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

RE: 865106 -

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

Site Information:
Customer Info: Starr Custom Homes Project Name: 865106 Model: Sieburg Res.
Lot/Block: 6 Subdivision: Colee Landing
Address: 8521 Beverly Ln.
City: St Johns State: Florida

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: Pontigo, Luis Antonio, PE License #: 53311
Address: 420 Osceola Ave.
City: Jacksonville Beach State: Florida

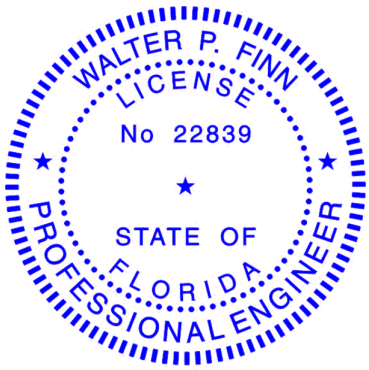
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 32.0 psf Floor Load: 55.0 psf

This package includes 66 individual, dated 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	T9462765	CJ01	9/13/16	23	T9462787	T04	9/13/16
2	T9462766	CJ02	9/13/16	24	T9462788	T05	9/13/16
3	T9462767	CJ03	9/13/16	25	T9462789	T06	9/13/16
4	T9462768	CJ04	9/13/16	26	T9462790	T07	9/13/16
5	T9462769	EJ01	9/13/16	27	T9462791	T08	9/13/16
6	T9462770	EJ02	9/13/16	28	T9462792	T09	9/13/16
7	T9462771	EJ03	9/13/16	29	T9462793	T12G	9/13/16
8	T9462772	F01	9/13/16	30	T9462794	T13	9/13/16
9	T9462773	F02	9/13/16	31	T9462795	T14	9/13/16
10	T9462774	F03	9/13/16	32	T9462796	T15	9/13/16
11	T9462775	F04	9/13/16	33	T9462797	T16	9/13/16
12	T9462776	F05	9/13/16	34	T9462798	T17	9/13/16
13	T9462777	F06	9/13/16	35	T9462799	T18	9/13/16
14	T9462778	F07	9/13/16	36	T9462800	T19	9/13/16
15	T9462779	HJ01	9/13/16	37	T9462801	T20	9/13/16
16	T9462780	HJ02	9/13/16	38	T9462802	T21	9/13/16
17	T9462781	HJ03	9/13/16	39	T9462803	T22	9/13/16
18	T9462782	HJ04	9/13/16	40	T9462804	T23	9/13/16
19	T9462783	HJ05	9/13/16	41	T9462805	T24	9/13/16
20	T9462784	T01	9/13/16	42	T9462806	T25	9/13/16
21	T9462785	T02	9/13/16	43	T9462807	T26	9/13/16
22	T9462786	T03	9/13/16	44	T9462808	T27G	9/13/16

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-Jacksonville.

Truss Design Engineer's Name: Finn, Walter
My license renewal date for the state of Florida is February 28, 2017.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: September 13,2016

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. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.

RE: 865106 -

Site Information:

Customer Info: Starr Custom Homes Project Name: 865106 Model: Sieburg Res.
Lot/Block: 6 Subdivision: Colee Landing
Address: 8521 Beverly Ln.
City: St Johns State: Florida

No.	Seal#	Truss Name	Date
45	T9462809	T28	9/13/16
46	T9462810	T29G	9/13/16
47	T9462811	T30	9/13/16
48	T9462812	T31G	9/13/16
49	T9462813	T32	9/13/16
50	T9462814	T33G	9/13/16
51	T9462815	T34G	9/13/16
52	T9462816	T35	9/13/16
53	T9462817	T36	9/13/16
54	T9462818	T37	9/13/16
55	T9462819	T38	9/13/16
56	T9462820	T39	9/13/16
57	T9462821	T40	9/13/16
58	T9462822	T41	9/13/16
59	T9462823	T42	9/13/16
60	T9462824	T45G	9/13/16
61	T9462825	T46	9/13/16
62	T9462826	TG02	9/13/16
63	T9462827	TG03	9/13/16
64	T9462828	TG04	9/13/16
65	T9462829	TG05	9/13/16
66	T9462830	TG06	9/13/16

Job	Truss	Truss Type	Qty	Ply	
865106	CJ01	JACK-OPEN	6	1	T9462765

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:43 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-?Y5slCjEAX0Wu371yDBwBDuOvQtM64i2ij2l8fye3KA

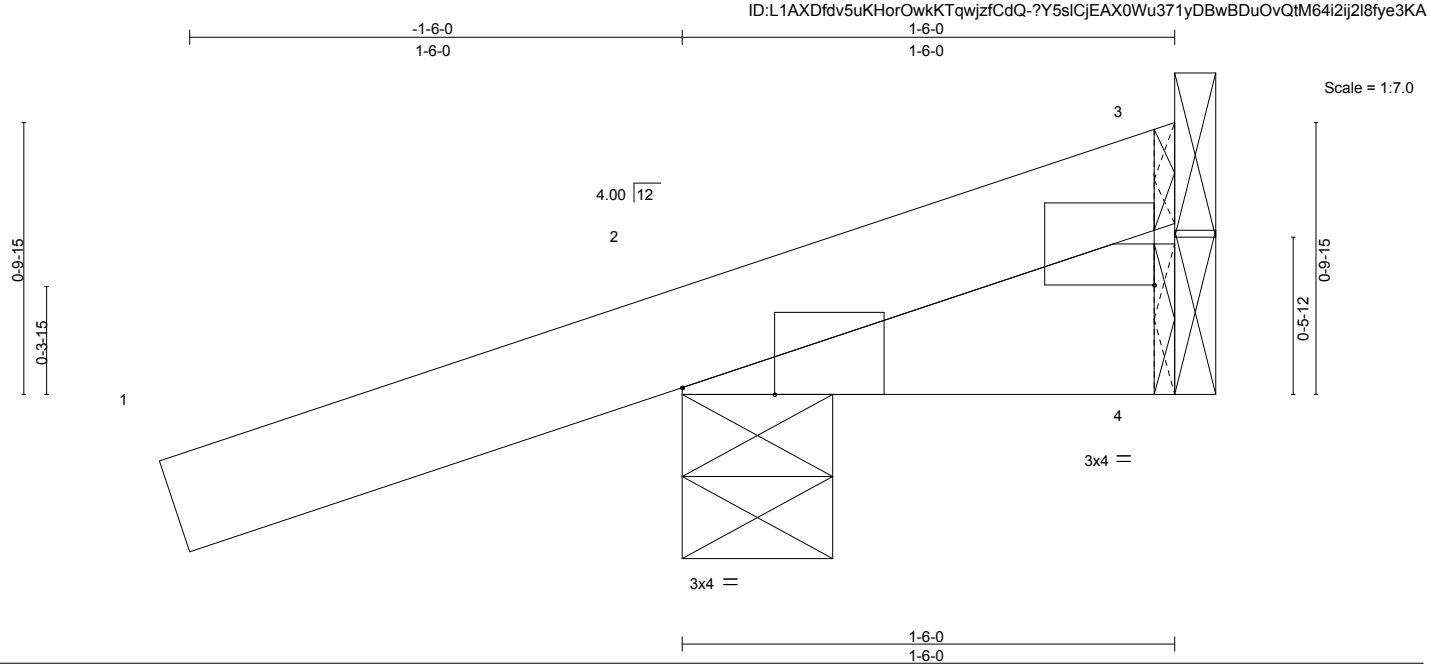


Plate Offsets (X,Y)-- [2:0-3-6,Edge], [2:Edge,0-3-12]

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	0.23	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=-9/Mechanical, 2=180/0-5-8, 4=7/Mechanical
Max Horz 2=75(LC 8)
Max Uplift 3=-9(LC 1), 2=-223(LC 8)
Max Grav 3=32(LC 8), 2=180(LC 1), 4=22(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 3 and 223 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	CJ02	Jack-Open	4	1	T9462766

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:43 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-?Y5slCjEAX0Wu371yDBwBDuN5Qt364i2ij2l8fye3KA

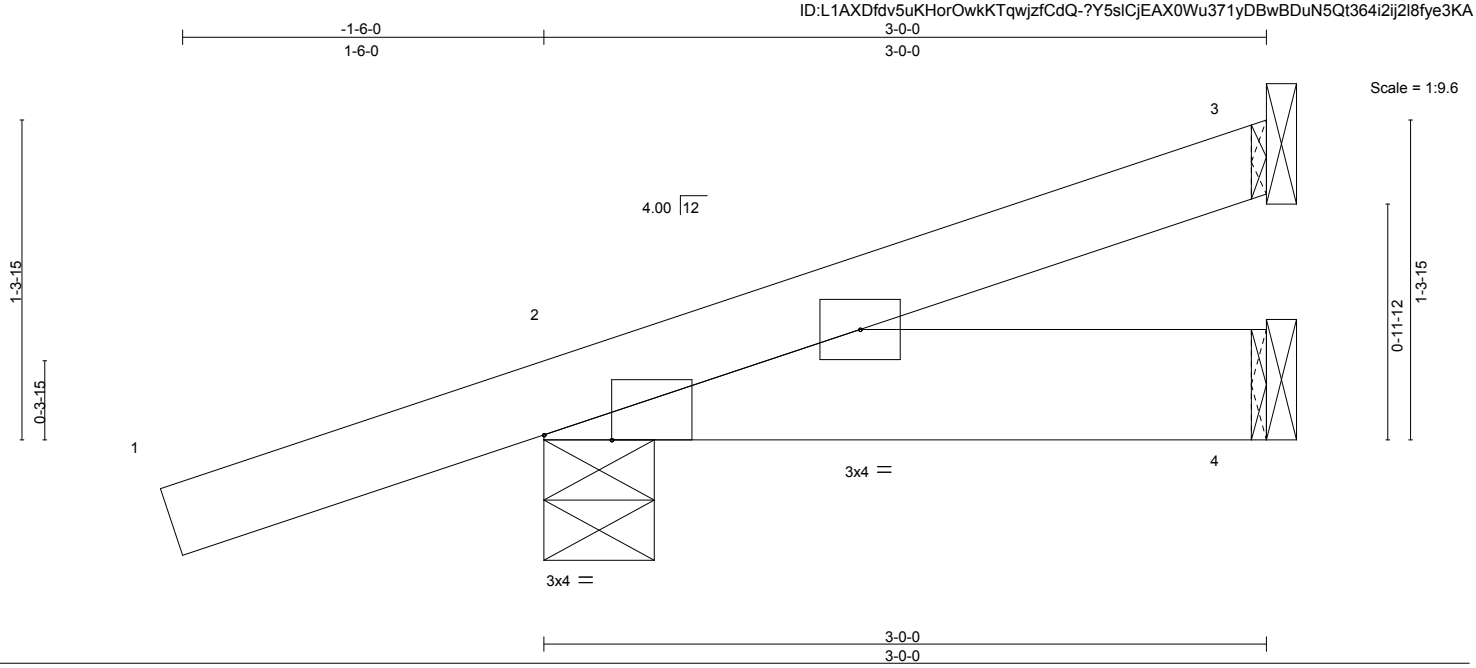


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.28	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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. (lb/size) 3=42/Mechanical, 2=214/0-5-8, 4=14/Mechanical
Max Horz 2=105(LC 8)
Max Uplift 3=-53(LC 12), 2=-235(LC 8)
Max Grav 3=42(LC 1), 2=214(LC 1), 4=41(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 235 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	CJ03	JACK-OPEN	8	1	T9462767

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:44 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-UkfEzYjsxr8NWDiDWxi9jQRZkqDSrXyBxNnIg5ye3K9

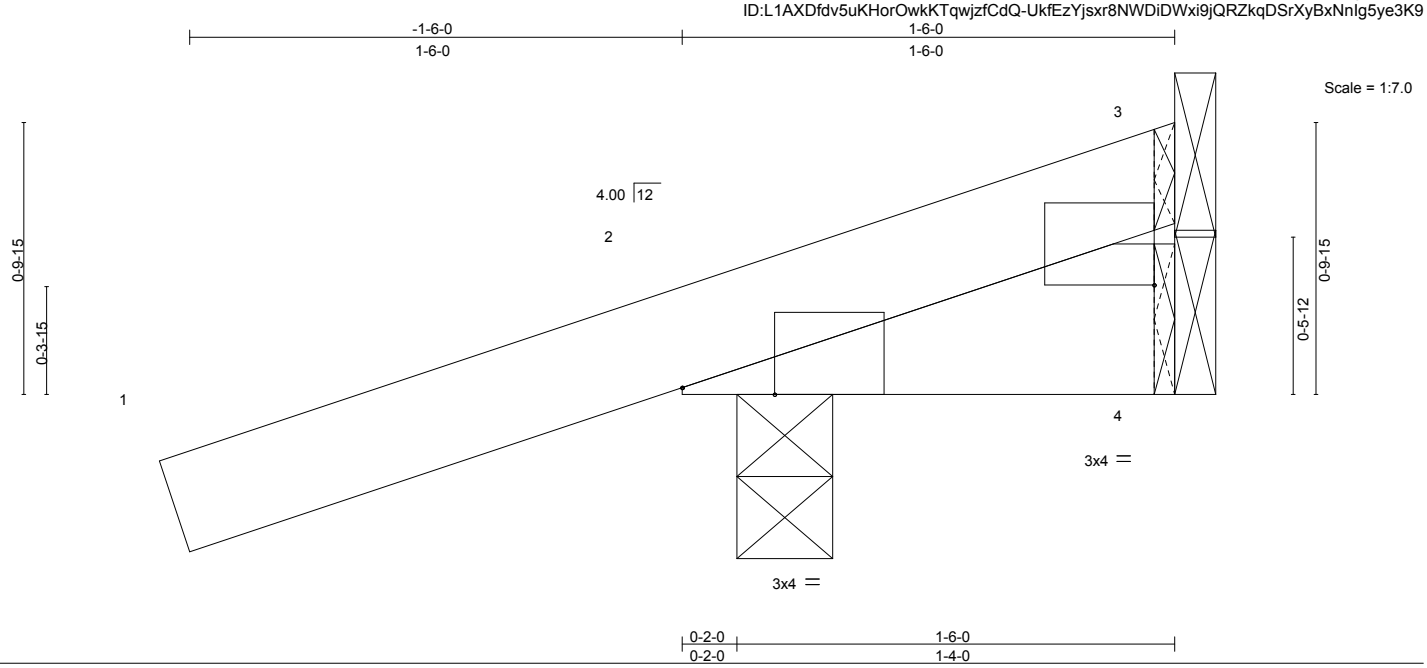


Plate Offsets (X,Y)-- [2:0-3-6,Edge], [2:Edge,0-3-12]

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	0.22	Vert(LL)	0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=-7/Mechanical, 4=7/Mechanical, 2=178/0-3-8
Max Horz 2=75(LC 8)
Max Uplift 3=-7(LC 1), 4=-17(LC 8), 2=-242(LC 8)
Max Grav 3=29(LC 8), 4=22(LC 3), 2=178(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 3, 17 lb uplift at joint 4 and 242 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	CJ04	Jack-Open	8	1	T9462768

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:44 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-UkfEzYjsxr8NWDiDWxi9jQRYKqDprXyBxNnIg5ye3K9

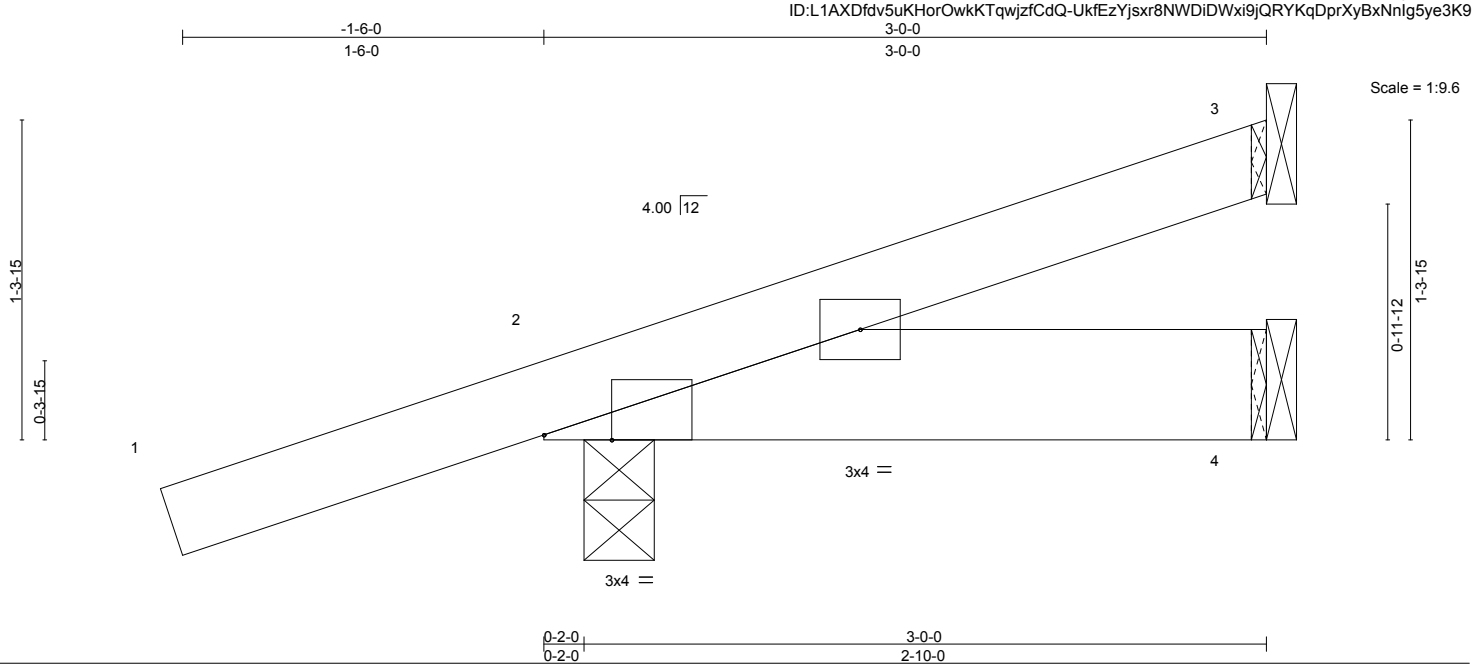


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.31	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(TL)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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. (lb/size) 3=48/Mechanical, 4=14/Mechanical, 2=208/0-3-8
Max Horz 2=105(LC 8)
Max Uplift 3=-58(LC 12), 4=-33(LC 8), 2=-267(LC 8)
Max Grav 3=48(LC 1), 4=42(LC 3), 2=208(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 3, 33 lb uplift at joint 4 and 267 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	EJ01	Jack-Partial	2	1	T9462769

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:45 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-yxDcAukUi8GE8NHQ4eDOGezjbEZWa_BKA1XsCYye3K8

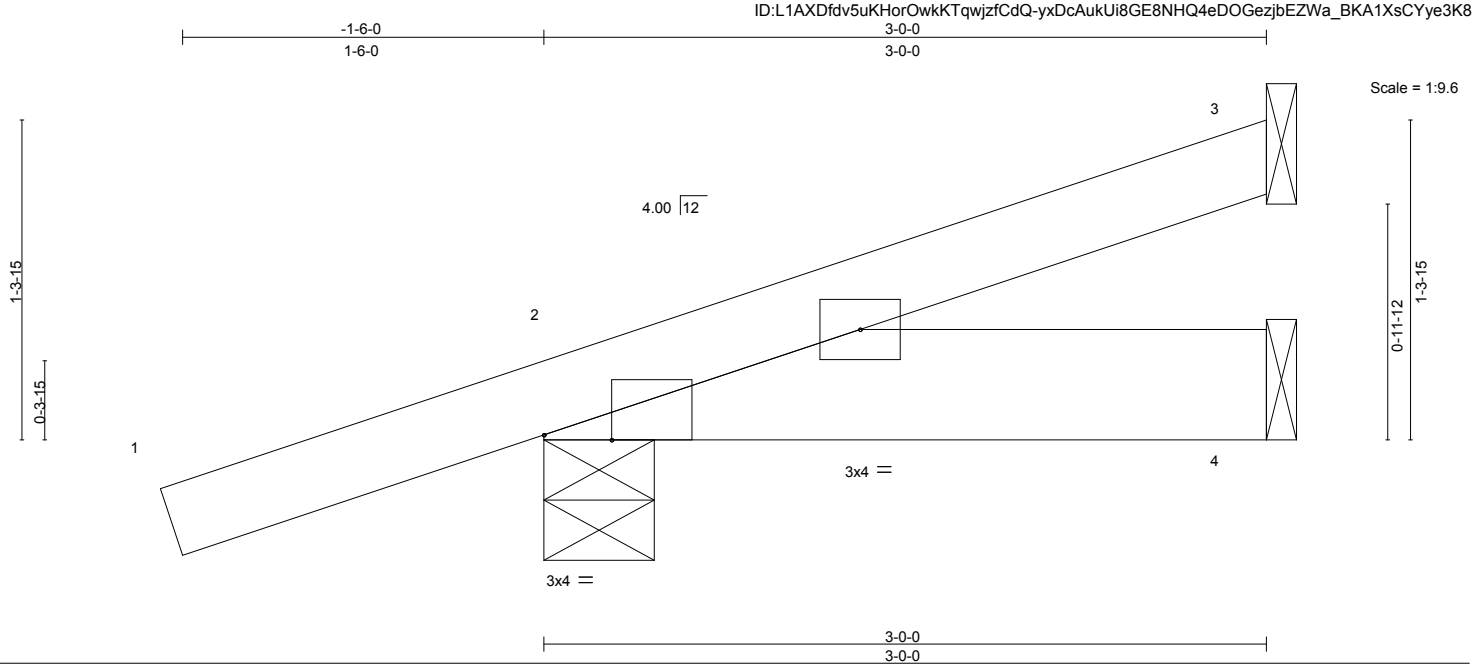


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.28	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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. (lb/size) 3=42/Mechanical, 2=214/0-5-8, 4=14/Mechanical
Max Horz 2=105(LC 8)
Max Uplift 3=-53(LC 12), 2=-235(LC 8)
Max Grav 3=42(LC 1), 2=214(LC 1), 4=41(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 235 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	EJ02	Jack-Partial	26	1	T9462770

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:45 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-yxDcAukUi8GE8NHQ4eDOGezi1EXCa_BKA1XsCYye3K8

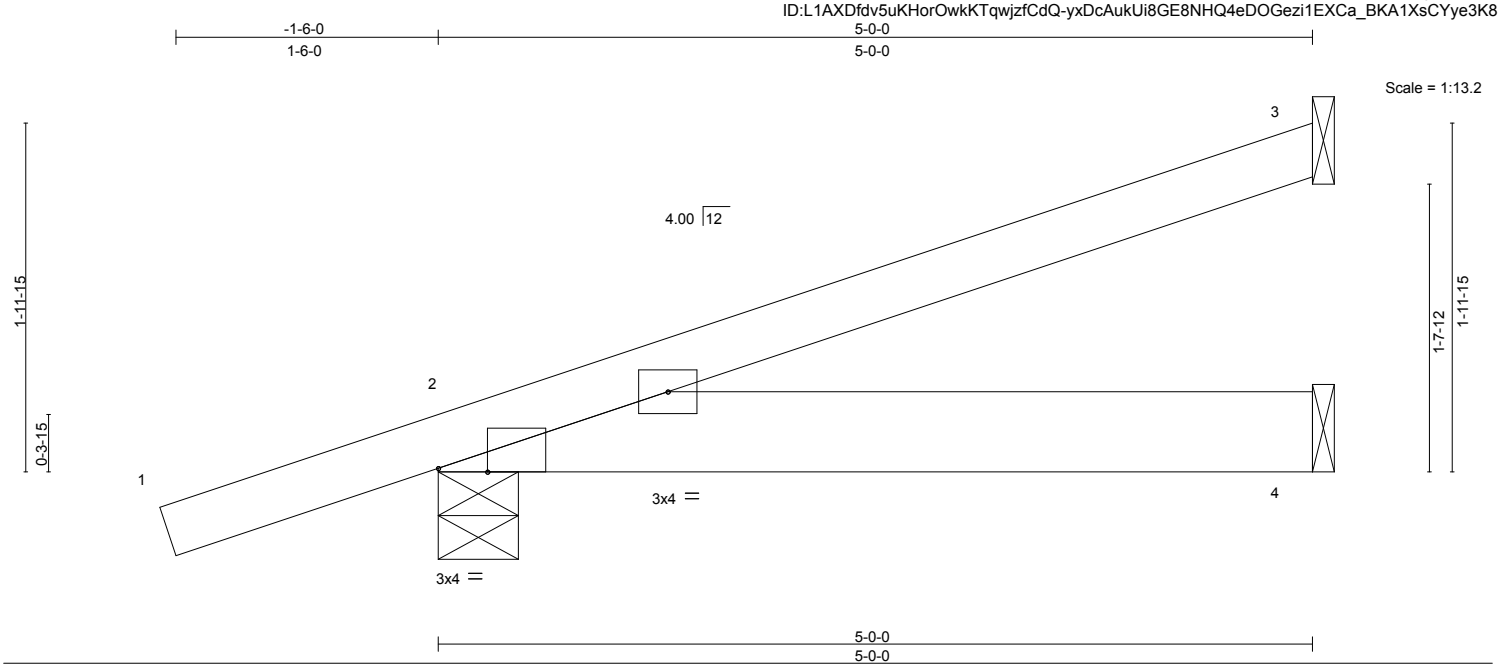


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.38	Vert(LL)	0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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. (lb/size) 3=109/Mechanical, 2=265/0-5-8, 4=24/Mechanical
Max Horz 2=146(LC 8)
Max Uplift 3=-126(LC 12), 2=-325(LC 8), 4=-55(LC 8)
Max Grav 3=109(LC 1), 2=265(LC 1), 4=71(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 3, 325 lb uplift at joint 2 and 55 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	EJ03	Jack-Partial	1	1	T9462771

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:46 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-Q7n_OEl6TSO5lXscdLkdorWuKevMJRRUPgGPl_ye3K7

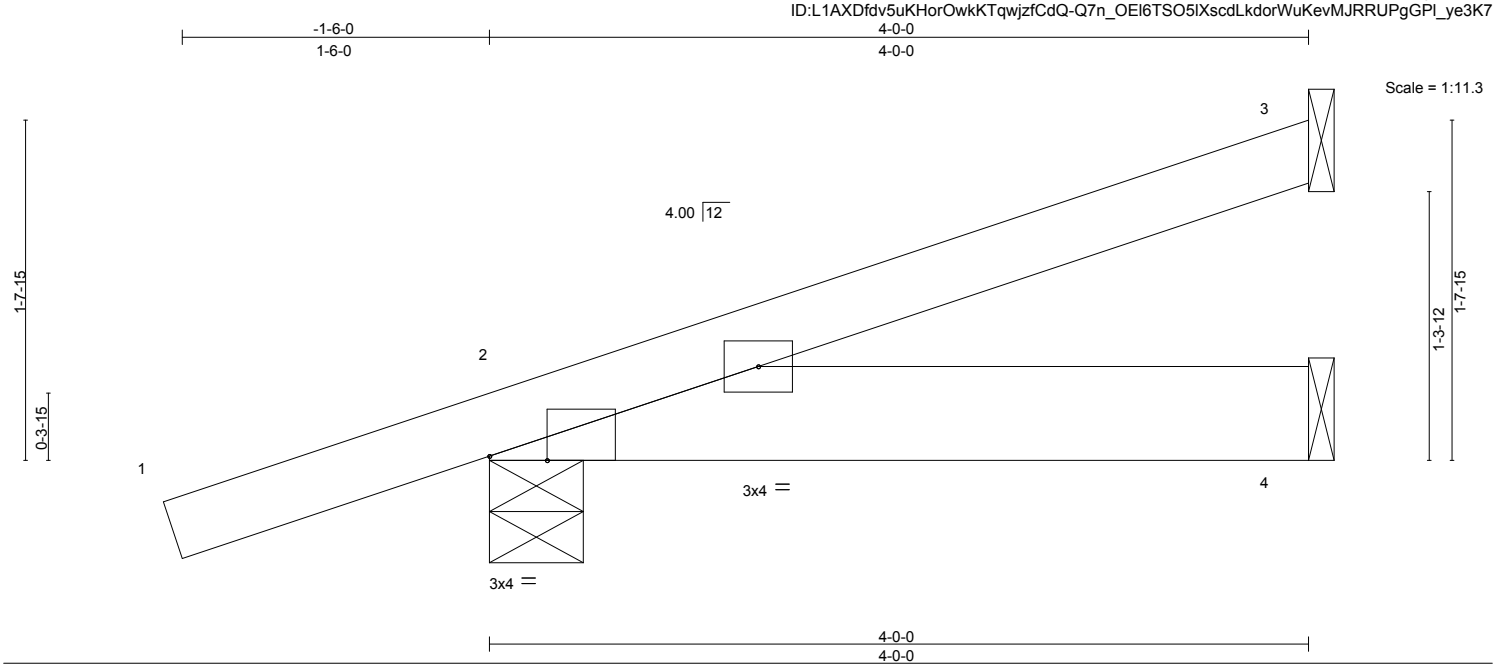


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.28	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	-0.01	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-

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

REACTIONS. (lb/size) 3=77/Mechanical, 2=237/0-5-8, 4=19/Mechanical
Max Horz 2=125(LC 8)
Max Uplift 3=-91(LC 12), 2=-242(LC 8)
Max Grav 3=77(LC 1), 2=237(LC 1), 4=56(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3 and 242 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	F01	Floor	6	1	T9462772

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:47 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-uJLNbamkDmWyNhQoB3FsL33xL20?2kGddK0yHQye3K6

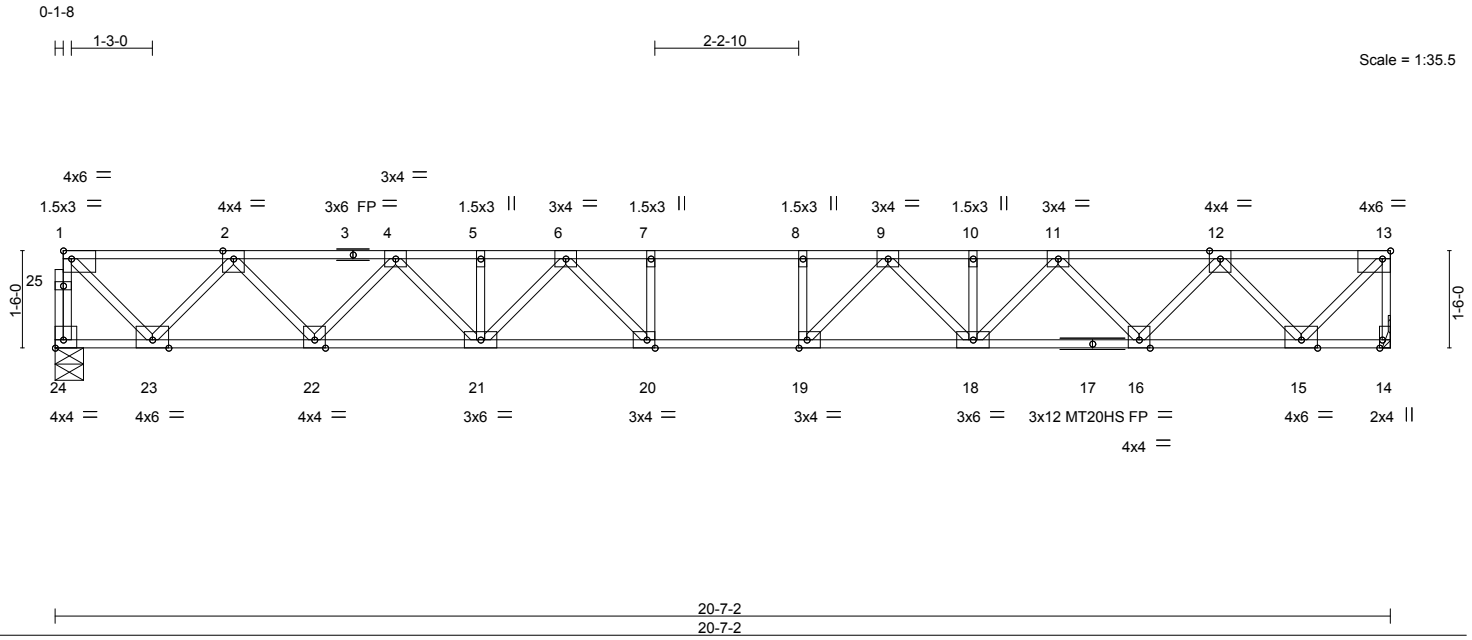


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [13:0-1-8,Edge], [14:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.30	19-20	>821	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(TL)	-0.47	19-20	>525	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.09	14	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 111 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except* 1-3: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* 14-17: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 20-21.

