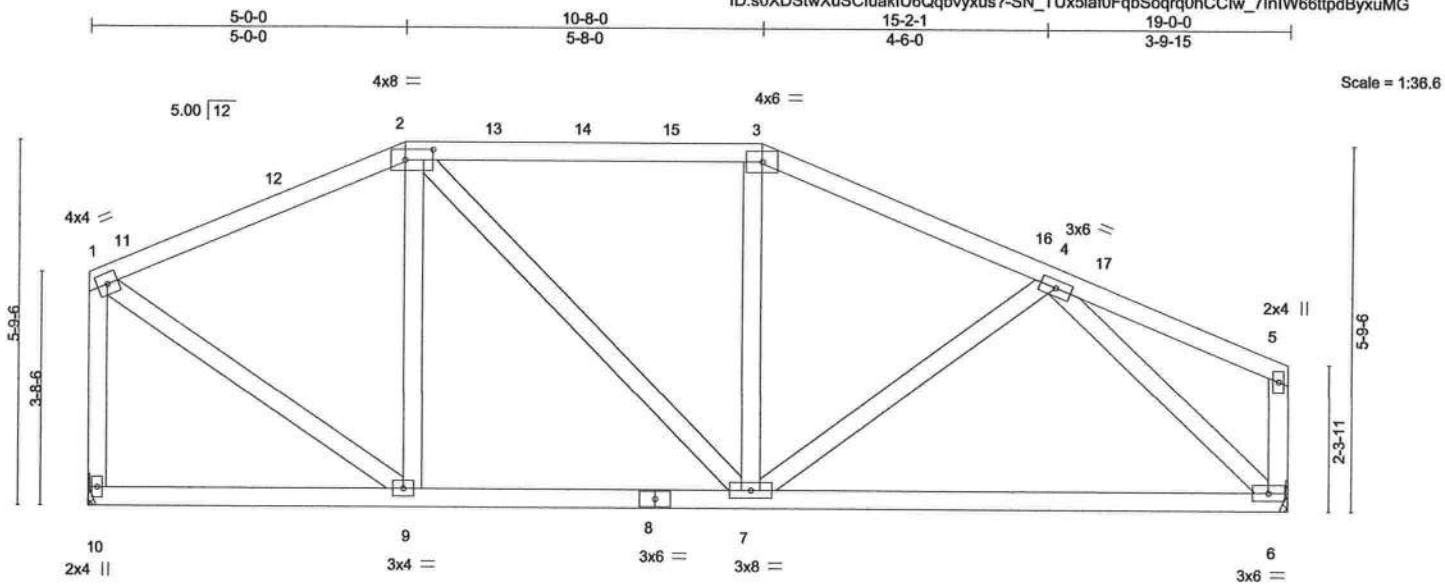


Plate Offsets (X,Y)-- [2:0-5-4,0-2-0]

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)	-0.13	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.26	6-7	>854	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 116 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) 10=Mechanical, 6=Mechanical
Max Horz 10=-78(LC 13)
Max Uplift 10=-136(LC 12), 6=-149(LC 13)
Max Grav 10=692(LC 1), 6=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-570/177, 2-3=-612/221, 3-4=-714/211, 1-10=-644/207
BOT CHORD 7-9=-80/476, 6-7=-151/560
WEBS 1-9=-139/563, 4-6=-733/221

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-0-0, Exterior(2R) 5-0-0 to 9-2-15, Interior(1) 9-2-15 to 10-8-0, Exterior(2R) 10-8-0 to 14-10-15, Interior(1) 14-10-15 to 18-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 10 and 149 lb uplift at joint 6.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688896
2871649	T16	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:06 2021 Page 1
ID:s0XDStwXuSCluakIU6Qqbvyxus?-wZYrhH5LLz86SI1?OYLFDQlQzNU8Wn_FKXcN9dyxuMF

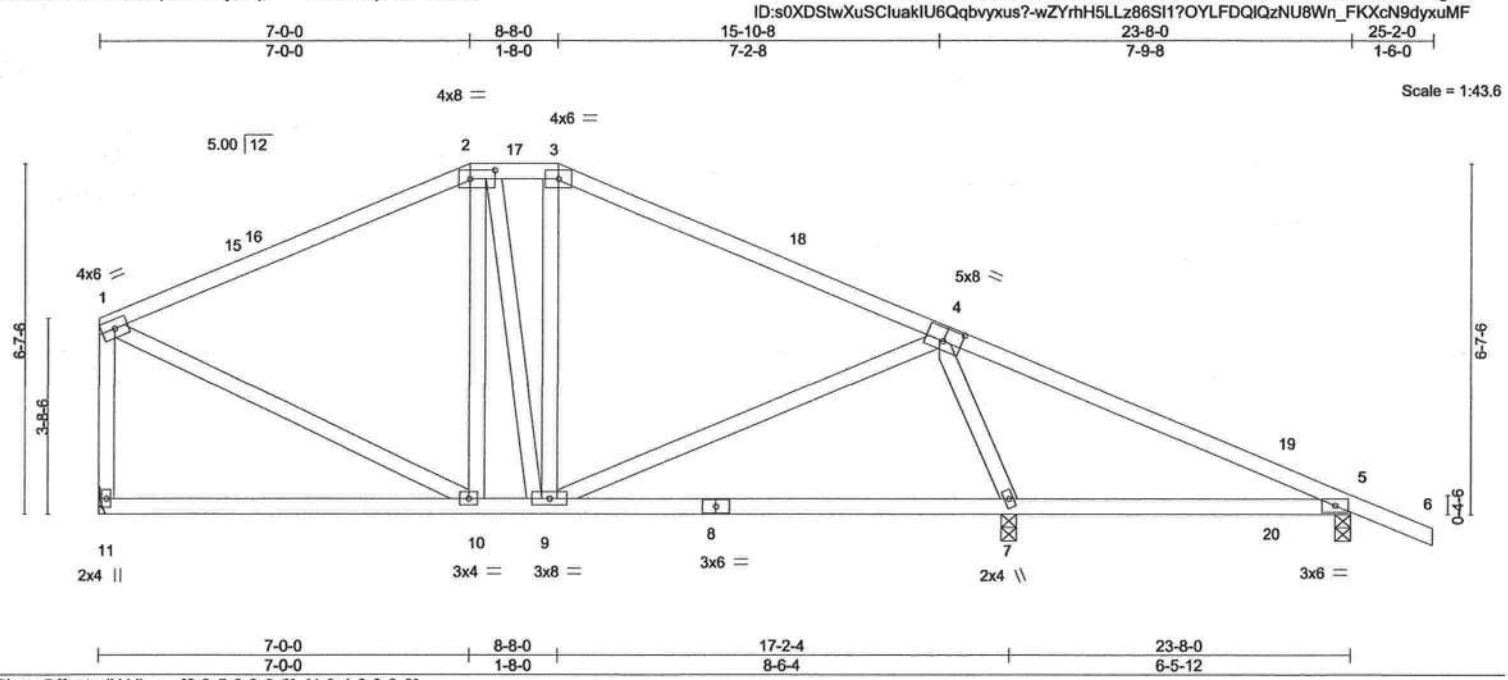


Plate Offsets (X,Y)-- [2:0-5-8,0-2-0], [4:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.11	7-14	>683	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.20	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 135 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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, Except: 6-0-0 oc bracing: 5-7.

