



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

RE: 1767896 - IC CONST. - YOUNG RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: IC Construction Project Name: Young Res. Model: Custom
Lot/Block: n/a Subdivision: n/a
Address: TBD SW Beaver Street, n/a
City: Columbia Cty State: FL

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

Name: License #:
Address: State:
City: State:

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

Design Code: FBC2017/TPI2014
Wind Code: ASCE 7-10
Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.2
Wind Speed: 130 mph
Floor Load: N/A psf

This package includes 60 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

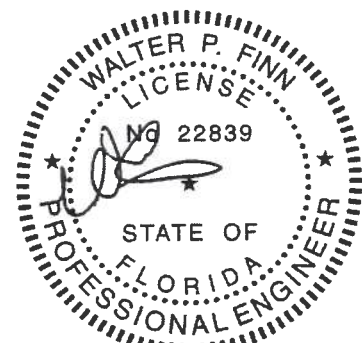
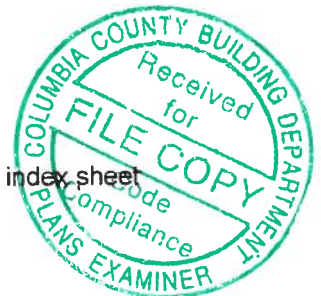
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T17296359	CJ01	6/10/19	23	T17296381	EJ07	6/10/19
2	T17296360	CJ02	6/10/19	24	T17296382	EJ08	6/10/19
3	T17296361	CJ02A	6/10/19	25	T17296383	EJ09	6/10/19
4	T17296362	CJ02B	6/10/19	26	T17296384	HJ07	6/10/19
5	T17296363	CJ02C	6/10/19	27	T17296385	HJ09	6/10/19
6	T17296364	CJ02D	6/10/19	28	T17296386	HJ09A	6/10/19
7	T17296365	CJ02E	6/10/19	29	T17296387	HJ12	6/10/19
8	T17296366	CJ03	6/10/19	30	T17296388	T01	6/10/19
9	T17296367	CJ04	6/10/19	31	T17296389	T02	6/10/19
10	T17296368	CJ04A	6/10/19	32	T17296390	T03	6/10/19
11	T17296369	CJ04B	6/10/19	33	T17296391	T04	6/10/19
12	T17296370	CJ05	6/10/19	34	T17296392	T05	6/10/19
13	T17296371	CJ05A	6/10/19	35	T17296393	T06	6/10/19
14	T17296372	CJ05B	6/10/19	36	T17296394	T07	6/10/19
15	T17296373	CJ06	6/10/19	37	T17296395	T08	6/10/19
16	T17296374	CJ08	6/10/19	38	T17296396	T09	6/10/19
17	T17296375	EJ01	6/10/19	39	T17296397	T10	6/10/19
18	T17296376	EJ02	6/10/19	40	T17296398	T11	6/10/19
19	T17296377	EJ03	6/10/19	41	T17296399	T12	6/10/19
20	T17296378	EJ04	6/10/19	42	T17296400	T13	6/10/19
21	T17296379	EJ05	6/10/19	43	T17296401	T13G	6/10/19
22	T17296380	EJ06	6/10/19	44	T17296402	T14	6/10/19

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, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



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

June 10,2019



RE: 1767896 - IC CONST. - YOUNG RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: IC Construction Project Name: Young Res. Model: Custom

Lot/Block: n/a Subdivision: n/a

Address: TBD SW Beaver Street, n/a

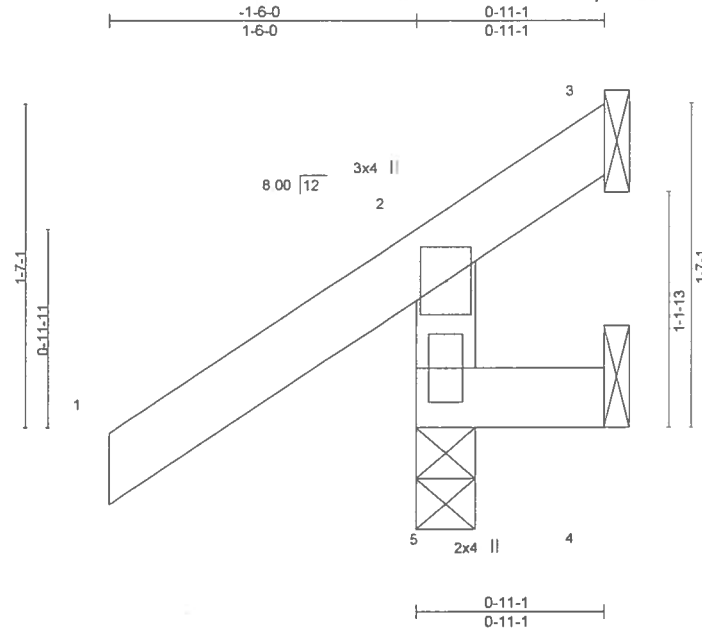
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
45	T17296403	T15	6/10/19
46	T17296404	T16	6/10/19
47	T17296405	T17	6/10/19
48	T17296406	T18	6/10/19
49	T17296407	T19	6/10/19
50	T17296408	T20	6/10/19
51	T17296409	T21	6/10/19
52	T17296410	T22	6/10/19
53	T17296411	T23	6/10/19
54	T17296412	T24	6/10/19
55	T17296413	T25	6/10/19
56	T17296414	T26	6/10/19
57	T17296415	V01	6/10/19
58	T17296416	V02	6/10/19
59	T17296417	V03	6/10/19
60	T17296418	V04	6/10/19

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296359
1767896	CJ01	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 12 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUldS3j3zNYe6-m93YANalBAP2yQAN0D1KjblZ20k6eSvT3s3trkz7gWP



Scale = 1:10.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	0.00	5	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	5	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						
								Weight 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 0-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

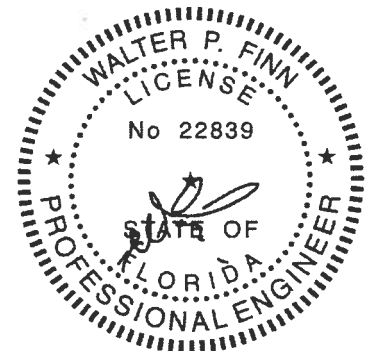
REACTIONS.

(lb/size) 5=213/0-3-8, 3=53/Mechanical, 4=15/Mechanical
Max Horz 5=58(LC 12)
Max Uplift 5=88(LC 12), 3=53(LC 1), 4=23(LC 9)
Max Grav 5=213(LC 1), 3=25(LC 16), 4=9(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=18ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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

June 10, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

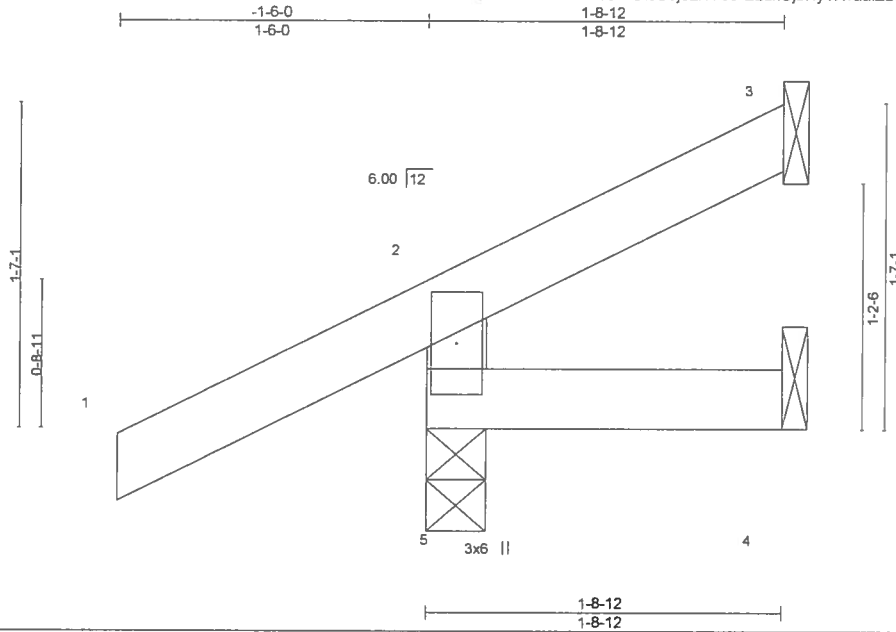


6904 Parke East Blvd.
Tampa, FL 33610

Job 1767896	Truss CJ02	Truss Type Jack-Open	Qty 2	Ply 1	IC CONST - YOUNG RES Job Reference (optional)	T17296360
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 13 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-ELdxOjbNyTXvaalZawYZForKiP4ANv9dHWpQOAz7gWO



Scale = 1/10.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.04	Vert(LL) 0.00 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) 0.00 5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.00 3 n/a n/a		
	Code FBC2017/TPI2014			Weight 9 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=194/0-3-8, 3=10/Mechanical, 4=1/Mechanical
Max Horz 5=64(LC 12)
Max Uplift 5=-89(LC 12), 3=-23(LC 12), 4=-16(LC 9)
Max Grav 5=194(LC 1), 3=11(LC 19), 4=26(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=18ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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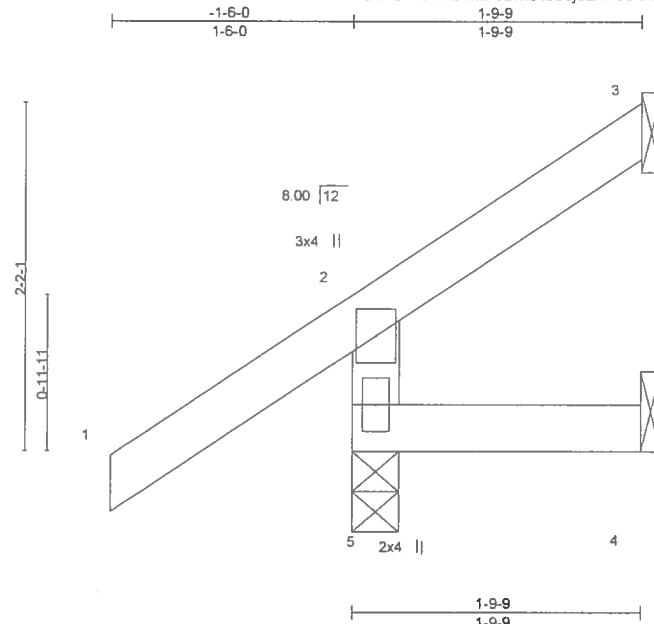


6904 Parke East Blvd.
Tampa, FL 33610

Job 1767896	Truss CJ02A	Truss Type Jack-Open	Qty 2	Ply 1	IC CONST - YOUNG RES T17296361
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 14 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-iXBjB2c7jngmCkKI8e3oo0OuspQB6MPmWAY_wcz7gWN



Scale = 1:13.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.06	Vert(LL) 0.00 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.00 5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.00 3 n/a n/a		
	Code FBC2017/TPI2014			Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 5=194/0-3-8, 3=12/Mechanical, 4=4/Mechanical
Max Horz 5=86(LC 12)
Max Uplift 5=66(LC 12), 3=38(LC 12), 4=25(LC 9)
Max Grav 5=194(LC 1), 3=24(LC 19), 4=28(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=18ft; Cat II; Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 10, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-1473 rev. 10/03/2015 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