REACTIONS. (lb/size) 24=1116/0-5-4, 14=1122/Mechanical

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

TOP CHORD 24-25=-1111/0, 1-25=-1110/0, 13-14=-1116/0, 1-2=-1013/0, 2-3=-2540/0, 3-4=-2540/0, 4-5=-3598/0, 5-6=-3598/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-4128/0, 9-10=-3578/0, 10-11=-3578/0, 11-12=-2509/0, 12-13=-968/0
BOT CHORD 22-23=0/1911, 21-22=0/3147, 20-21=0/3917, 19-20=0/4128, 18-19=0/3905, 17-18=0/3120, 16-17=0/3120, 15-16=0/1873
WEBS 1-23=0/1393, 2-23=-1335/0, 2-22=0/936, 4-22=-902/0, 4-21=0/653, 6-21=-471/0, 6-20=-111/667, 7-20=-358/0, 13-15=0/1402, 12-15=-1345/0, 12-16=0/946, 11-16=-909/0, 11-18=0/663, 9-18=-478/0, 9-19=-99/680, 8-19=-363/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	F02	Floor	1	1	T9462773

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:47 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-uJLNbamkDmWyNhQoB3FsL33vy20i2kCddK0yHQye3K6

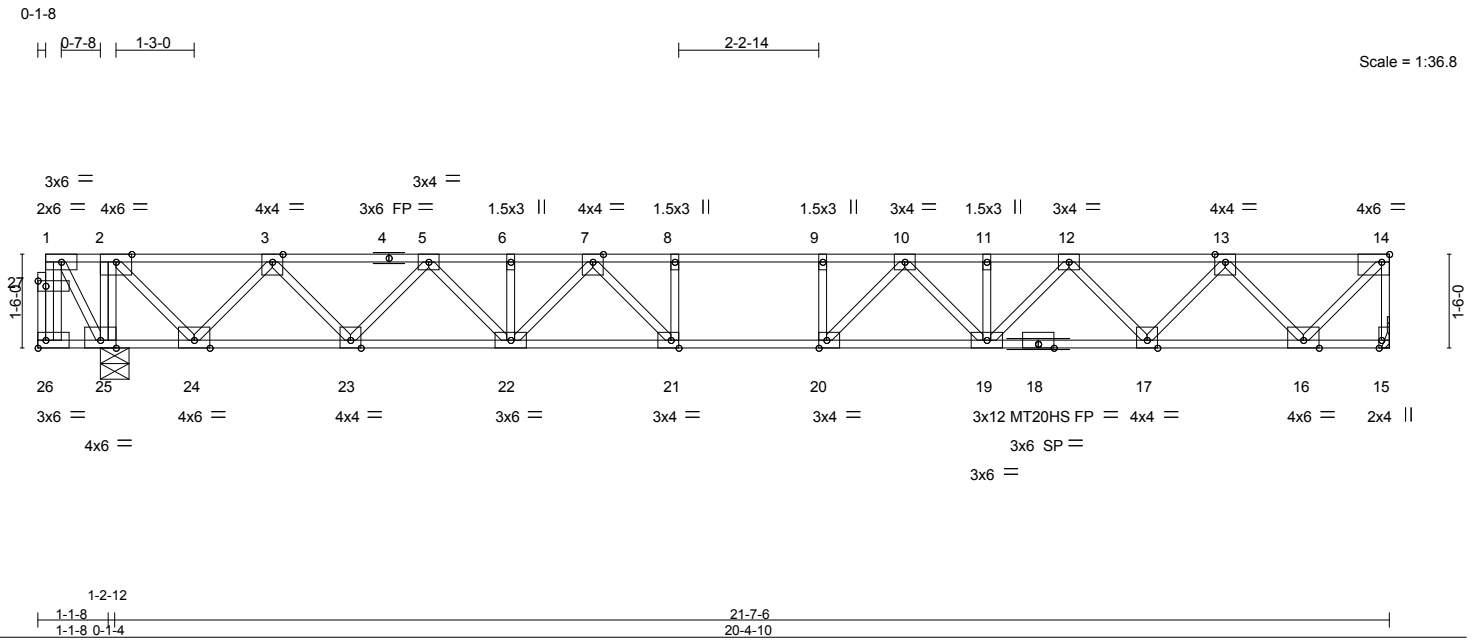


Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [27:0-1-8,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.28	20-21	>870	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(TL)	-0.43	20-21	>565	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.67	Horz(TL)	0.08	15	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 121 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except*
1-4: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat) *Except*
15-18: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 24-25.

REACTIONS. (lb/size) 15=1100/Mechanical, 25=3665/0-5-8
Max Grav 15=1117(LC 4), 25=3665(LC 1)

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

TOP CHORD 14-15=-1111/0, 1-2=0/333, 2-3=-930/43, 3-4=-2465/0, 4-5=-2465/0, 5-6=-3536/0, 6-7=-3536/0, 7-8=-4088/0, 8-9=-4088/0, 9-10=-4088/0, 10-11=-3554/0, 11-12=-3554/0, 12-13=-2494/0, 13-14=-963/0

BOT CHORD 24-25=-333/0, 23-24=0/1821, 22-23=0/3083, 21-22=0/3865, 20-21=0/4088, 19-20=0/3876, 18-19=0/3101, 17-18=0/3101, 16-17=0/1863

WEBS 2-25=-3143/0, 1-25=-621/0, 14-16=0/1395, 13-16=-1338/0, 13-17=0/939, 12-17=-902/0, 12-19=0/655, 10-19=-478/0, 10-20=-154/660, 9-20=-343/8, 2-24=0/1410, 3-24=-1346/0, 3-23=0/981, 5-23=-940/0, 5-22=0/678, 7-22=-518/0, 7-21=-89/726, 8-21=-373/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 18 = 11%
4) Refer to girder(s) for truss to truss connections.
5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 1=-500 2=-1921

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	F03	Floor	4	1	T9462774

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:48 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-MWvlpwnM_3ep?r?_lmn5uGb4iRMxnAQns_IWpsye3K5

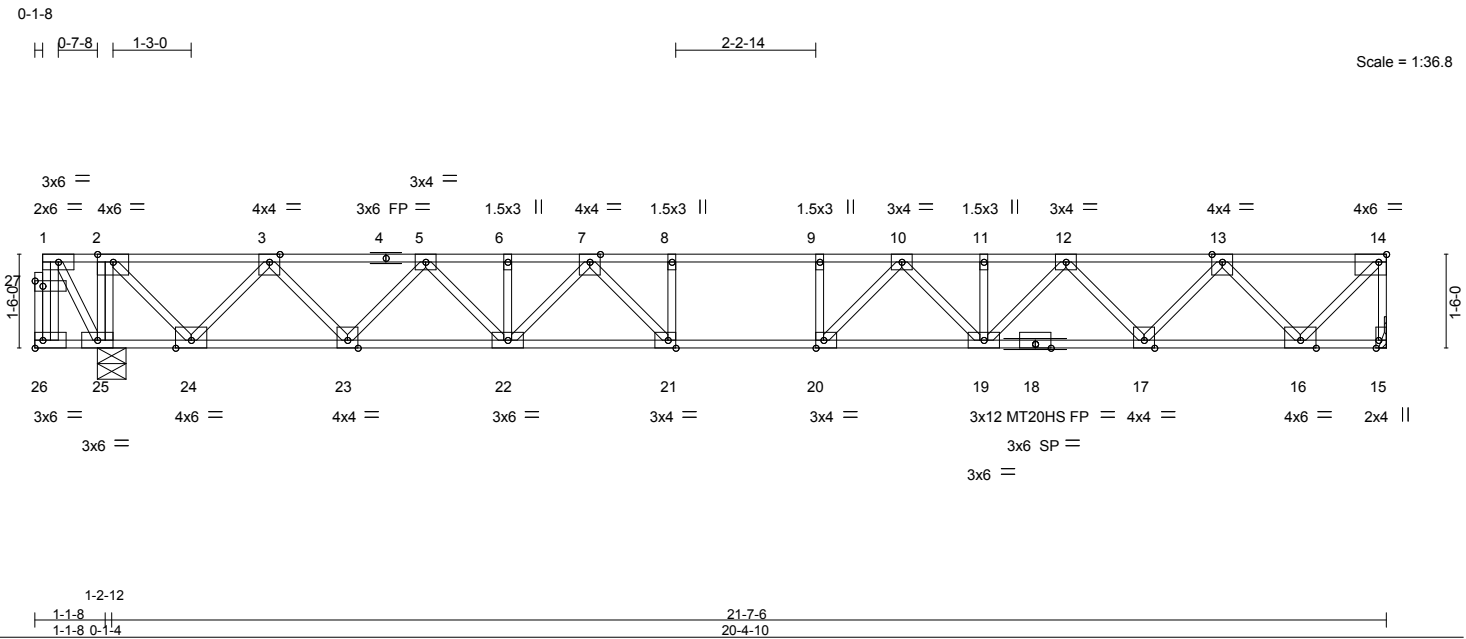


Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [27:0-1-8,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.28	20-21	>872	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(TL)	-0.43	20-21	>566	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.67	Horz(TL)	0.08	15	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 121 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except*
1-4: 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat) *Except*
15-18: 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 24-25.

REACTIONS. (lb/size) 15=1100/Mechanical, 25=1745/0-5-8
Max Grav 15=1117(LC 4), 25=1745(LC 1)

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

TOP CHORD 14-15=-1111/0, 1-2=0/334, 2-3=-932/42, 3-4=-2464/0, 4-5=-2464/0, 5-6=-3535/0, 6-7=-3535/0, 7-8=-4088/0, 8-9=-4088/0, 9-10=-4088/0, 10-11=-3554/0, 11-12=-3554/0, 12-13=-2494/0, 13-14=-963/0

BOT CHORD 24-25=-334/0, 23-24=0/1821, 22-23=0/3082, 21-22=0/3865, 20-21=0/4088, 19-20=0/3876, 18-19=0/3101, 17-18=0/3101, 16-17=0/1863

WEBS 2-25=-1228/0, 14-16=0/1395, 13-16=-1338/0, 13-17=0/939, 12-17=-902/0, 12-19=0/655, 10-19=-478/0, 10-20=-154/660, 9-20=-343/8, 2-24=0/1414, 3-24=-1343/0, 3-23=0/980, 5-23=-941/0, 5-22=0/678, 7-22=-518/0, 7-21=-89/726, 8-21=-373/0, 1-25=-622/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 18 = 11%
4) Refer to girder(s) for truss to truss connections.
5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 1=-500

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	F04	Floor	1	1	T9462775

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:49 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-qiS70Gn_lNmgc_aBJUIKQU8LkrkSWhpw5eV3MJye3K4

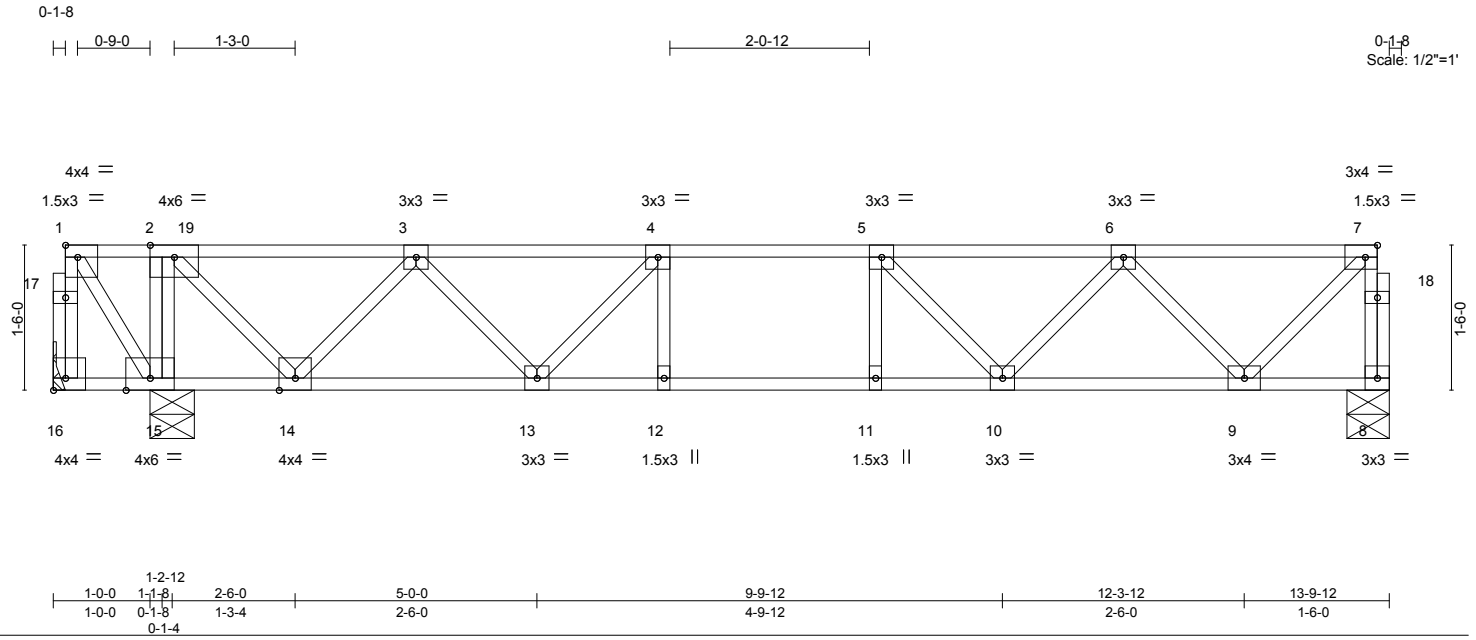


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [16:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.09	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(TL)	-0.12	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 78 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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: 15-16,14-15.

REACTIONS. (lb/size) 16=-159/Mechanical, 8=627/0-5-4, 15=3591/0-5-8
Max Uplift 16=-558(LC 4)
Max Grav 16=536(LC 8), 8=628(LC 4), 15=3838(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-535/553, 1-17=-534/553, 8-18=-623/0, 7-18=-622/0, 1-2=0/705, 2-19=-314/162, 3-19=-314/162, 3-4=-972/0, 4-5=-1302/0, 5-6=-1167/0, 6-7=-528/0
BOT CHORD 14-15=-705/0, 13-14=0/669, 12-13=0/1302, 11-12=0/1302, 10-11=0/1302, 9-10=0/988
WEBS 2-15=-2865/0, 1-15=-1215/0, 7-9=0/723, 2-14=0/858, 6-9=-684/0, 3-14=-797/0, 6-10=0/266, 3-13=0/454, 4-13=-482/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 558 lb uplift at joint 16.
4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-16=-10, 1-19=-225, 7-19=-100
Concentrated Loads (lb)
Vert: 1=-500 2=-1921

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	F05	Floor	5	1	T9462776

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:49 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-qiS70Gn_lNmgc_aBJUIKQU8NVrlkWiGw5eV3MJye3K4

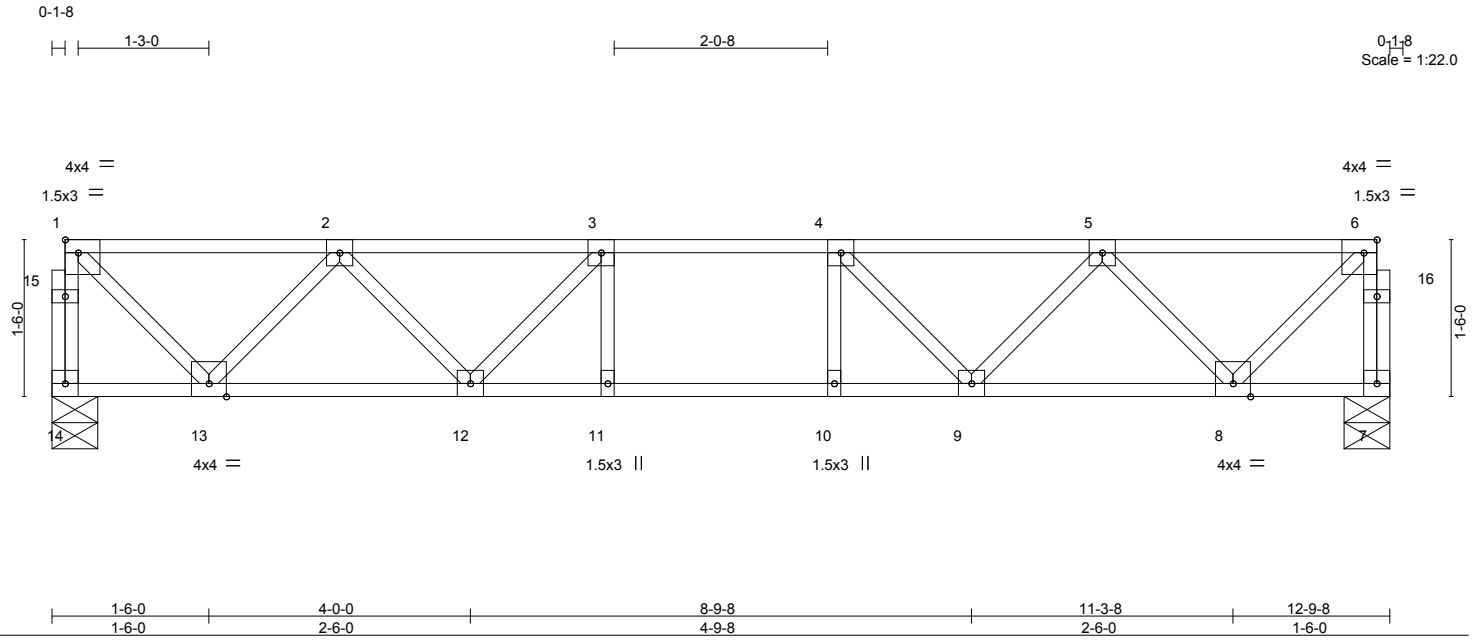


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.09	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(TL)	-0.12	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 69 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 14=684/0-5-4, 7=684/0-5-4

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

TOP CHORD 14-15=-679/0, 1-15=-679/0, 7-16=-679/0, 6-16=-679/0, 1-2=-582/0, 2-3=-1324/0, 3-4=-1554/0, 4-5=-1324/0, 5-6=-582/0
BOT CHORD 12-13=0/1087, 11-12=0/1554, 10-11=0/1554, 9-10=0/1554, 8-9=0/1087
WEBS 6-8=0/798, 1-13=0/798, 5-8=-751/0, 2-13=-751/0, 5-9=0/371, 2-12=0/371, 4-9=-438/0, 3-12=-438/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	F06	GABLE	1	1	T9462777

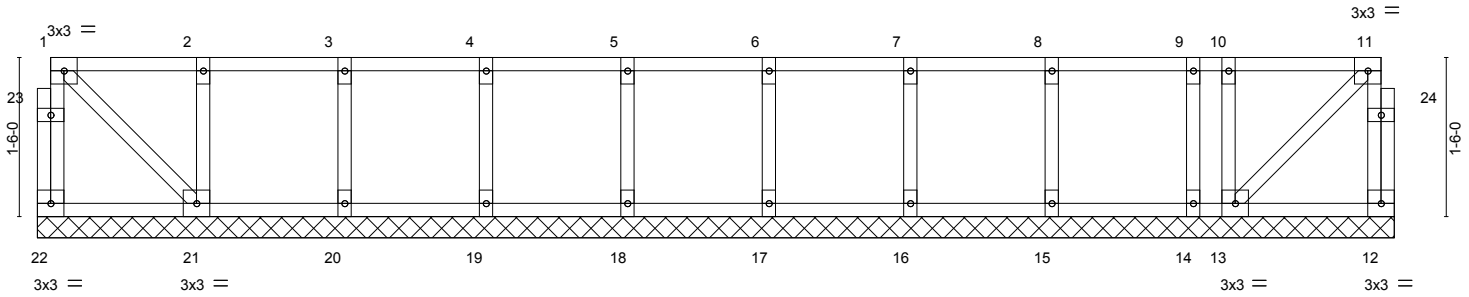
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:50 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-Iu0VDbodWhuXE89NsBpZzhhd9FGvFEu4JIEculye3K3

0-1-8 0-1-8

Scale = 1:21.7



1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	11-2-12	12-9-8
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-4-0	1-6-12

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.00	13	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 67 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 21-22,12-13.

REACTIONS. All bearings 12-9-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 13, 20, 19, 18, 17, 16, 15, 14

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

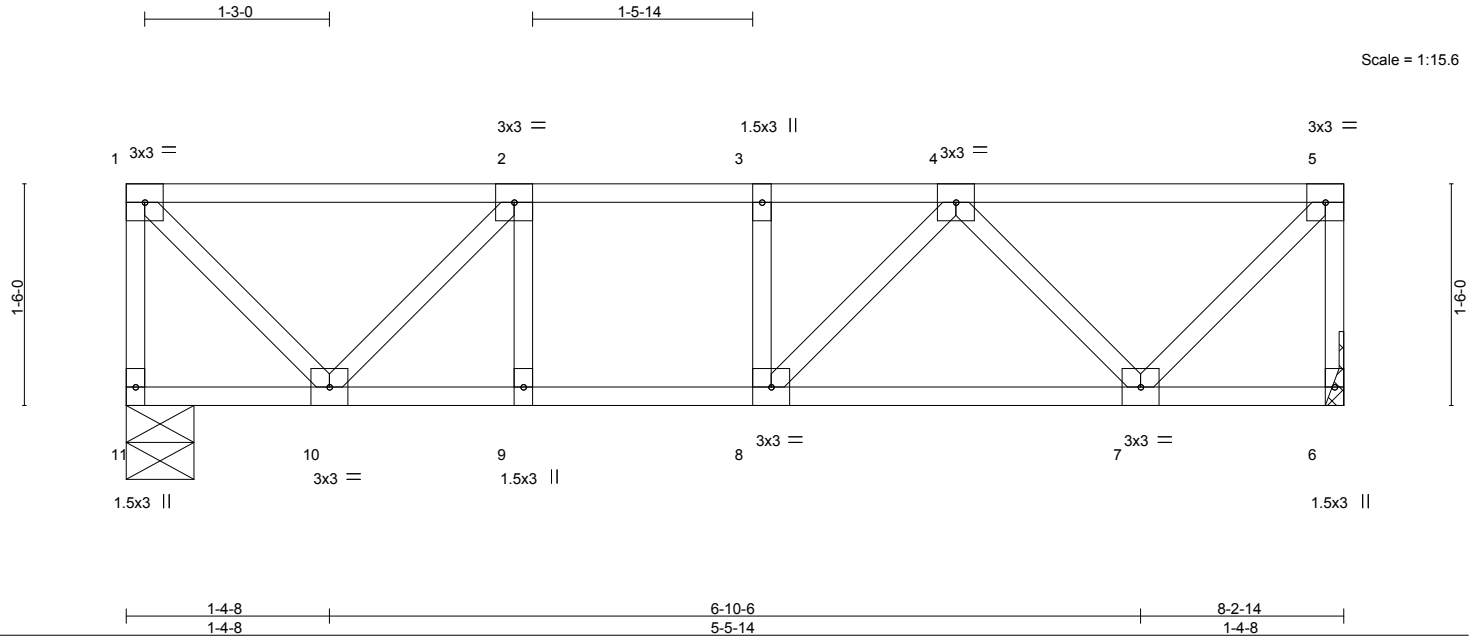
Job	Truss	Truss Type	Qty	Ply	
865106	F07	Floor	1	1	T9462778

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:50 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-Iu0VDbodWhuXE89NsBpZzhhY4FAbFBx4JIEculye3K3



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(TL)	-0.06	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 45 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 11=446/0-5-8, 6=446/Mechanical

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

TOP CHORD 1-11=-438/0, 5-6=-445/0, 1-2=-320/0, 2-3=-639/0, 3-4=-639/0, 4-5=-325/0
BOT CHORD 9-10=0/639, 8-9=0/639, 7-8=0/608
WEBS 5-7=0/471, 1-10=0/463, 4-7=-421/0, 2-10=-462/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	HJ01	Diagonal Hip Girder	1	1	T9462779

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

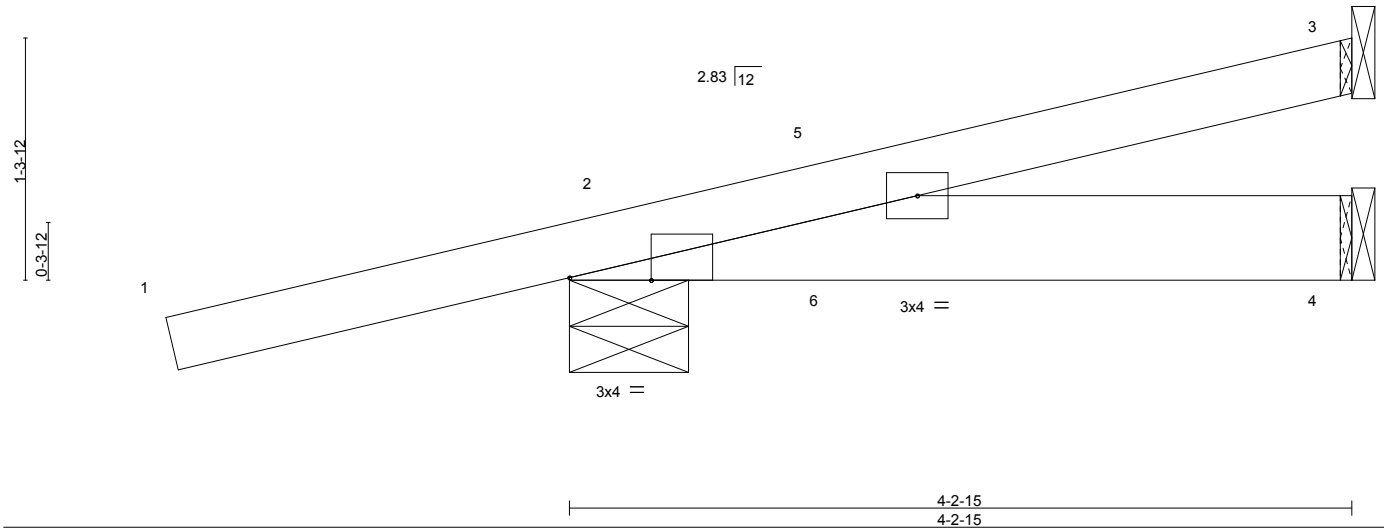
7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:51 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-m5atRxpFH_0OsIkZQvKoVvDiCfcN_hgDYy_AQBye3K2

-2-1-7 4-2-15

2-1-7 4-2-15

Scale = 1:12.5



4-2-15

4-2-15

Plate Offsets (X,Y)-- [2:0-5-5,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	0.46	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=55/Mechanical, 2=285/0-7-12, 4=19/Mechanical

Max Horz 2=105(LC 4)

Max Uplift 3=-53(LC 8), 2=-283(LC 4)

Max Grav 3=55(LC 1), 2=285(LC 1), 4=58(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 283 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 124 lb down and 85 lb up at 1-5-12 on top chord, and at 1-5-12, and at 1-5-12 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: 1-3=-54, 2-4=-10
   Concentrated Loads (lb)
   Vert: 5=22(F)

MiTek

6904 Parke East Blvd.

Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	HJ02	Diagonal Hip Girder	1	1	T9462780