REACTIONS. (size) 11=Mechanical, 7=0-3-8, 5=0-3-8
Max Horz 11=-178(LC 13)
Max Uplift 11=-129(LC 12), 7=-179(LC 13), 5=-141(LC 9)
Max Grav 11=620(LC 1), 7=908(LC 1), 5=298(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-538/160, 2-3=-439/174, 3-4=-564/156, 1-11=-555/174
BOT CHORD 9-10=-17/428, 7-9=-88/275
WEBS 4-7=-757/223, 1-10=-90/433

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-0-0, Exterior(2E) 7-0-0 to 8-8-0, Exterior(2R) 8-8-0 to 12-10-15, Interior(1) 12-10-15 to 25-2-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 11, 179 lb uplift at joint 7 and 141 lb uplift at joint 5.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

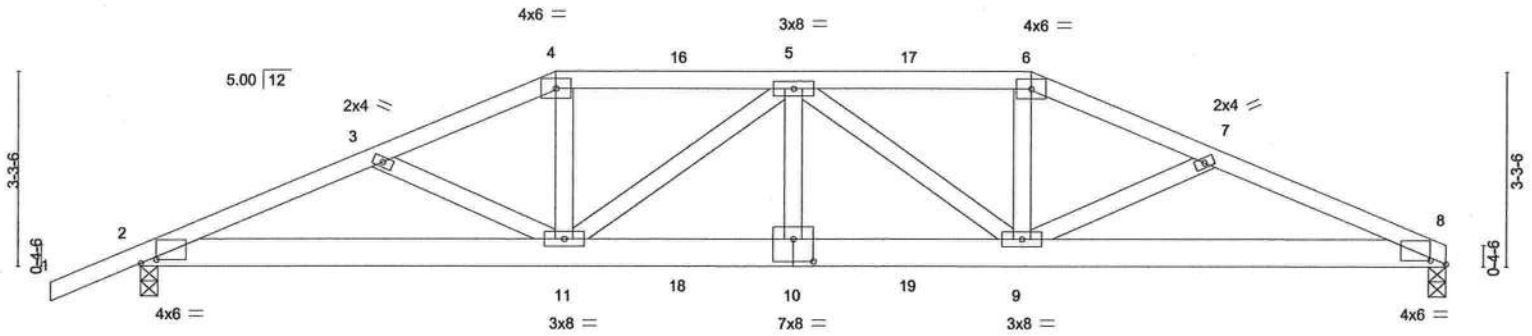
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688897
2871649	T17	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:08 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-syfc6y7bsaOqh2BNVzNjlrqo7B6q_fEYor5UEWyxuMD

-1-6-0	4-0-15	7-0-0	11-0-0	15-0-0	17-11-1	22-0-0
1-6-0	4-0-15	2-11-1	4-0-0	4-0-0	2-11-1	4-0-15

Scale = 1:38.9



7-0-0	11-0-0	15-0-0	22-0-0
7-0-0	4-0-0	4-0-0	7-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.16	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.29	10	>898	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=62(LC 31)
Max Uplift 8=-355(LC 9), 2=-382(LC 8)
Max Grav 8=1567(LC 1), 2=1626(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3560/813, 3-4=-3375/750, 4-5=-3141/717, 5-6=-3214/737, 6-7=-3456/773, 7-8=-3649/841
BOT CHORD 2-11=-754/3264, 10-11=-768/3620, 9-10=-768/3620, 8-9=-737/3348
WEBS 4-11=-130/953, 5-11=-665/200, 5-10=0/271, 5-9=-568/149, 6-9=-103/912

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 8 and 382 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 75 lb up at 11-0-0, and 109 lb down and 82 lb up at 12-11-4, and 231 lb down and 161 lb up at 15-0-0 on top chord, and 335 lb down and 67 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-0, and 85 lb down at 12-11-4, and 335 lb down and 67 lb up at 14-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-8=-54, 2-8=-20

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Continued on page 2

LOAD CASE(S) Standard

Concentrated Loads (lb)

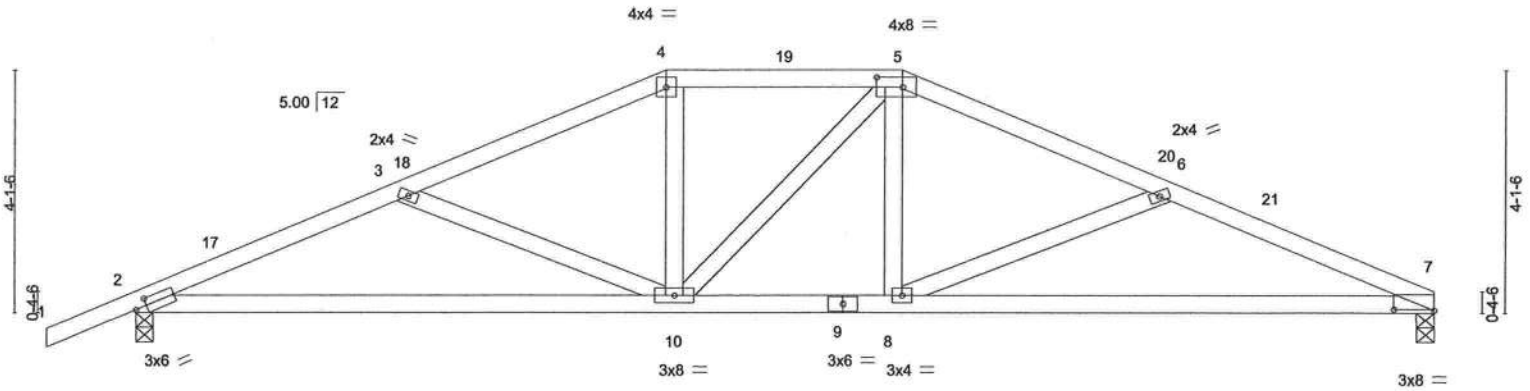
Vert: 4=-109(F) 6=-184(F) 11=-335(F) 10=-65(F) 5=-109(F) 9=-335(F) 16=-109(F) 17=-109(F) 18=-65(F) 19=-65(F)

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T18	Hip	1	1	T24688898
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:09 2021 Page 1
ID:s0XDStwXuSCluakIU6Qqbvyxus?-K8D_KI8DduWhJCma3gvyr2MyUbT2j9Bh1Vr1myyxuMC

-1-6-0	4-7-9	9-0-0	13-0-0	17-4-7	22-0-0
1-6-0	4-7-9	4-4-7	4-0-0	4-4-7	4-7-9

Scale = 1:39.2



9-0-0	13-0-0	22-0-0
9-0-0	4-0-0	9-0-0

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.15	8-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.33	8-13	>800	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 103 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-15 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=74(LC 12)
Max Uplift 7=-174(LC 13), 2=-207(LC 12)
Max Grav 7=811(LC 1), 2=898(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1628/409, 3-4=-1299/318, 4-5=-1160/320, 5-6=-1304/316, 6-7=-1646/406
BOT CHORD 2-10=-351/1486, 8-10=-199/1164, 7-8=-341/1507
WEBS 3-10=-366/179, 4-10=-31/316, 5-8=-37/318, 6-8=-385/188