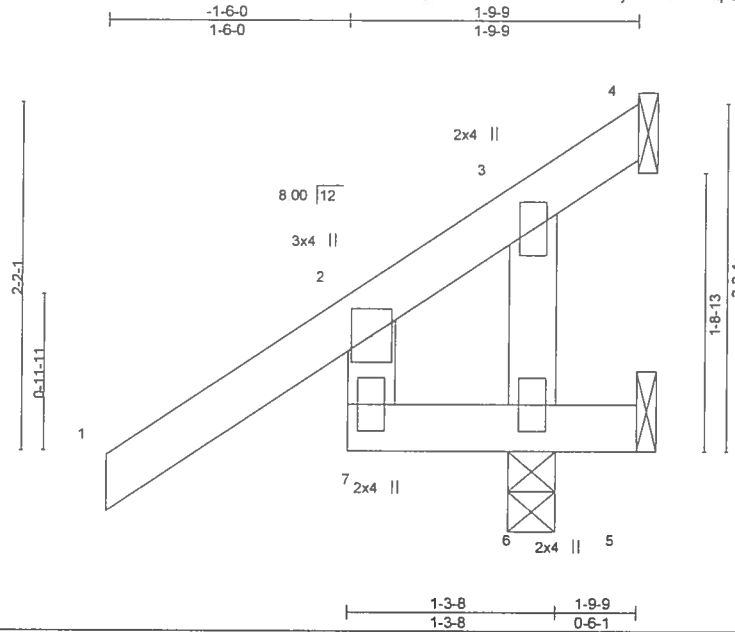


6904 Parke East Blvd.
Tampa, FL 33610

Job 1767896	Truss CJ02B	Truss Type Jack-Open	Qty 1	Ply 1	IC CONST - YOUNG RES Job Reference (optional)	T17296362
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Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 15 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-AkhpOddU5odpuuyiLa1LDw4CDjerpwwlqIXS3z7gWM



Scale = 1:13.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	Vert(LL)	0.00	6	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.24	Vert(CT)	0.00	6	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	-0.03	4	n/a		
BCDL 10.0	Code FBC2017/TP12014	Matrix-MP						
							Weight: 11 lb	FT = 20%

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

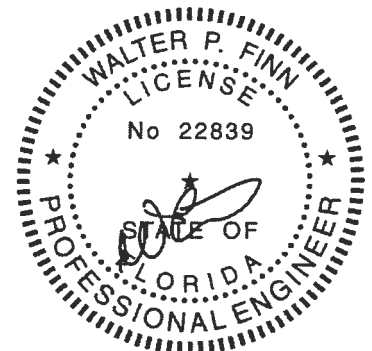
BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=-109/Mechanical, 5=-180/Mechanical, 6=499/0-3-8
Max Horz 6=99(LC 12)
Max Uplift 4=-109(LC 1), 5=-180(LC 1), 6=-161(LC 12)
Max Grav 4=13(LC 8), 5=46(LC 12), 6=499(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=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=109, 5=180, 6=161.



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

June 10, 2019

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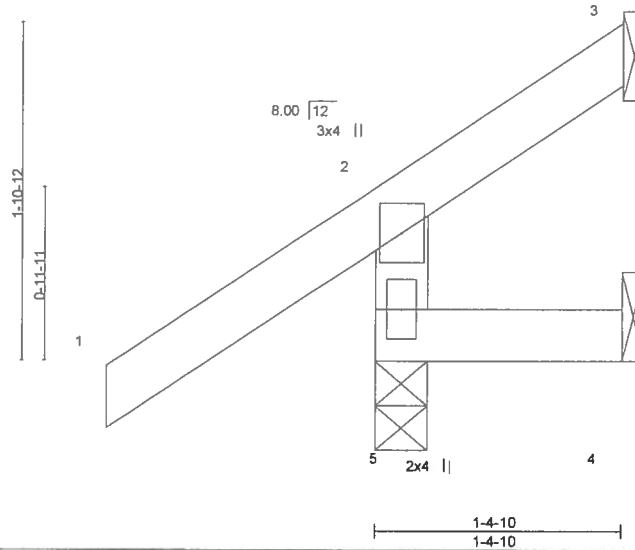
Job 1767896	Truss CJ02C	Truss Type Jack-Open	Qty 1	Ply 1	IC CONST - YOUNG RES T17296363
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 16 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-ewJ30kdGFOwUR2T8F35GtRTEod6waFv3_U14?Vz7gWL



Scale = 1/12.5



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 0.26	Vert(LL)	0.00	5	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						
								Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=194/0-3-8, 3=10/Mechanical, 4=4/Mechanical
Max Horz 5=73(LC 12)
Max Uplift 5=71(LC 12), 3=18(LC 12), 4=9(LC 9)
Max Grav 5=194(LC 1), 3=14(LC 8), 4=19(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=18ft, Cat II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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June 10, 2019

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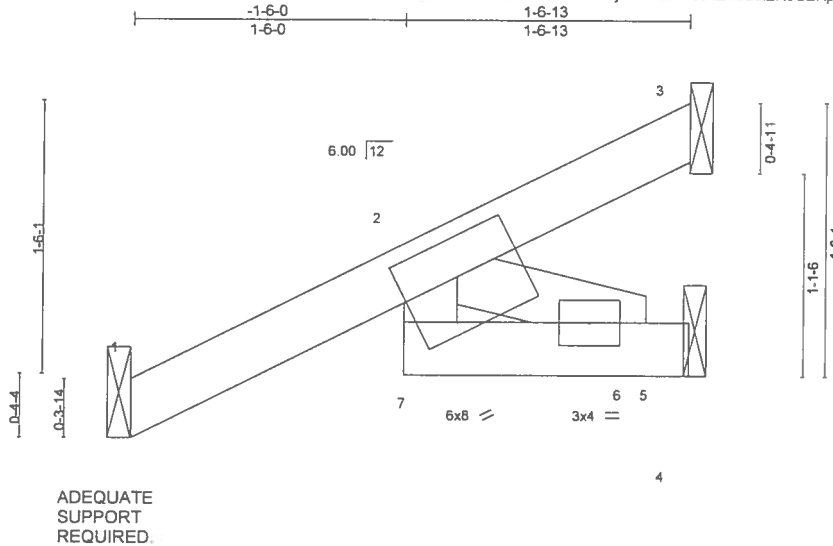
MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss CJ02D	Truss Type Jack-Open	Qty 1	Ply 1	IC CONST. - YOUNG RES T17296364
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 17 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-66iRE4eu0i2K3C2KpmdVQe0Ra1SUJi9CC8neXxz7gWK



Scale = 1/12/3

Plate Offsets (X,Y)- [7:0-1-9,0-0-13], [7:0-3-12,0-2-8]

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 0.19	Vert(LL)	0.02	7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.02	7	>999	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	5	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MP						
								Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

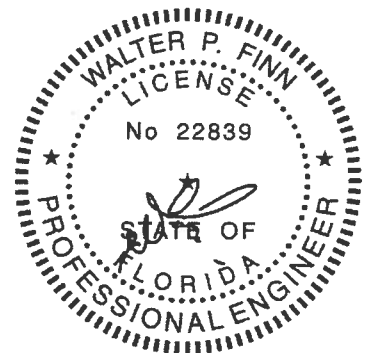
TOP CHORD Structural wood sheathing directly applied or 1-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=87/Mechanical, 3=88/Mechanical, 5=15/Mechanical
Max Horz 1=73(LC 12)
Max Uplift 1=40(LC 12), 3=76(LC 12), 5=11(LC 8)
Max Grav 1=87(LC 1), 3=88(LC 1), 5=30(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=18ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 5.



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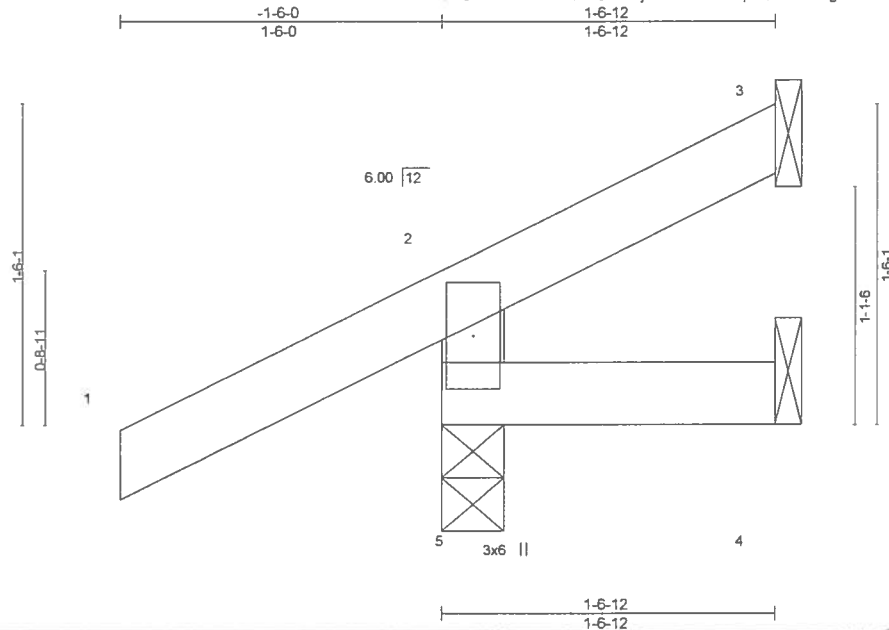
MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES	T17296365
1767896	CJ02E	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 18 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUldS3j3zNYe6-aJQqRQfWn0ABgMdXNU8kysYbXQnK29PMRoWB3Nz7gWJ



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 0.24	Vert(LL)	0.00	5	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	5	>999	180	
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						
								Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

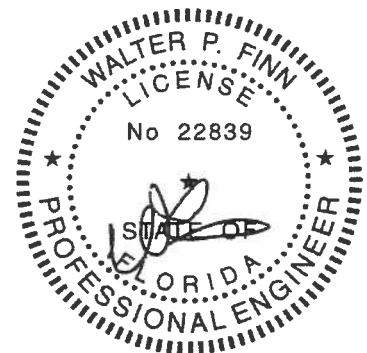
TOP CHORD Structural wood sheathing directly applied or 1-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=193/0-3-8, 3=2/Mechanical, 4=2/Mechanical
Max Horz 5=60(LC 12)
Max Uplift 5=90(LC 12), 3=17(LC 12), 4=15(LC 9)
Max Grav 5=193(LC 1), 3=6(LC 8), 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=18ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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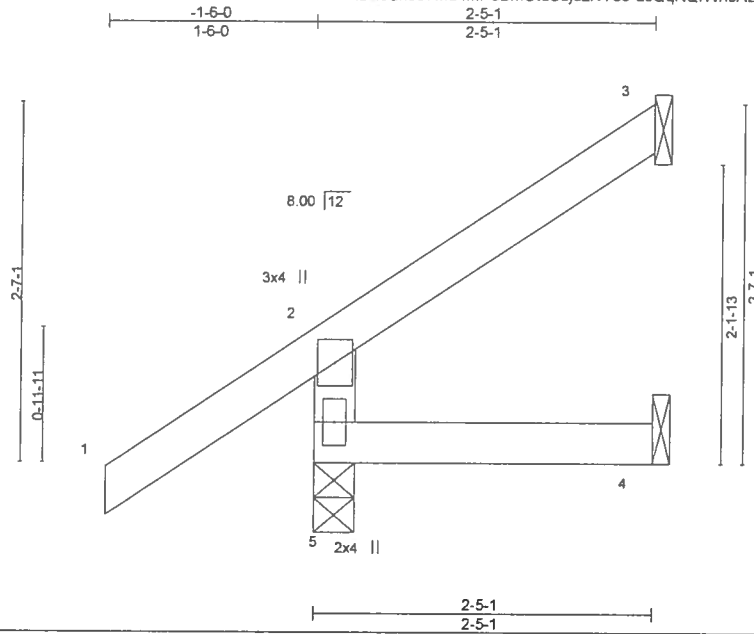