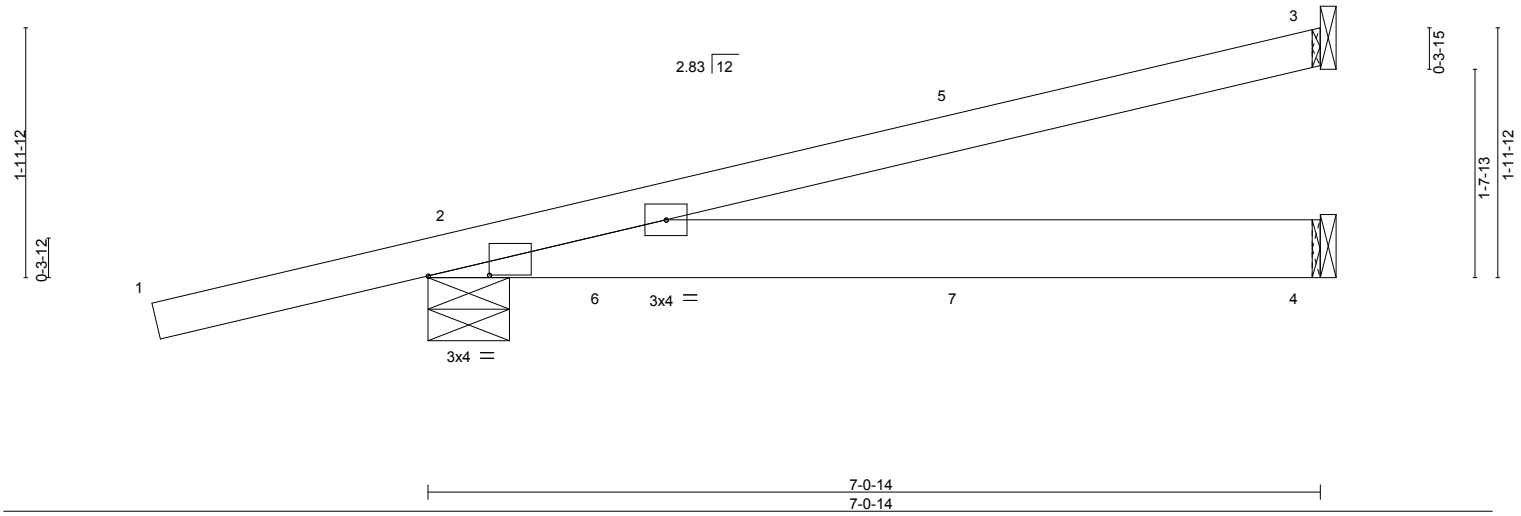
Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:51 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-m5atRxpFH_0OsIkZQvKoVvDgGfZF_hgDYy_AQBye3K2

-2-1-7 / 2-1-7 — 7-0-14 / 7-0-14

Scale = 1:18.3



7-0-14 / 7-0-14

Plate Offsets (X,Y)-- [2:0-5-13,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(TL)	-0.05	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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. (lb/size) 3=143/Mechanical, 2=373/0-7-12, 4=46/Mechanical
Max Horz 2=146(LC 4)
Max Uplift 3=-151(LC 8), 2=-369(LC 4)
Max Grav 3=143(LC 1), 2=373(LC 1), 4=100(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 3 and 369 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 35 lb up at 4-3-11, and 26 lb down and 35 lb up at 4-3-11 on top chord, and at 1-5-12, at 1-5-12, and 5 lb down at 4-3-11, and 5 lb down at 4-3-11 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: 1-3=-54, 2-4=-10

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	HJ03	Diagonal Hip Girder	1	1	T9462781

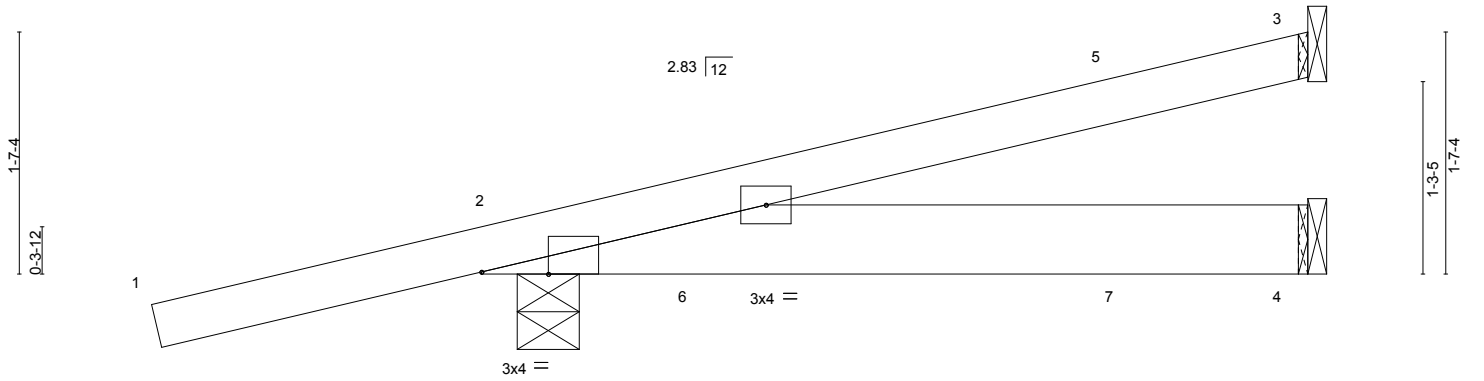
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:52 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-FH8FeHqt2I9FTSJm_cr126mtz3xfj8wMncjjyeye3K1

-2-1-7 / 2-1-7 — 5-5-12 / 5-5-12

Scale = 1:15.3



0-2-13 / 0-2-13 — 5-5-12 / 5-2-15

Plate Offsets (X,Y)-- [2:0-5-5,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	0.46	Vert(LL)	0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	-0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=112/Mechanical, 4=28/Mechanical, 2=324/0-4-15
Max Horz 2=123(LC 4)
Max Uplift 3=-127(LC 8), 4=-66(LC 4), 2=-413(LC 4)
Max Grav 3=112(LC 1), 4=84(LC 3), 2=324(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 3, 66 lb uplift at joint 4 and 413 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 44 lb up at 4-3-11, and 27 lb down and 44 lb up at 4-3-11 on top chord, and at 1-5-12, at 1-5-12, and 6 lb down and 41 lb up at 4-3-11, and 6 lb down and 41 lb up at 4-3-11 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: 1-3=-54, 2-4=-10
Concentrated Loads (lb)
Vert: 7=-3(F=-1, B=-1)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	HJ04	Diagonal Hip Girder	3	1	T9462782

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:53 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-jTiesdqVpcH55cuyYKMGbKJ0TSEZSbAW0GTHV4ye3K0

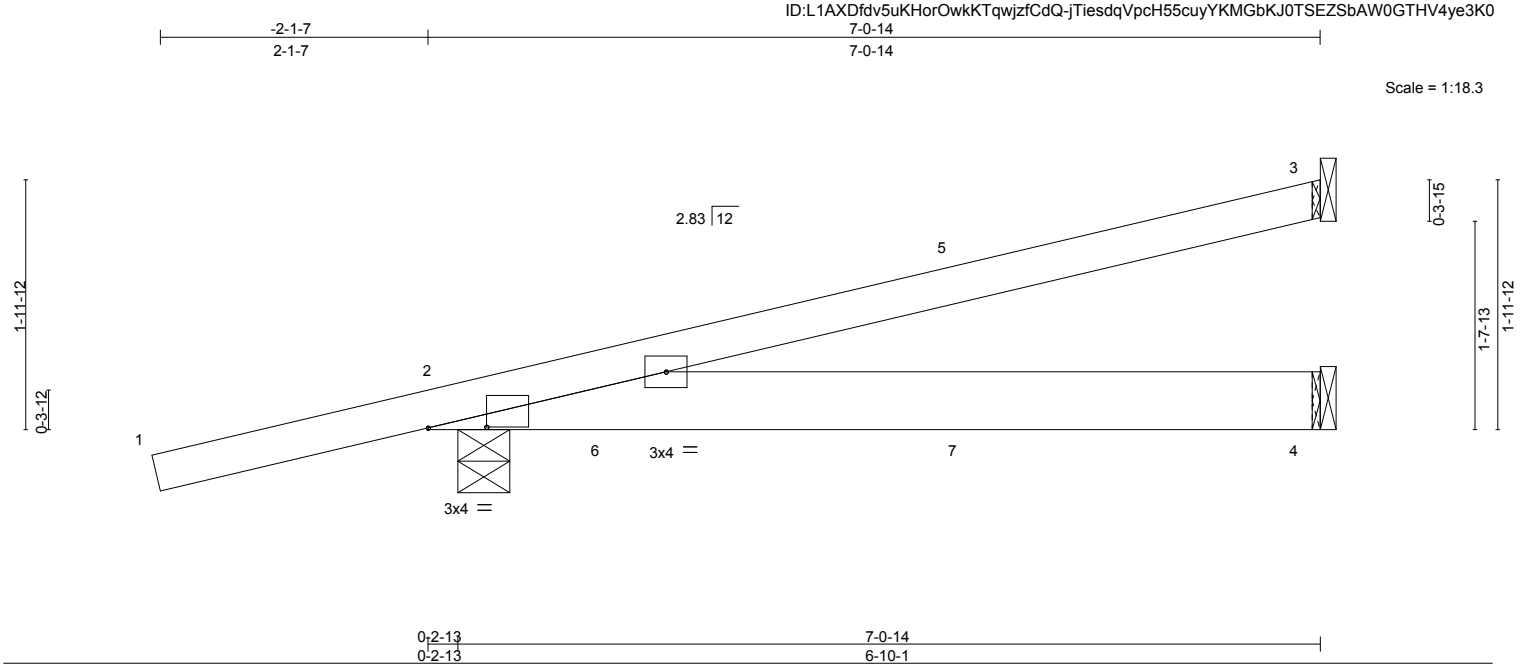


Plate Offsets (X,Y)-- [2:0-5-9,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.06	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	-0.06	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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. (lb/size) 3=147/Mechanical, 4=49/Mechanical, 2=367/0-4-15
Max Horz 2=146(LC 4)
Max Uplift 3=-157(LC 8), 4=-92(LC 5), 2=-460(LC 4)
Max Grav 3=147(LC 1), 4=102(LC 3), 2=367(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever left exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 3, 92 lb uplift at joint 4 and 460 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 41 lb up at 4-3-11, and 27 lb down and 41 lb up at 4-3-11 on top chord, and at 1-5-12, at 1-5-12, and 5 lb down and 41 lb up at 4-3-11, and 5 lb down and 41 lb up at 4-3-11 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: 1-3=-54, 2-4=-10

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	HJ05	Diagonal Hip Girder	1	1	T9462783

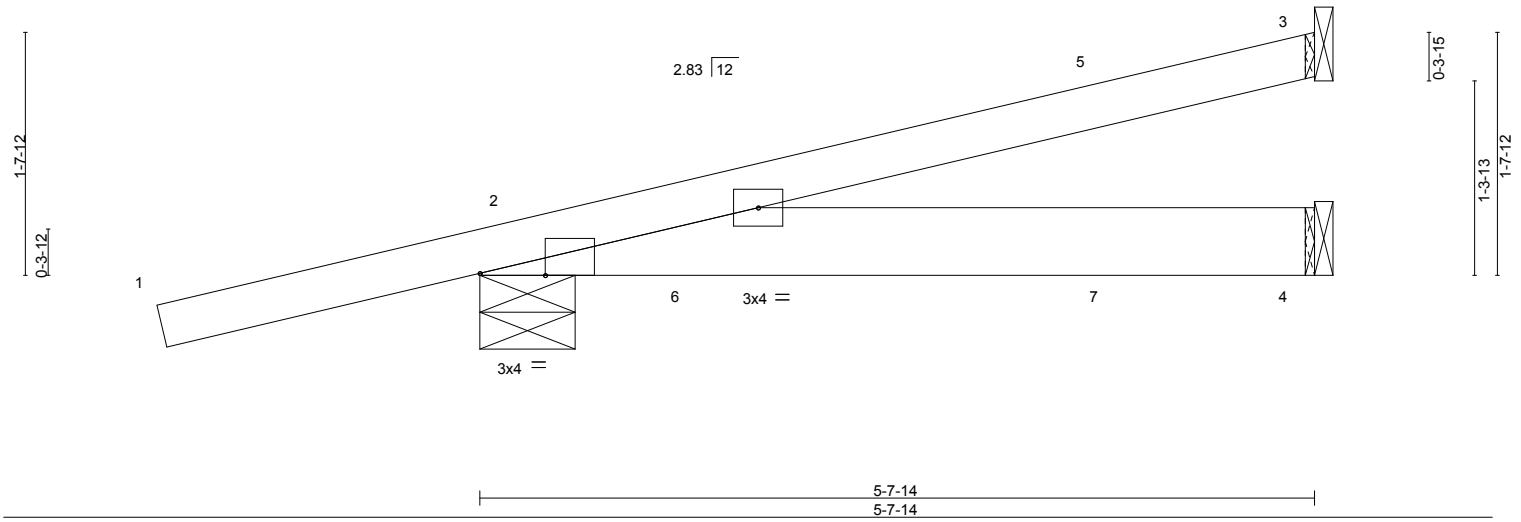
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:53 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-jTiesdqVpcH55cuyYKMGbKJ2hSGwSbAW0GTHV4ye3K0

-2-1-7 / 2-1-7 — 5-7-14 / 5-7-14

Scale = 1:15.6



5-7-14 / 5-7-14

Plate Offsets (X,Y)-- [2:0-5-5,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	0.46	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	-0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=111/Mechanical, 2=334/0-7-12, 4=26/Mechanical
Max Horz 2=125(LC 4)
Max Uplift 3=-125(LC 8), 2=-347(LC 4)
Max Grav 3=111(LC 1), 2=334(LC 1), 4=79(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 3 and 347 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 36 lb up at 4-3-11, and 26 lb down and 36 lb up at 4-3-11 on top chord, and at 1-5-12, at 1-5-12, and 5 lb down at 4-3-11, and 5 lb down at 4-3-11 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: 1-3=-54, 2-4=-10
Concentrated Loads (lb)
Vert: 7=-0(F=-0, B=-0)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T01	Half Hip Girder	1	1	T9462784

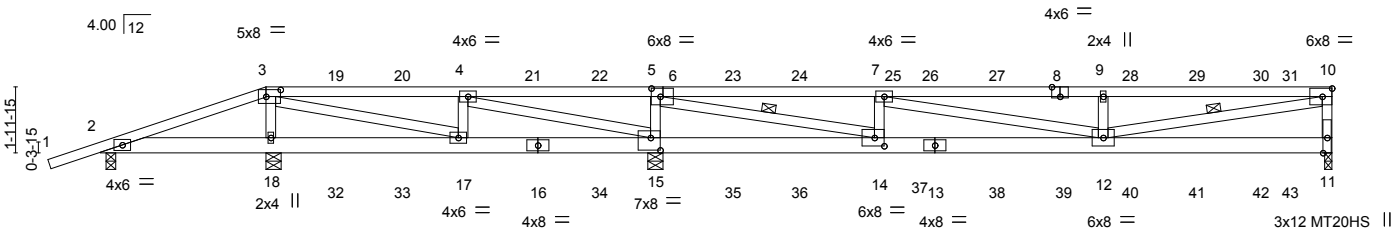
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:55 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-fsqOHJslLDXpKv2LfkPlgIOl5GrywG6pTayNZzye3K_

1-6-0	5-0-0	10-11-8	16-9-4	23-6-7	30-3-11	37-2-10
1-6-0	5-0-0	5-11-8	5-9-12	6-9-3	6-9-3	6-10-15

Scale = 1:69.6



0-2-0	5-0-0	5-2-12	10-11-8	16-9-4	23-6-7	30-3-11	37-2-10
0-2-0	4-10-0	0-2-12	5-8-12	5-9-12	6-9-3	6-9-3	6-10-15

Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [6:0-3-4,0-3-0], [8:0-3-0,Edge], [14:0-3-8,0-3-0], [15:0-3-8,0-4-8]

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	0.85	Vert(LL)	0.51	12-14	>474	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(TL)	-0.42	12-14	>586	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(TL)	0.00	15	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 202 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-14,7-12,10-12: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-4 oc bracing.
WEBS 1 Row at midpt 5-14, 10-12

REACTIONS. All bearings 0-5-8 except (jt=length) 11=0-2-10, 2=0-3-8.
(lb) - Max Horz 2=106(LC 23)
Max Uplift All uplift 100 lb or less at joint(s) except 11=-1101(LC 5), 18=-866(LC 4), 15=-2247(LC 4), 2=-232(LC 23)
Max Grav All reactions 250 lb or less at joint(s) 2 except 11=884(LC 1), 18=782(LC 1), 15=1912(LC 20)

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

TOP CHORD 2-3=-324/303, 4-21=-1685/1402, 21-22=-1685/1402, 5-22=-1685/1402, 5-6=-1688/2098, 6-23=-1688/2098, 23-24=-1688/2098, 24-25=-1688/2098, 7-25=-1688/2098, 7-26=-2344/2897, 26-27=-2344/2897, 8-27=-2344/2897, 8-9=-2344/2897, 9-28=-2344/2897, 28-29=-2344/2897, 29-30=-2344/2897, 30-31=-2344/2897, 10-31=-2344/2897, 10-11=-794/932
BOT CHORD 2-18=-253/268, 18-32=-305/323, 32-33=-305/323, 17-33=-305/323, 15-35=-1402/1685, 35-36=-1402/1685, 36-37=-1402/1685, 14-37=-1402/1685, 13-14=-2098/1688, 13-38=-2098/1688, 38-39=-2098/1688, 12-39=-2098/1688
WEBS 3-18=-619/627, 3-17=-319/370, 4-15=-1468/1622, 5-15=-1282/1448, 5-14=-3890/3176, 7-14=-689/711, 7-12=-821/675, 9-12=-588/583, 10-12=-2767/2235

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); cantilever left exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1101 lb uplift at joint 11, 866 lb uplift at joint 18, 2247 lb uplift at joint 15 and 232 lb uplift at joint 2.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 172 lb down and 296 lb up at 5-0-0, 55 lb down and 131 lb up at 7-0-12, 55 lb down and 131 lb up at 9-0-12, 55 lb down and 131 lb up at 11-0-12, 55 lb down and 131 lb up at 13-0-12, 55 lb down and 131 lb up at 15-0-12, 55 lb down and 131 lb up at 17-0-12, 55 lb down and 131 lb up at 19-0-12, 55 lb down and 131 lb up at 21-0-12, 55 lb down and 131 lb up at 23-0-12, 55 lb down and 131 lb up at 25-0-12, 55 lb down and 131 lb up at 27-0-12, 55 lb down and 131 lb up at 29-0-12, 55 lb down and 131 lb up at 31-0-12, 55 lb down and 131 lb up at 33-0-12, and 55 lb down and 131 lb up at 35-0-12, and 55 lb down and 131 lb up at 35-11-4 on top chord, and 59 lb down and 111 lb up at 5-0-0, 41 lb down and 65 lb up at 7-0-12, 41 lb down and 65 lb up at 9-0-12, 41 lb down and 65 lb up at 11-0-12, 41 lb down and 65 lb up at 13-0-12, 41 lb down and 65 lb up at 15-0-12, 41 lb down and 65 lb up at 17-0-12, 41 lb down and 65 lb up at 19-0-12, 41 lb down and 65 lb up at 21-0-12, 41 lb down and 65 lb up at 23-0-12, 41 lb down and 65 lb up at 25-0-12, 41 lb down and 65 lb up at 27-0-12, 41 lb down and 65 lb up at 29-0-12, 41 lb down and 65 lb up at 31-0-12, 41 lb down and 65 lb up at 33-0-12, and 41 lb down and 65 lb up at 35-0-12, and 41 lb down and 65 lb up at 35-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) 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: 1-3=-54, 3-10=-54, 2-11=-10
   Concentrated Loads (lb)
   Vert: 3=-125(B) 13=-14(B) 18=-35(B) 17=-14(B) 4=-55(B) 15=-14(B) 5=-55(B) 16=-14(B) 8=-55(B) 19=-55(B) 20=-55(B) 21=-55(B) 22=-55(B) 23=-55(B) 24=-55(B) 25=-55(B) 26=-55(B) 27=-55(B) 28=-55(B) 29=-55(B) 30=-55(B) 31=-55(B) 32=-14(B) 33=-14(B) 34=-14(B) 35=-14(B) 36=-14(B) 37=-14(B) 38=-14(B) 39=-14(B) 40=-14(B) 41=-14(B) 42=-14(B) 43=-14(B)

Job	Truss	Truss Type	Qty	Ply	
865106	T02	Half Hip	1	1	T9462785

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:55 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-fsqOHJslLDXpKv2LfkPlglOLPGqdwLipTayNZzye3K_

Scale = 1:67.0

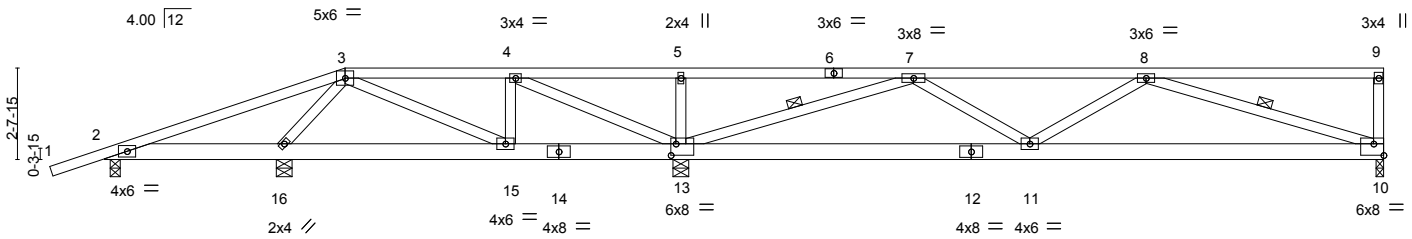


Plate Offsets (X,Y)-- [10:Edge,0-4-0], [13:0-1-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.23	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(TL)	-0.18	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(TL)	-0.03	10	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 205 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 5-4-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-14 oc bracing.
WEBS	1 Row at midpt 7-13, 8-10

REACTIONS. All bearings 0-5-8 except (jt=length) 10=0-2-10, 2=0-3-8.
(lb) - Max Horz 2=135(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 10=-523(LC 9), 16=-194(LC 8), 13=-953(LC 8), 2=-234(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2 except 10=569(LC 1), 16=420(LC 1), 13=1234(LC 1)

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

TOP CHORD	3-4=-306/31, 4-5=-862/577, 5-6=-862/577, 6-7=-862/577, 7-8=-1051/1950
BOT CHORD	14-15=-31/306, 13-14=-31/306, 12-13=-1373/863, 11-12=-1373/863, 10-11=-1727/1106
WEBS	3-16=-390/227, 3-15=-96/451, 4-13=-693/615, 5-13=-339/352, 7-13=-1520/2359, 7-11=-696/386, 8-11=-269/201, 8-10=-1102/1707

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 523 lb uplift at joint 10, 194 lb uplift at joint 16, 953 lb uplift at joint 13 and 234 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T03	Roof Special	1	1	T9462786

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:56 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-72OmUftO6Xfgy3cXDSw_CywVmgBDflmyiEhx4Pye3Jz

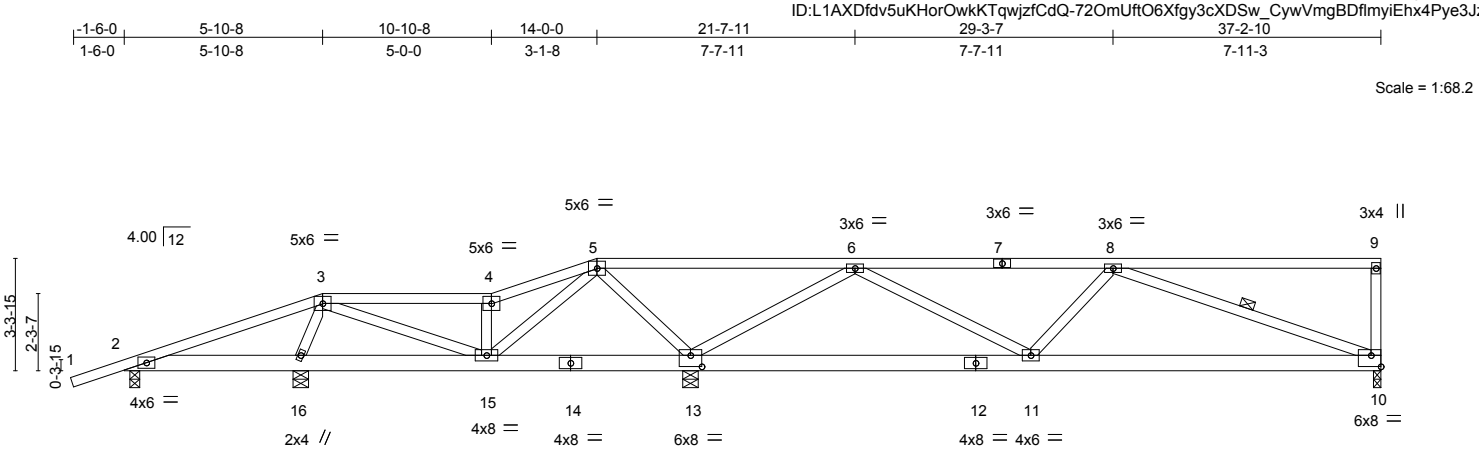


Plate Offsets (X,Y)-- [10:Edge,0-4-0], [13:0-4-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	0.19	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(TL)	-0.16	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(TL)	-0.02	10	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 207 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 5-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-7 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS. All bearings 0-5-8 except (jt=length) 10=0-2-10, 2=0-3-8.
(lb) - Max Horz 2=164(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 10=-523(LC 9), 16=-219(LC 12), 13=-971(LC 8), 2=-229(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2 except 10=549(LC 1), 16=406(LC 1), 13=1278(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-365/61, 4-5=-350/93, 5-6=-905/719, 6-7=-771/1506, 7-8=-771/1506
BOT CHORD 14-15=-238/412, 13-14=-238/412, 12-13=-643/374, 11-12=-643/374, 10-11=-1448/877
WEBS 3-16=-335/244, 3-15=-52/435, 5-15=-175/341, 5-13=-702/720, 6-13=-1278/1809, 6-11=-993/514, 8-10=-879/1455

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 523 lb uplift at joint 10, 219 lb uplift at joint 16, 971 lb uplift at joint 13 and 229 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T04	Roof Special Girder	1	1	T9462787

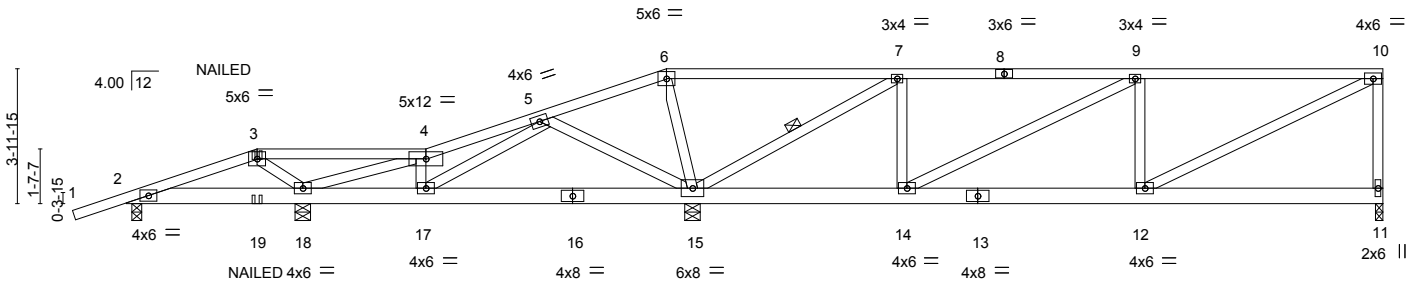
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:57 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-bEx8h?u0tqnXaDBjn9RDlAThO4ctOCI6wuRUdrye3Jy

-1-6-0	3-10-8	8-10-8	12-5-4	16-0-0	22-11-11	30-0-5	37-2-10
1-6-0	3-10-8	5-0-0	3-6-12	3-6-12	6-11-11	7-0-9	7-2-5

Scale = 1:68.2



0-2-0	5-2-12	8-10-8	16-9-4	22-11-11	30-0-5	37-2-10
0-2-0	5-0-12	3-7-12	7-10-12	6-2-7	7-0-9	7-2-5

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	0.67	Vert(LL)	0.08	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(TL)	-0.07	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(TL)	-0.01	11	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 220 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-15

REACTIONS. All bearings 0-5-8 except (jt=length) 11=0-2-10, 2=0-3-8.
(lb) - Max Horz 2=193(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) except 11=-532(LC 5), 18=-339(LC 8), 15=-962(LC 19), 2=-254(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 2 except 11=545(LC 1), 18=455(LC 1), 15=1277(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-286/76, 5-6=-365/518, 6-7=-379/556, 7-8=-434/533, 8-9=-434/533, 9-10=-696/704, 10-11=-509/457
BOT CHORD 14-15=-533/434, 13-14=-704/696, 12-13=-704/696
WEBS 3-18=-383/320, 4-18=-454/188, 5-17=-108/317, 5-15=-355/228, 6-15=-444/301, 7-15=-1148/1011, 7-14=-255/271, 9-14=-296/215, 9-12=-269/172, 10-12=-763/748

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 532 lb uplift at joint 11, 339 lb uplift at joint 18, 962 lb uplift at joint 15 and 254 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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: 1-3=-54, 3-4=-54, 4-6=-54, 6-10=-54, 2-11=-10
Concentrated Loads (lb)
Vert: 3=-35(F) 19=-14(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T05	Monopitch	1	1	T9462788

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:58 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-3RVXvLuee8vOBNmvKtySIN0uKTuU7nNF9YA29Hye3Jx

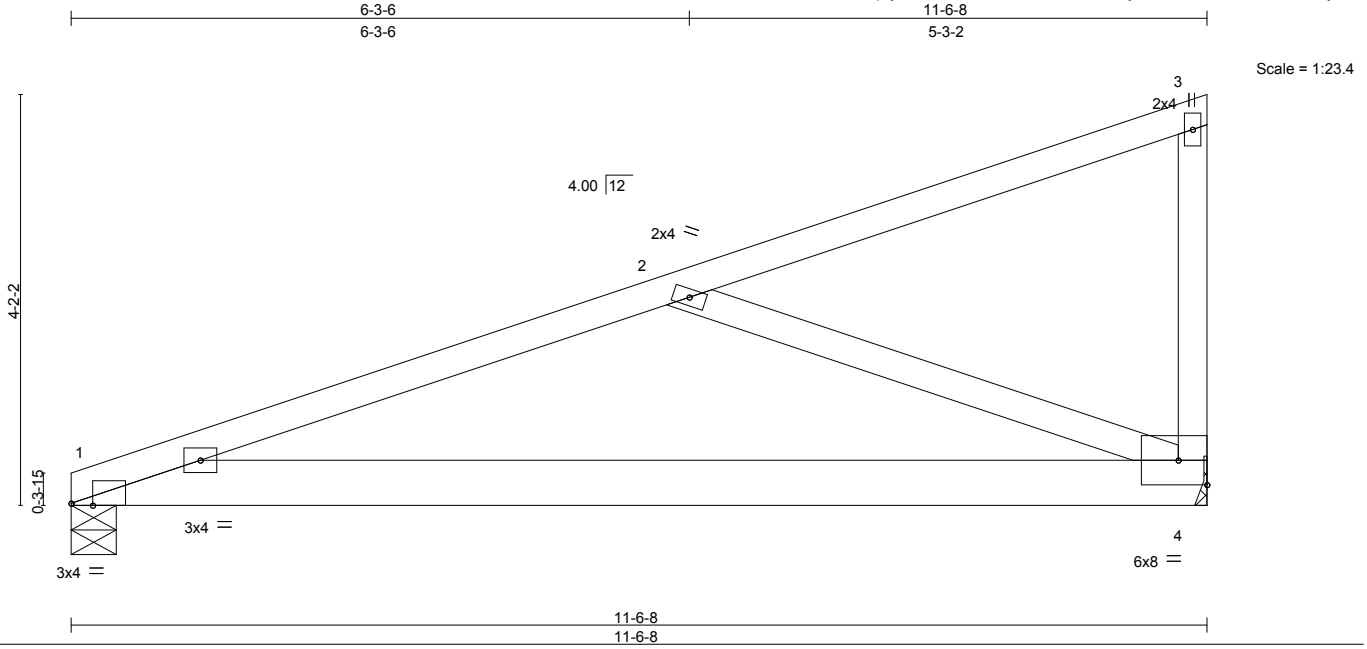


Plate Offsets (X,Y)-- [1:0-2-10,Edge]

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	0.47	Vert(LL)	-0.18	1-4	>727	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(TL)	-0.33	1-4	>405	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 58 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 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-7-14 oc bracing.