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2E) 9-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 22-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 7 and 207 lb uplift at joint 2.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

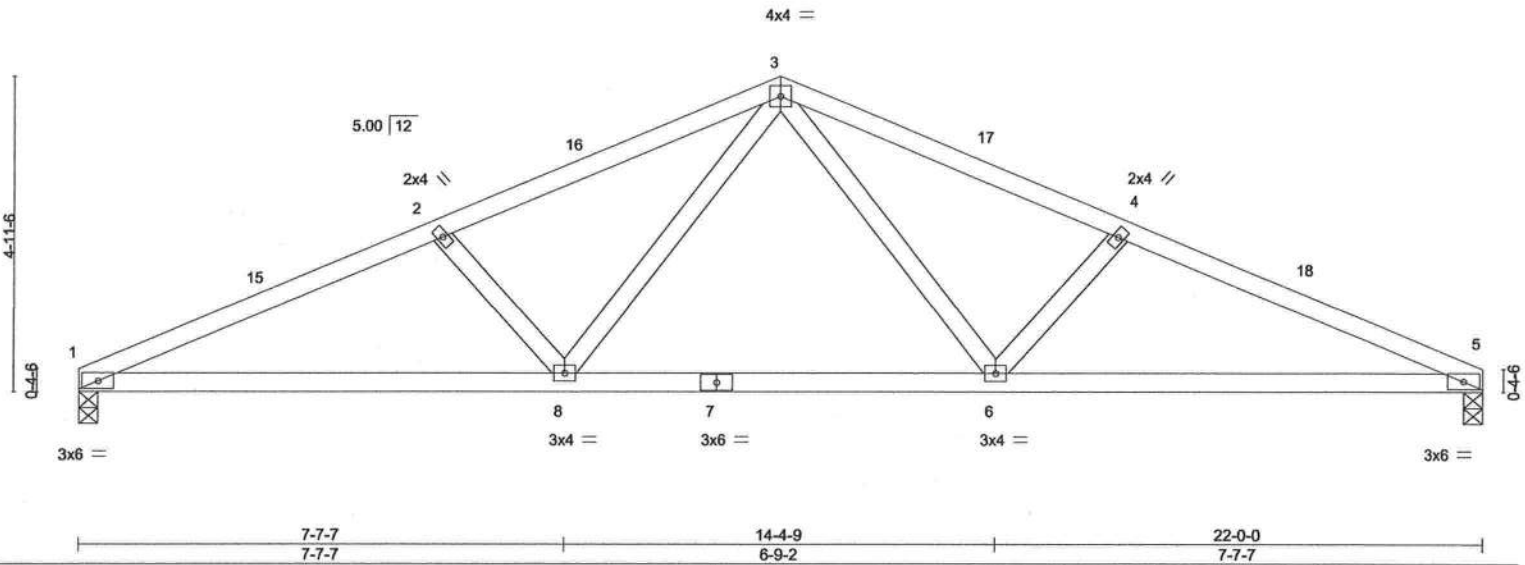
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688899
2871649	T19	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:10 2021 Page 1
ID:s0XDStwXuSCluakIU6Qqbvyxus?-oKnMXe8rOCfYxMKmdOQBNGv9K?qbScPrF9aaIPyxuMB

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

Scale = 1:36.2



7-7-7	14-4-9	22-0-0
7-7-7	6-9-2	7-7-7

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	0.33	Vert(LL)	-0.08	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.18	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 94 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-8 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-68(LC 13)
Max Uplift 1=-172(LC 12), 5=-172(LC 13)
Max Grav 1=814(LC 1), 5=814(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1619/429, 2-3=-1429/398, 3-4=-1429/398, 4-5=-1619/429
BOT CHORD 1-8=-354/1468, 6-8=-184/973, 5-6=-350/1468
WEBS 3-6=-127/504, 4-6=-331/183, 3-8=-127/504, 2-8=-331/183

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 1 and 172 lb uplift at joint 5.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

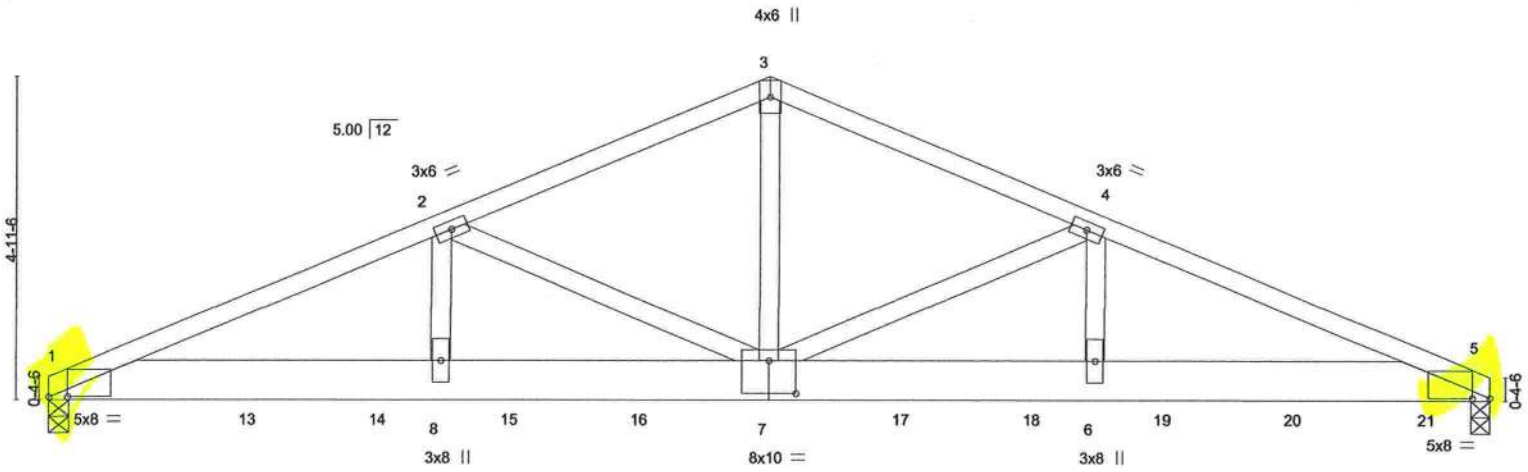
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T20	Common Girder	1	2	T24688900
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:12 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-kjv6yKA5wpvFAgU8kpSfTh_S?oZywMC8jT3hNHyxuM9