6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss CJ03	Truss Type Jack-Open	Qty 2	Ply 1	IC CONST. - YOUNG RES T17296366
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Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 18 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-aJQqRQfWn0ABgMdXNU8kysYaUQmY29PMRoWB3Nz7gWJ



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	0.00	4-5	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MR						
							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=204/0-3-8, 3=35/Mechanical, 4=14/Mechanical
Max Horz 5=105(LC 12)
Max Uplift 5=63(LC 12), 3=59(LC 12), 4=29(LC 9)
Max Grav 5=204(LC 1), 3=48(LC 19), 4=39(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=18ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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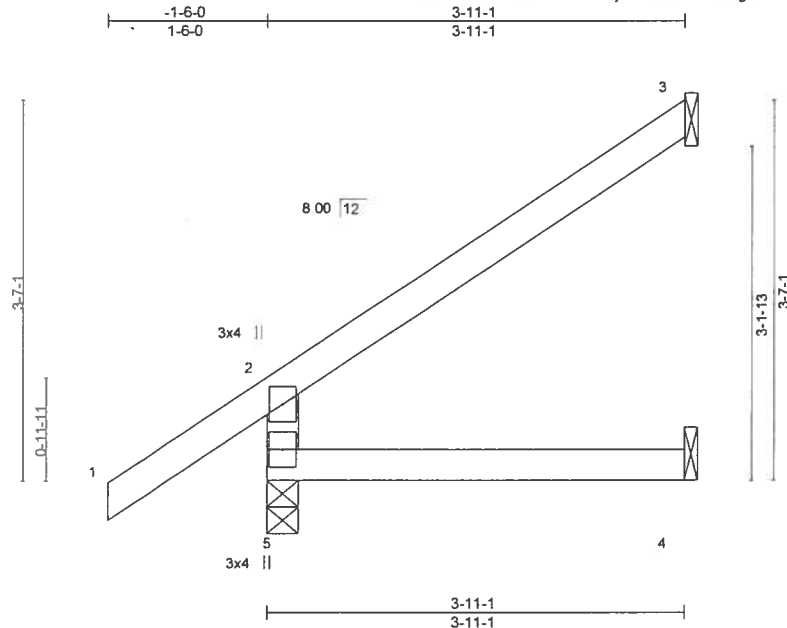
MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296367
1767896	CJ04	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 20 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-XhYas6gmdQvwfnvUuAC2HevHEQYW3ufu6?I8Gz7gWH



Scale = 1/20 9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	0.03	4-5	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	0.03	4-5	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						
								Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

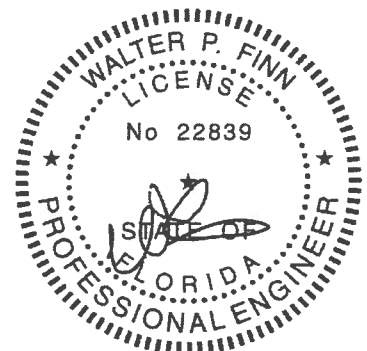
TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=246/0-3-8, 3=82/Mechanical, 4=36/Mechanical
Max Horz 5=154(LC 12)
Max Uplift 5=-65(LC 12), 3=-106(LC 12), 4=-43(LC 9)
Max Grav 5=246(LC 1), 3=98(LC 19), 4=68(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=18ft, Cat. II; Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 3=106.



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June 10, 2019

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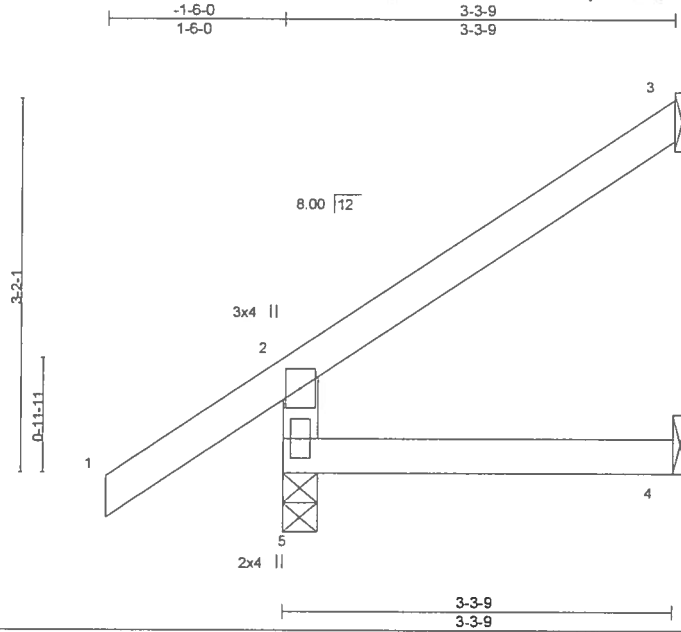
MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss CJ04A	Truss Type Jack-Open	Qty 2	Ply 1	IC CONST - YOUNG RES Job Reference (optional)	T17296368
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 21 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-7u6y3ShO3xYmXpM52chRaUA4GenzFW8o7mIrgiz7gWG



Scale = 1:18.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	0.02	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						Weight: 15 lb	FT = 20%

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

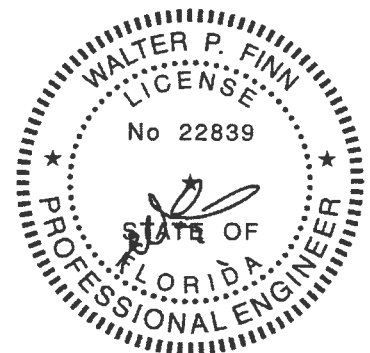
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=227/0-3-8, 3=63/Mechanical, 4=27/Mechanical
Max Horz 5=133(LC 12)
Max Uplift 5=63(LC 12), 3=87(LC 12), 4=37(LC 9)
Max Grav 5=227(LC 1), 3=78(LC 19), 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=18ft; Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone, end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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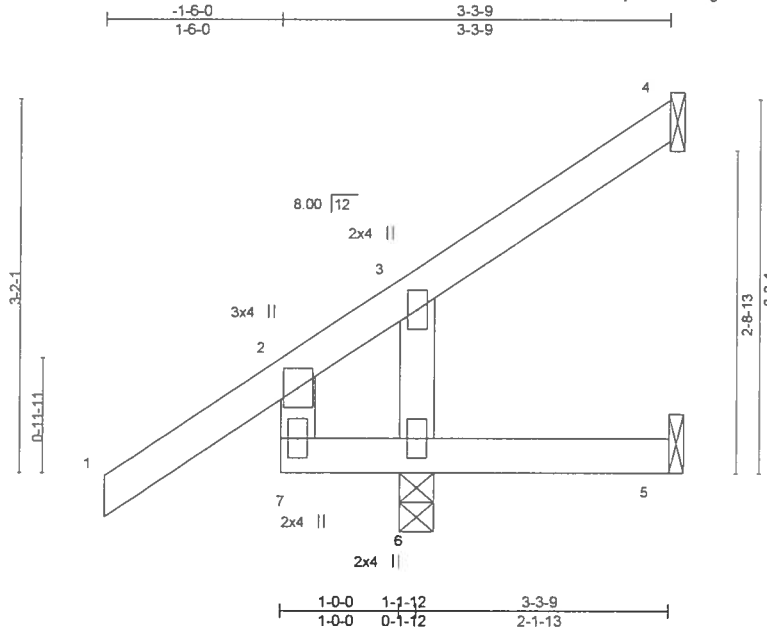
MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.
1767896	CJ04B	Jack-Open	1	1	T17296369

Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 22 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-T4gKHni0qEgd9zxcJcG7ijGs26R_zmyMQUPC9z7gWF



Scale = 1:18.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.23	Vert(LL) 0.00 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.04	Vert(CT) 0.01 5-6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.04 4 n/a n/a		
	Code FBC2017/TPI2014			Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

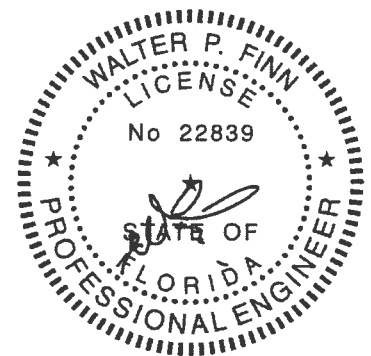
TOP CHORD Structural wood sheathing directly applied or 3-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=11/Mechanical, 5=29/Mechanical, 6=335/0-3-8
Max Horz 6=133(LC 12)
Max Uplift 4=63(LC 12), 5=34(LC 20), 6=93(LC 12)
Max Grav 4=31(LC 10), 5=21(LC 3), 6=335(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; TCCL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 6.



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June 10, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

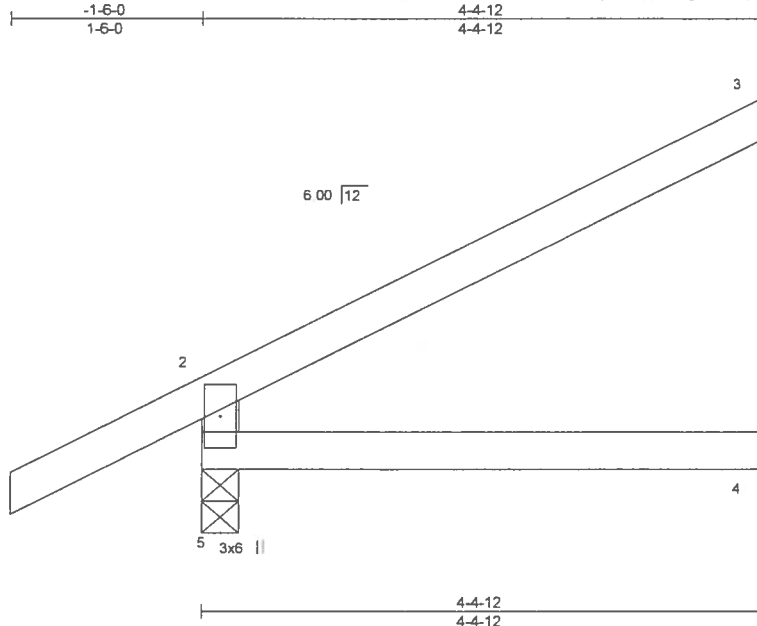
MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES.	T17296370
1767896	CJ05	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18.22 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-T4gKHni0qEgd9zxcJCg7ijGN25T_zOyMQUPC9z7gWFF



Scale = 1 17.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2'-0'-0"	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCOL 7.0	Plate Grip DOL 1.25	BC 0.29	Vert(LL) 0.05 4-5 >999 240		
BCCL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) 0.04 4-5 >999 180		
BCOL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.02 3 n/a n/a		
	Code FBC2017/TPI2014			Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 5=261/0-3-8, 3=95/Mechanical, 4=43/Mechanical
Max Horz 5=128(LC 12)
Max Uplift 5=100(LC 12), 3=96(LC 12), 4=42(LC 9)
Max Grav 5=261(LC 1), 3=95(LC 1), 4=77(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=18ft, Cat. II; Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



Walter P. Finn PE No.22839
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Date:

June 10, 2019

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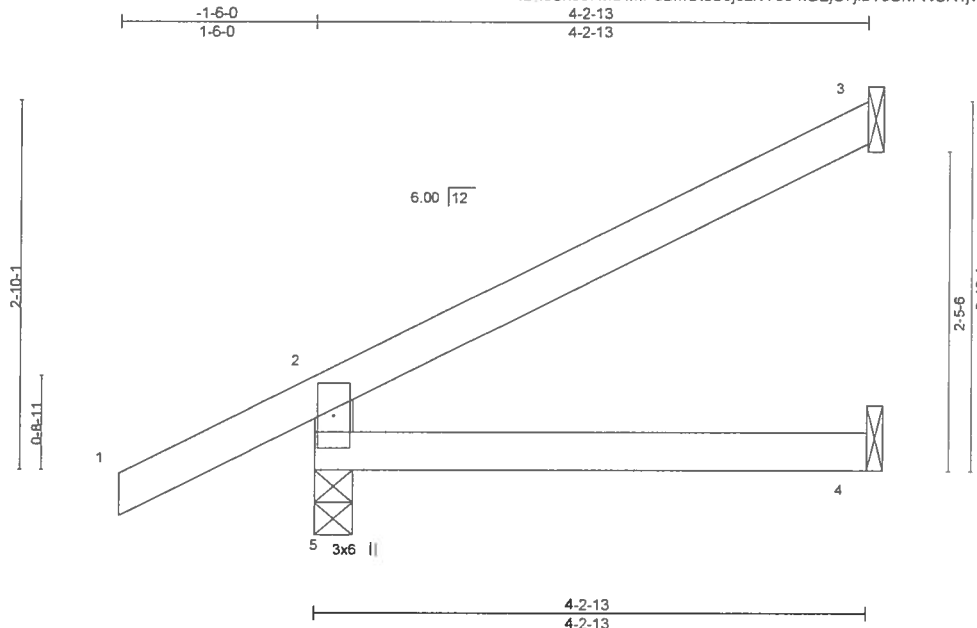


6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.	T17296371
1767896	CJ05A	Jack-Open	3	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 23 2019 Page 1
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Scale = 1/17.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL) 0.04	4-5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(CT) 0.04	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MR					Weight 16 lb	FT = 20%

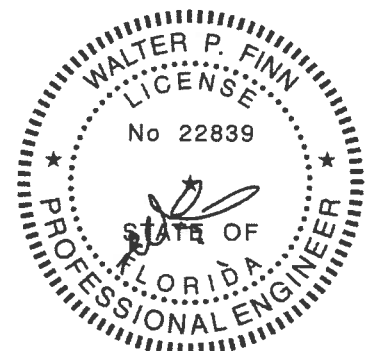
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=256/0-3-8, 3=90/Mechanical, 4=40/Mechanical
Max Horz 5=124(LC 12)
Max Uplift 5=98(LC 12), 3=92(LC 12), 4=40(LC 9)
Max Grav 5=256(LC 1), 3=90(LC 1), 4=73(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=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES	T17296372
1767896	CJ05B	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 24 2019 Page 1
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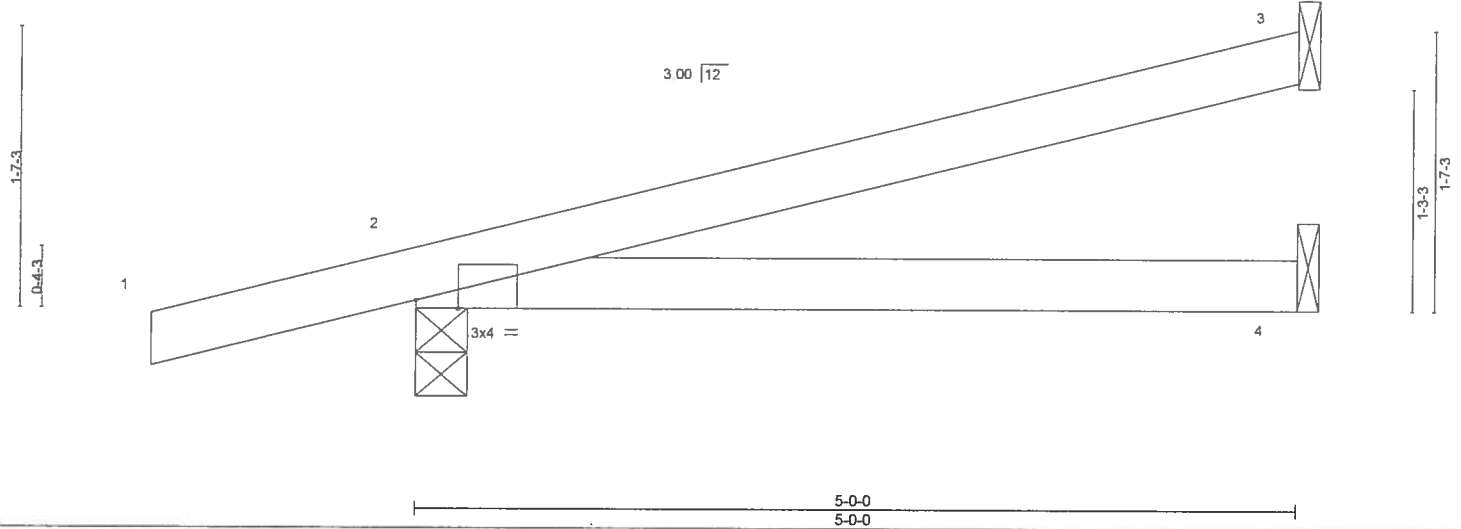


Plate Offsets (X,Y)– [2-0-2-14,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.26	Vert(LL)	0.03 4-7 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.22	Vert(CT)	-0.05 4-7 >999	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.00	Horz(CT)	0.00 2 n/a	n/a	
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP					
								Weight: 18 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=111/Mechanical, 2=276/0-3-8, 4=60/Mechanical
Max Horz 2=84(LC 8)
Max Uplift 3=-79(LC 12), 2=-175(LC 8), 4=-5(LC 12)
Max Grav 3=111(LC 1), 2=276(LC 1), 4=85(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=18ft; Cat. II; Exp C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=175.



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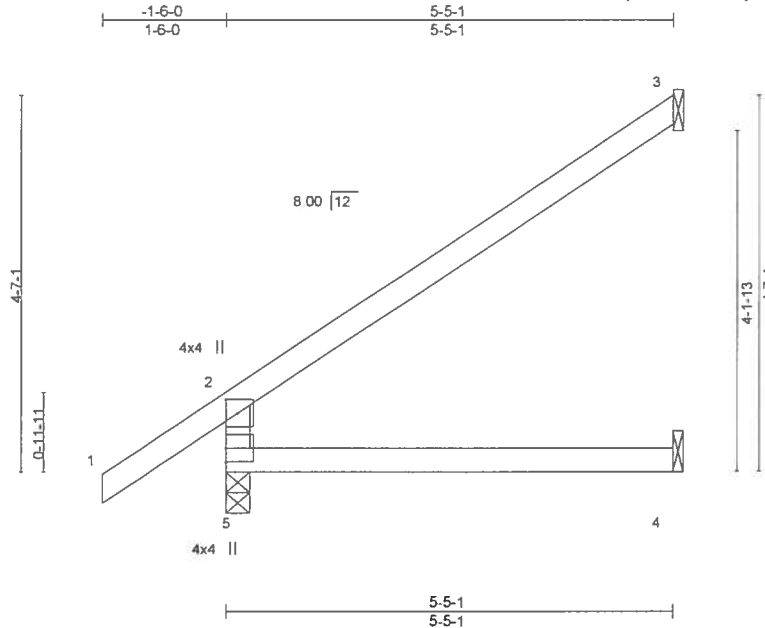


6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296373
1767896	CJ06	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 24 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-PTo5iJHMswLOH5gjkF8C7oYqreStuEpkzWH1z7gWD



Scale = 1.27 0

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

LOADING (psf)	SPACING-		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	4-5	>485	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.50	Vert(CT)	0.12	4-5	>541	180		
BCLL 0.0	Rep Stress Incr YES		WB 0.00	Horz(CT)	-0.07	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						Weight: 21 lb	FT = 20%

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

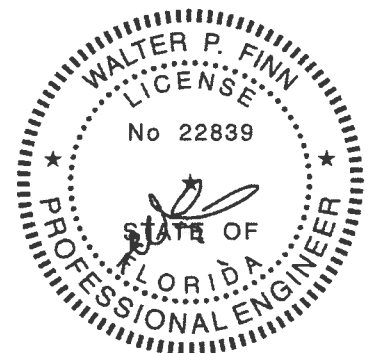
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=296/0-3-8, 3=122/Mechanical, 4=57/Mechanical
Max Horz 5=202(LC 12)
Max Uplift 5=71(LC 12), 3=148(LC 12), 4=57(LC 9)
Max Grav 5=296(LC 1), 3=143(LC 19), 4=97(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=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 3=148.



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

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296374
1767896	CJ08	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 25 2019 Page 1
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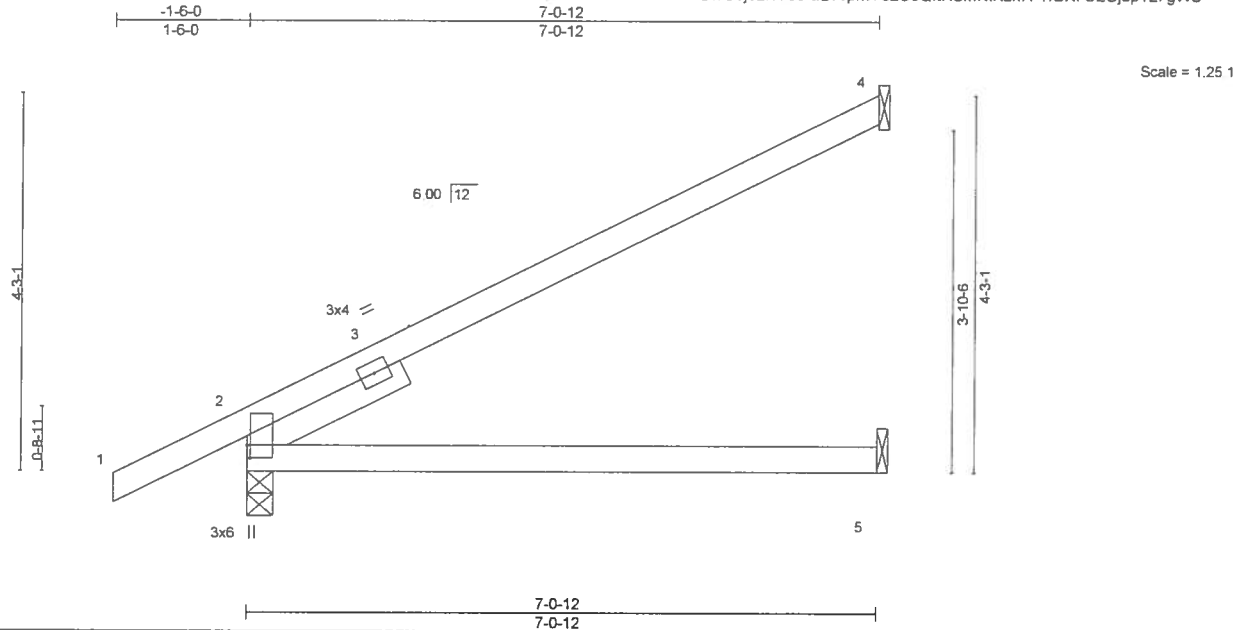


Plate Offsets (X,Y) - [2:0-1-12,0-0-6]								PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	0.34	5-8	>250	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	0.29	5-8	>285	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.06	2	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight 28 lb
									FT = 20%

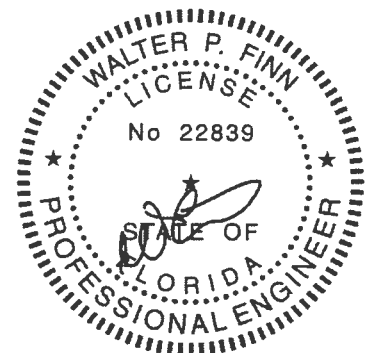
LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-3 oc bracing.