REACTIONS. (lb/size) 1=357/0-5-8, 4=357/Mechanical
Max Horz 1=162(LC 8)
Max Uplift 1=-134(LC 8), 4=-188(LC 8)

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

TOP CHORD	1-2=-587/534
BOT CHORD	1-4=-720/526
WEBS	2-4=-536/754

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 1 and 188 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T06	Monopitch	9	1	T9462789

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:58 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-3RVXvLuee8vOBNmvKtySIN0ugTuo7obF9YA29Hye3Jx

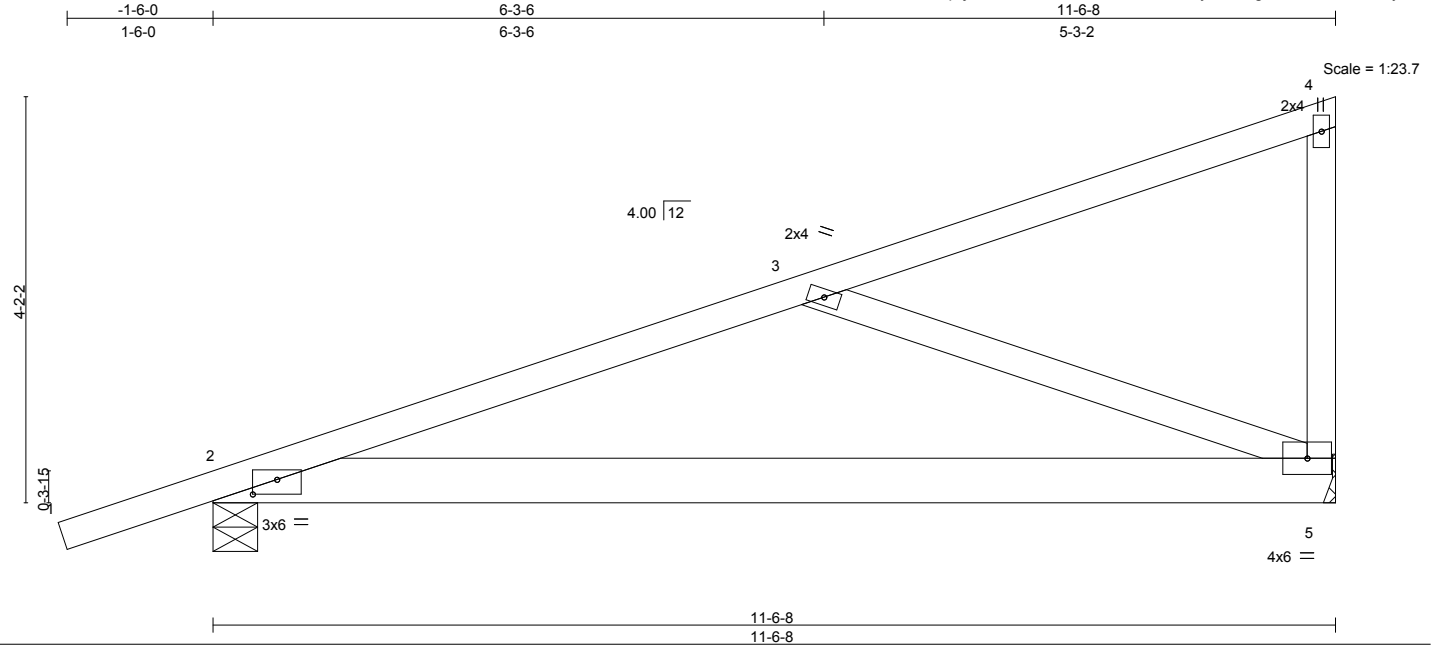


Plate Offsets (X,Y)-- [2:0-3-0,0-1-13]

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)	-0.17	2-5	>767	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(TL)	-0.31	2-5	>430	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 61 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.

REACTIONS. (lb/size) 5=350/Mechanical, 2=461/0-5-8
Max Horz 2=198(LC 8)
Max Uplift 5=-184(LC 12), 2=-241(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-578/502
BOT CHORD 2-5=-684/504
WEBS 3-5=-514/715

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 5 and 241 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T07	Half Hip Girder	1	1	T9462790

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:59 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-Xd3v6gvGPS1FpXL6uaThqbY7DtJwsJ1OOCwbhkye3Jw

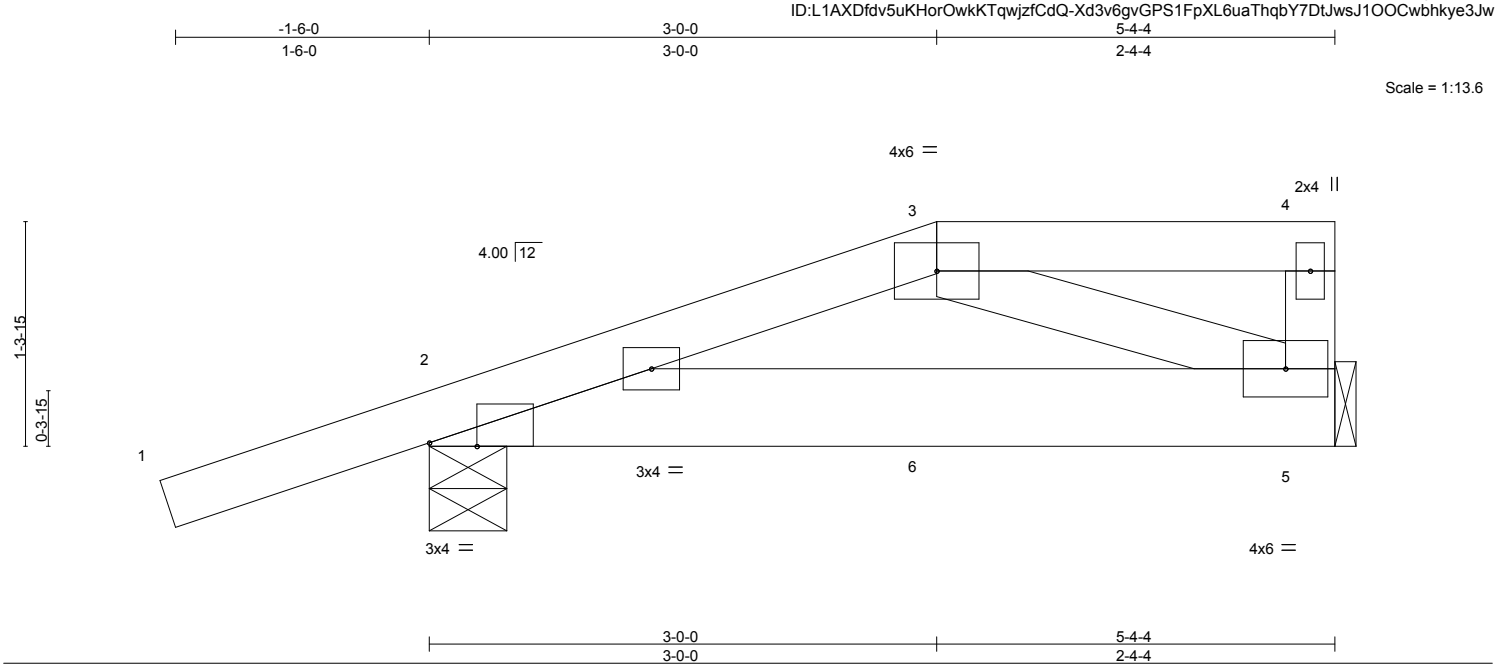


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.20	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(TL)	-0.02	2-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 27 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 5-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=166/Mechanical, 2=276/0-5-8
Max Horz 2=78(LC 4)
Max Uplift 5=-102(LC 5), 2=-193(LC 4)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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 102 lb uplift at joint 5 and 193 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 95 lb up at 3-0-0, and 25 lb down and 54 lb up at 5-2-8 on top chord, and 26 lb down at 3-0-0, and 23 lb down at 5-2-8 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: 1-3=-54, 3-4=-54, 2-5=-10
Concentrated Loads (lb)
Vert: 4=-11(F) 5=-8(F) 6=-9(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T08	Half Hip	1	1	T9462791

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:14:59 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-Xd3v6gvGPS1FpXL6uaThqbY4btKisJfOOCwbhkye3Jw

-1-6-0 / 1-6-0 — 5-0-0 / 5-0-0 — 5-4-4 / 0-4-4

Scale = 1:14.3

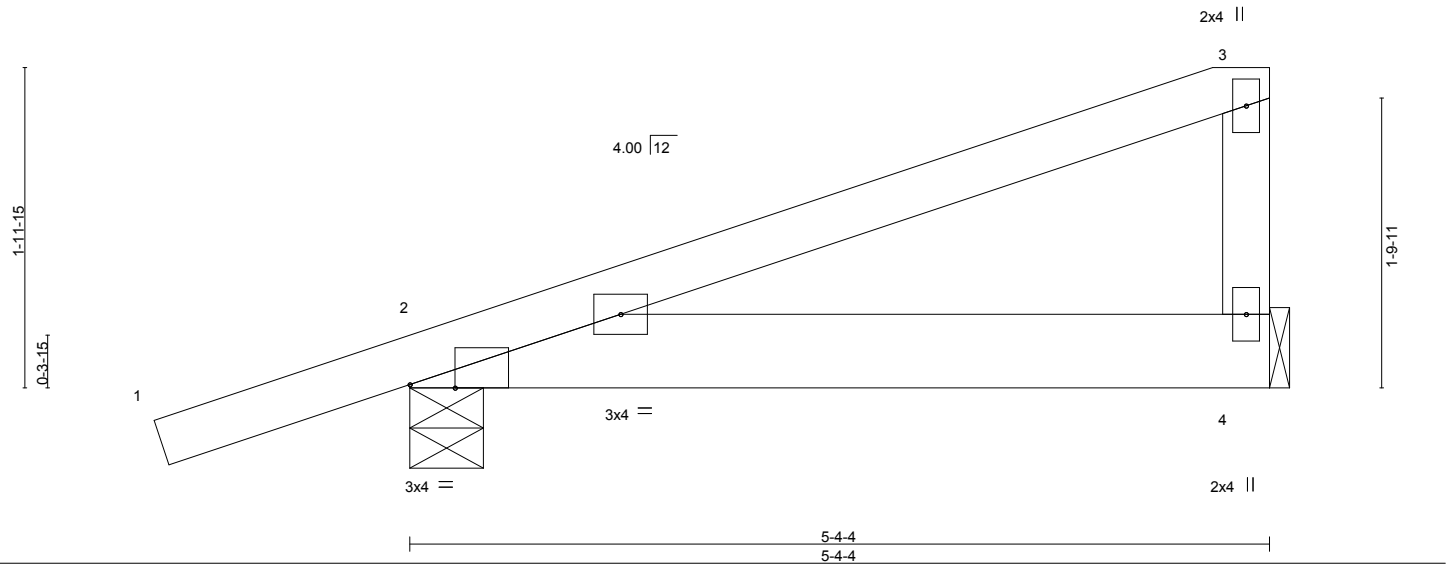


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.44	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	-0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 25 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 5-4-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=142/Mechanical, 2=272/0-5-8
Max Horz 2=109(LC 8)
Max Uplift 4=-75(LC 12), 2=-178(LC 8)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 4 and 178 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T09	Monopitch	3	1	T9462792

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:00 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-0pdHK0wuAl96RhwISI_wNo5FLHfxbmvYdsf8DAye3Jv

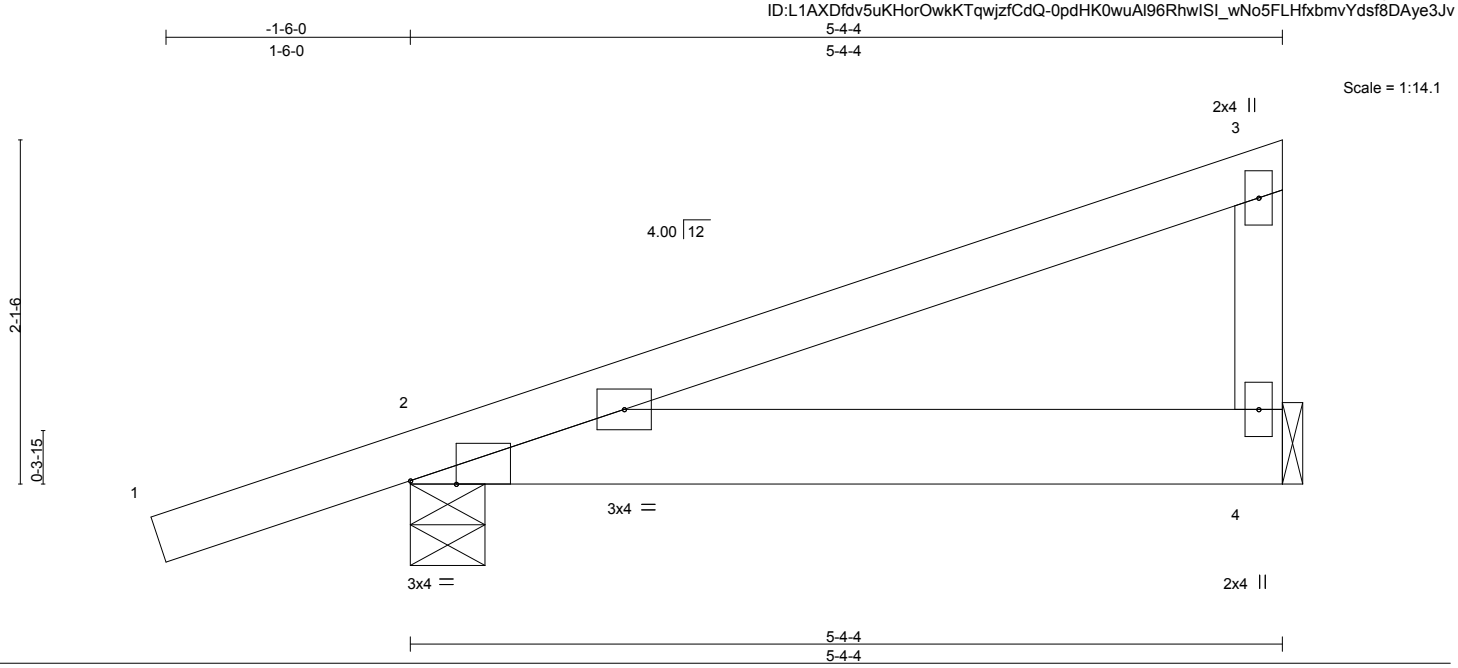


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.44	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	-0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 25 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 5-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=142/Mechanical, 2=272/0-5-8
Max Horz 2=109(LC 8)
Max Uplift 4=-75(LC 12), 2=-178(LC 8)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 4 and 178 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T12G	GABLE	1	1	T9462793

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:00 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-0pdHK0wuAl96RhwISl_wNo5DjHULbmvYdsf8DAye3Jv

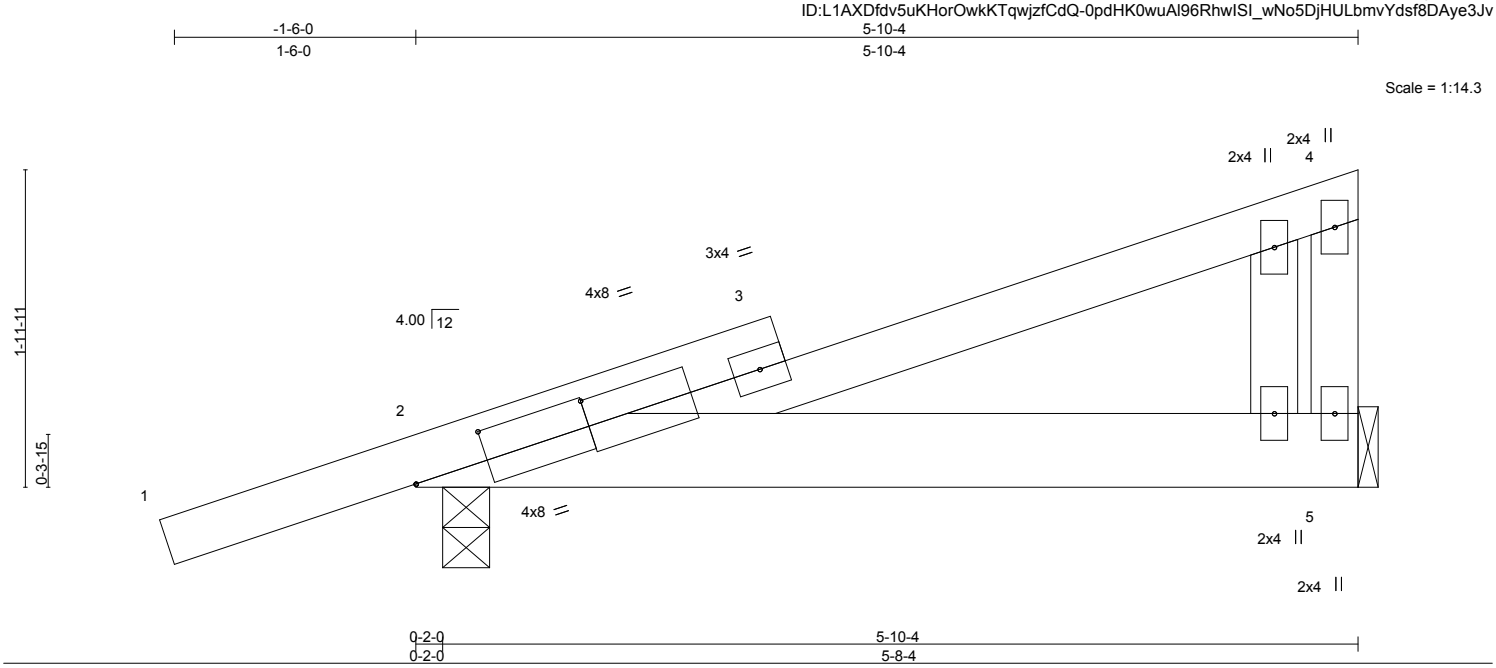


Plate Offsets (X,Y)-- [2:0-5-10,0-2-4], [2:1-1-9,0-2-0]

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	0.54	Vert(LL)	0.04	2-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(TL)	0.04	2-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 5=164/Mechanical, 2=283/0-3-8
Max Horz 2=143(LC 8)
Max Uplift 5=-207(LC 8), 2=-349(LC 8)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 1-4-0 oc.
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 207 lb uplift at joint 5 and 349 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T13	Monopitch	11	1	T9462794

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:01 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-U0BfXMxWw3Hz2qVU0?V9v0eNmhqeKD9hrWPimcye3Ju

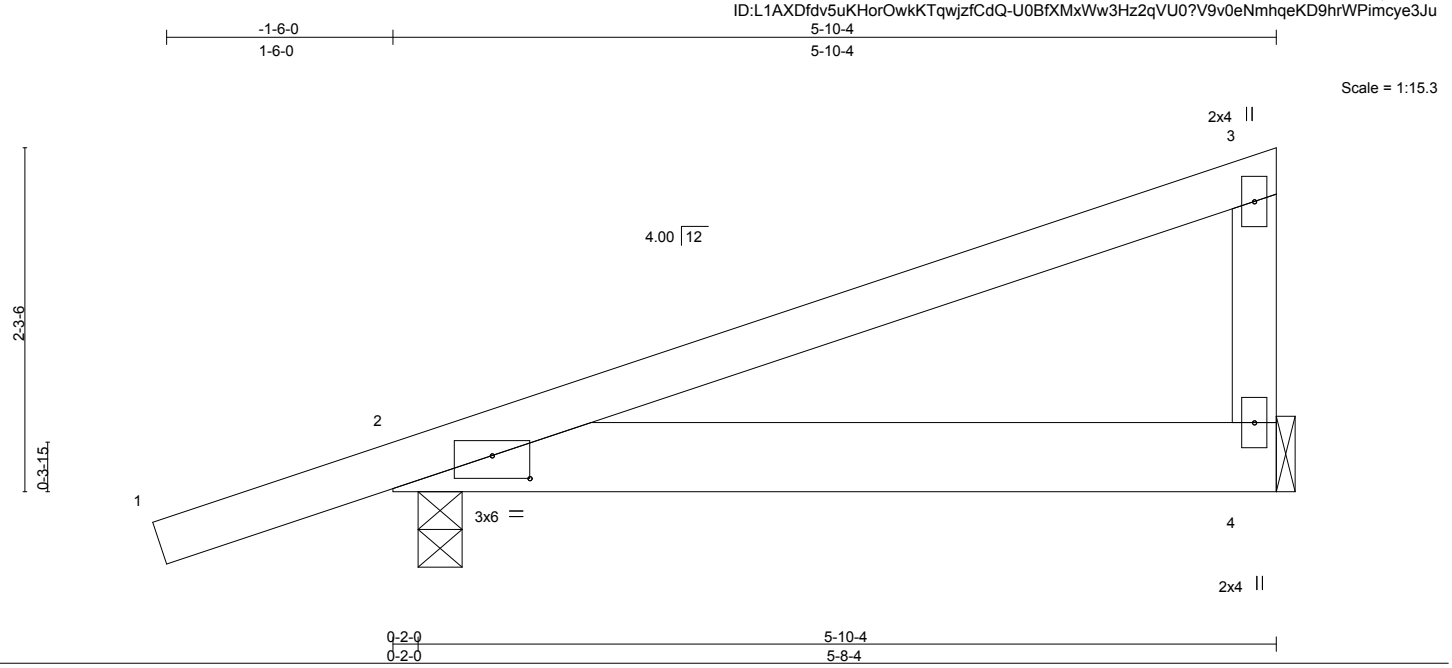


Plate Offsets (X,Y)-- [2:0-3-0,0-1-13]

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)	0.04	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(TL)	0.04	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 28 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 5-10-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=164/Mechanical, 2=283/0-3-8
Max Horz 2=116(LC 8)
Max Uplift 4=-160(LC 8), 2=-259(LC 8)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 4 and 259 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T14	Monopitch	5	1	T9462795

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:01 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-U0BfXMxWw3Hz2qVU0?V9v0eQJhtoKD9hrWPimcye3Ju

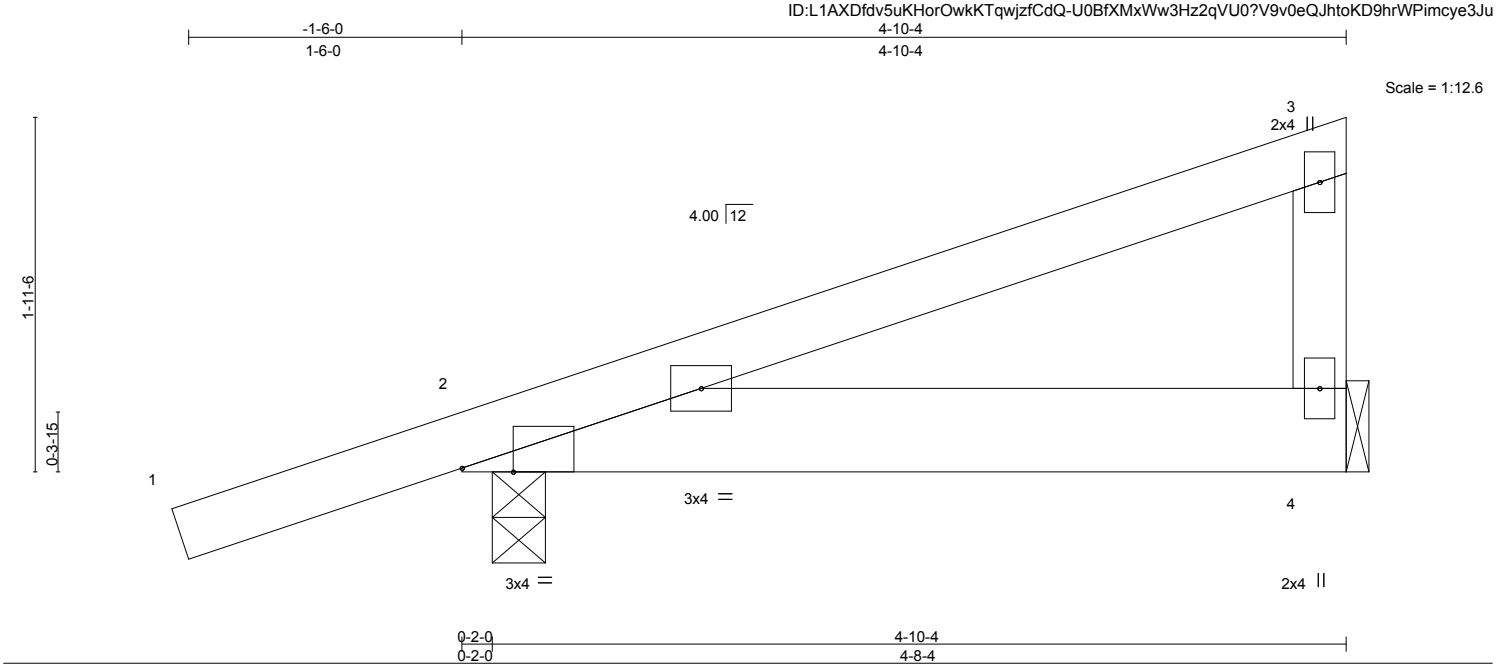


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

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	0.42	Vert(LL)	0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(TL)	0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 23 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 4-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=129/Mechanical, 2=254/0-3-8
Max Horz 2=102(LC 8)
Max Uplift 4=-124(LC 8), 2=-236(LC 8)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) 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
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 4 and 236 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T15	Common	3	1	T9462796

Job Reference (optional)

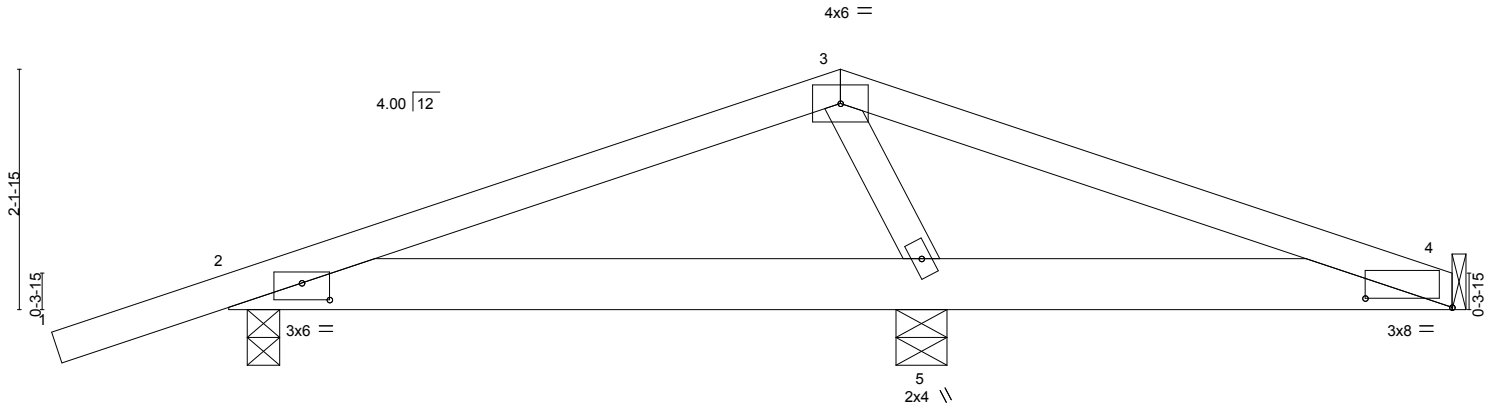
Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:01 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-U0BfXMxWw3Hz2qVU0?V9v0eQ5hshKCRhrWPimcye3Ju

-1-6-0 | 5-6-0 | 11-0-0

1-6-0 | 5-6-0 | 5-6-0

Scale = 1:20.7



0-2-0 | 6-2-12 | 11-0-0

0-2-0 | 6-0-12 | 4-9-4

Plate Offsets (X,Y)-- [2:0-3-0,0-1-13], [4:0-9-6,0-1-0]

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)	0.04	2-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(TL)	0.04	2-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 48 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 4=126/Mechanical, 5=369/0-5-8, 2=287/0-3-8
Max Horz 2=56(LC 8)
Max Uplift 4=-68(LC 13), 5=-243(LC 9), 2=-273(LC 8)
Max Grav 4=137(LC 24), 5=369(LC 1), 2=287(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-5=-294/372

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 4, 243 lb uplift at joint 5 and 273 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T16	Hip Girder	1	1	T9462797

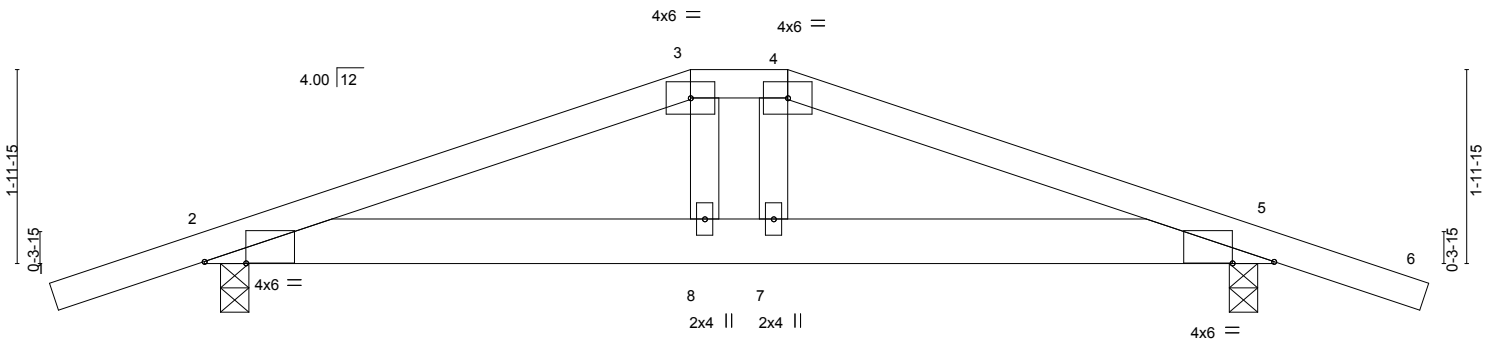
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:02 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-yCl1lix8hNPqg_4hZj1OSDAbT5FJ3flr4A9FI3ye3Jt

-1-6-0	5-0-0	6-0-0	11-0-0	12-6-0
1-6-0	5-0-0	1-0-0	5-0-0	1-6-0

Scale = 1:23.7



0-2-0	5-0-0	6-0-0	10-10-0	11-0-0
0-2-0	4-10-0	1-0-0	4-10-0	0-2-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.07	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(TL)	-0.06	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(TL)	-0.02	5	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 52 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 5-3-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-13 oc bracing.