5-11-15 | 11-0-0 | 16-0-1 | 22-0-0
5-11-15 | 5-0-1 | 5-0-1 | 5-11-15

Scale = 1:35.3



5-11-15 | 11-0-0 | 16-0-1 | 22-0-0
5-11-15 | 5-0-1 | 5-0-1 | 5-11-15

Plate Offsets (X,Y)— [1:0-3-4,0-0-0], [5:0-3-4,0-0-0], [7:0-5-0,0-6-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.14	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.26	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 261 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=67(LC 27)
Max Uplift 1=-946(LC 8), 5=-923(LC 9)
Max Grav 1=4419(LC 1), 5=4175(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-8671/1865, 2-3=-5952/1297, 3-4=-5952/1298, 4-5=-8270/1808
BOT CHORD 1-8=-1735/7975, 7-8=-1735/7975, 6-7=-1615/7603, 5-6=-1615/7603
WEBS 3-7=-898/4264, 4-7=-2409/621, 4-6=-331/1666, 2-7=-2822/678, 2-8=-377/1992

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: 2x8 - 2 rows staggered at 0-7-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 946 lb uplift at joint 1 and 923 lb uplift at joint 5.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 678 lb down and 153 lb up at 1-0-12, 678 lb down and 154 lb up at 3-0-12, 678 lb down and 154 lb up at 5-0-12, 672 lb down and 158 lb up at 7-0-12, 672 lb down and 163 lb up at 9-0-12, 672 lb down and 174 lb up at 11-0-12, 672 lb down and 156 lb up at 13-0-12, 600 lb down and 149 lb up at 15-0-12, 554 lb down and 141 lb up at 17-0-12, and 554 lb down and 141 lb up at 19-0-12, and 556 lb down and 139 lb up at 21-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Continued on page 2

LOAD CASE(S) Standard

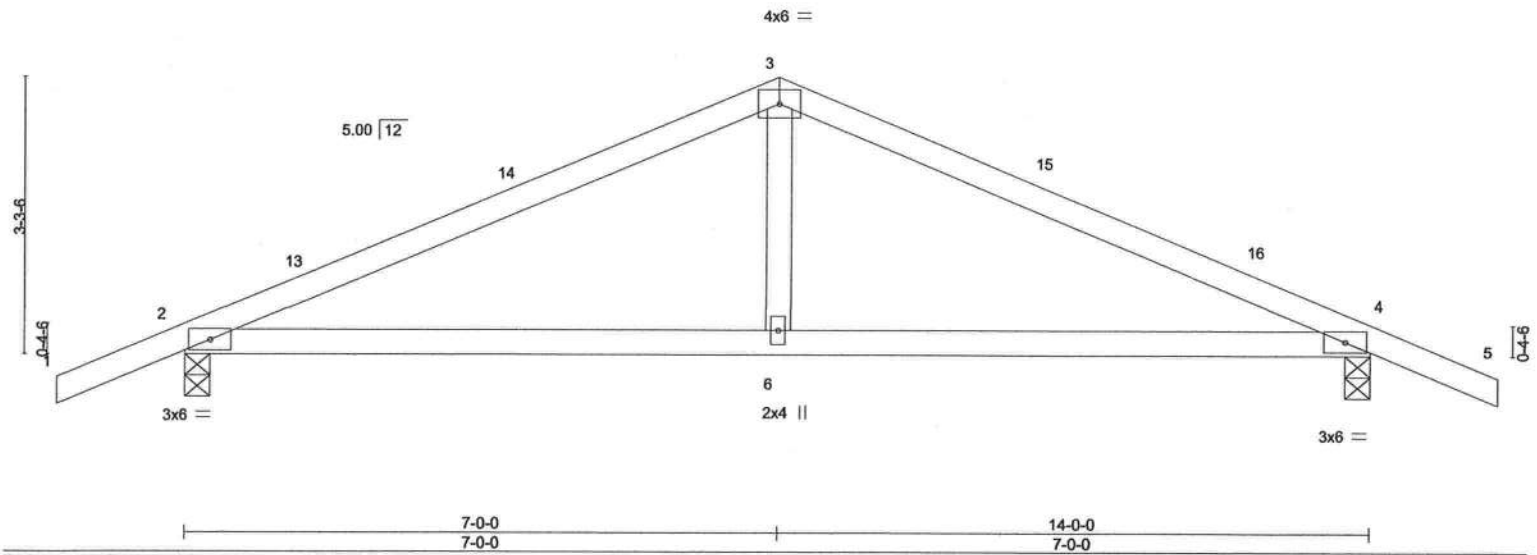
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 1-5=-20
   Concentrated Loads (lb)
   Vert: 7=-672(B) 10=-678(B) 13=-678(B) 14=-678(B) 15=-672(B) 16=-672(B) 17=-672(B) 18=-600(B) 19=-554(B) 20=-554(B) 21=-556(B)

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T21	Common	2	1	T24688901
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:13 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-DvTV9gBkh716op3LlWzu?uXdYCuKf_FHx7pFvjyxuM8

-1-6-0 | 7-0-0 | 14-0-0 | 15-6-0
1-6-0 | 7-0-0 | 7-0-0 | 1-6-0

Scale = 1:27.3



7-0-0 | 14-0-0
7-0-0 | 7-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.07	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.13	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 53 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-53(LC 17)
Max Uplift 2=-142(LC 12), 4=-142(LC 13)
Max Grav 2=599(LC 1), 4=599(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-808/288, 3-4=-808/288
BOT CHORD 2-6=-161/688, 4-6=-161/688
WEBS 3-6=0/317

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 15-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 2 and 142 lb uplift at joint 4.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

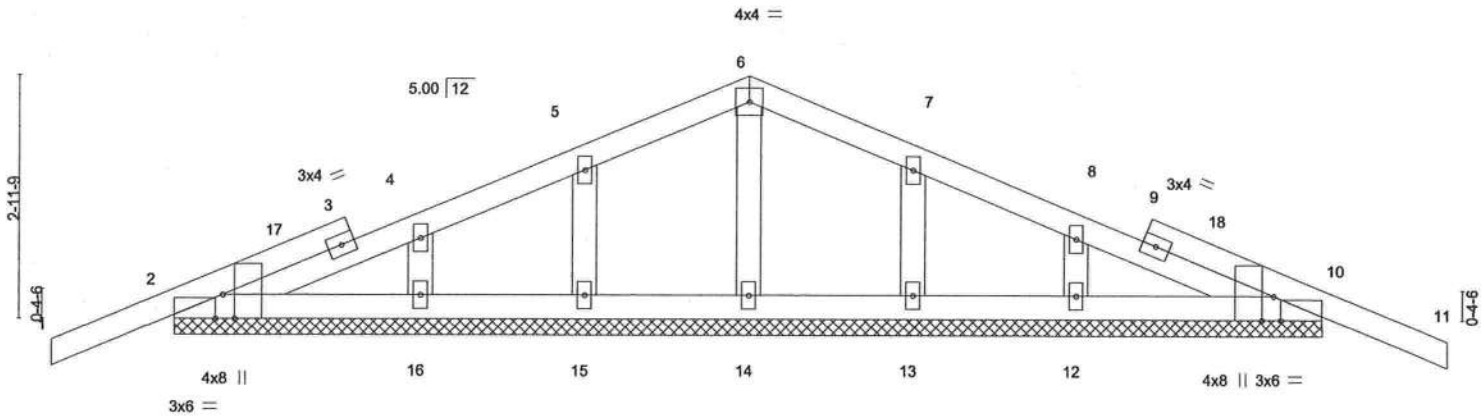
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	
2871649	T21G	Common Supported Gable	1	1	Job Reference (optional)	T24688902

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:14 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-h61tN0CMSQ9zPzeXsEU7Y64vYcLgOStQAnYoRAyxuM7

-1-6-0 | 7-0-0 | 14-0-0 | 15-6-0
1-6-0 | 7-0-0 | 7-0-0 | 1-6-0

Scale = 1:28.1



14-0-0
14-0-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-1-1,Edge], [10:0-3-8,Edge], [10:0-1-1,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	0.13	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 64 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 14-0-0.
(lb) - Max Horz 2=-48(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 7-0-0, Corner(3R) 7-0-0 to 10-0-0, Exterior(2N) 10-0-0 to 15-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.