REACTIONS. (lb/size) 4=171/Mechanical, 2=349/0-3-8, 5=80/Mechanical
Max Horz 2=139(LC 12)
Max Uplift 4=102(LC 12), 2=105(LC 9), 5=61(LC 9)
Max Grav 4=171(LC 1), 2=349(LC 1), 5=122(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=398/454

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=102, 2=105.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296375
1767896	EJ01	Jack-Partial	11	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 26 2019 Page 1
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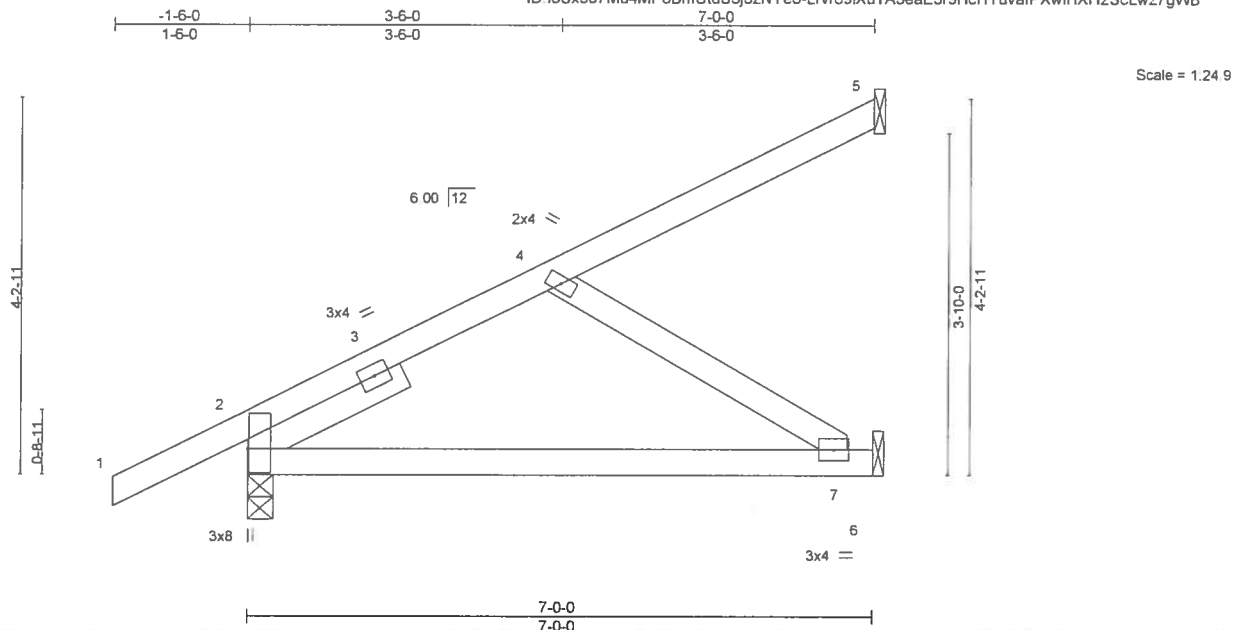


Plate Offsets (X,Y) = [2 0-3-4,0-0-2]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	0.16 7-10	>511	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	0.14 7-10	>584	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	-0.01 2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 33 lb	FT = 20%

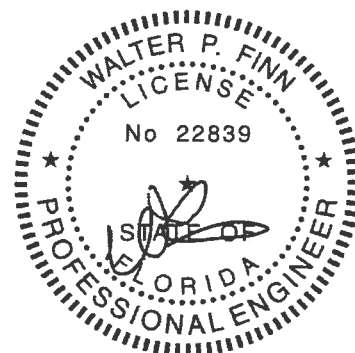
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-12 oc bracing

REACTIONS. (lb/size) 5=77/Mechanical, 2=346/0-3-8, 6=171/Mechanical
Max Horz 2=138(LC 12)
Max Uplift 5=50(LC 12), 2=104(LC 9), 6=113(LC 9)
Max Grav 5=77(LC 1), 2=346(LC 1), 6=174(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=521/848
BOT CHORD 2-7=383/202
WEBS 4-7=237/451

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp. C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=104, 6=113.



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June 10, 2019

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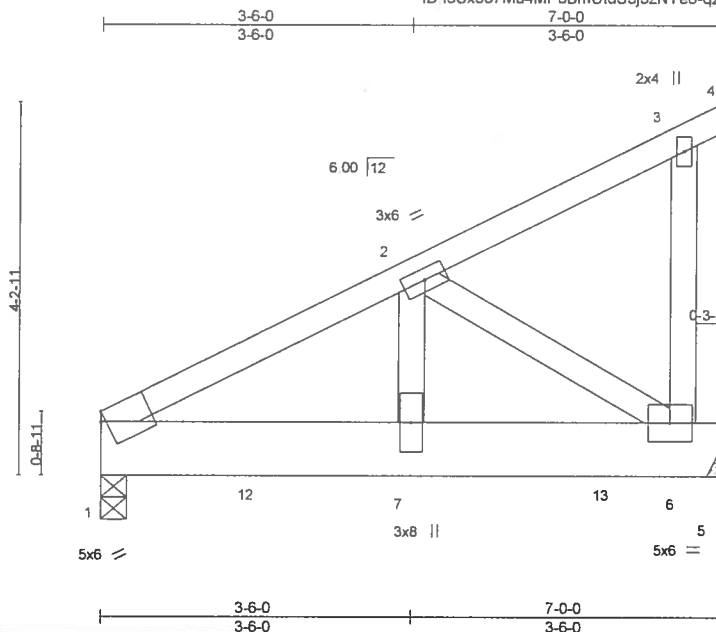
MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job 1767896	Truss EJ02	Truss Type Jack-Partial Girder	Qty 1	Ply 1	IC CONST - YOUNG RES Job Reference (optional)	T17296376
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Builders FirstSource, Jacksonville, FL - 32244,

8,240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 27 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-q2TDKvm9nlwFkpFPsorqIQ8T3qPf9phViCAIMz7gWA



Scale = 1.25.2

Plate Offsets (X,Y) - [1 Edge, 0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	-0.01	7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.02	6-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.37	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 45 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=994/0-3-8, 5=1050/Mechanical
Max Horz 1=115(LC 23)
Max Uplift 1=309(LC 8), 5=398(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=1161/353
BOT CHORD 1-7=395/1005, 6-7=395/1005
WEBS 2-7=338/977, 2-6=1180/464

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=309, 5=398.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 512 lb down and 206 lb up at 1-8-12, and 512 lb down and 206 lb up at 3-8-12, and 512 lb down and 206 lb up at 5-8-12 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: 3-10=54, 3-4=54, 1-5=20
Concentrated Loads (lb)
Vert: 7=512(F) 12=512(F) 13=512(F)



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MiTek USA, Inc. FL Cert 6634
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Date:

June 10,2019

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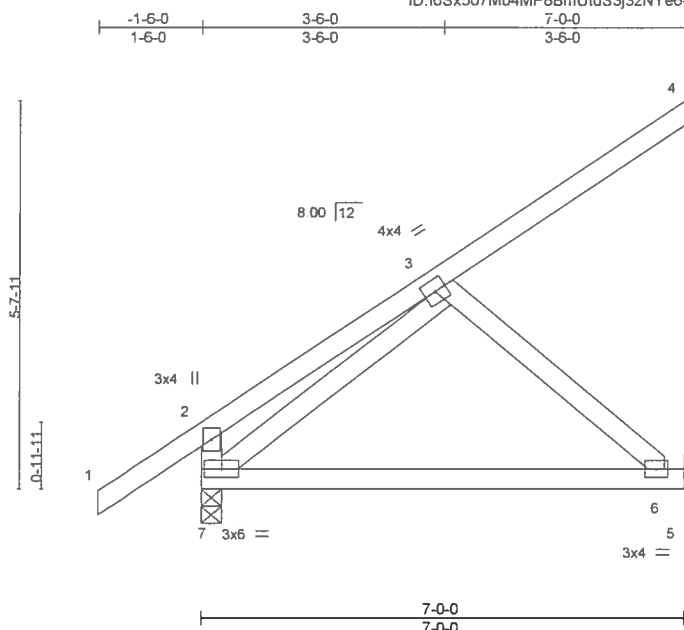


6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296377
1767896	EJ03	Jack-Partial	13	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 27 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-q2TDKvm9fnlwFkpFPsorqiQ4_3lafDxhViCaIMz7gWA



Scale 3/8"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	-0.09	6-7	>890	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.19	6-7	>438	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 39 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 4=80/Mechanical, 5=161/Mechanical, 7=351/0-3-8
Max Horz 7=176(LC 12)
Max Uplift 4=58(LC 12), 5=73(LC 12), 7=32(LC 12)
Max Grav 4=89(LC 19), 5=181(LC 19), 7=351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-256/190
WEBS 3-6=-279/239

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone, end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.



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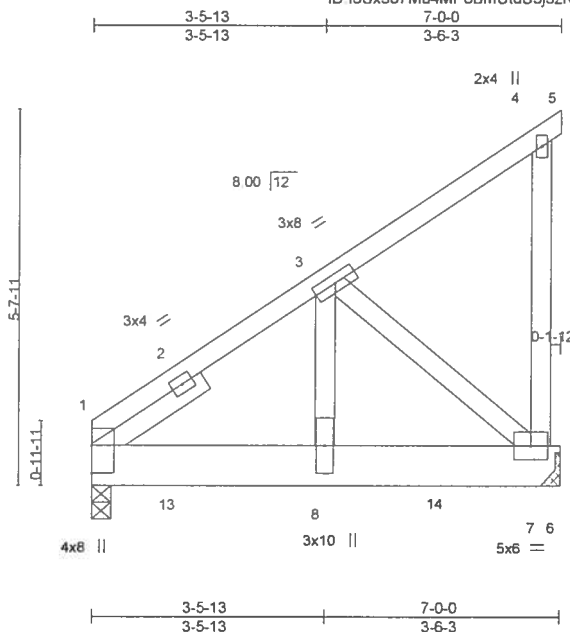


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296378
1767896	EJ04	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 28 2019 Page 1
ID: 16Sx5o7Mu4MP8BmUtdS3j3zNYe6-IE1cXmnQ4QntuOSyaJ4MzzK0SAfOa6qkMxjQoz7gW9



Scale = 1.33 4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.17	Vert(LL) -0.01 8 >999 240		
BCCL 0.0 *	Lumber DOL 1.25	WB 0.50	Vert(CT) -0.02 8 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.00 1 n/a n/a		
	Code FBC2017/TP12014			Weight: 53 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=1380/0-3-8, 7=1327/Mechanical
Max Horz 1=157(LC 8)
Max Uplift 1=283(LC 8), 7=404(LC 8)

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

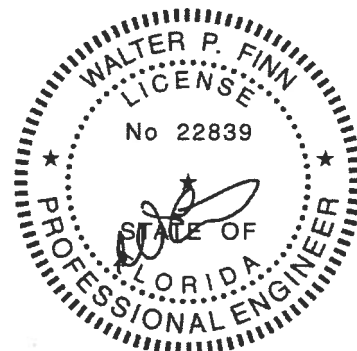
TOP CHORD 1-3=1124/230
BOT CHORD 1-8=299/960, 7-8=299/960
WEBS 3-8=317/1306, 3-7=1263/392

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II; Exp C, 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=283, 7=404.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 760 lb down and 202 lb up at 1-2-6, and 721 lb down and 196 lb up at 3-2-6, and 721 lb down and 196 lb up at 5-2-6 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: 6-9=20, 1-4=54, 4-5=14
Concentrated Loads (lb)
Vert: 8=721(B) 13=760(B) 14=721(B)



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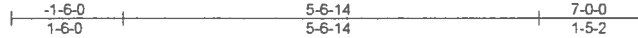
6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.	T17296379
1767896	EJ05	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 29 2019 Page 1