REACTIONS. (lb/size) 2=608/0-3-8, 5=608/0-3-8
Max Horz 2=-41(LC 24)
Max Uplift 2=-703(LC 4), 5=-703(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1133/1418, 3-4=-1038/1379, 4-5=-1133/1417
BOT CHORD 2-8=-1300/1032, 7-8=-1313/1038, 5-7=-1297/1032

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); cantilever left and right exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 703 lb uplift at joint 2 and 703 lb uplift at joint 5.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 172 lb down and 293 lb up at 5-0-0, and 172 lb down and 293 lb up at 6-0-0 on top chord, and 100 lb down and 177 lb up at 5-0-0, and 100 lb down and 177 lb up at 5-11-3 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: 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-10
Concentrated Loads (lb)
Vert: 3=-125(F) 4=-125(F) 8=-48(F) 7=-48(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T17	Monopitch Girder	1	1	T9462798

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:03 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-QOJQy2ynSgXhI8ft7QYd?RjljUero7f_JquoqVye3Js

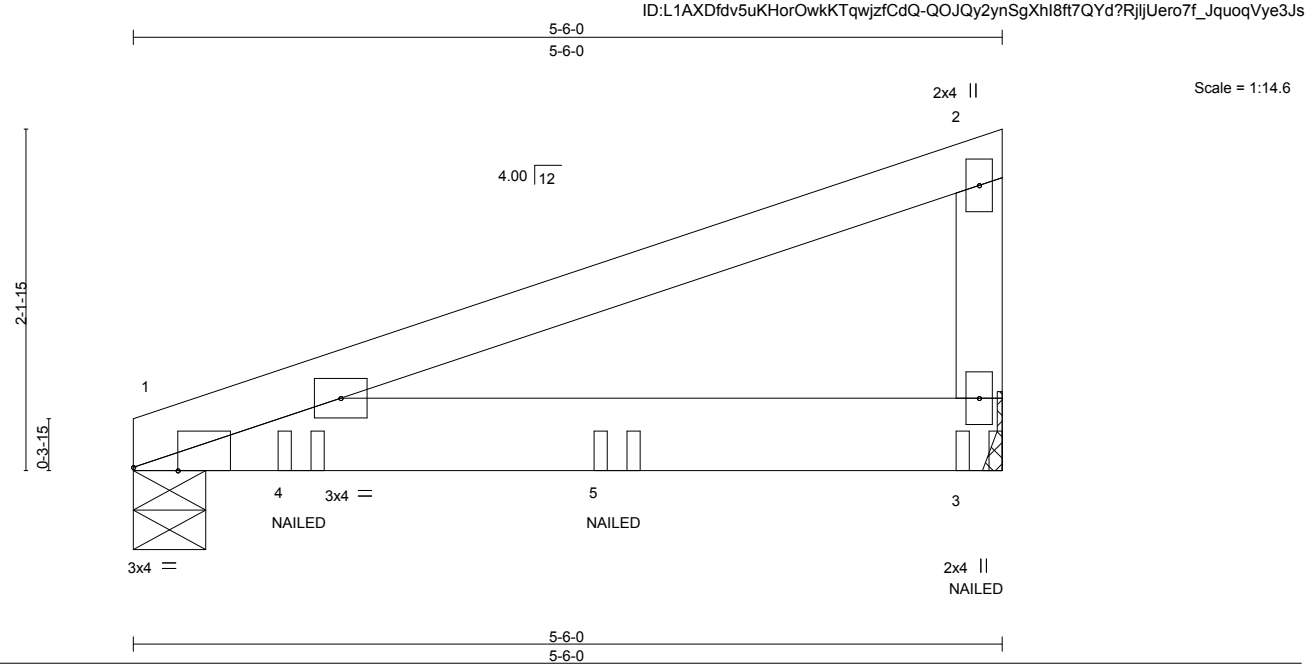


Plate Offsets (X,Y)-- [1:0-3-6,Edge]

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	0.49	Vert(LL)	-0.02	1-3	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	-0.04	1-3	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 24 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 5-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=328/0-5-8, 3=386/Mechanical
Max Horz 1=75(LC 4)
Max Uplift 1=-156(LC 4), 3=-212(LC 4)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 1 and 212 lb uplift at joint 3.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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: 1-2=-54, 1-3=-10
   Concentrated Loads (lb)
   Vert: 3=-131(B) 4=-128(B) 5=-127(B)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T18	Monopitch	7	1	T9462799

Builders FirstSource, Jacksonville, Fl 32244 — Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:03 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-QOJQy2ynSgXhI8ft7QYd?RjI3UhYo7f_JquoqVye3Js

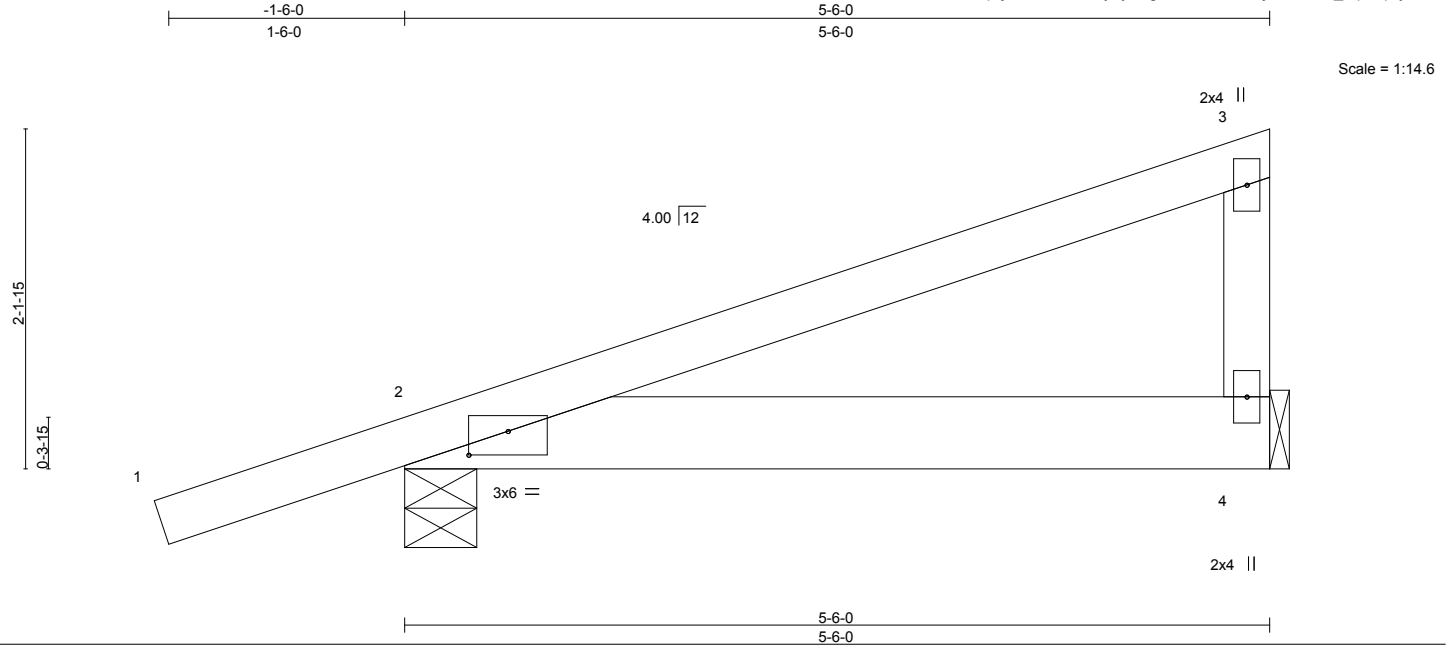


Plate Offsets (X,Y)-- [2:0-3-0,0-1-13]

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)	-0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	-0.02	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 26 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 5-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=147/Mechanical, 2=276/0-5-8
Max Horz 2=111(LC 8)
Max Uplift 4=-77(LC 12), 2=-179(LC 8)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 4 and 179 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T19	Half Hip Girder	1	1	T9462800

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:04 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-ubso9OzPD_fYvIE3h73sXeG_Bu0CXay7YUeMMxye3Jr

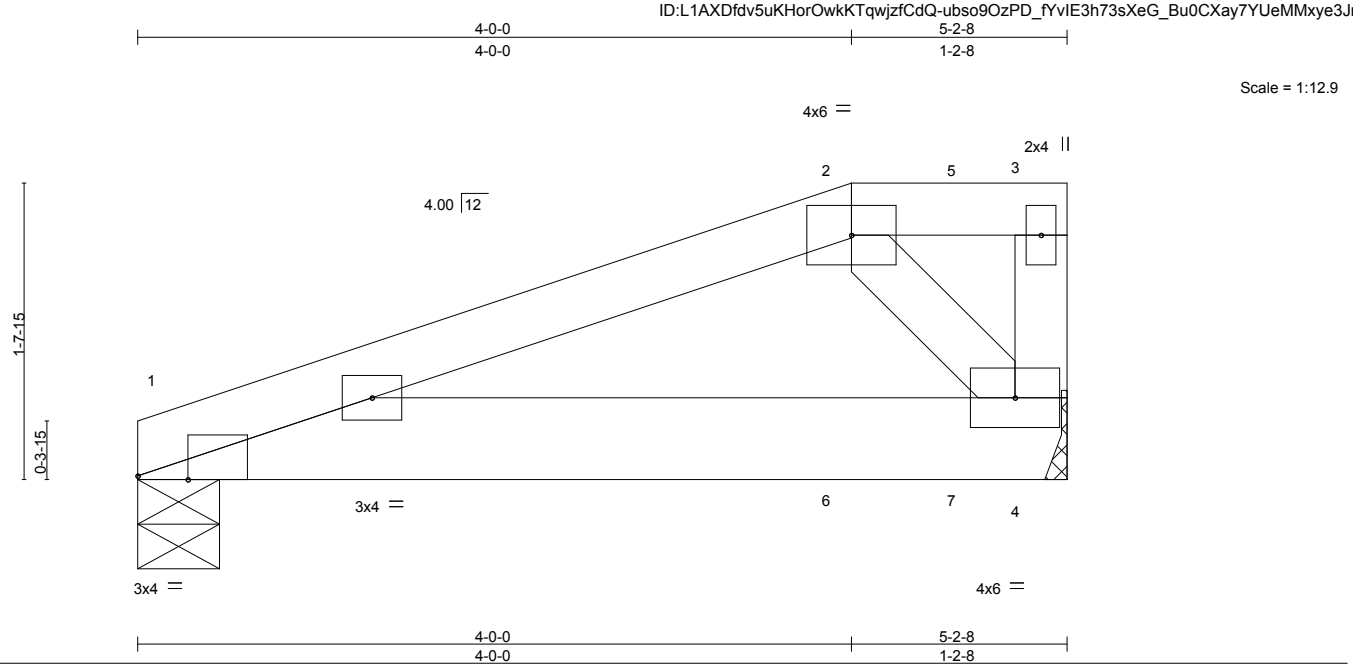


Plate Offsets (X,Y)-- [1:0-3-6,Edge]

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	0.25	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(TL)	-0.02	1-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 24 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 5-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=171/0-5-8, 4=249/Mechanical
Max Horz 1=56(LC 4)
Max Uplift 1=-83(LC 8), 4=-191(LC 4)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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 83 lb uplift at joint 1 and 191 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 49 lb down and 131 lb up at 4-0-0, and 41 lb down and 95 lb up at 4-8-9 on top chord, and 42 lb down at 4-0-0, and 35 lb down at 4-8-9 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: 1-2=-54, 2-3=-54, 1-4=-10
Concentrated Loads (lb)
Vert: 2=-44(F) 5=-41(F) 6=-14(F) 7=-12(F)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T20	Monopitch Girder	1	1	T9462801

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:04 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-ubso9OzPD_fYvIE3h73sXeGxOuuDXau7YUeMMxye3Jr

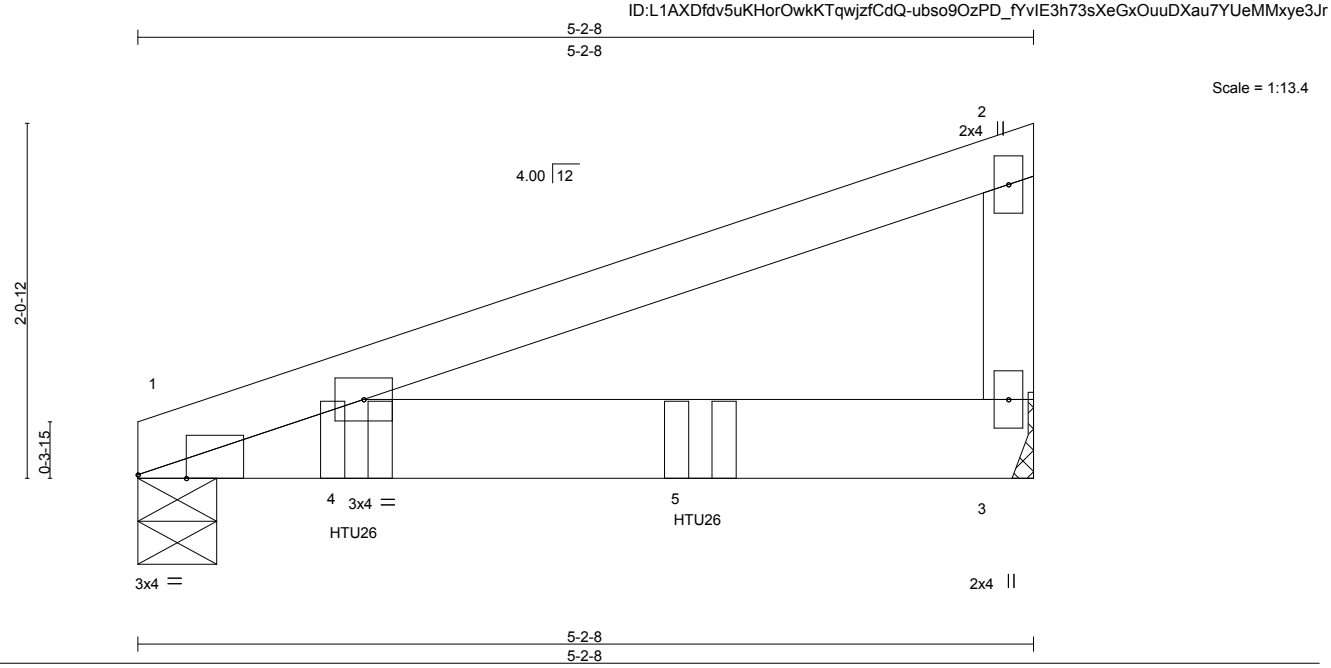


Plate Offsets (X,Y)-- [1:0-3-6,Edge]

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	0.43	Vert(LL)	-0.05	1-3	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(TL)	-0.10	1-3	>598	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 22 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 5-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=574/0-5-8, 3=462/Mechanical
Max Horz 1=71(LC 4)
Max Uplift 1=-230(LC 4), 3=-207(LC 4)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 1 and 207 lb uplift at joint 3.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-3-4 from the left end to 3-3-4 to connect truss(es) to back face of bottom chord.
8) Fill all nail holes where hanger is in contact with lumber.
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: 1-2=-54, 1-3=-10
Concentrated Loads (lb)
Vert: 4=-363(B) 5=-363(B)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T21	Half Hip Girder	1	1	T9462802

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:05 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-MnQANk_1_InOXSoGFra54so_IIHhGrBHm8NvvNye3Jq

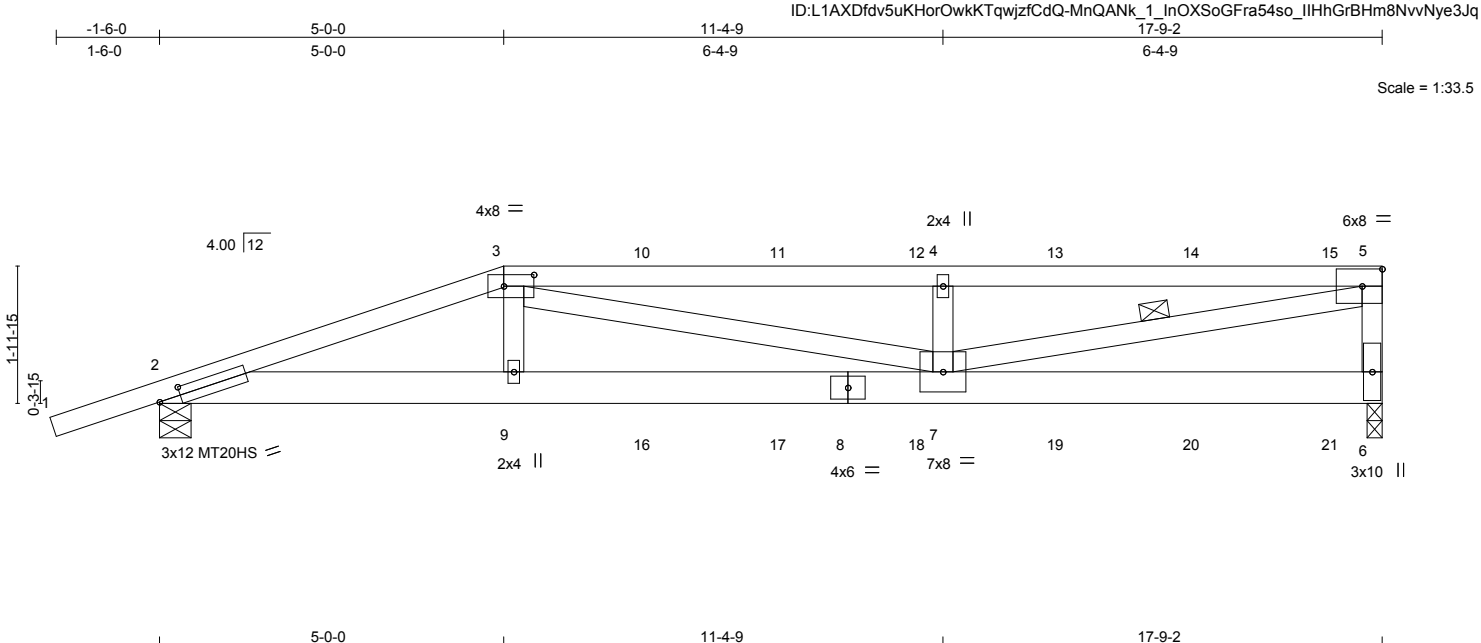


Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [3:0-5-4,0-2-0]

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	0.93	Vert(LL)	0.31	7-9	>675	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(TL)	-0.29	7-9	>722	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(TL)	-0.03	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 94 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 2-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (lb/size) 6=892/0-2-10, 2=910/0-5-8
Max Horz 2=106(LC 19)
Max Uplift 6=-946(LC 4), 2=-820(LC 4)

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

TOP CHORD 2-3=-2098/2022, 3-10=-2249/2343, 10-11=-2249/2343, 11-12=-2249/2343, 4-12=-2249/2343, 4-13=-2249/2343, 13-14=-2249/2343, 14-15=-2249/2343, 5-15=-2249/2343, 5-6=-798/824
BOT CHORD 2-9=-1940/1948, 9-16=-1948/1960, 16-17=-1948/1960, 8-17=-1948/1960, 8-18=-1948/1960, 7-18=-1948/1960
WEBS 3-9=-99/327, 3-7=-407/299, 4-7=-572/565, 5-7=-2269/2178

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 946 lb uplift at joint 6 and 820 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down and 289 lb up at 5-0-0, 55 lb down and 131 lb up at 7-0-12, 55 lb down and 131 lb up at 9-0-12, 55 lb down and 131 lb up at 11-0-12, 55 lb down and 131 lb up at 13-0-12, and 55 lb down and 131 lb up at 15-0-12, and 67 lb down and 130 lb up at 17-0-12 on top chord, and 98 lb down and 58 lb up at 5-0-0, 41 lb down and 65 lb up at 7-0-12, 41 lb down and 65 lb up at 9-0-12, 41 lb down and 65 lb up at 11-0-12, 41 lb down and 65 lb up at 13-0-12, and 41 lb down and 65 lb up at 15-0-12, and 47 lb down and 63 lb up at 17-0-12 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
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 2-6=-10

Concentrated Loads (lb)

Vert: 3=-122(F) 9=-46(F) 10=-55(F) 11=-55(F) 12=-55(F) 13=-55(F) 14=-55(F) 15=-67(F) 16=-14(F) 17=-14(F) 18=-14(F) 19=-14(F) 20=-14(F) 21=-16(F)

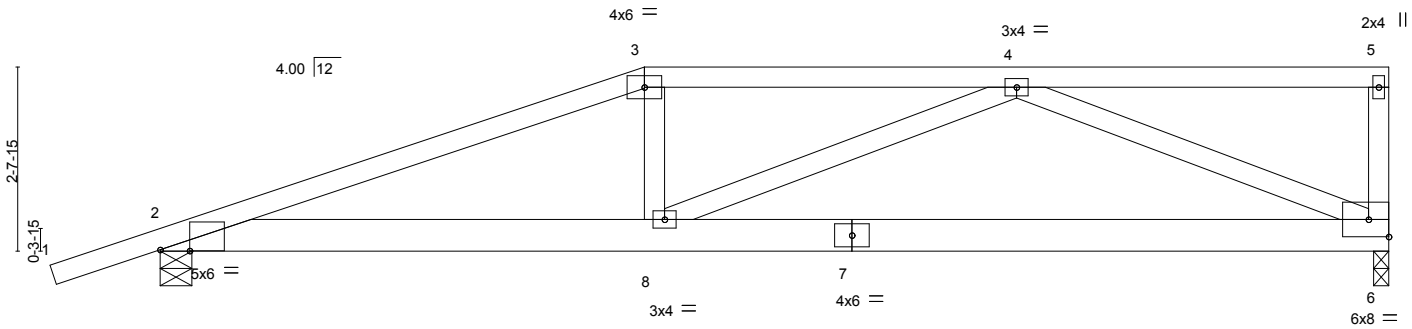
Job	Truss	Truss Type	Qty	Ply	
865106	T22	Half Hip	1	1	T9462803

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:06 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-qz_Ya4_flbvF9cNSoY5Kc3LFkieH?KvQ?o7TRqye3Jp

Scale = 1:33.3



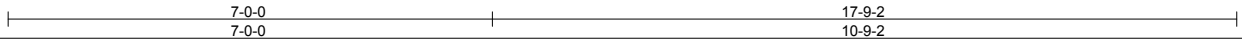


Plate Offsets (X,Y)-- [2:0-5-2,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.10	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(TL)	-0.20	6-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 93 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 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-8 oc bracing.

REACTIONS. (lb/size) 6=551/0-2-10, 2=657/0-5-8
Max Horz 2=135(LC 8)
Max Uplift 6=-251(LC 8), 2=-348(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1171/827, 3-4=-1053/843
BOT CHORD 2-8=-847/1049, 7-8=-794/905, 6-7=-794/905
WEBS 4-8=-53/319, 4-6=-945/847

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 6 and 348 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T23	Roof Special	1	1	T9462804

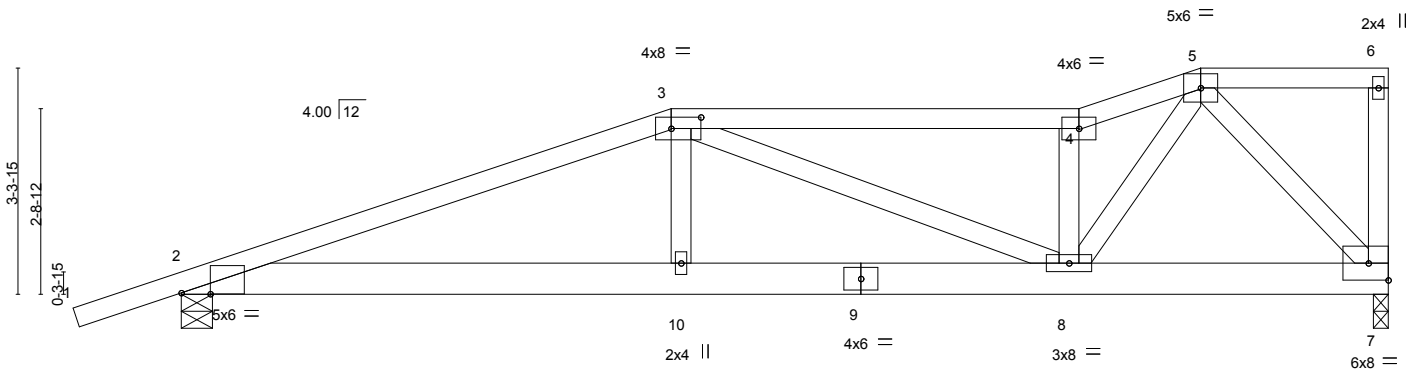
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:06 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-qz_Ya4_flbvF9cNSoY5Kc3LERifG?PpQ?o7TRqye3Jp

-1-6-0	7-2-8	13-2-8	15-0-0	17-9-2
1-6-0	7-2-8	6-0-0	1-9-8	2-9-2

Scale = 1:33.9



7-2-8	13-2-8	17-9-2
7-2-8	6-0-0	4-6-10

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

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	0.59	Vert(LL)	0.05	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(TL)	-0.09	2-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.02	7	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 100 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 4-7-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-6-2 oc bracing.

REACTIONS. (lb/size) 7=551/0-2-10, 2=657/0-5-8
Max Horz 2=164(LC 8)
Max Uplift 7=-256(LC 8), 2=-344(LC 8)

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

TOP CHORD	2-3=-1150/832, 3-4=-801/614, 4-5=-904/712
BOT CHORD	2-10=-895/1029, 9-10=-895/1035, 8-9=-895/1035, 7-8=-347/410
WEBS	3-8=-253/258, 4-8=-515/464, 5-8=-613/771, 5-7=-604/513

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 7 and 344 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T24	Roof Special Girder	1	1	T9462805

Job Reference (optional)

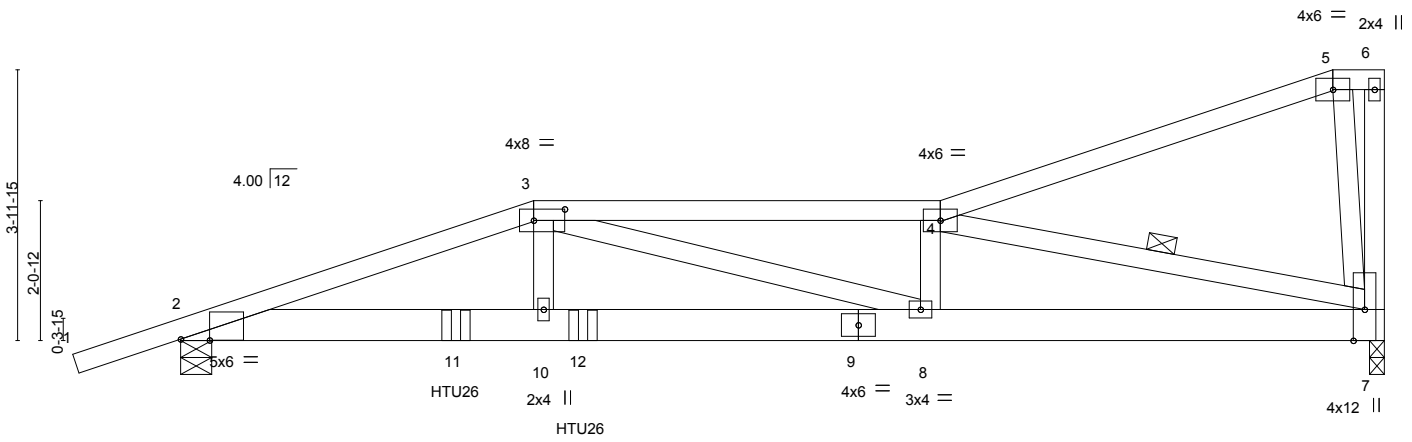
Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:07 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-lAYwoP?HWv16mIyeMGcZ9HuNV6wZknTaESs0zGye3Jo

-1-6-0 | 5-2-8 | 11-2-8 | 17-0-0 | 17-9-2

1-6-0 | 5-2-8 | 6-0-0 | 5-9-8 | 0-9-2

Scale = 1:34.0



5-2-8 | 11-2-8 | 17-9-2

5-2-8 | 6-0-0 | 6-6-10

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

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	0.76	Vert(LL)	0.16	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(TL)	-0.27	8-10	>783	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 102 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 3-0-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-13 oc bracing.
WEBS 1 Row at midpt 4-7

REACTIONS. (lb/size) 7=752/0-2-10, 2=1146/0-5-8
Max Horz 2=193(LC 4)
Max Uplift 7=-375(LC 4), 2=-635(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2689/1326, 3-4=-2118/957
BOT CHORD 2-11=-1368/2505, 10-11=-1368/2505, 10-12=-1398/2565, 9-12=-1398/2565, 8-9=-1398/2565, 7-8=-1036/2101
WEBS 3-10=-342/691, 3-8=-465/435, 4-8=-67/279, 4-7=-2111/1031, 5-7=-300/221

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 375 lb uplift at joint 7 and 635 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 1-10-8 oc max. starting at 4-0-12 from the left end to 5-11-4 to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
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

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-5=-54, 5-6=-54, 2-7=-10
Concentrated Loads (lb)
Vert: 11=-239(B) 12=-452(B)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T25	Monopitch	2	1	T9462806

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:07 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-IAYwoP?HWv16mIyeMGcZ9HuNj6x?ksiaESs0zGye3Jo

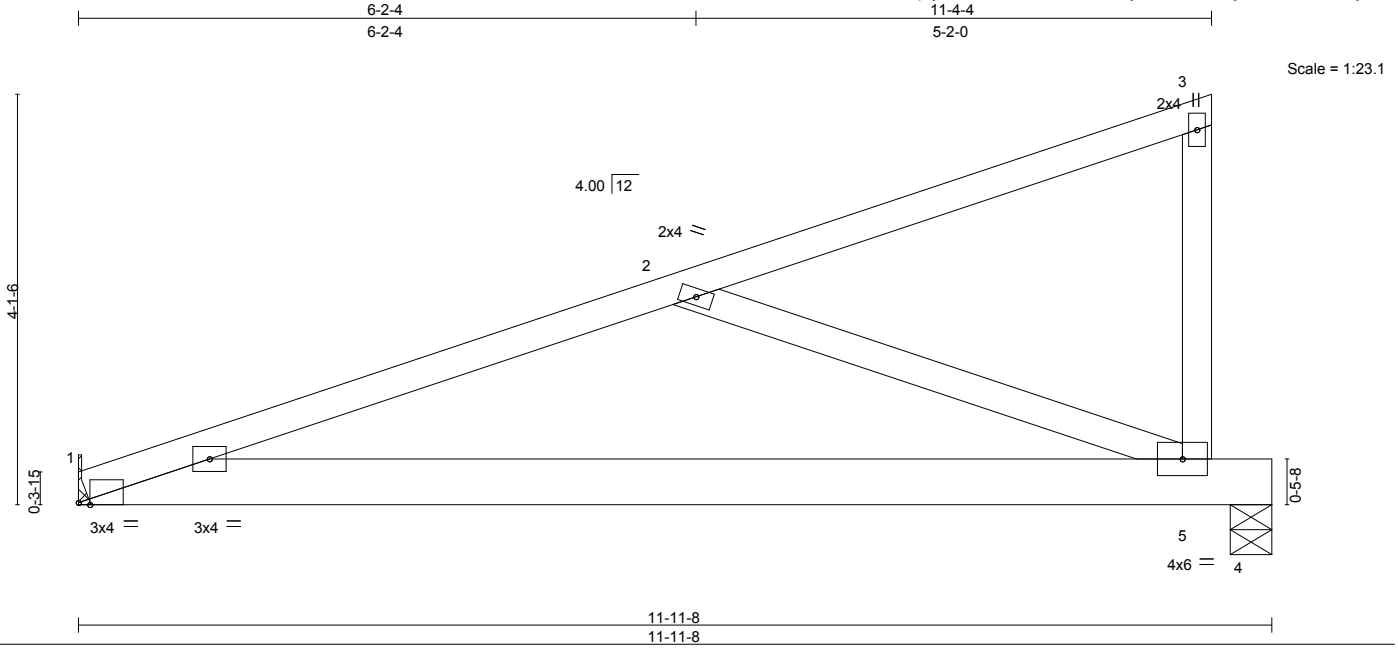


Plate Offsets (X,Y)-- [1:0-1-6,Edge]

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	0.75	Vert(LL)	-0.21	1-5	>673	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(TL)	-0.39	1-5	>355	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 59 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-3 oc bracing.