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

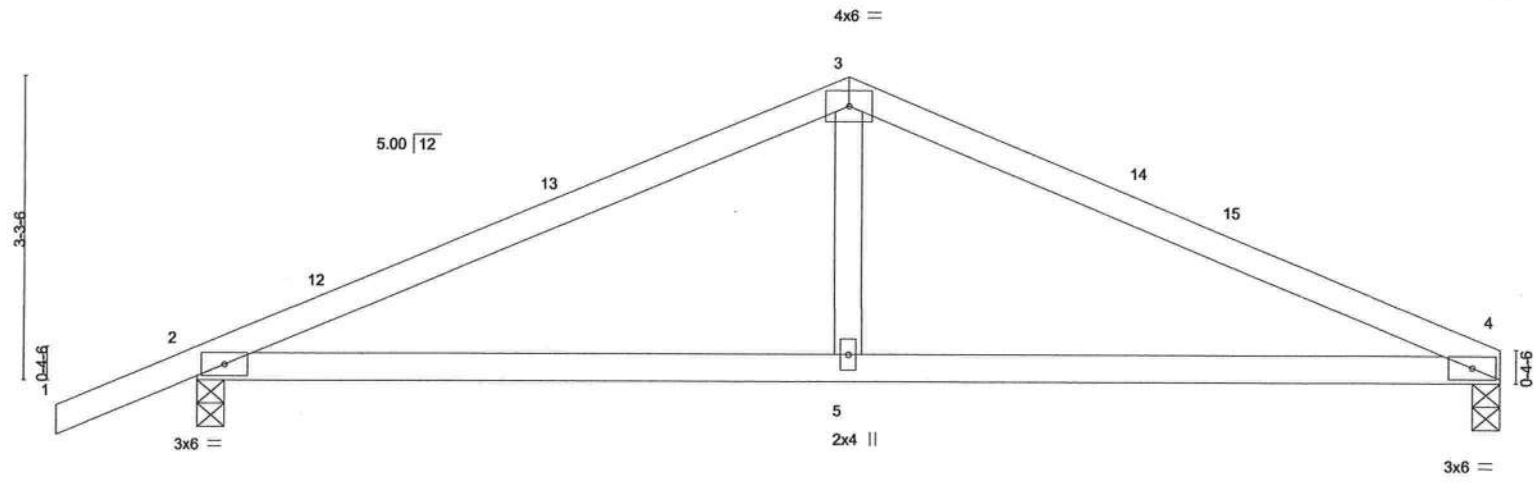
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T22	Common	2	1	T24688903
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:15 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-9laFaMC_DkHq17DjPx?M4JczY0Zi7ukaPRIL_cyxuM6

-1-6-0 / 1-6-0 | 7-0-0 / 7-0-0 | 14-0-0 / 7-0-0

Scale = 1:24.8



7-0-0 / 7-0-0 | 14-0-0 / 7-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.09	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.15	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=0-3-8
Max Horz 2=62(LC 12)
Max Uplift 4=-109(LC 13), 2=-143(LC 12)
Max Grav 4=514(LC 1), 2=603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-824/298, 3-4=-822/307
BOT CHORD 2-5=-210/702, 4-5=-210/702
WEBS 3-5=-6/319

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=109, 2=143.

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

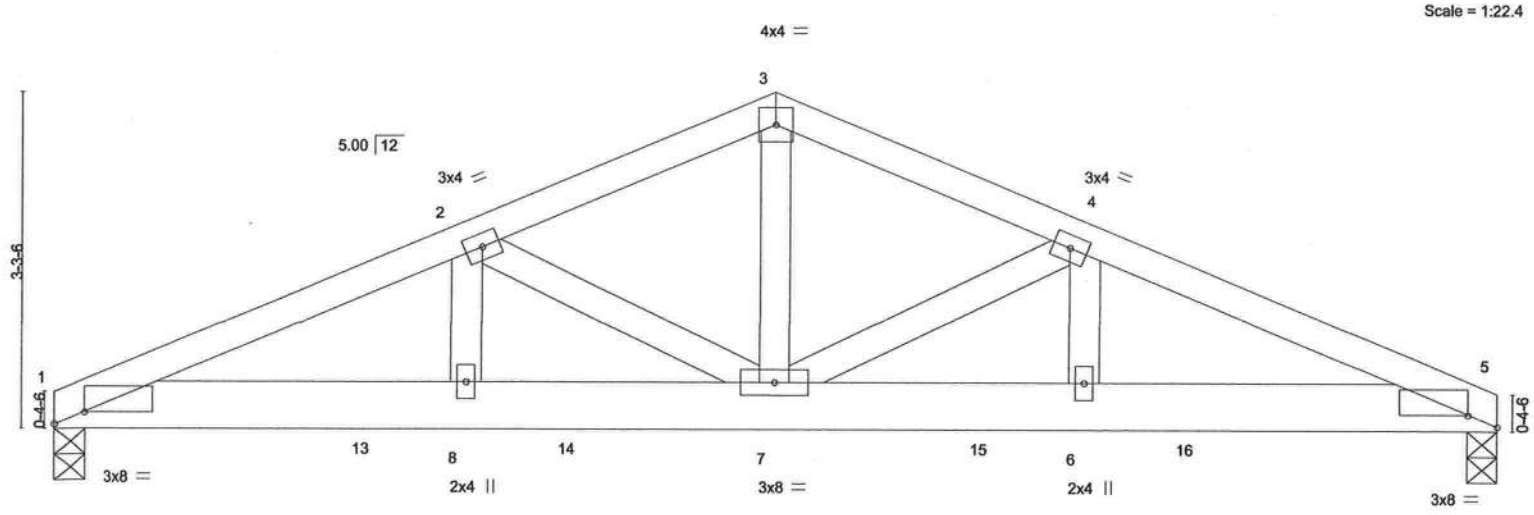
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA
2871649	T23	Common Girder	1	2	T24688904
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:16 2021 Page 1
ID:s0XDStwXuSCIuaklU6Qqbvyxus?-dU8dohDc_2PhfHowzfXbdX9C3Ps3sEUje51vW2yxuM5