ID: l6Sx5o7Mu4MP8BmUtdS3j3zNYe6-mQb_lBnPOydv2zeWHqJvAVQOsTs77K_z0hHyFz7gW8



Scale = 1.29.9

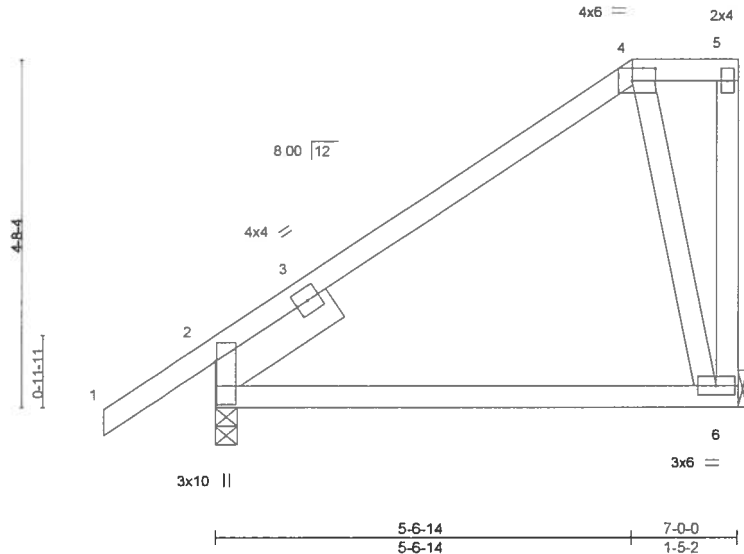


Plate Offsets (X,Y)-- [2 0-6-15,0-0-4], [4 0-3-12,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	-0.06	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.13	6-9	>620	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.04	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

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=245/Mechanical, 2=343/0-3-8
Max Horz 2=154(LC 12)
Max Uplift 6=96(LC 12), 2=49(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-353/8
WEBS 4-6=-295/263

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



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MiTek USA, Inc. FL Cert 6634
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6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss EJ06	Truss Type Half Hip	Qty 1	Ply 1	IC CONST - YOUNG RES	T17296380
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Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 30 2019 Page 1
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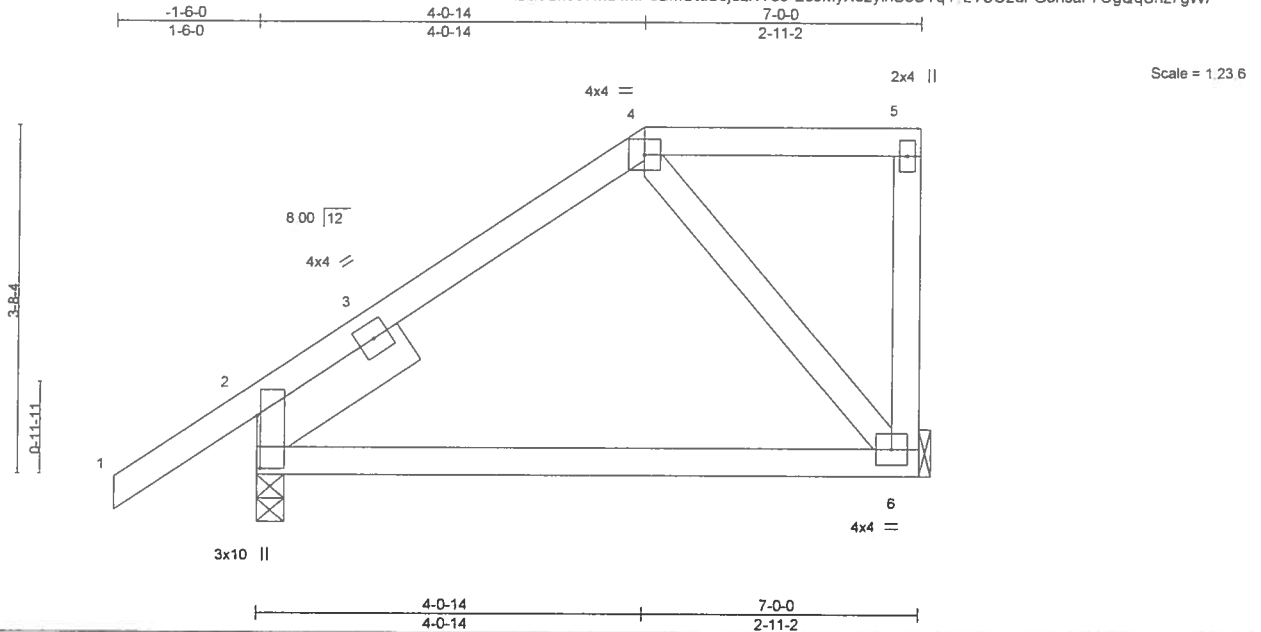


Plate Offsets (X,Y) [2:0-6-11,0-0-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.26	Vert(LL)	-0.05	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.33	Vert(CT)	-0.11	6-9	>750	180		
BCLL 0.0	Rep Stress Incr YES		WB 0.07	Horz(CT)	0.02	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight. 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

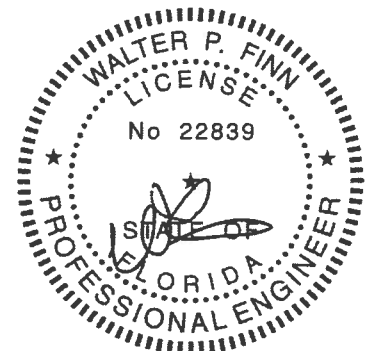
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=343/0-3-8, 6=245/Mechanical
Max Horz 2=120(LC 12)
Max Uplift 2=62(LC 12), 6=73(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-402/77

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



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Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296383
1767896	EJ09	Jack-Partial	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 32 2019 Page 1
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Scale = 1/8" = 1'-0"

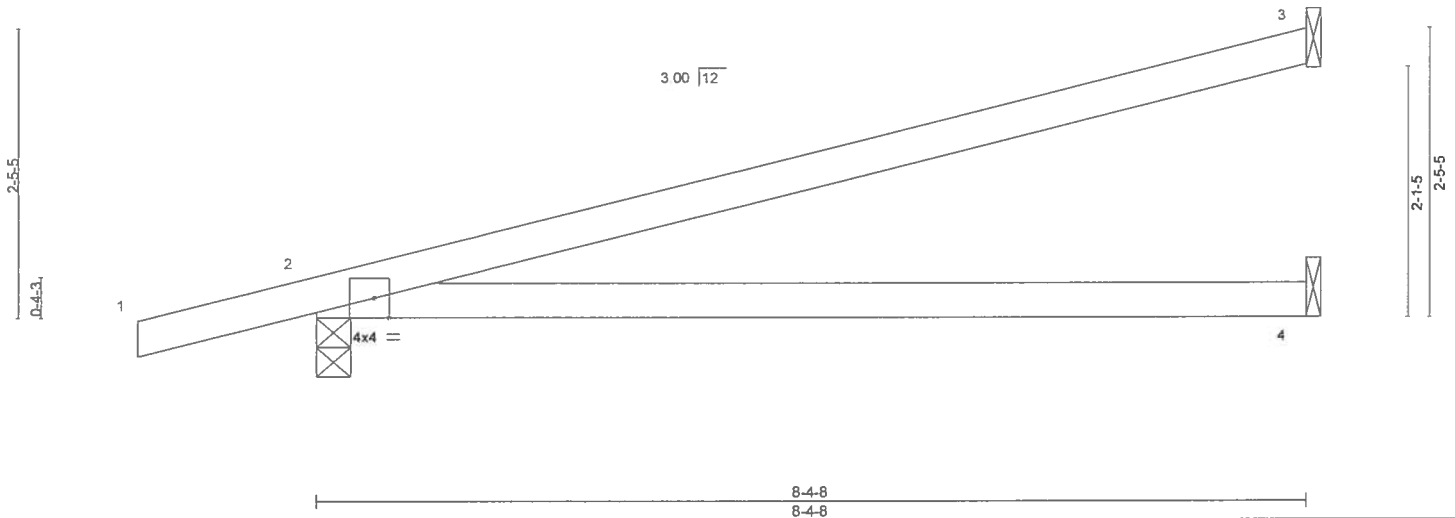


Plate Offsets (X,Y)- [2:0-1-8,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.91	Vert(LL) 0.26	4-7	>390	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.73	Vert(CT) -0.45	4-7	>223	180			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.01	2	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight 28 lb	FT = 20%

LUMBER-

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

BRACING-

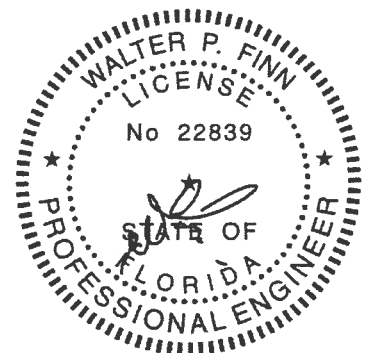
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=197/Mechanical, 2=396/0-3-8, 4=104/Mechanical
Max Horz 2=89(LC 8)
Max Uplift 3=90(LC 12), 2=140(LC 8)
Max Grav 3=197(LC 1), 2=396(LC 1), 4=148(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=18ft, Cat II, Exp C, 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (if=lb) 2=140.



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

June 10,2019

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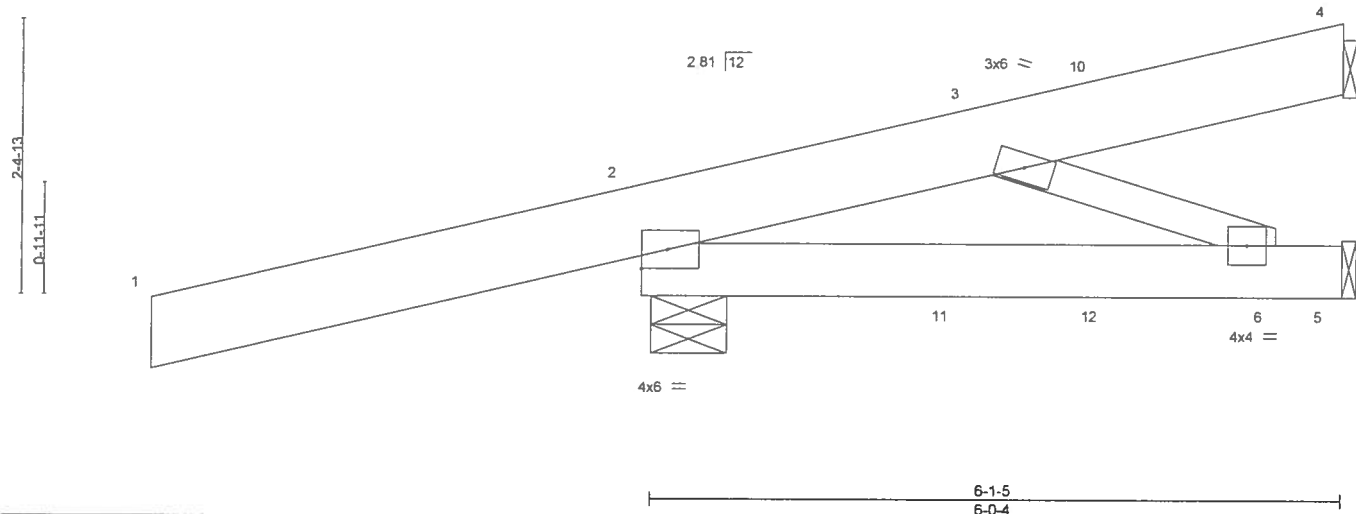
Job 1767896	Truss HJ07	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	IC CONST - YOUNG RES T17296384
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 33 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-eBqUaYqWfD33zHPI7vF30gBYTIV3yWZudfU50z7gW4