REACTIONS. (lb/size) 1=373/Mechanical, 4=345/0-5-0
Max Horz 1=159(LC 8)
Max Uplift 1=-143(LC 8), 4=-175(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-612/563
BOT CHORD 1-5=-747/552
WEBS 2-5=-544/765

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 1 and 175 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T26	Roof Special	8	1	T9462807

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:08 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-nM6J?l0vHDAzOvXqwz8ohUQZNVInTJljS6cZViye3Jn

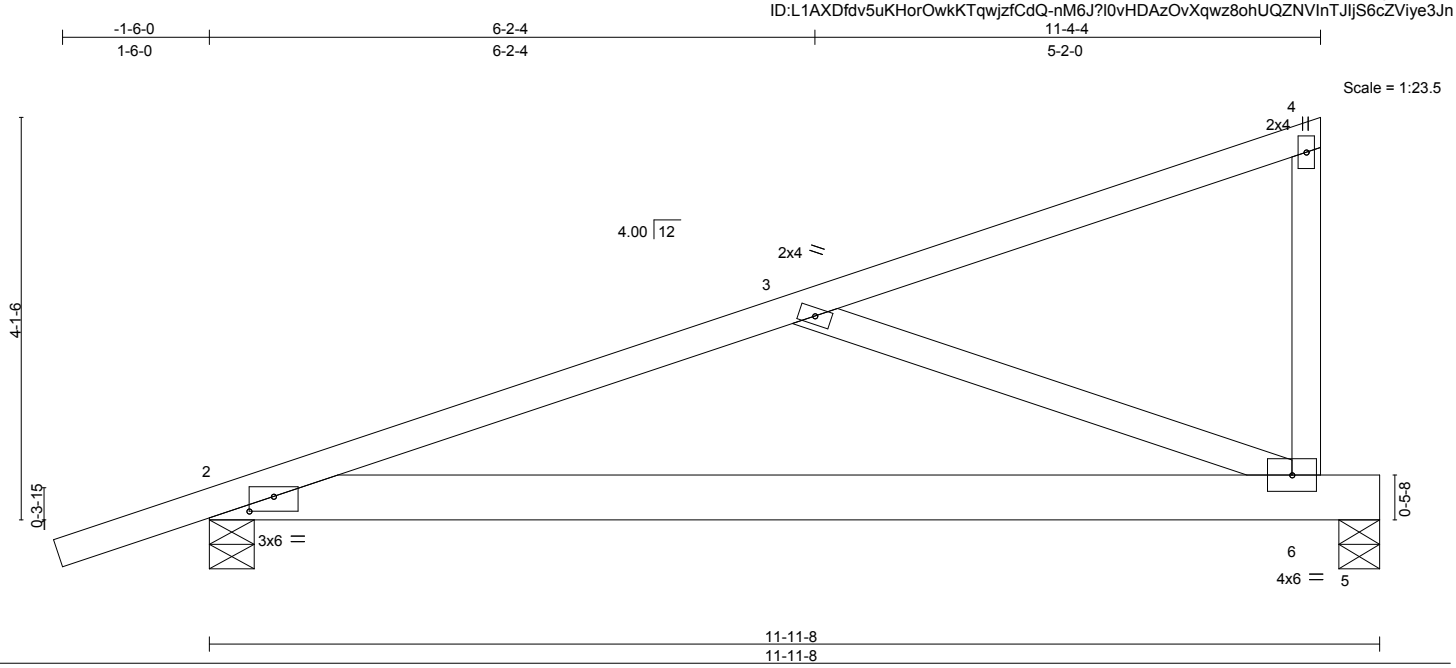


Plate Offsets (X,Y)-- [2:0-3-0,0-1-13]

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	0.69	Vert(LL)	-0.19	2-6	>737	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(TL)	-0.35	2-6	>392	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 61 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-0 oc bracing.

REACTIONS. (lb/size) 2=471/0-5-8, 5=333/0-5-0
Max Horz 2=196(LC 8)
Max Uplift 2=-247(LC 8), 5=-169(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-588/516
BOT CHORD 2-6=-695/516
WEBS 3-6=-507/710

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 2 and 169 lb uplift at joint 5.
5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T27G	Monopitch Supported Gable	2	1	T9462808

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:08 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-nM6J?l0vHDAzOvXqwz8ohUQgoVP7TNujS6cZViye3Jn

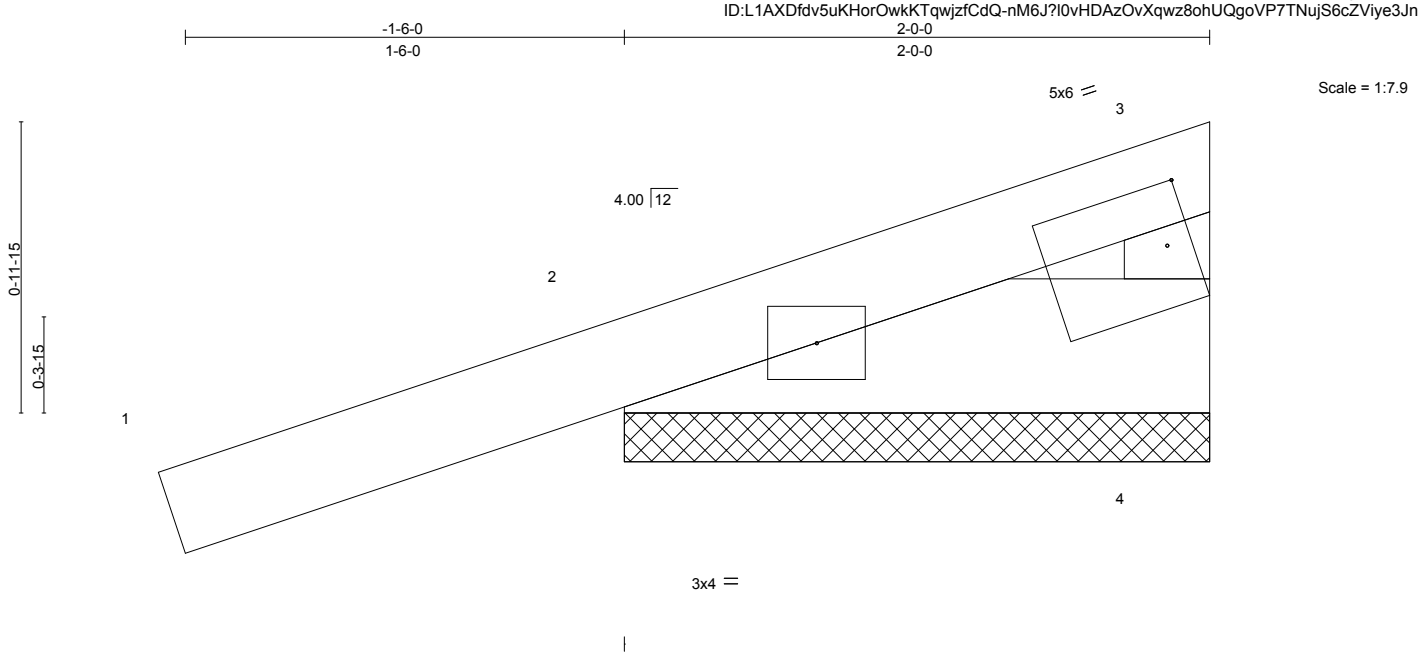


Plate Offsets (X,Y)-- [3:0-1-0,0-2-8]

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	0.21	Vert(LL)	0.01	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 11 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=25/2-0-0, 2=178/2-0-0
Max Horz 2=82(LC 8)
Max Uplift 4=-16(LC 12), 2=-209(LC 8)
Max Grav 4=32(LC 3), 2=178(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 1-4-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 16 lb uplift at joint 4 and 209 lb uplift at joint 2.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T28	Monopitch	6	1	T9462809

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:08 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-nM6J?l0vHDAzOvXqwz8ohUQgbVP8TNujS6cZViye3Jn

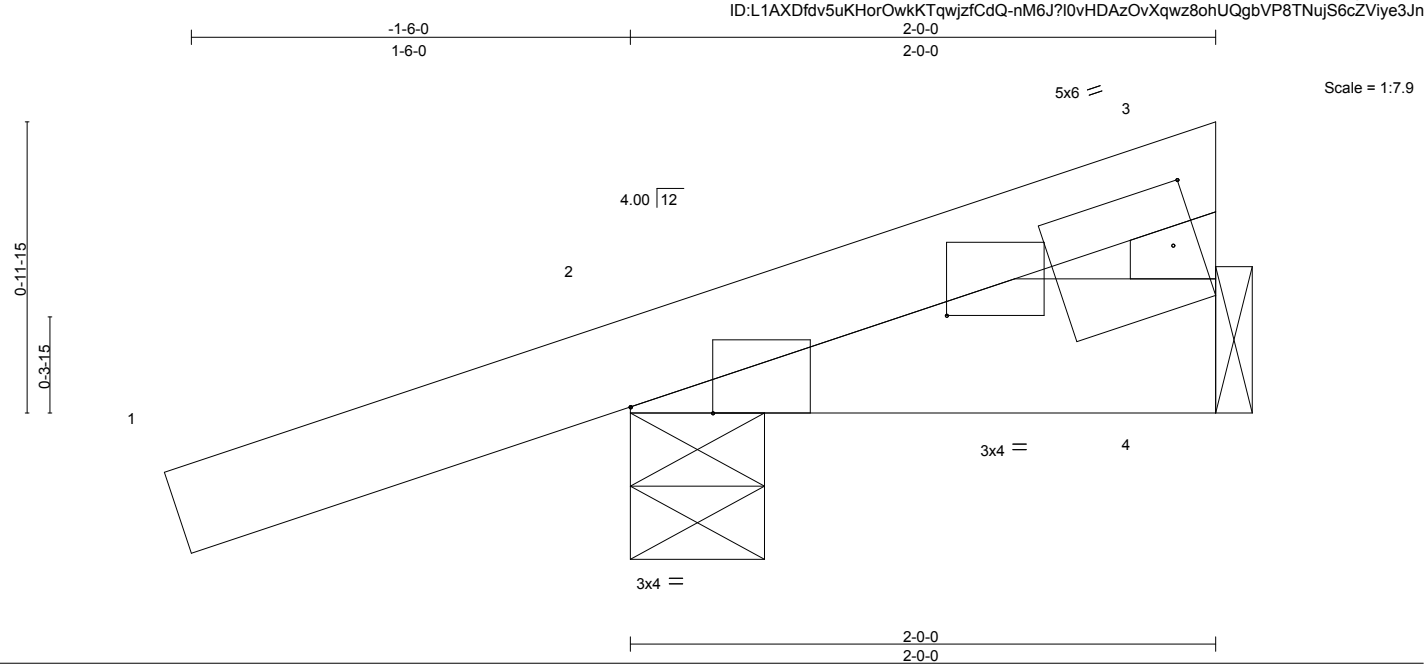


Plate Offsets (X,Y)-- [2:1-0-15,0-3-12], [2:0-3-6,Edge], [3:0-1-0,0-2-8]

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	0.23	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 11 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=20/Mechanical, 2=182/0-5-8
Max Horz 2=61(LC 8)
Max Uplift 4=-9(LC 12), 2=-155(LC 8)
Max Grav 4=30(LC 3), 2=182(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 4 and 155 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T29G	GABLE	1	1	T9462810

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:10 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-jlE3QR2ApqQheDhD1OAGnvWyoJ1ux9J0wP5gabye3Jl

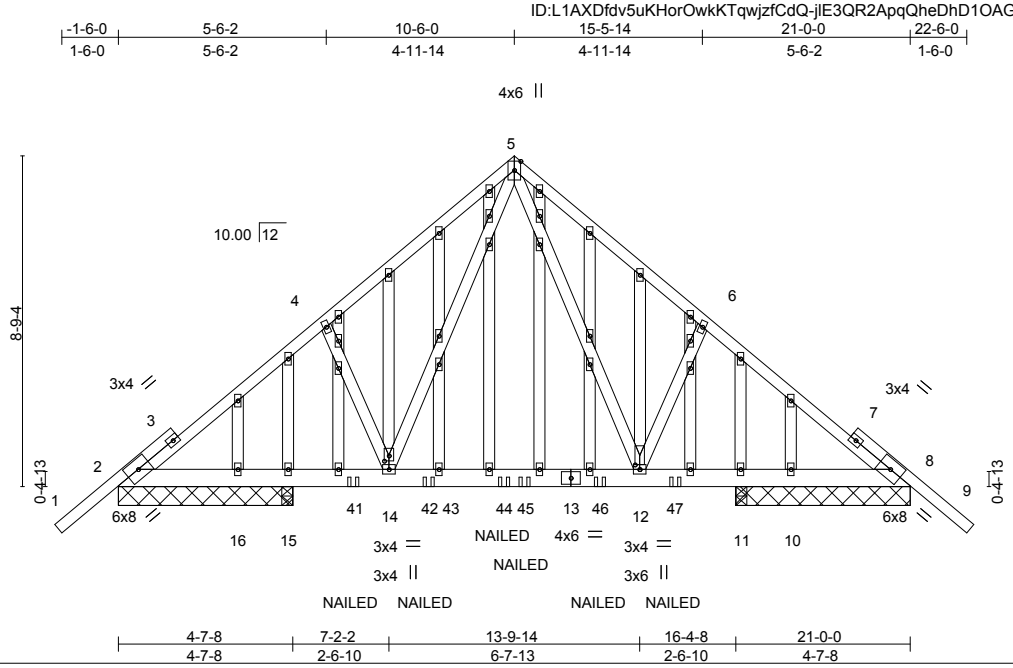


Plate Offsets (X,Y)-- [12:0-1-8,0-1-8], [14:0-1-11,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.08	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(TL)	-0.10	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(TL)	0.01	8	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 220 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
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 10-0-0 oc bracing.

REACTIONS. All bearings 4-7-8 except (jt=length) 15=0-3-8, 15=0-3-8, 11=0-3-8, 11=0-3-8.
(lb) - Max Horz 2=-386(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10 except 2=-355(LC 8), 8=-361(LC 9), 15=-194(LC 8), 11=-175(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 15, 15, 11, 11 except 2=607(LC 33), 8=612(LC 34)

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

TOP CHORD	2-3=-811/381, 3-4=-775/418, 4-5=-723/523, 5-6=-734/535, 6-7=-759/406, 7-8=-796/370
BOT CHORD	2-16=-342/787, 15-16=-342/787, 15-41=-342/787, 14-41=-342/787, 14-42=-115/502, 42-43=-115/502, 43-44=-115/502, 44-45=-115/502, 13-45=-115/502, 13-46=-115/502, 12-46=-115/502, 12-47=-199/626, 11-47=-199/626, 10-11=-199/626, 8-10=-199/626
WEBS	5-12=-339/426, 6-12=-337/430, 5-14=-331/421, 4-14=-336/430

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10 except (jt=lb) 2=355, 8=361, 15=194, 11=175.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
11) 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: 1-5=-54, 5-9=-54, 2-8=-10

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 41=-10(B) 42=-10(B) 44=-10(B) 45=-10(B) 46=-10(B) 47=-10(B)

Job	Truss	Truss Type	Qty	Ply	
865106	T30	Common	5	1	T9462811

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:11 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-BxoRdn2oa8YYFNGPb5hVJ728fjMDgb4993qE61ye3Jk

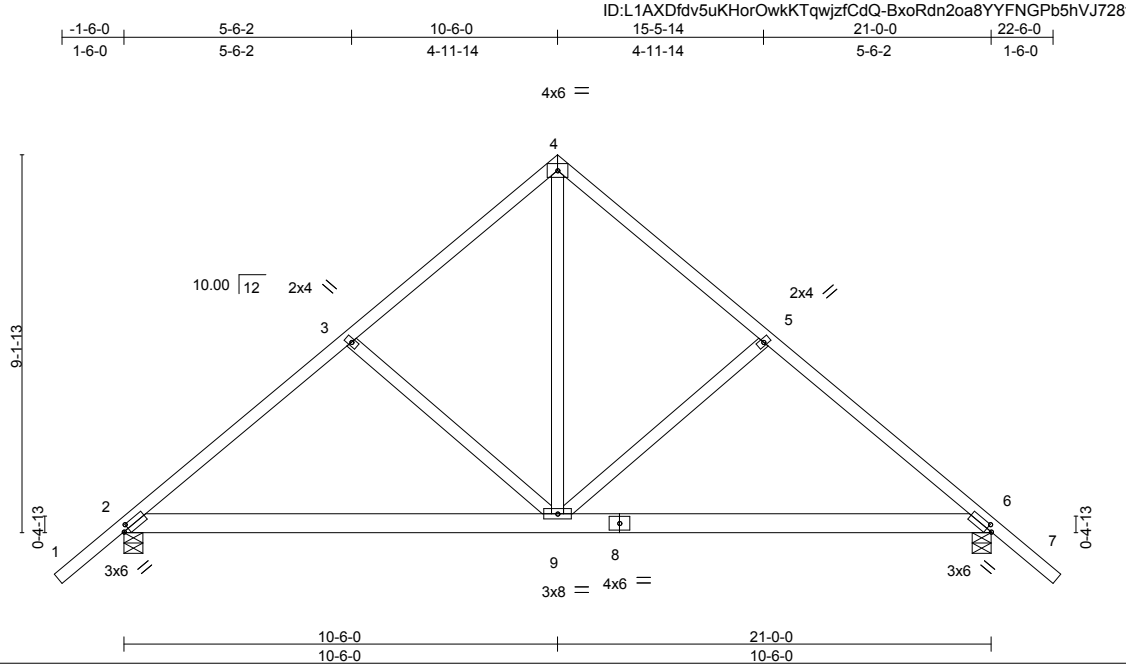


Plate Offsets (X,Y)-- [2:0-1-9,0-1-8], [6:0-1-9,0-1-8]

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	0.43	Vert(LL)	-0.07	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(TL)	-0.13	2-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							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 5-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=756/0-5-8, 6=756/0-5-8
Max Horz 2=320(LC 11)
Max Uplift 2=-275(LC 12), 6=-275(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-902/556, 3-4=-793/528, 4-5=-793/528, 5-6=-902/556
BOT CHORD 2-9=-220/689, 8-9=-216/627, 6-8=-216/627
WEBS 4-9=-429/700, 5-9=-424/383, 3-9=-425/383

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=275, 6=275.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T31G	GABLE	1	1	T9462812

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:12 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-f7Lpr73QLRgPtXrc9pCksKbFn7fePyaJNjanfTye3Jj

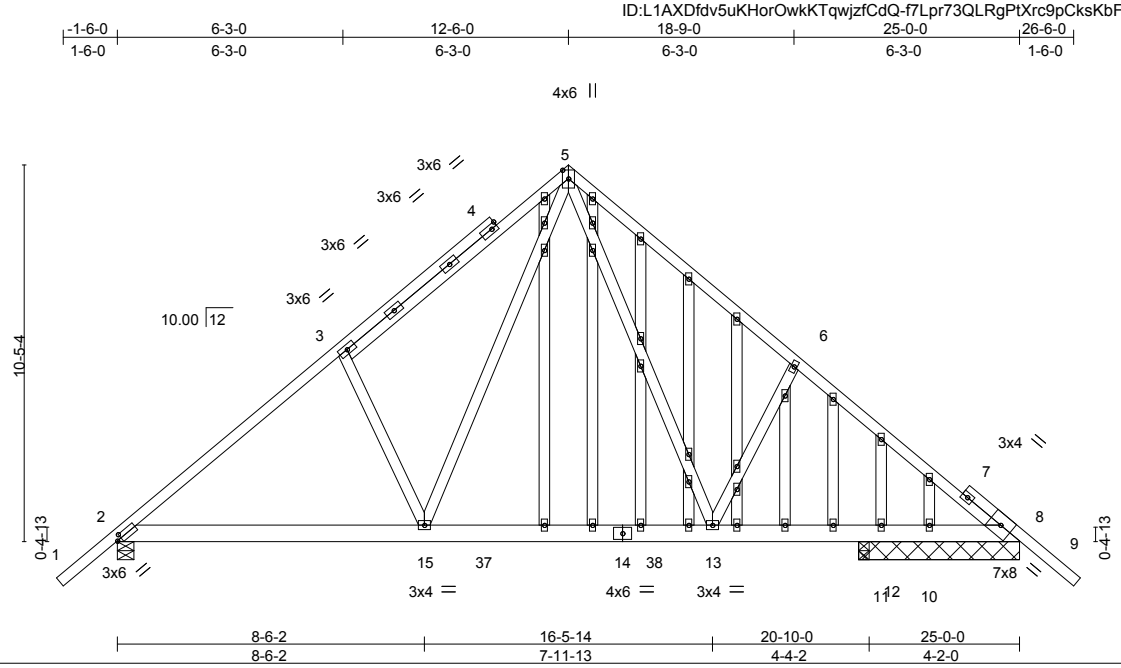


Plate Offsets (X,Y)-- [2:0-1-9,0-1-8]

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	0.66	Vert(LL)	-0.08	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(TL)	-0.13	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 244 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-5-8 except (jt=length) 2=0-5-8, 12=0-3-8.

(lb) - Max Horz 2=-452(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-518(LC 12), 8=-360(LC 13), 11=-679(LC 1), 10=-278(LC 13), 12=-458(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 2=867(LC 19), 8=636(LC 20), 11=544(LC 13), 10=376(LC 20), 12=627(LC 1)

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

TOP CHORD	2-3=-1071/656, 3-4=-1132/783, 4-5=-1092/793, 5-6=-1064/779, 6-7=-948/633, 7-8=-968/581
BOT CHORD	2-15=-459/967, 15-37=-114/622, 14-37=-114/622, 14-38=-114/622, 13-38=-114/622, 12-13=-277/755, 11-12=-277/755, 10-11=-277/755, 8-10=-277/755
WEBS	5-13=-381/473, 6-13=-516/510, 5-15=-443/626, 3-15=-469/484

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 518 lb uplift at joint 2, 360 lb uplift at joint 8, 679 lb uplift at joint 11, 278 lb uplift at joint 10 and 458 lb uplift at joint 12.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek

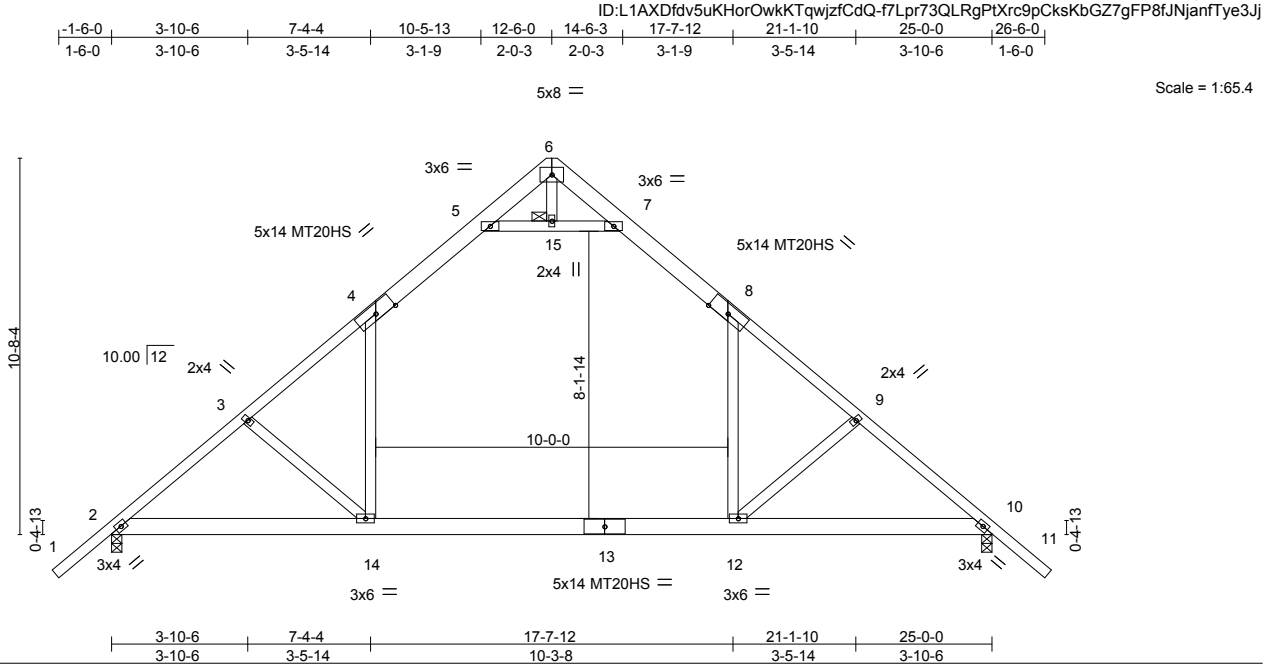
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T32	ATTIC	11	1	T9462813

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:12 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-f7Lpr73QLRgPtXrc9pCksKbGZ7gFP8fJNjanfTye3Jj



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)	-0.35	12-14	>843	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(TL)	-0.75	12-14	>395	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(TL)	0.03	10	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)		Attic	-0.20	12-14	616	360	Weight: 164 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP M 26 *Except*
1-4,8-11: 2x4 SP M 31
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.2 *Except*
3-14,9-12,6-15: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 15

REACTIONS. (lb/size) 2=1099/0-3-8, 10=1099/0-3-8
Max Horz 2=370(LC 11)
Max Uplift 2=-166(LC 12), 10=-166(LC 13)
Max Grav 2=1261(LC 20), 10=1261(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1766/474, 3-4=-1632/439, 4-5=-1064/466, 5-6=-178/677, 6-7=-178/677, 7-8=-1064/466, 8-9=-1632/439, 9-10=-1765/474
BOT CHORD 2-14=-190/1513, 13-14=0/1193, 12-13=0/1193, 10-12=-206/1345
WEBS 5-15=-2087/850, 7-15=-2087/850, 4-14=-62/730, 8-12=-62/730, 3-14=-480/329, 9-12=-480/329

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-14, 8-12
7) Bottom chord live load (30.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 2 and 166 lb uplift at joint 10.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Attic room checked for L/360 deflection.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T33G	Common Supported Gable	1	1	T9462814

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:14 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-bWTaGp5gt3w76q?_GEECxlgg_wRlt3Ncr13ujMye3Jh

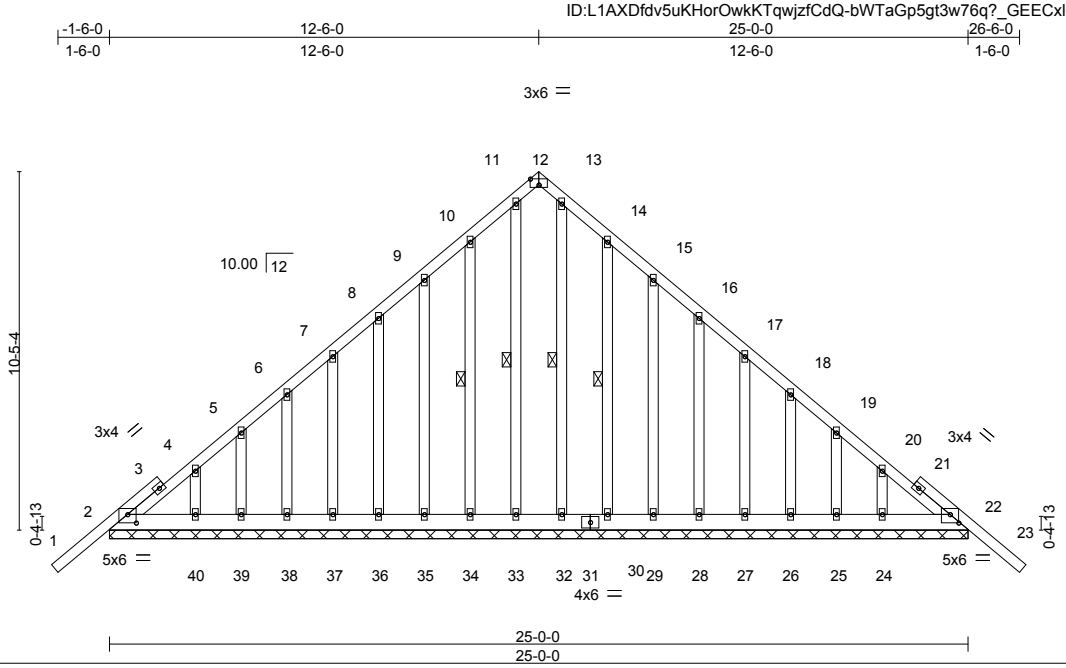


Plate Offsets (X,Y)-- [2:0-3-0,0-2-15], [12:0-3-0,Edge], [22:0-3-0,0-2-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.01	23	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(TL)	-0.01	23	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.01	22	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 242 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 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 10-0-0 oc bracing.
WEBS	1 Row at midpt 11-33, 10-34, 13-32, 14-30