3-11-15	7-0-0	10-0-1	14-0-0
3-11-15	3-0-1	3-0-1	3-11-15

Scale = 1:22.4



3-11-15	7-0-0	10-0-1	14-0-0
3-11-15	3-0-1	3-0-1	3-11-15

Plate Offsets (X,Y)-- [1:0-3-7,0-1-6], [5:0-3-7,0-1-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.07	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.13	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 144 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-43(LC 9)
Max Uplift 1=-667(LC 8), 5=-665(LC 9)
Max Grav 1=2871(LC 1), 5=2887(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5544/1280, 2-3=-3927/908, 3-4=-3927/908, 4-5=-5544/1275
BOT CHORD 1-8=-1190/5112, 7-8=-1190/5112, 6-7=-1142/5114, 5-6=-1142/5114
WEBS 3-7=-635/2820, 4-7=-1729/451, 4-6=-266/1249, 2-7=-1727/455, 2-8=-270/1252

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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) except (jt=lb) 1=667, 5=665.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 678 lb down and 175 lb up at 1-0-12, 678 lb down and 175 lb up at 3-0-12, 678 lb down and 175 lb up at 5-0-12, 672 lb down and 173 lb up at 7-0-12, 672 lb down and 170 lb up at 9-0-12, and 672 lb down and 173 lb up at 11-0-12, and 673 lb down and 169 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Continued on page 2

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 1-5=-20

Concentrated Loads (lb)

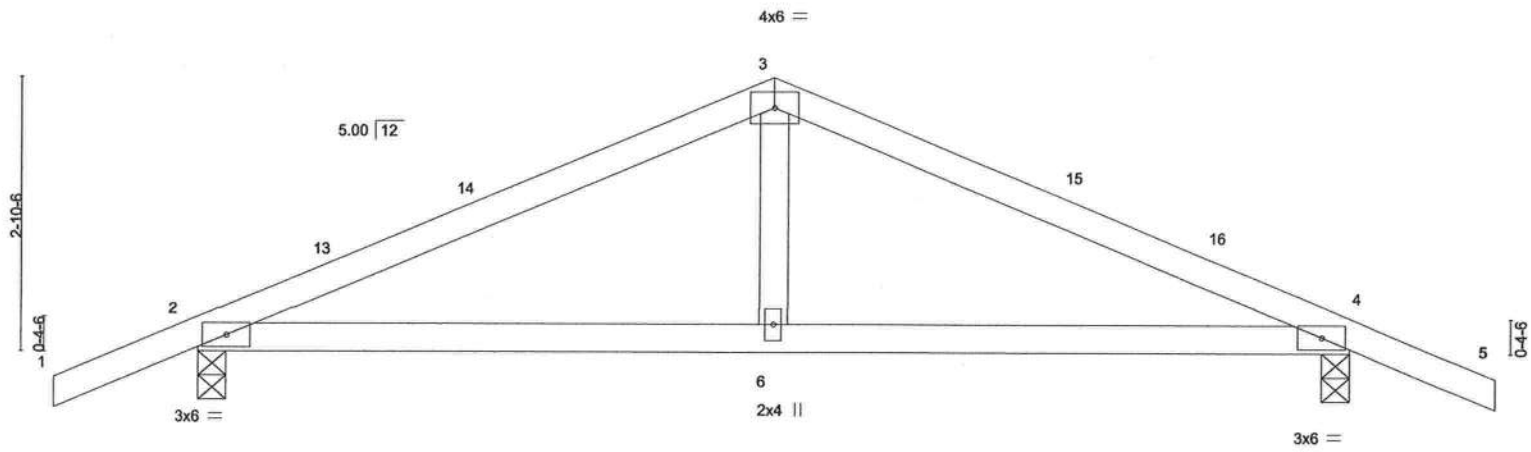
Vert: 7=-672(F) 10=-678(F) 12=-673(F) 13=-678(F) 14=-678(F) 15=-672(F) 16=-672(F)

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688905
2871649	T24	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:17 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-5hi??1EEILXYGRN6XM2qAkiMEpHKboXtslnS2VyxuM4

-1-6-0 | 6-0-0 | 12-0-0 | 13-6-0
1-6-0 | 6-0-0 | 6-0-0 | 1-6-0

Scale: 1/2"=1'



6-0-0 | 12-0-0
6-0-0 | 6-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.04	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.07	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=46(LC 12)
Max Uplift 2=-127(LC 12), 4=-127(LC 13)
Max Grav 2=525(LC 1), 4=525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-679/270, 3-4=-679/270
BOT CHORD 2-6=-148/577, 4-6=-148/577
WEBS 3-6=0/268

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 4=127.

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

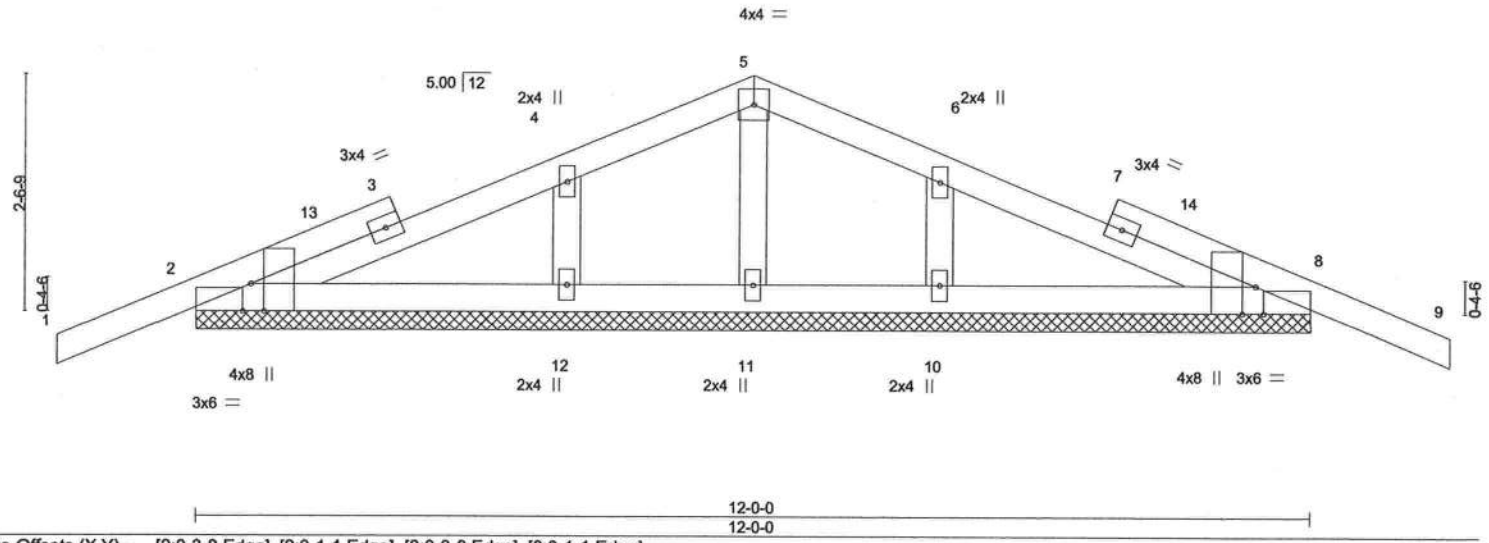
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	
2871649	T24G	Common Supported Gable	1	1	Job Reference (optional)	T24688906