Scale = 1 19 4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.13	Vert(LL) -0.01 6-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.04	Vert(CT) -0.02 6-9 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
	Code FBC2017/TP12014			Weight: 51 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP 2400F 2.0E
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=99/Mechanical, 2=538/0-7-15, 5=38/Mechanical
Max Horz 2=134(LC 22)
Max Uplift 4=-88(LC 4), 2=-436(LC 4), 5=-20(LC 9)
Max Grav 4=99(LC 1), 2=538(LC 1), 5=110(LC 22)

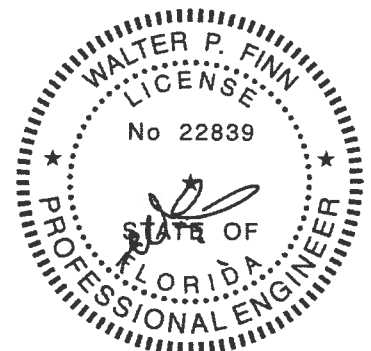
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp C, 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=436.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 59 lb up at 2-8-8, and 73 lb down and 68 lb up at 4-0-3 on top chord, and 26 lb down and 20 lb up at 2-8-8, and 13 lb down and 14 lb up at 4-0-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=54, 5-7=20
Concentrated Loads (lb)
Vert: 10=17(B) 11=15(F)



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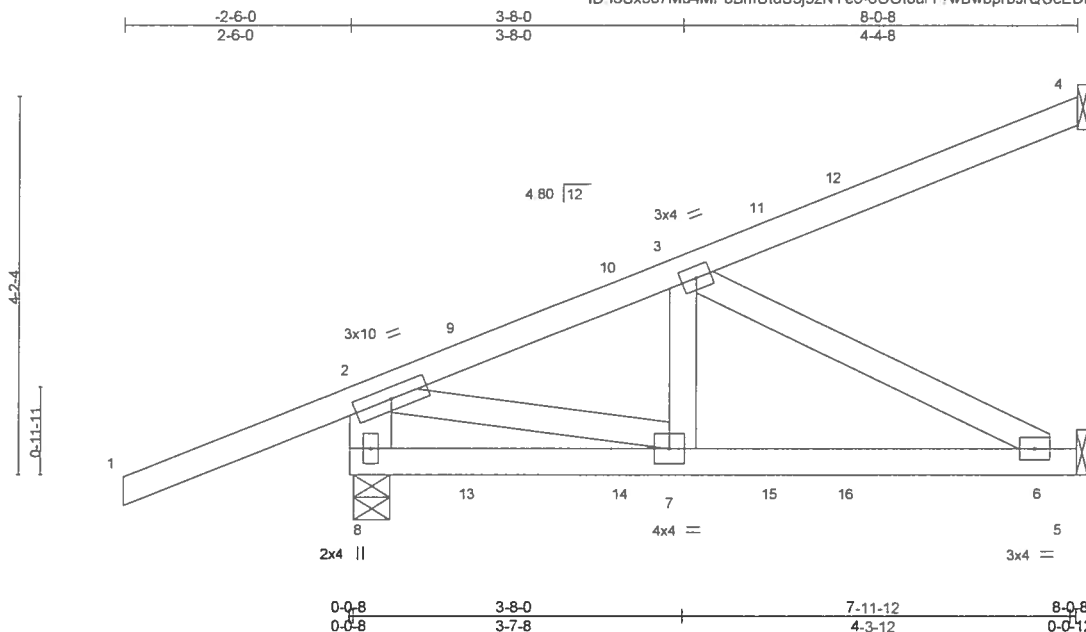
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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296385
1767896	HJ09	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 34 2019 Page 1
ID I6Sx5o7Mu4MP8BmUldS3j3zNYe6-6OOtourY?wBwbprbJrQUcEDFCiBXoMmj6HO1dS7gWV3



Scale = 1.24 6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL) 0.04	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.27	Vert(CT) -0.04	6-7	>999	180		
BCLL 0.0	Rep Stress Incr NO	WB 0.17	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8: 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 6-0-0 oc bracing

REACTIONS.

(lb/size) 8=454/0-4-13, 4=98/Mechanical, 5=167/Mechanical
Max Horz 8=184(LC 8)
Max Uplift 8=346(LC 4), 4=102(LC 8), 5=193(LC 5)
Max Grav 8=455(LC 19), 4=98(LC 19), 5=189(LC 3)

FORCES.

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

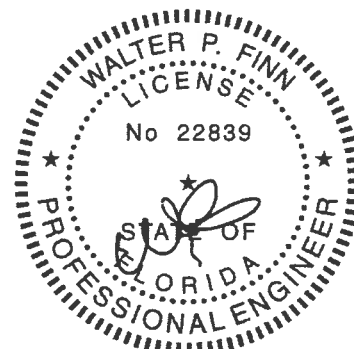
TOP CHORD 2-8=-435/326, 2-3=-362/252
BOT CHORD 6-7=-329/264
WEBS 2-7=-358/437, 3-6=-298/372

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=346, 4=102, 5=193.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 99 lb down and 17 lb up at 1-4-12, 92 lb down and 23 lb up at 3-0-14, and 41 lb down and 84 lb up at 4-8-12, and 109 lb down and 81 lb up at 5-6-14 on top chord, and 39 lb down and 18 lb up at 1-4-12, 8 lb down and 28 lb up at 3-0-14, and 30 lb down and 51 lb up at 4-8-12, and 24 lb down and 45 lb up at 5-6-14 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: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 11=-3(B) 12=-1(F) 13=8(B) 14=6(F) 15=-7(B) 16=-2(F)



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June 10,2019

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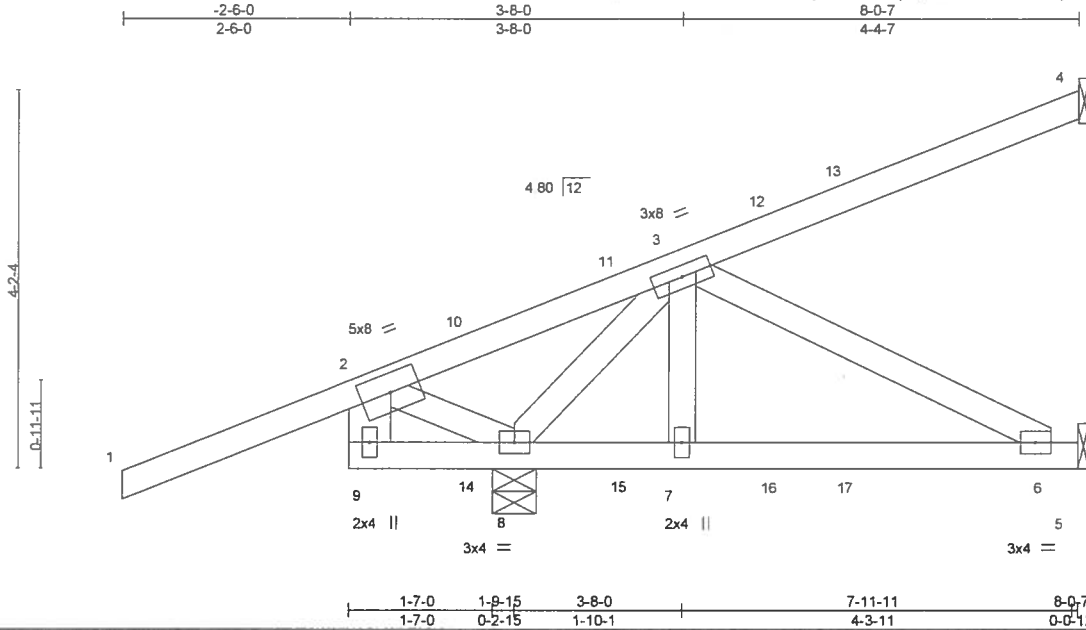


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296386
1767896	HJ09A	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 35 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-bayF?EsAmEJnDzQotYxj8RIQyHZ0XpDsLx8bAuz7gW2



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	Vert(LL)	0.03	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.19	Vert(CT)	-0.03	6-7	>999	180		
BCLL 0.0	Rep Stress Incr NO	WB 0.15	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						Weight: 45 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-9: 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, Except 10-0-0 oc bracing: 5-6.

REACTIONS. (lb/size) 4=97/Mechanical, 5=23/Mechanical, 8=490/0-5-13
Max Horz 8=183(LC 8)
Max Uplift 4=88(LC 8), 5=148(LC 5), 8=523(LC 4)
Max Grav 4=101(LC 19), 5=93(LC 30), 8=490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-319/445
BOT CHORD 7-8=-250/131, 6-7=-250/131
WEBS 3-8=-522/516, 3-6=-148/283

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (envelope) gable end zone; cantilever left exposed; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=148, 8=523.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 66 lb up at 1-4-12, 77 lb down and 176 lb up at 3-0-13, and 41 lb down and 84 lb up at 4-8-12, and 103 lb down and 48 lb up at 5-6-13 on top chord, and 7 lb down and 15 lb up at 1-4-12, 79 lb down and 205 lb up at 3-0-13, and 30 lb down and 51 lb up at 4-8-12, and 38 lb down and 67 lb up at 5-6-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-9=-20
Concentrated Loads (lb)
Vert: 10=-5(F) 11=50(B) 12=-3(F) 15=75(B) 16=-7(F)



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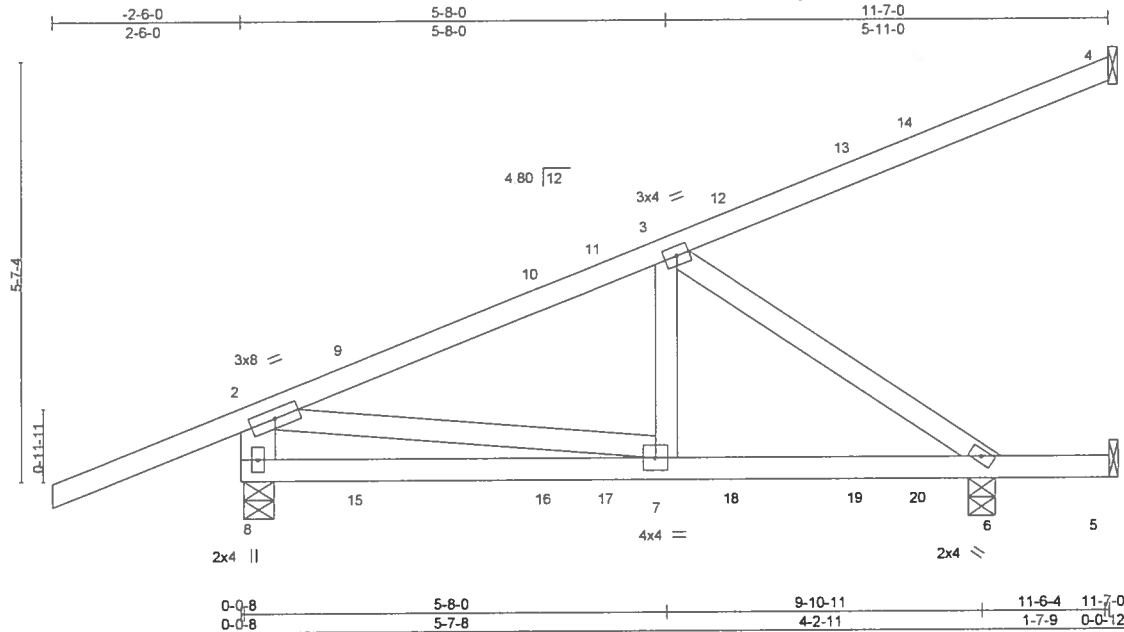


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES	T17296387
1767896	HJ12	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 36 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-3mWdDatoXXRer7?_QFSyhflX3hs0GE4?abt8Lz7gW1



Scale = 1/29 6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	0.03	7-8	>999	240	MT20
TCCL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.04	7-8	>999	180	244/190
BCCL 0.0 *	Rep Stress Incr	NO	WB 0.31	Horz(CT)	-0.01	4	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8: 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 6-0-0 oc bracing.