REACTIONS. All bearings 25-0-0.
(lb) - Max Horz 2=-452(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 33, 40, 24 except 34=-144(LC 12), 35=-125(LC 12), 36=-120(LC 12), 37=-122(LC 12), 38=-115(LC 12), 39=-147(LC 12), 30=-149(LC 13), 29=-125(LC 13), 28=-120(LC 13), 27=-122(LC 13), 26=-116(LC 13), 25=-144(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 22, 33, 34, 35, 36, 37, 38, 39, 40, 32, 30, 29, 28, 27, 26, 25, 24

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

TOP CHORD	2-3=-457/295, 3-4=-448/315, 4-5=-395/263, 5-6=-298/228, 10-11=-227/279, 13-14=-227/279, 19-20=-336/238, 20-21=-394/334, 21-22=-403/314
BOT CHORD	2-40=-330/462, 39-40=-330/462, 38-39=-330/462, 37-38=-330/462, 36-37=-330/462, 35-36=-330/462, 34-35=-330/462, 33-34=-330/462, 32-33=-330/462, 31-32=-330/462, 30-31=-330/462, 29-30=-330/462, 28-29=-330/462, 27-28=-330/462, 26-27=-330/462, 25-26=-330/462, 24-25=-330/462, 22-24=-330/462

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 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, 22, 33, 40, 24 except (jt=lb) 34=144, 35=125, 36=120, 37=122, 38=115, 39=147, 30=149, 29=125, 28=120, 27=122, 26=116, 25=144.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T34G	GABLE	2	1	T9462815

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:15 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-3i1yT95IdM2_k_ZBqxmRUzDrkKntcX5l3hoRFoye3Jg

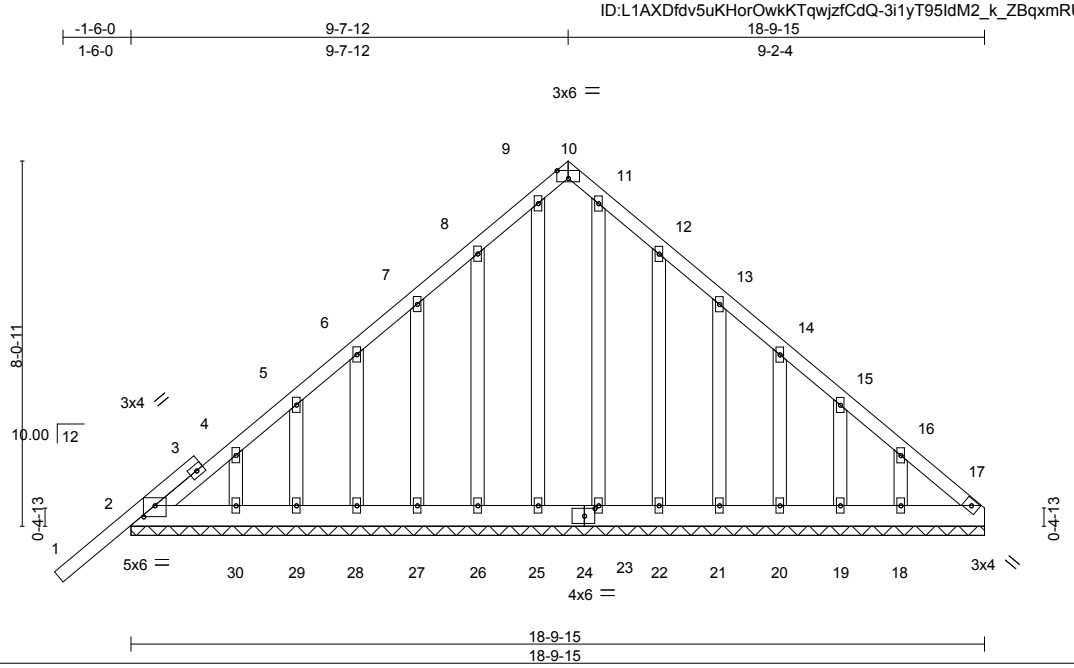


Plate Offsets (X,Y)-- [2:0-3-0,0-2-15], [10:0-3-0,Edge], [24:0-2-12,0-2-0]

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	0.30	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.01	17	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 157 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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 10-0-0 oc bracing.

REACTIONS. All bearings 18-9-15.
(lb) - Max Horz 2=339(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 30, 17 except 26=-142(LC 12), 27=-123(LC 12), 28=-116(LC 12), 29=-143(LC 12), 22=-147(LC 13), 21=-121(LC 13), 20=-123(LC 13), 19=-108(LC 13), 18=-182(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-342/228, 3-4=-333/248, 4-5=-281/185, 16-17=-358/254
BOT CHORD 2-30=-218/308, 29-30=-218/308, 28-29=-218/308, 27-28=-218/308, 26-27=-218/308, 25-26=-218/308, 24-25=-218/308, 23-24=-218/308, 22-23=-218/308, 21-22=-218/308, 20-21=-218/308, 19-20=-218/308, 18-19=-218/308, 17-18=-218/308

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 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, 25, 30, 17 except (jt=lb) 26=142, 27=123, 28=116, 29=143, 22=147, 21=121, 20=123, 19=108, 18=182.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T35	Roof Special	2	1	T9462816

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:15 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-3i1yT95ldM2_k_ZBqxmRUzDpLKgfcPZl3hoRFoye3Jg

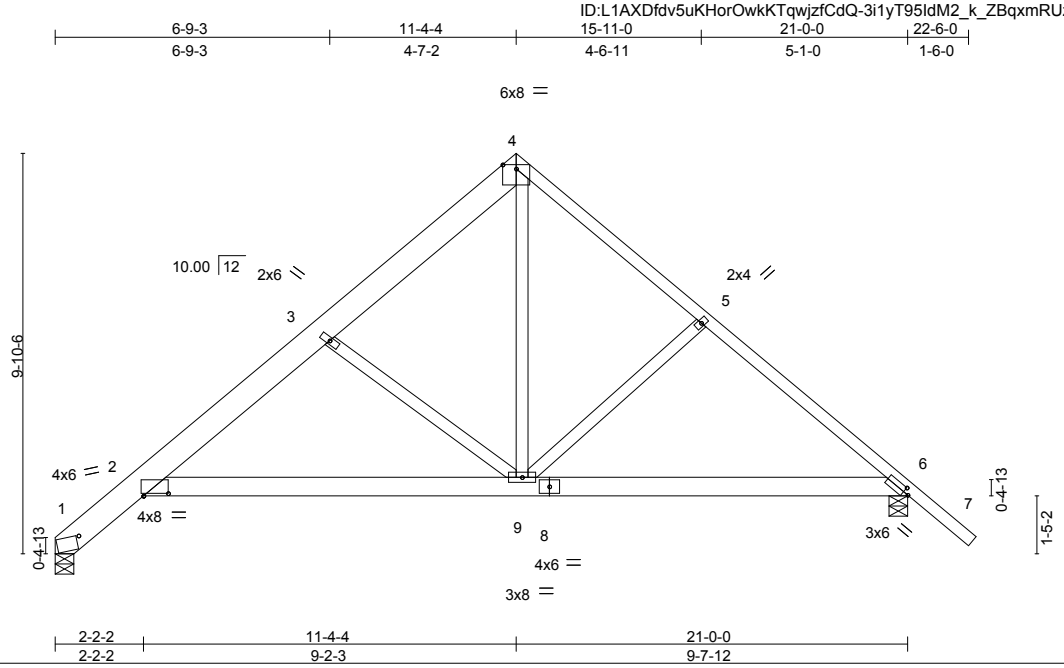


Plate Offsets (X,Y)-- [2:0-7-5,0-0-12], [2:1-9-3,0-7-8], [6:0-1-9,0-1-8]

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	0.39	Vert(LL)	0.10	2-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(TL)	-0.18	2-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.11	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 141 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E *Except*
4-7: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=658/0-5-8, 6=760/0-5-8
Max Horz 1=-309(LC 10)
Max Uplift 1=-224(LC 12), 6=-264(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-500/314, 2-3=-1055/646, 3-4=-868/561, 4-5=-852/558, 5-6=-944/578
BOT CHORD 2-9=-410/977, 8-9=-241/666, 6-8=-241/666
WEBS 3-9=-709/534, 4-9=-501/835, 5-9=-371/335

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=224, 6=264.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T36	ROOF SPECIAL	4	1	T9462817

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:16 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-YubKhU6wOgArM88NOfHg0Aluik35LntvILY?oFye3Jf

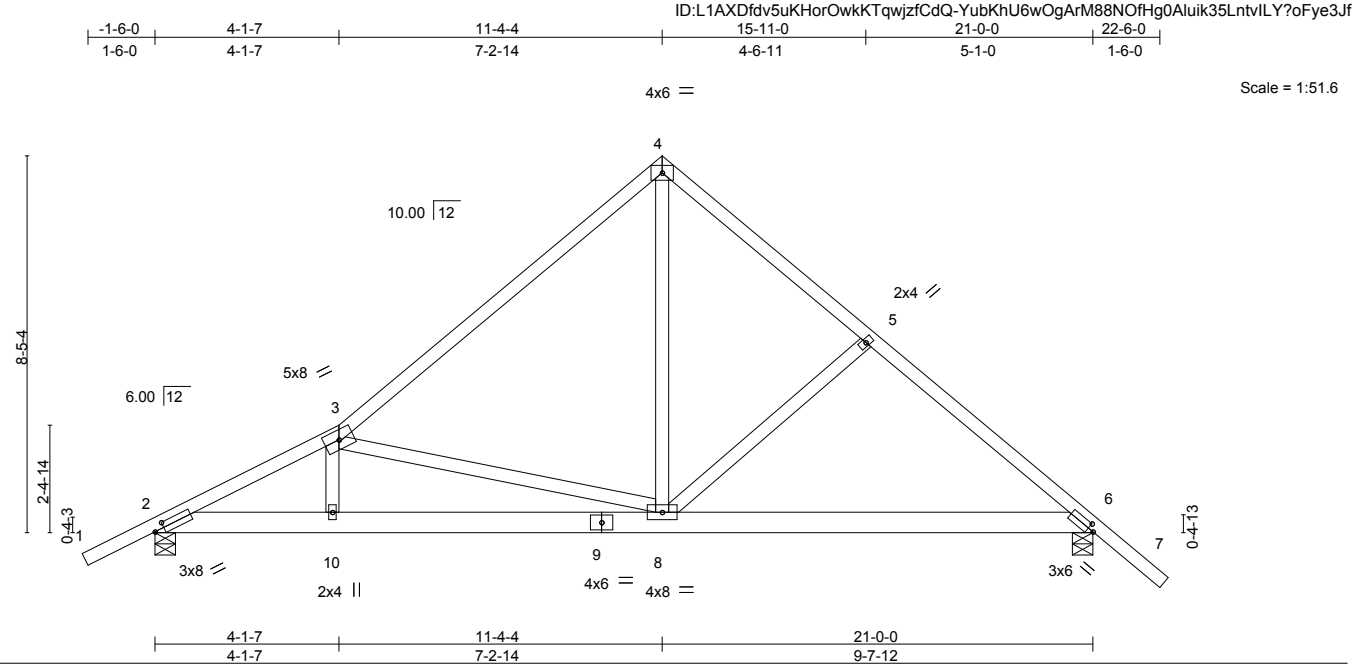


Plate Offsets (X,Y)-- [2:0-2-10,0-1-8], [6:0-1-9,0-1-8]

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	0.80	Vert(LL)	-0.06	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(TL)	-0.12	6-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 128 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-4: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-3 oc bracing.

REACTIONS. (lb/size) 2=754/0-5-8, 6=756/0-5-8
Max Horz 2=289(LC 11)
Max Uplift 2=-284(LC 12), 6=-273(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1295/826, 3-4=-754/482, 4-5=-809/550, 5-6=-902/570
BOT CHORD 2-10=-587/1130, 9-10=-594/1131, 8-9=-594/1131, 6-8=-231/630
WEBS 3-8=-825/665, 4-8=-334/589, 5-8=-353/315

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=284, 6=273.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T37	Roof Special	4	1	T9462818

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:17 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-059iuq7Z9_IizIjZyMovZOI3V8PD4E62X?HYKhye3Je

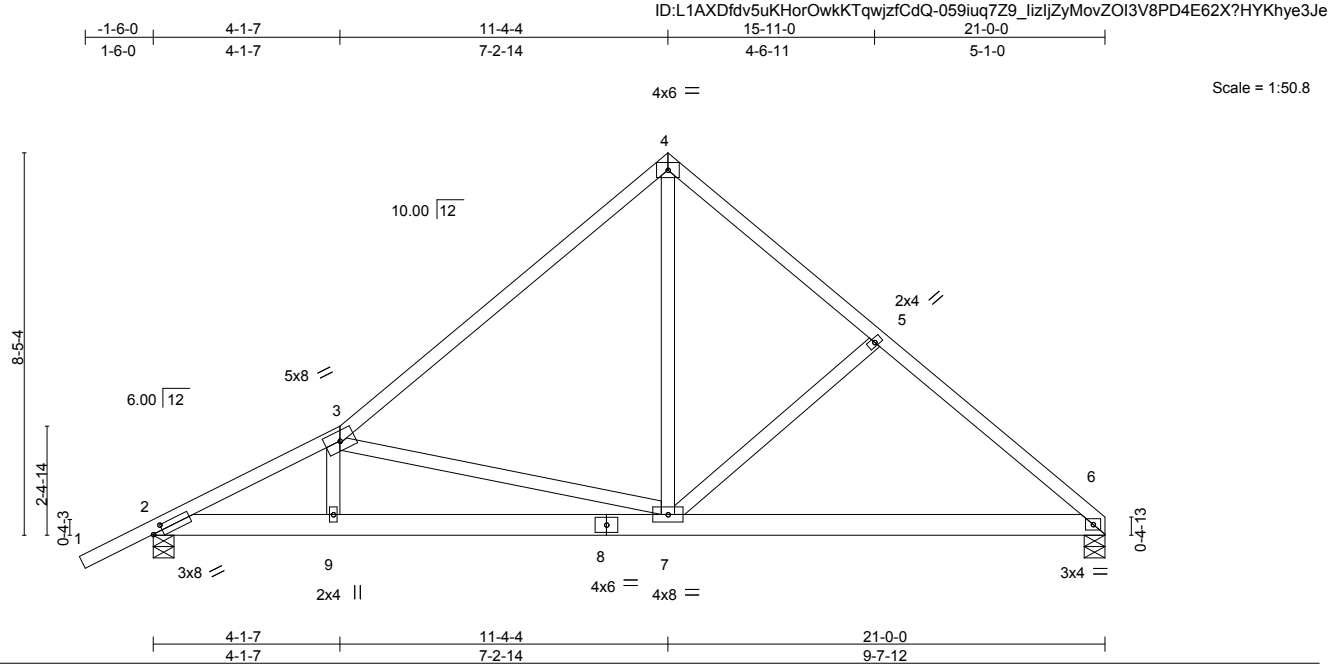


Plate Offsets (X,Y)-- [2:0-2-10,0-1-8]

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	0.79	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(TL)	-0.13	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 125 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-4: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-8-3 oc bracing.

REACTIONS. (lb/size) 6=653/0-5-8, 2=758/0-5-8
Max Horz 2=275(LC 9)
Max Uplift 6=-222(LC 13), 2=-286(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1305/842, 3-4=-748/500, 4-5=-802/572, 5-6=-896/594
BOT CHORD 2-9=-709/1102, 8-9=-714/1102, 7-8=-714/1102, 6-7=-328/584
WEBS 3-7=-825/663, 4-7=-363/581, 5-7=-354/336

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=222, 2=286.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T38	ROOF SPECIAL	2	1	T9462819

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:17 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-059iuq7Z9_IizIjZyMovZOI9V8IG4JQ2X?HYKhye3Je

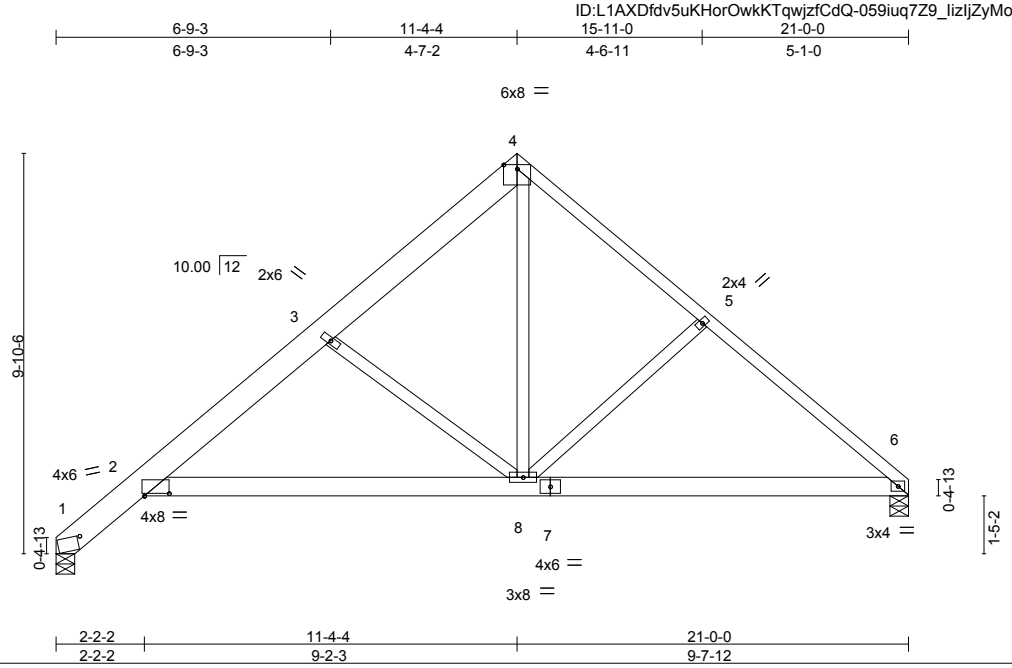


Plate Offsets (X,Y)-- [2:0-7-5,0-0-12], [2:1-9-4,0-7-10]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.10	2-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(TL)	-0.18	2-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.11	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 138 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E *Except*
4-6: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=662/0-5-8, 6=658/0-5-8
Max Horz 1=296(LC 9)
Max Uplift 1=-224(LC 12), 6=-216(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-494/219, 2-3=-1034/671, 3-4=-850/582, 4-5=-835/580, 5-6=-928/603
BOT CHORD 2-8=-507/952, 7-8=-338/600, 6-7=-338/600
WEBS 3-8=-694/555, 4-8=-534/811, 5-8=-372/356

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=224, 6=216.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

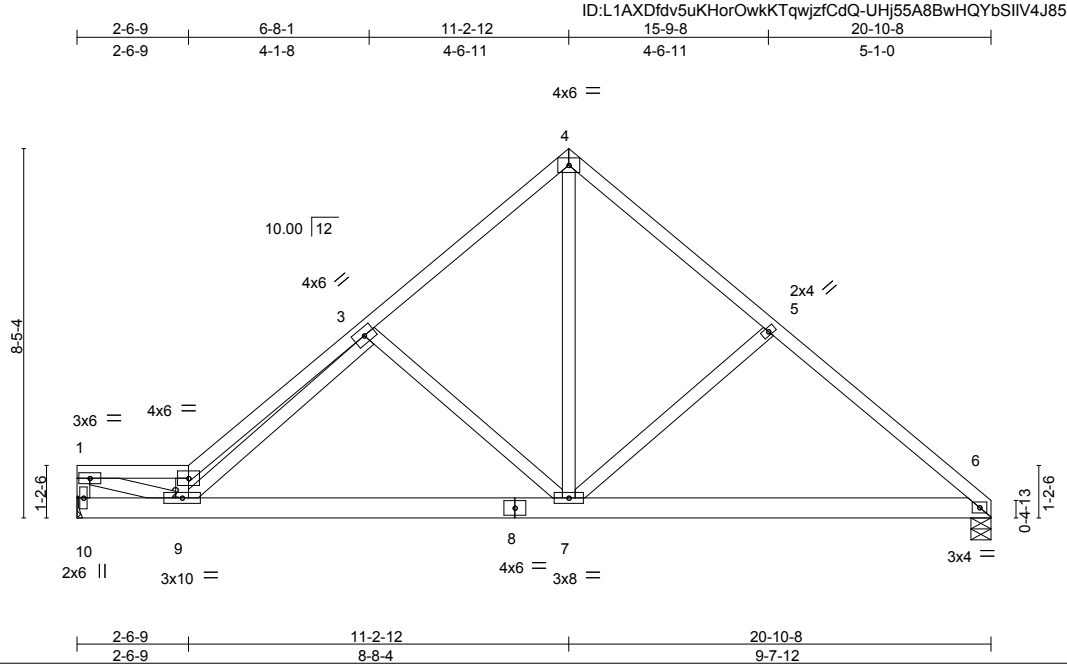
Job	Truss	Truss Type	Qty	Ply	
865106	T39	Roof Special	2	1	T9462820

Builders FirstSource, Jacksonville, Fl 32244

Job Reference (optional)

7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:18 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-UHj55A8BwHQYbSIlV4J85brIcXknpmgBmf15s7ye3Jd



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)	0.13	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(TL)	-0.25	7-9	>976	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 130 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 3-9-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=656/Mechanical, 6=656/0-5-8
Max Horz 10=-255(LC 8)
Max Uplift 10=-237(LC 12), 6=-222(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-481/326, 1-2=-1288/785, 2-3=-2084/1352, 3-4=-823/576, 4-5=-823/577, 5-6=-921/604
BOT CHORD 9-10=-235/290, 8-9=-391/758, 7-8=-391/758, 6-7=-339/600
WEBS 1-9=-722/1216, 2-9=-1446/995, 3-9=-737/1156, 3-7=-507/436, 4-7=-518/768, 5-7=-384/365

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) 10=237, 6=222.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

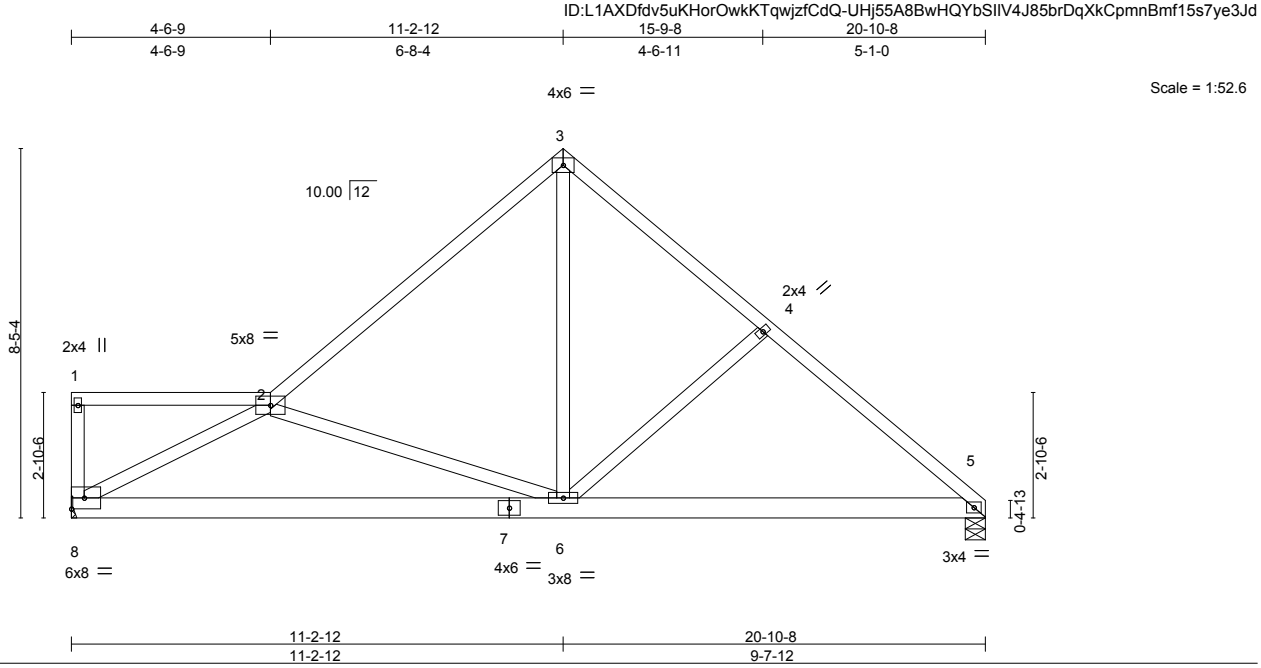
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T40	Roof Special	2	1	T9462821

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:18 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-UHj55A8BwHQYbSIIV4J85brDqXkCpmnBmf15s7ye3Jd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.11	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(TL)	-0.19	6-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							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 2-0-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-5-0 oc bracing.

REACTIONS. (lb/size) 8=656/Mechanical, 5=656/0-5-8
Max Horz 8=-252(LC 8)
Max Uplift 8=-243(LC 12), 5=-219(LC 13)

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

TOP CHORD	2-3=-739/492, 3-4=-786/553, 4-5=-880/576
BOT CHORD	7-8=-610/928, 6-7=-610/928, 5-6=-316/589
WEBS	2-6=-627/589, 3-6=-365/586, 4-6=-360/344, 2-8=-1133/867

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=243, 5=219.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

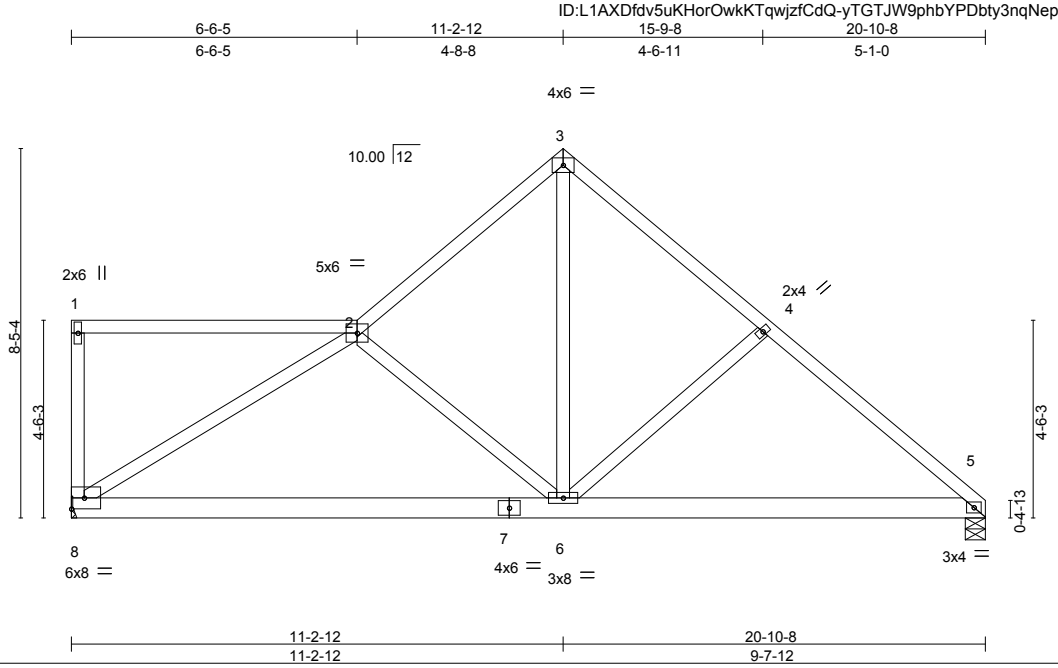
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T41	Roof Special	1	1	T9462822

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:19 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-yTGTJW9phbYPDbty3nqNepNUAx3aY8?L_JmfOZye3Jc



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)	-0.11	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(TL)	-0.20	6-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 132 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 5-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=656/Mechanical, 5=656/0-5-8
Max Horz 8=-250(LC 8)
Max Uplift 8=-254(LC 12), 5=-211(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-725/520, 3-4=-744/533, 4-5=-856/559
BOT CHORD 7-8=-337/706, 6-7=-337/706, 5-6=-306/592
WEBS 2-8=-849/667, 2-6=-376/405, 3-6=-439/631, 4-6=-383/366

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=254, 5=211.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T42	Scissor	10	1	T9462823

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:19 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-yTGTJW9phbYPDbty3nqNepNWXx_oY7WL_JmfOZye3Jc

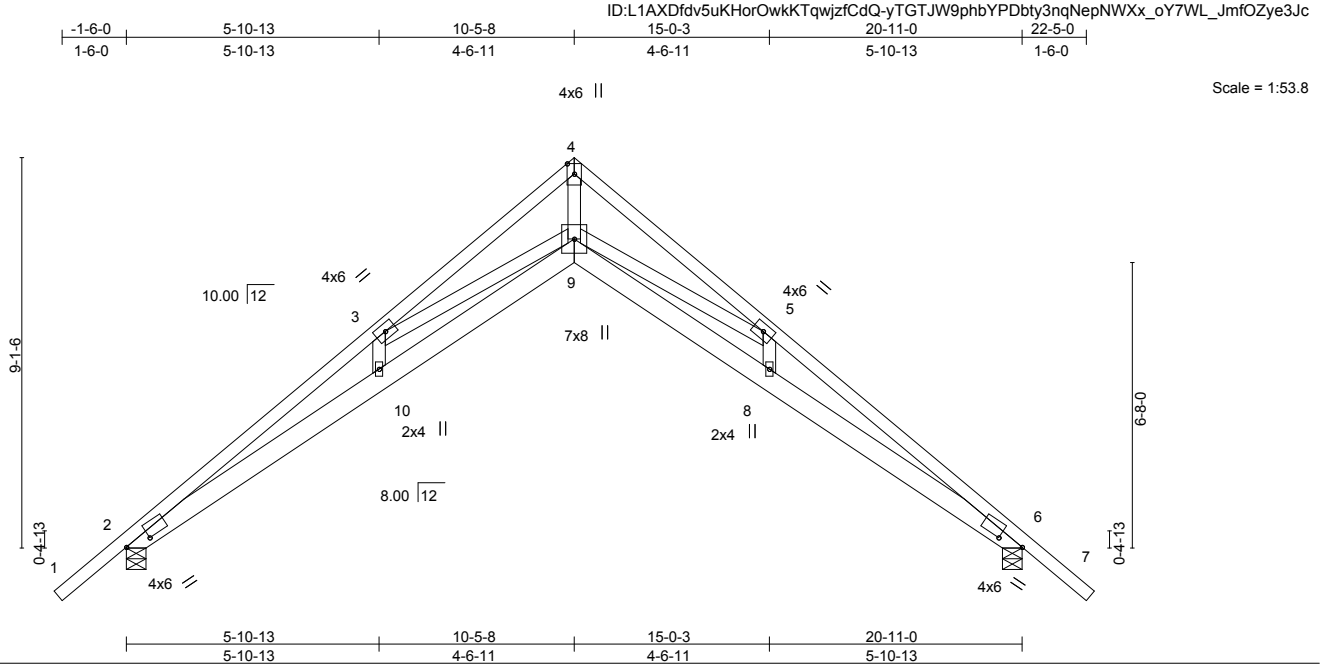


Plate Offsets (X,Y)-- [2:0-6-15,0-1-7], [6:0-6-15,0-1-7]

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	0.37	Vert(LL)	-0.29	9	>857	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(TL)	-0.55	9	>446	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.82	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 127 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-2 oc bracing.