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:18 2021 Page 1
ID:s0XDStwXuSCluaklU6Qqbvyxus?-ZtGODNFsWffPubyl53Z3iyEaUDhrKGZ05PW0axyxuM3

-1-6-0 | 6-0-0 | 12-0-0 | 13-6-0
1-6-0 | 6-0-0 | 6-0-0 | 1-6-0

Scale = 1:24.8



12-0-0
12-0-0

Plate Offsets (X,Y)— [2:0-3-8,Edge], [2:0-1-1,Edge], [8:0-3-8,Edge], [8:0-1-1,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	0.13	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 54 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=42(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11 except 12=266(LC 23), 10=266(LC 24)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 13-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) 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, 8, 11, 12, 10.

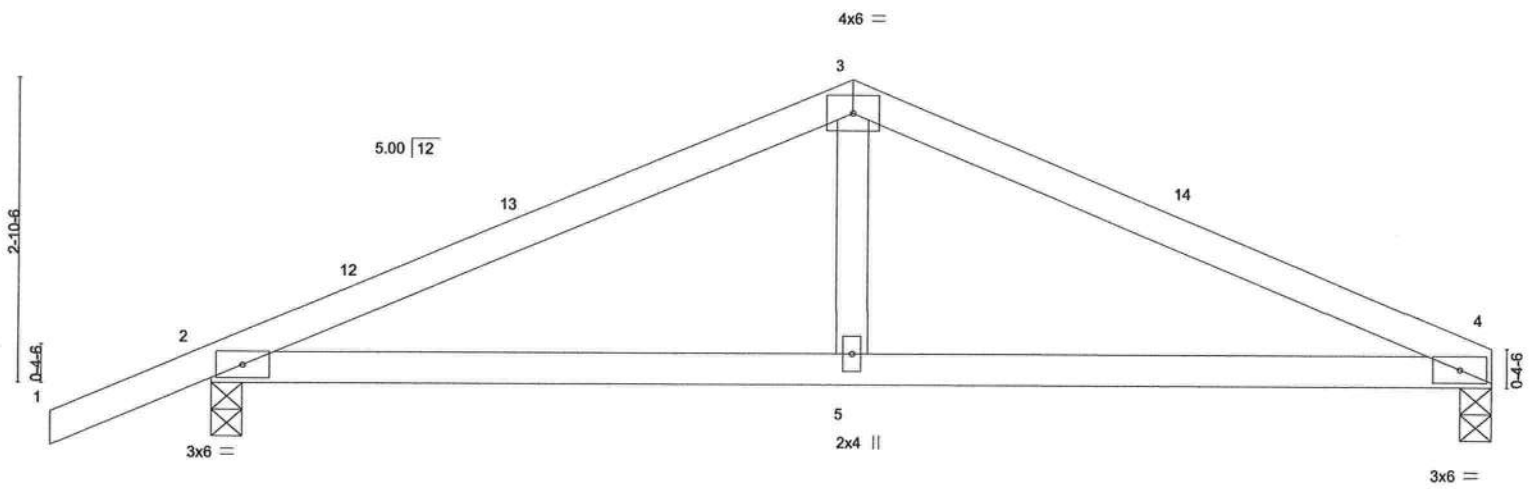
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	T24688907
2871649	T25	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:19 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-13qmQjFUHznGWkXVen4IF9nildyf3i?AK3GZ7NyxuM2

-1-6-0 / 1-6-0 | 6-0-0 / 6-0-0 | 12-0-0 / 6-0-0

Scale = 1:21.6



6-0-0 / 6-0-0 | 12-0-0 / 6-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.05	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.09	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 43 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 4=0-3-8, 2=0-3-8
Max Horz 2=56(LC 12)
Max Uplift 4=-93(LC 13), 2=-128(LC 12)
Max Grav 4=439(LC 1), 2=530(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-696/284, 3-4=-695/293
BOT CHORD 2-5=-203/594, 4-5=-203/594
WEBS 3-5=-10/271

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=128.

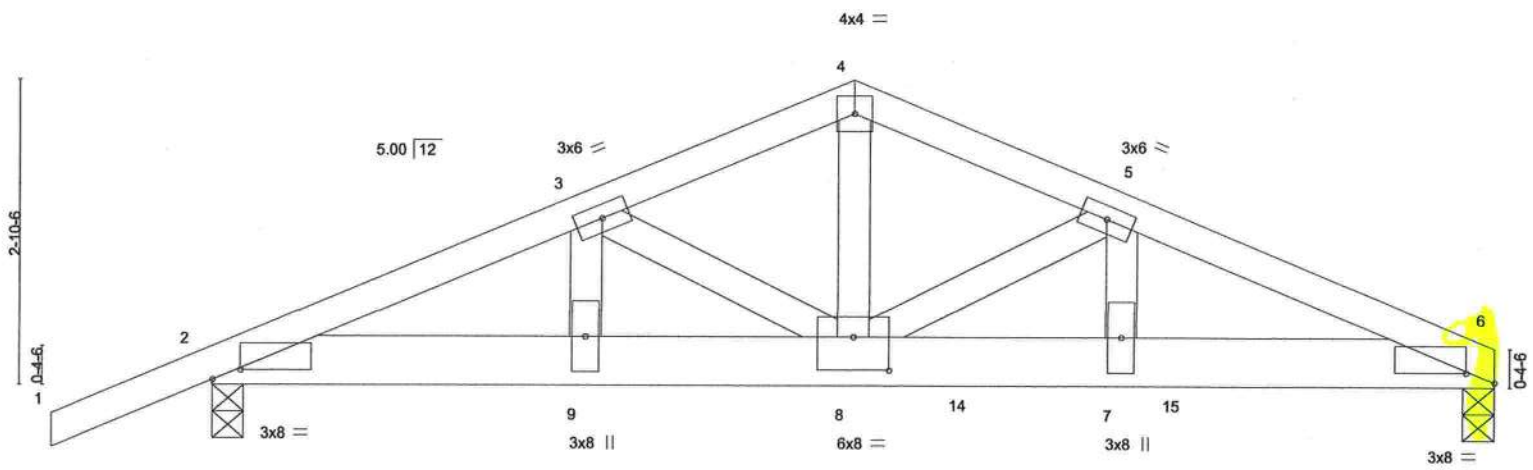
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Job	Truss	Truss Type	Qty	Ply	MIKE TODD CONST. - SANDIA	
2871649	T26	COMMON GIRDER	1	2	Job Reference (optional)	T24688908

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Jul 15 07:22:21 2021 Page 1
ID:s0XDStwXuSCIuakIU6Qqbvyxus?-_SyWrPHloa1_l2gtmC6mKas2XQWQXUvSnNlgBGyxuM0

-1-6-0	3-5-15	6-0-0	8-6-1	12-0-0
1-6-0	3-5-15	2-6-1	2-6-1	3-5-15

Scale = 1:21.6



3-5-15	6-0-0	8-6-1	12-0-0
3-5-15	2-6-1	2-6-1	3-5-15

Plate Offsets (X,Y)-- [2:0-3-2,0-1-1], [6:0-3-2,0-1-1], [8:0-4-0,0-3-12]

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	0.33	Vert(LL)	-0.06	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.12	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 128 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=56(LC 27)
Max Uplift 6=-728(LC 9), 2=-398(LC 8)
Max Grav 6=3276(LC 1), 2=1702(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3666/813, 3-4=-3852/876, 4-5=-3850/872, 5-6=-6225/1405
BOT CHORD 2-9=-752/3363, 8-9=-752/3363, 7-8=-1267/5743, 6-7=-1267/5743
WEBS 4-8=-612/2757, 5-8=-2544/616, 5-7=-439/2029, 3-8=-228/339, 3-9=-282/136

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 0-5-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) except (jt=lb) 6=728, 2=398.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2085 lb down and 499 lb up at 7-0-12, and 962 lb down and 235 lb up at 9-0-12, and 962 lb down and 212 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-6=-20

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
July 15,2021

Continued on page 2

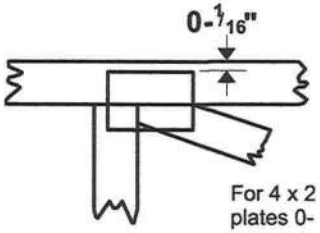
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 11=-962(B) 14=-2085(B) 15=-962(B)

Symbols

PLATE LOCATION AND ORIENTATION

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



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

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

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

PLATE SIZE

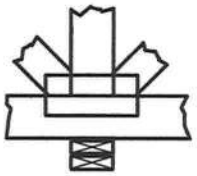
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

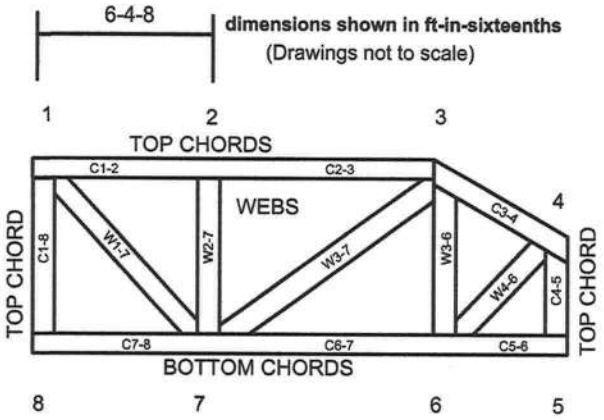


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

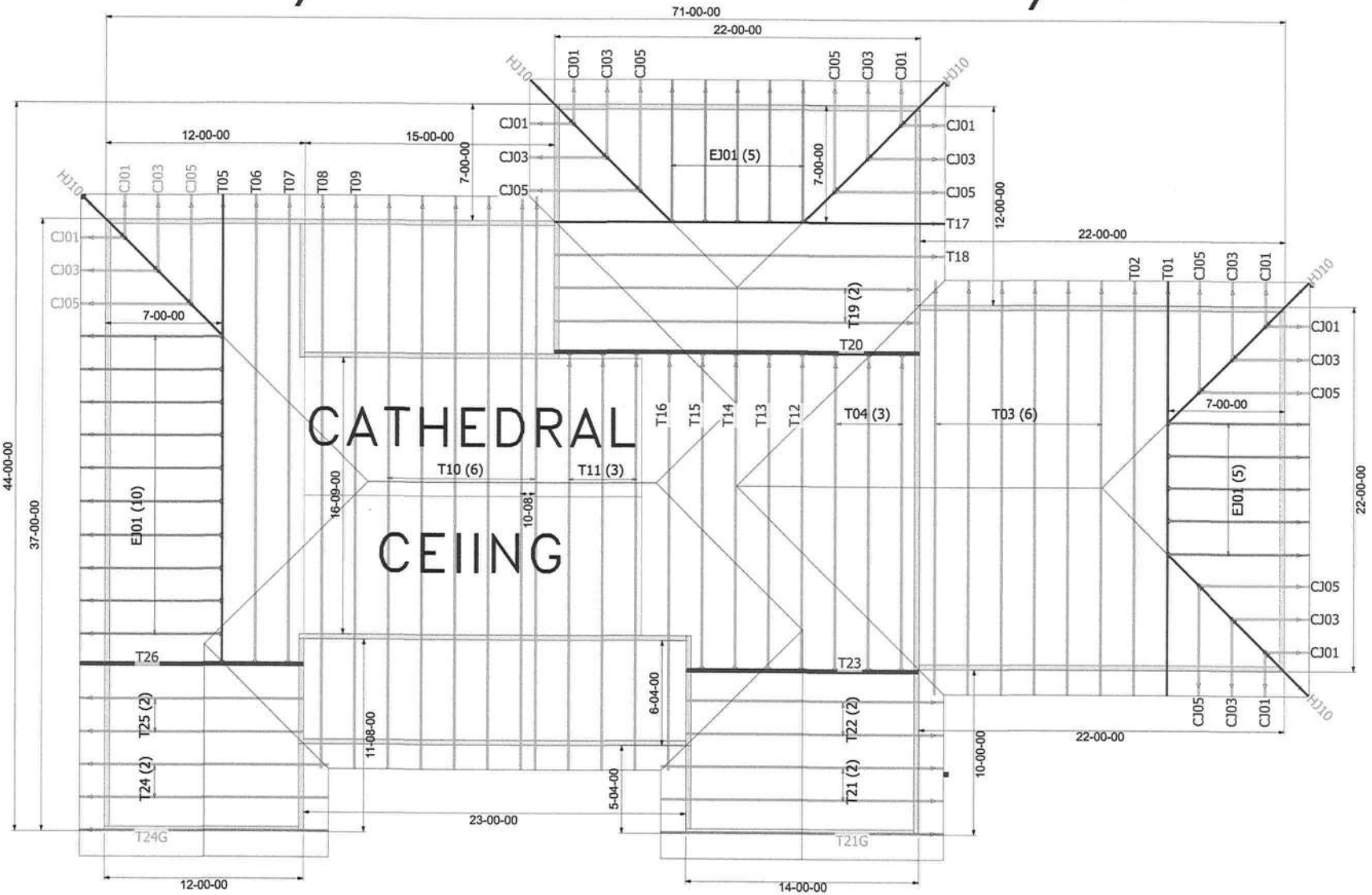
MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

5/12 PITCH – 18" O/H



MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.

General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Builders FIRSTSOURCE

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder: MIKE TODD CONST.

Legal Address: Sandia Way

Model: Custom

Date:	Drawn By:	Original Ref #:
7-15-21	KLH	2871649
Floor 1 Job#:	Floor 2 Job#:	Roof Job #:
N/A	N/A	2871649