REACTIONS. (lb/size) 2=753/0-5-8, 6=753/0-5-8
Max Horz 2=-319(LC 10)
Max Uplift 2=-273(LC 12), 6=-273(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3112/1073, 3-4=-2480/360, 4-5=-2513/390, 5-6=-3042/1133
BOT CHORD 2-10=-830/2954, 9-10=-844/2995, 8-9=-783/2676, 6-8=-765/2649
WEBS 4-9=-360/2910, 5-9=-1039/968, 3-9=-1110/1003

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=273, 6=273.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T45G	Common Supported Gable	1	1	T9462824

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:20 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-QgqrWs9RSvgGqlS8dULcB0wiDLVCHpxUDzWCx0ye3Jb

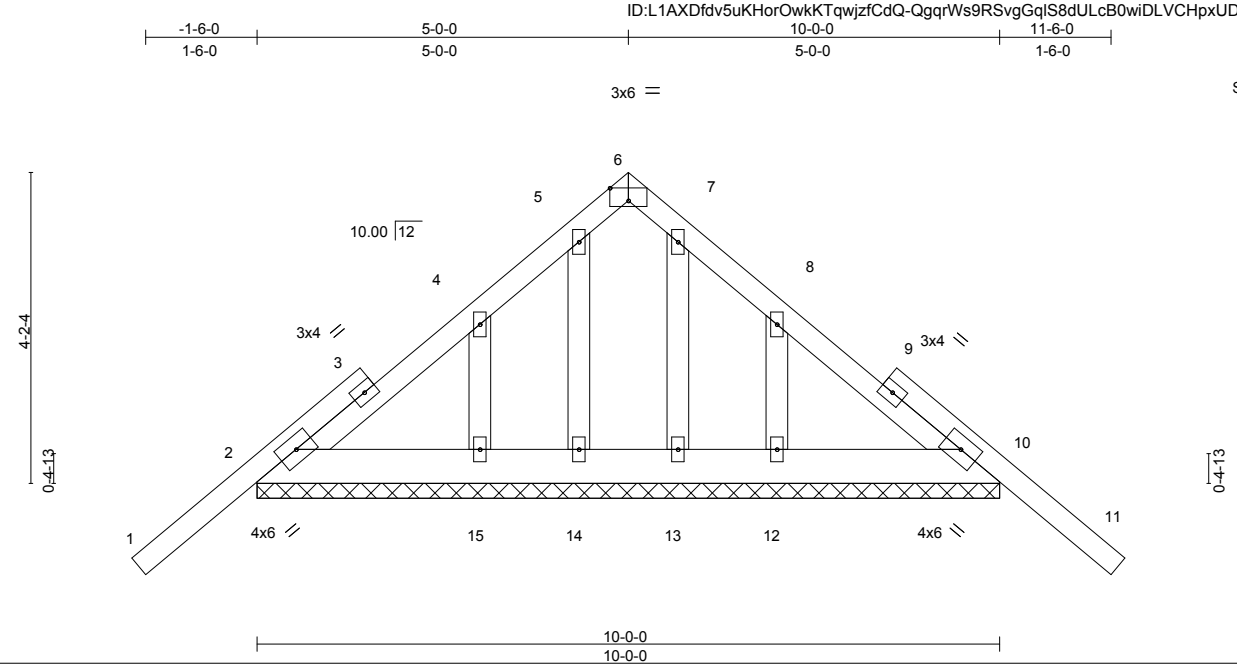


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(TL)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)							Weight: 67 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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 10-0-0.
(lb) - Max Horz 2=-203(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 13 except 10=-103(LC 13), 15=-160(LC 12), 12=-167(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-15=-191/269, 14-15=-191/269, 13-14=-191/269, 12-13=-191/269, 10-12=-191/269
WEBS 4-15=-261/198, 8-12=-256/196

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 13 except (jt=lb) 10=103, 15=160, 12=167.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

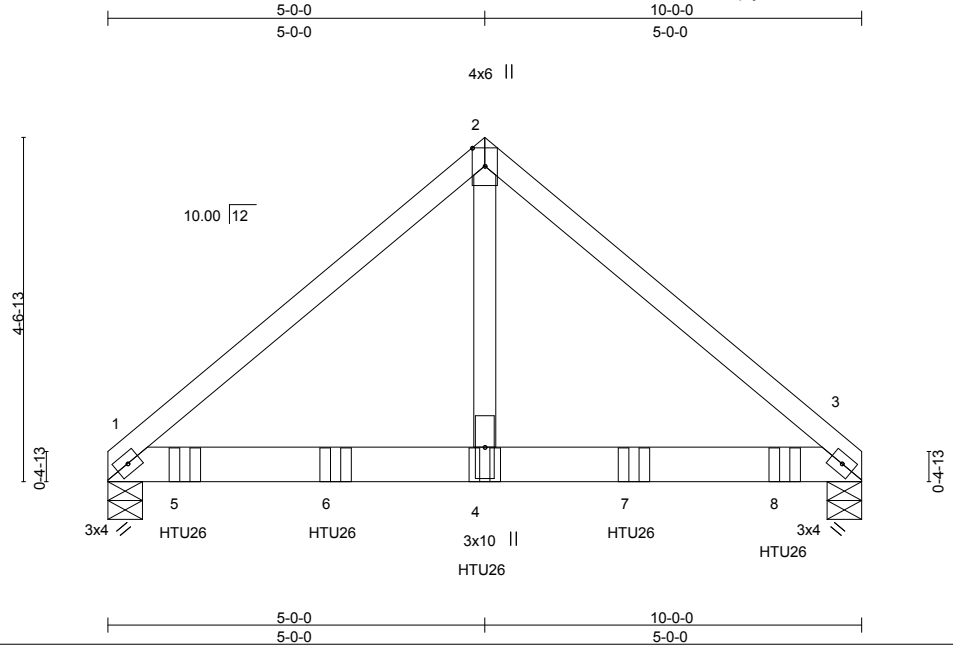
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	T46	Common Girder	1	1	T9462825

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:21 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-usODkCA3DCo7Sv1KBCsrjETqvldS05KeSdFITSye3Ja



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)	-0.06	1-4	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(TL)	-0.11	1-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(TL)	0.02	3	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 49 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 3-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=1921/0-5-8, 3=1921/0-5-8
Max Horz 1=-132(LC 23)
Max Uplift 1=-725(LC 8), 3=-725(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1789/698, 2-3=-1789/698
BOT CHORD 1-5=-470/1308, 5-6=-470/1308, 4-6=-470/1308, 4-7=-470/1308, 7-8=-470/1308, 3-8=-470/1308
WEBS 2-4=-736/1981

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=725, 3=725.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-4 from the left end to 8-11-12 to connect truss(es) to front face of bottom chord.
8) Fill all nail holes where hanger is in contact with lumber.
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: 1-2=-54, 2-3=-54, 1-3=-10
Concentrated Loads (lb)
Vert: 4=-646(F) 5=-647(F) 6=-646(F) 7=-646(F) 8=-647(F)

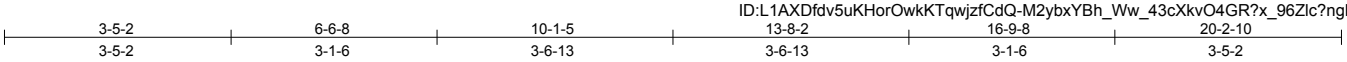
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	TG02	FLAT GIRDER	1	3	T9462826

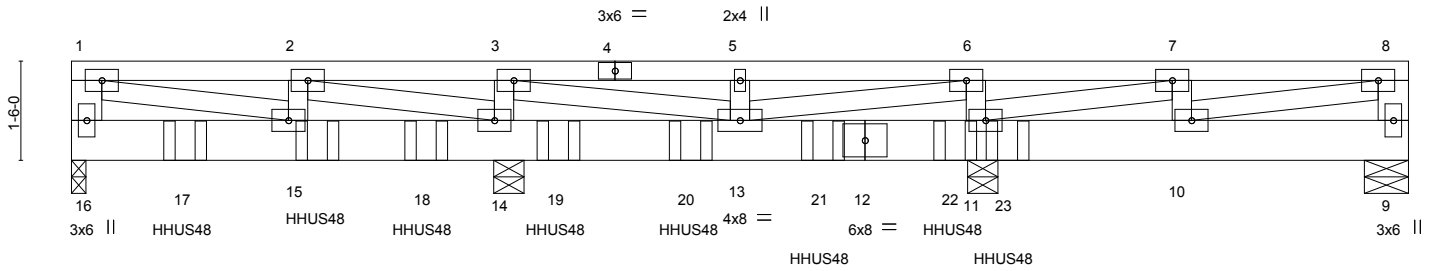
Job Reference (optional)

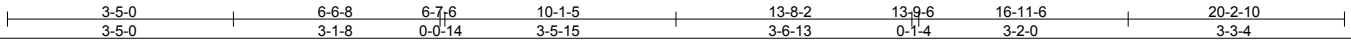
Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:22 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-M2ybxYBh_Ww_43cXkvO4GR?x_96Zlc?ngH?J?uye3JZ



Scale = 1:34.8





LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.02	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.32	Vert(TL)	-0.04	13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)		Wind(LL)	0.01	13	>999	240	Weight: 380 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-16,8-9: 2x6 SP No.2

BRACING-

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

REACTIONS. All bearings 0-5-8 except (jt=length) 16=0-2-10, 9=0-8-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 16=-682(LC 4), 9=-316(LC 4), 14=-2243(LC 4), 11=-1842(LC 4)
Max Grav All reactions 250 lb or less at joint(s) except 16=2604(LC 1), 9=1207(LC 1), 14=8560(LC 1), 11=7029(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1356/367, 1-2=-2298/602, 2-3=-353/1346, 3-4=-1501/393, 4-5=-1501/393, 5-6=-1501/393, 6-7=-280/1069, 7-8=-543/142, 8-9=-873/241
BOT CHORD 16-17=-218/824, 15-17=-218/824, 15-18=-602/2298, 14-18=-602/2298, 14-19=-1346/353, 19-20=-1346/353, 13-20=-1346/353, 13-21=-1069/280, 12-21=-1069/280, 12-22=-1069/280, 11-22=-1069/280, 11-23=-142/543, 10-23=-142/543, 9-10=-109/407
WEBS 1-15=-405/1552, 2-15=-422/139, 2-14=-3846/1008, 3-14=-2854/776, 3-13=-777/2968, 5-13=-1863/520, 6-13=-702/2679, 6-11=-2712/739, 7-11=-1701/446, 7-10=-1198/343

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are 4x6 MT20 unless otherwise indicated.
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 at joint(s) 16.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 682 lb uplift at joint 16, 316 lb uplift at joint 9 , 2243 lb uplift at joint 14 and 1842 lb uplift at joint 11.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Use Simpson Strong-Tie HHUS48 (22-10d Girder, 8-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-8-10 from the left end to 14-1-14 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-8=-553, 9-16=-10

Concentrated Loads (lb)

Vert: 15=-1122(B) 17=-1122(B) 18=-1117(B) 19=-1117(B) 20=-1117(B) 21=-1117(B) 22=-1117(B) 23=-446(B)

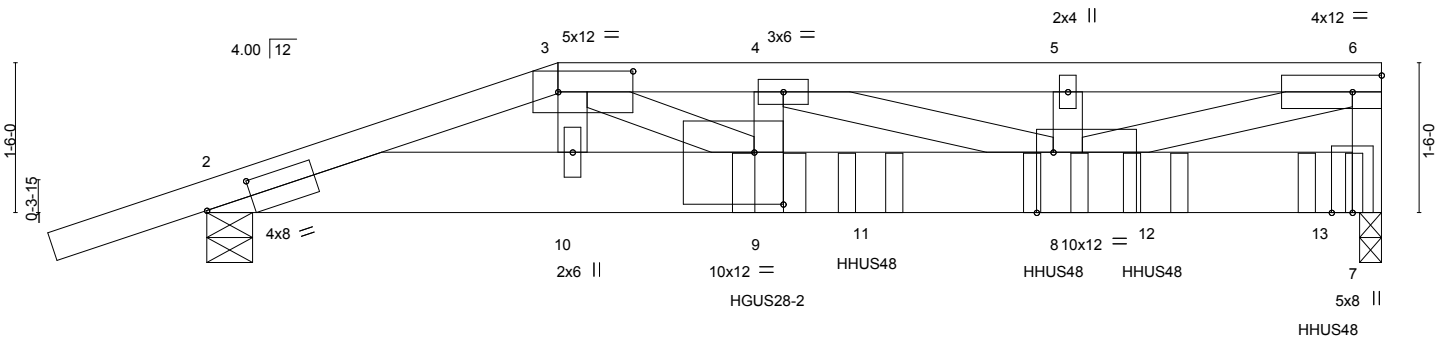
Job	Truss	Truss Type	Qty	Ply	T9462827
865106	TG03	Half Hip Girder	1	3	Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:22 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-M2ybxYBh_Ww_43cXkvO4GR?vG90jlVFngH?J?uye3JZ

-1-6-0	3-6-3	5-7-8	8-7-7	11-9-2
1-6-0	3-6-3	2-1-5	2-11-15	3-1-11

Scale = 1:23.1



3-6-3	5-7-8	8-7-7	11-9-2
3-6-3	2-1-5	2-11-15	3-1-11

Plate Offsets (X,Y)-- [2:0-5-9,0-1-14], [3:0-9-0,0-2-8], [8:0-2-0,Edge], [9:0-3-8,0-6-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.19	8-9	>712	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(TL)	-0.30	8-9	>455	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)		Wind(LL)	0.10	8-9	>999	240	Weight: 213 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
6-7,3-9: 2x4 SP No.2, 4-8,6-8: 2x4 SP No.1

BRACING-

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

REACTIONS. (lb/size) 2=4915/0-5-8, 7=8342/0-2-10 (req. 0-3-4)
Max Horz 2=87(LC 4)
Max Uplift 2=-1343(LC 4), 7=-2184(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-13245/3429, 3-4=-19593/5122, 4-5=-14527/3800, 5-6=-14527/3800, 6-7=-5702/1502
BOT CHORD 2-10=-3277/12558, 9-10=-3285/12596, 9-11=-5122/19593, 8-11=-5122/19593, 8-12=-292/1108, 12-13=-292/1108, 7-13=-292/1108
WEBS 3-10=-58/279, 3-9=-2062/7813, 4-9=-236/869, 4-8=-5369/1401, 5-8=-1792/498, 6-8=-3719/14224

NOTES-

1) Special connection required to distribute web loads equally between all plies.
2) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 2 rows staggered at 0-5-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-9 2x4 - 2 rows staggered at 0-4-0 oc.
3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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) WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
9) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1343 lb uplift at joint 2 and 2184 lb uplift at joint 7.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 12-10d Truss) or equivalent at 5-7-9 from the left end to connect truss(es) to back face of bottom chord.
13) Use Simpson Strong-Tie HHUS48 (22-10d Girder, 8-10d Truss, Single Ply Girder) or equivalent spaced at 1-10-4 oc max. starting at 6-7-12 from the left end to 11-3-0 to connect truss(es) to back face of bottom chord.

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-3=-100, 3-4=-100, 4-6=-603, 2-7=-10
   Concentrated Loads (lb)
   Vert: 9=-4326(B) 8=-1122(B) 11=-1122(B) 12=-1122(B) 13=-1122(B)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	TG04	Flat Girder	1	2	T9462828

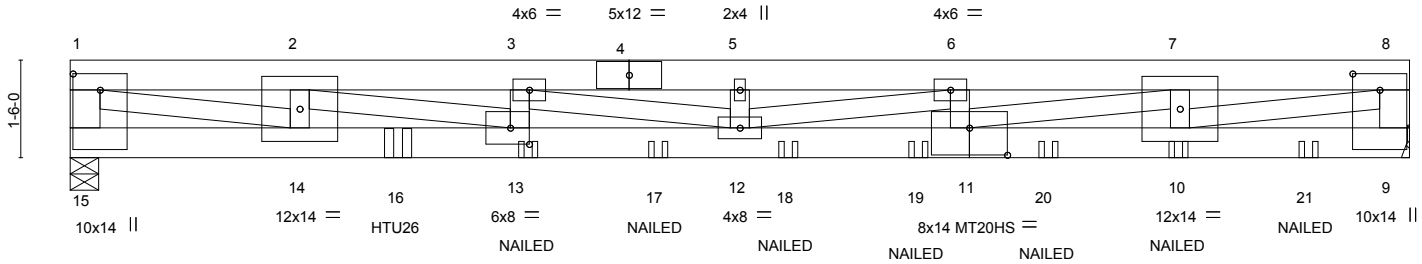
Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:24 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-JR4MMECyW7BiJNlvsKQYLs5JuygyDNr48bUQ4nye3JX

3-6-6	6-10-15	10-3-9	13-8-3	17-0-12	20-7-2
3-6-6	3-4-10	3-4-10	3-4-10	3-4-10	3-6-6

Scale = 1:35.4



3-6-6	6-10-15	10-3-9	13-8-3	17-0-12	20-7-2
3-6-6	3-4-10	3-4-10	3-4-10	3-4-10	3-6-6

Plate Offsets (X,Y)-- [9:0-3-0,0-5-0], [11:0-7-0,0-5-0], [13:0-3-8,0-3-0], [15:0-3-0,0-5-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.55	12	>440	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(TL)	-0.87	12	>276	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(TL)	0.08	9	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)		Wind(LL)	0.35	12	>681	240	Weight: 262 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP M 26
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.1 *Except*
1-15,8-9: 2x6 SP No.2, 2-14,3-13,5-12,6-11,7-10: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-6 oc bracing.

REACTIONS. (lb/size) 15=4261/0-5-4, 9=4326/Mechanical
Max Uplift 15=-1329(LC 4), 9=-1373(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-3909/1239, 1-2=-10866/3483, 2-3=-17824/5747, 3-4=-19882/6373, 4-5=-19882/6373, 5-6=-19882/6373, 6-7=-17387/5562, 7-8=-10685/3413, 8-9=-3854/1215
BOT CHORD 14-15=-389/1252, 14-16=-3483/10866, 13-16=-3483/10866, 13-17=-5747/17824, 12-17=-5747/17824, 12-18=-5641/17651, 18-19=-5641/17651, 11-19=-5641/17651, 11-20=-3413/10685, 10-20=-3413/10685, 10-21=-412/1292, 9-21=-412/1292
WEBS 1-14=-3245/10082, 2-14=-3078/958, 2-13=-2368/7280, 3-13=-1772/513, 3-12=-655/2153, 5-12=-1126/325, 6-12=-765/2335, 6-11=-1904/575, 7-11=-2258/7040, 7-10=-3040/933, 8-10=-3146/9850

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1329 lb uplift at joint 15 and 1373 lb uplift at joint 9.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 5-0-8 from the left end to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-8=-350, 9-15=-10

Concentrated Loads (lb)

Vert: 13=-137(F) 10=-137(F) 16=-376(F) 17=-137(F) 18=-137(F) 19=-137(F) 20=-137(F) 21=-137(F)

Job	Truss	Truss Type	Qty	Ply	
865106	TG05	Half Hip	4	1	T9462829

Job Reference (optional)

Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:24 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-JR4MMECyW7BiJNlvsKQYLs5JoypTDZy48bUQ4nye3JX

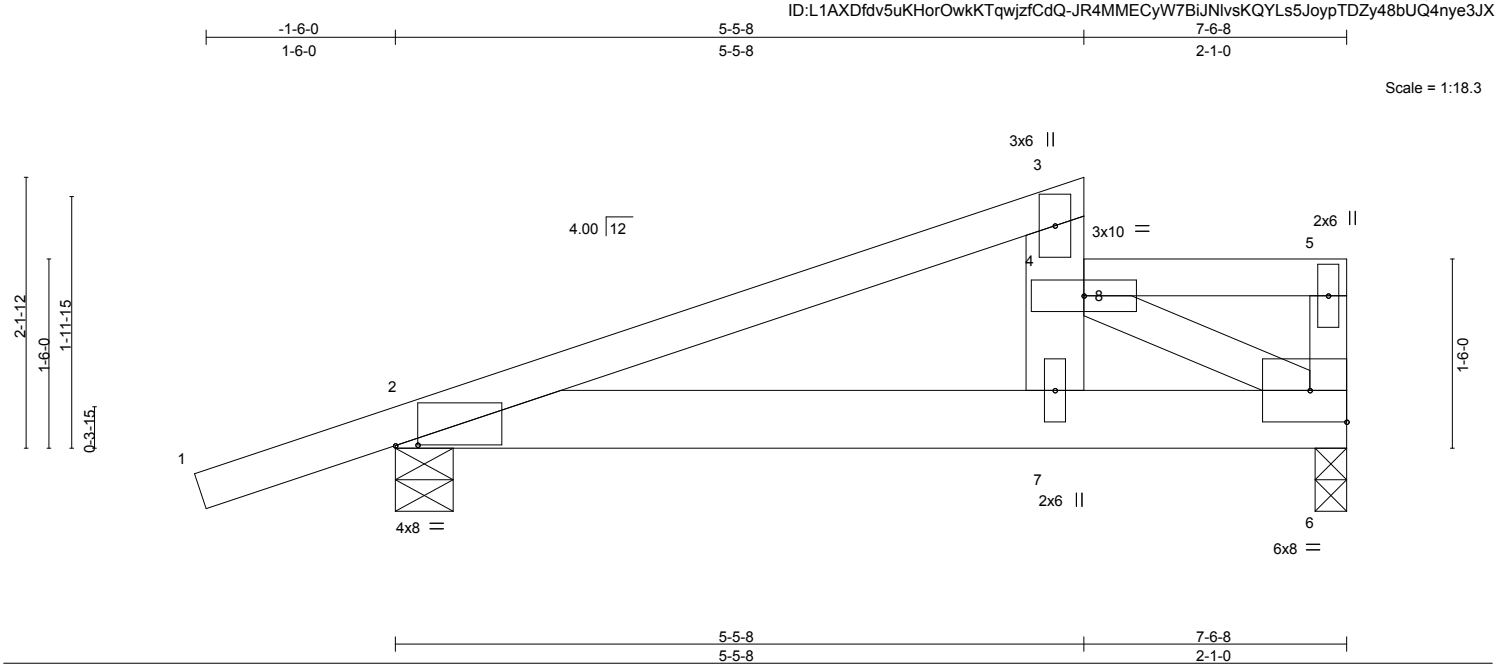


Plate Offsets (X,Y)-- [2:0-2-2,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.02	2-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(TL)	-0.04	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)		Wind(LL)	0.02	2-7	>999	240	Weight: 39 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-7: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-10 oc bracing.

REACTIONS. (lb/size) 6=756/0-3-0, 2=710/0-5-8
Max Horz 2=122(LC 12)
Max Uplift 6=-191(LC 9), 2=-233(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-819/425
BOT CHORD 2-7=-504/695, 6-7=-699/996
WEBS 4-6=-1019/715

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) -1-6-9 to 7-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 6 and 233 lb uplift at joint 2.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 534 lb down and 338 lb up at 5-8-12 on top 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=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-100, 4-5=-100, 2-6=-10
Concentrated Loads (lb)
Vert: 8=-500

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
865106	TG06	HALF HIP	1	2	T9462830

Job Reference (optional)

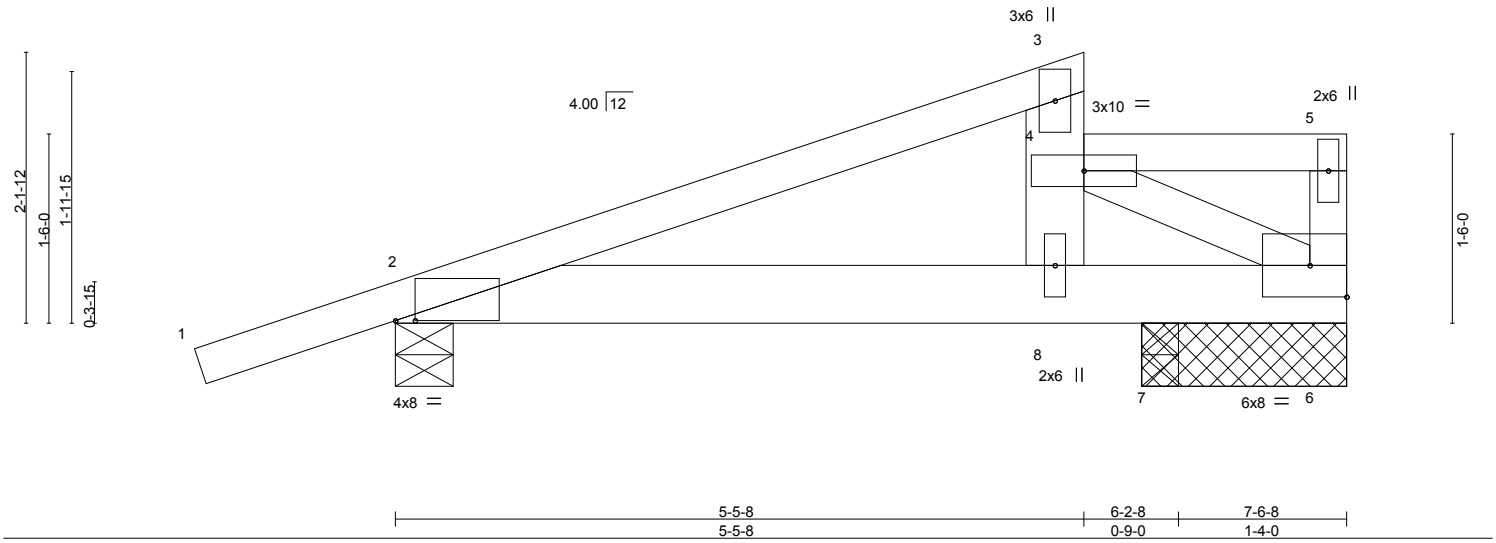
Builders FirstSource, Jacksonville, Fl 32244 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Tue Sep 13 12:15:25 2016 Page 1

ID:L1AXDfdv5uKHorOwkKTqwjzfCdQ-ndekaZDaHRJZxWK6Q2xnu4dZEM9Zy3UDNFDzcDye3JW

-1-6-0 | 5-5-8 | 7-6-8

1-6-0 | 5-5-8 | 2-1-0

Scale = 1:18.3



5-5-8 | 6-2-8 | 7-6-8

5-5-8 | 0-9-0 | 1-4-0

Plate Offsets (X,Y)-- [2:0-1-14,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.01	2-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(TL)	-0.01	2-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	FBC2014/TPI2007	(Matrix)		Wind(LL)	0.01	2-8	>999	240	Weight: 78 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP M 31
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-8: 2x6 SP No.2

BRACING-

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

REACTIONS. (lb/size) 6=530/1-7-8, 2=583/0-5-8, 7=936/0-3-8
Max Horz 2=122(LC 12)
Max Uplift 6=-157(LC 13), 2=-207(LC 8), 7=-221(LC 12)
Max Grav 6=544(LC 24), 2=583(LC 1), 7=936(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-425/167, 4-8=-639/476, 5-6=-635/438
BOT CHORD 2-8=-259/321, 7-8=-287/365, 6-7=-287/365
WEBS 4-6=-337/269

NOTES-

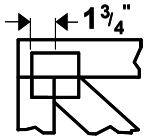
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All 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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) -1-6-9 to 7-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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 157 lb uplift at joint 6, 207 lb uplift at joint 2 and 221 lb uplift at joint 7.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-100, 4-5=-600, 2-6=-10

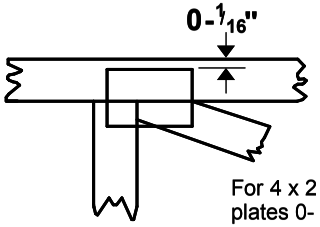
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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



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.

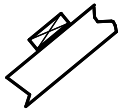
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

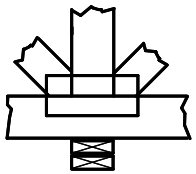
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

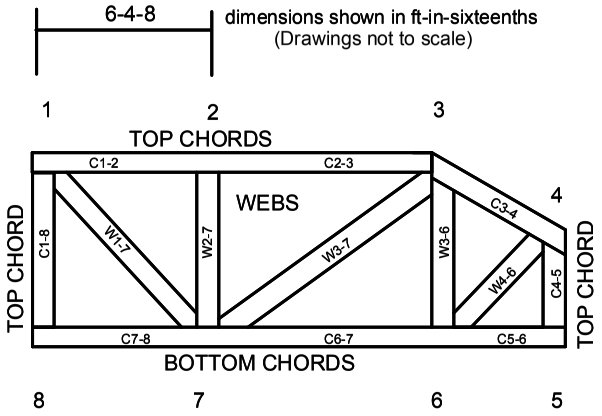


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 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.