REACTIONS. All bearings Mechanical except (jt=length) 8=0-4-13, 6=0-4-6.
(lb) - Max Horz 8=176(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 8=429(LC 4), 4=153(LC 8), 6=488(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 8=560(LC 1), 6=493(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-513/373, 2-3=-575/460
BOT CHORD 6-7=-525/481
WEBS 2-7=-448/615, 3-6=-577/629

- NOTES-**
1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope), cantilever left exposed; end vertical left exposed, porch left 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=429, 4=153, 6=488
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 18 lb up at 1-7-4, 62 lb down and 121 lb up at 1-7-6, 77 lb down and 56 lb up at 4-1-6, 43 lb down and 99 lb up at 4-11-4, 101 lb down and 110 lb up at 6-7-6, and 81 lb down and 113 lb up at 8-3-4, and 126 lb down and 156 lb up at 9-1-6 on top chord, and 42 lb down and 19 lb up at 1-7-4, 33 lb down and 51 lb up at 1-7-6, 15 lb down and 34 lb up at 4-1-6, 32 lb down and 54 lb up at 4-11-4, 31 lb down and 53 lb up at 6-7-6, and 58 lb down and 82 lb up at 8-3-4, and 47 lb down and 73 lb up at 9-1-6 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. 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert. 9=31(F) 11=-5(B) 12=-14(F) 13=-81(B) 14=-55(F) 15=7(B) 16=4(F) 17=-9(B) 18=-11(F) 19=-46(B) 20=-32(F)



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Date:

June 10, 2019

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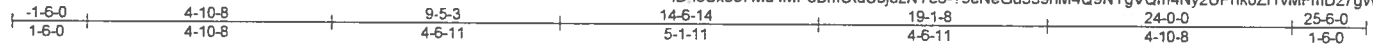
6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES.	T17296388
1767896	T01	Hip Girder	1	1		

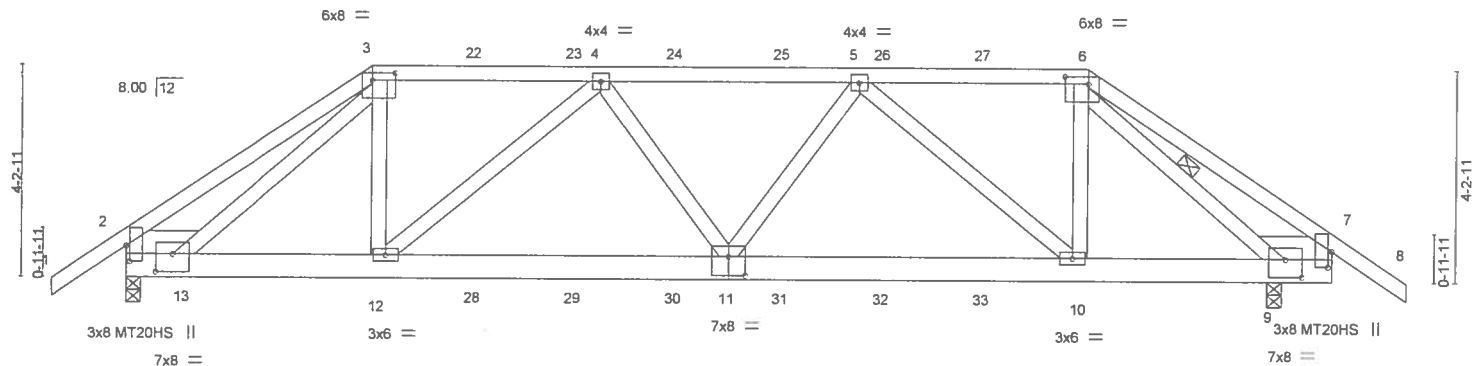
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8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 38 2019 Page 1

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Scale = 1.44 4



1-1-12	4-10-8	12-0-0	19-1-8	23-0-0	24-0-0
1-1-12	3-8-12	7-1-8	7-1-8	3-10-8	1-0-0

Plate Offsets (X,Y) - [2-0-3-12,0-0-14], [3-0-5-8,0-1-12], [6-0-5-8,0-1-12], [7-0-3-13,0-0-14], [9-0-4-0,0-4-4], [11-0-4-0,0-4-8], [13-0-4-0,0-4-4]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.83	Vert(LL) 0.16 10-11 >999 240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.82	Vert(CT) -0.19 10-11 >999 180		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.05 9 n/a n/a		
				Weight: 162 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-3 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-5-6 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-9
SLIDER Left 2x6 SP No.2 1-5-7, Right 2x6 SP No.2 1-5-7	

REACTIONS. (lb/size) 2=1693/0-3-8, 9=1780/0-3-8
Max Horz 2=107(LC 6)
Max Uplift 2=1060(LC 5), 9=1108(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1577/1067, 3-4=1907/1344, 4-5=2725/1861, 5-6=1474/1096
BOT CHORD 2-13=366/451, 12-13=1299/1861, 11-12=1740/2564, 10-11=1633/2405,
9-10=998/1428
WEBS 3-13=905/658, 3-12=912/1238, 4-12=902/596, 4-11=235/379, 5-11=391/587,
5-10=1246/796, 6-10=934/1237, 6-9=1997/1328

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope); cantilever right exposed, porch left and right exposed, Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1060, 9=1108.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 58 lb up at 4-10-8, 27 lb down and 54 lb up at 6-11-4, 27 lb down and 54 lb up at 8-11-4, 27 lb down and 54 lb up at 10-11-4, 27 lb down and 54 lb up at 13-0-12, 27 lb down and 54 lb up at 15-0-12, and 27 lb down and 54 lb up at 17-0-12, and 41 lb down and 58 lb up at 19-1-8 on top chord, and 294 lb down and 356 lb up at 4-10-8, 151 lb down and 133 lb up at 6-11-4, 151 lb down and 133 lb up at 8-11-4, 151 lb down and 133 lb up at 10-11-4, 151 lb down and 133 lb up at 13-0-12, 151 lb down and 133 lb up at 15-0-12, and 151 lb down and 133 lb up at 17-0-12, and 223 lb down and 306 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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Date:

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Continued on page 2

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a building system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information - available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES	T17296388
1767896	T01	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 38 2019 Page 2
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-79eNeGu339hM4Q9NYgVQm4Ny2UPhk0Zl1vMFmDz7gW?

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-6=-54, 6-8=-54, 14-18=-20

Concentrated Loads (lb)

Vert: 3=-23(B) 6=-23(B) 12=-294(B) 10=-151(B) 22=-23(B) 23=-23(B) 24=-23(B) 25=-23(B) 26=-23(B) 27=-23(B) 28=-151(B) 29=-151(B) 30=-151(B) 31=-151(B)
32=-151(B) 33=-151(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-1473 rev. 10/03/2015 BEFORE USE

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

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

ANSI/TPI-1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd
Tampa, FL 36610

Job 1767896	Truss T02	Truss Type Hip	Qty 1	Ply 1	IC CONST - YOUNG RES T17296389
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 39 2019 Page 1

ID I6Sx5o7Mu4MP8BmUldS3j3znYe6-TLCmrcvqhSpDiakZ50fJHw8vutoTY?SGZ6oJfz7gW

Job Reference (optional)

-1-6-0	1-1-12	6-4-8	12-0-0	17-7-8	22-10-4	24-0-0	25-6-0
1-6-0	1-1-12	5-2-12	5-7-8	5-7-8	5-2-12	1-1-12	1-6-0

Scale = 1 44 0

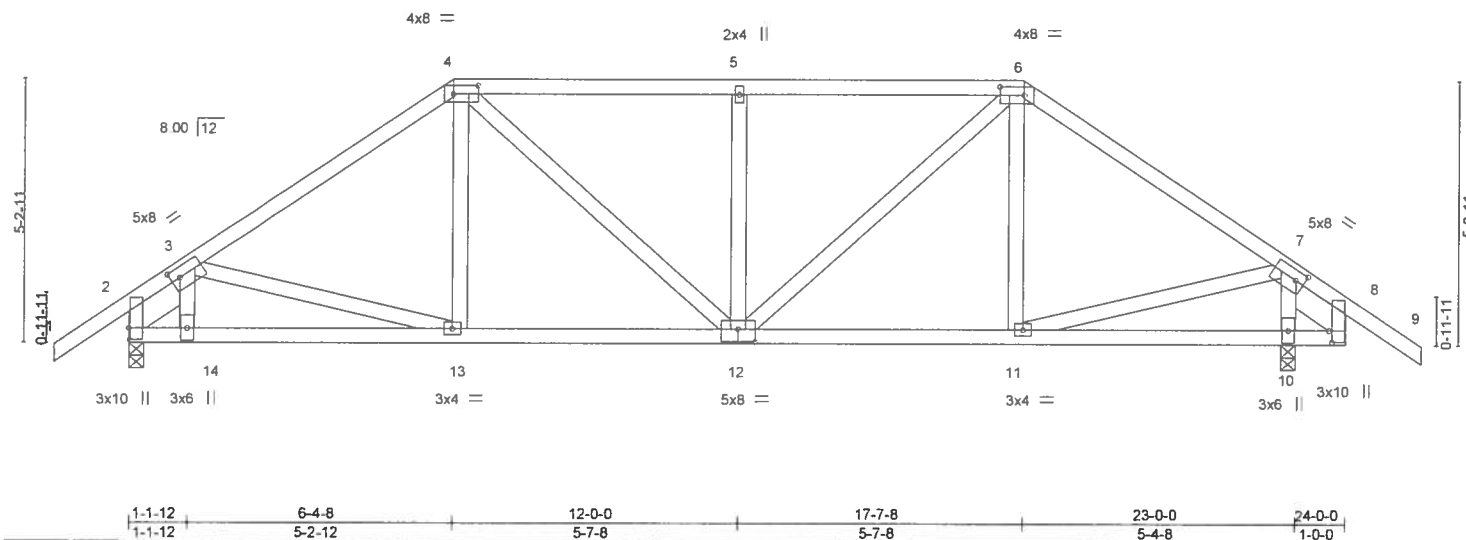


Plate Offsets (X,Y) - [2:0-2-12,0-0-4], [3:0-2-2,0-2-4], [4:0-5-12,0-2-0], [6:0-5-12,0-2-0], [7:0-2-2,0-2-4], [8:0-2-12,0-0-12], [12:0-4-0,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39	Vert(LL)	0.07 11-12	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.06 11-12	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.02 10	n/a	n/a
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS				
				Weight: 148 lb FT = 20%			

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-4-10, Right 2x6 SP No.2 1-4-10

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

REACTIONS. (lb/size) 2=921/0-3-8, 10=1017/0-3-8
Max Horz 2=132(LC 10)
Max Uplift 2=410(LC 9), 10=420(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=1036/1215, 4-5=993/1312, 5-6=994/1312, 6-7=908/1073, 7-8=370/349
BOT CHORD 2-14=827/703, 13-14=820/703, 12-13=846/795, 11-12=720/682
WEBS 4-13=277/208, 4-12=307/324, 5-12=347/253, 6-12=482/449, 7-11=708/676, 7-10=880/901

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) and C-C Exterior(2) zone, cantilever right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=410, 10=420.



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June 10,2019

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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296390
1767896	T03	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 40 2019 Page 1
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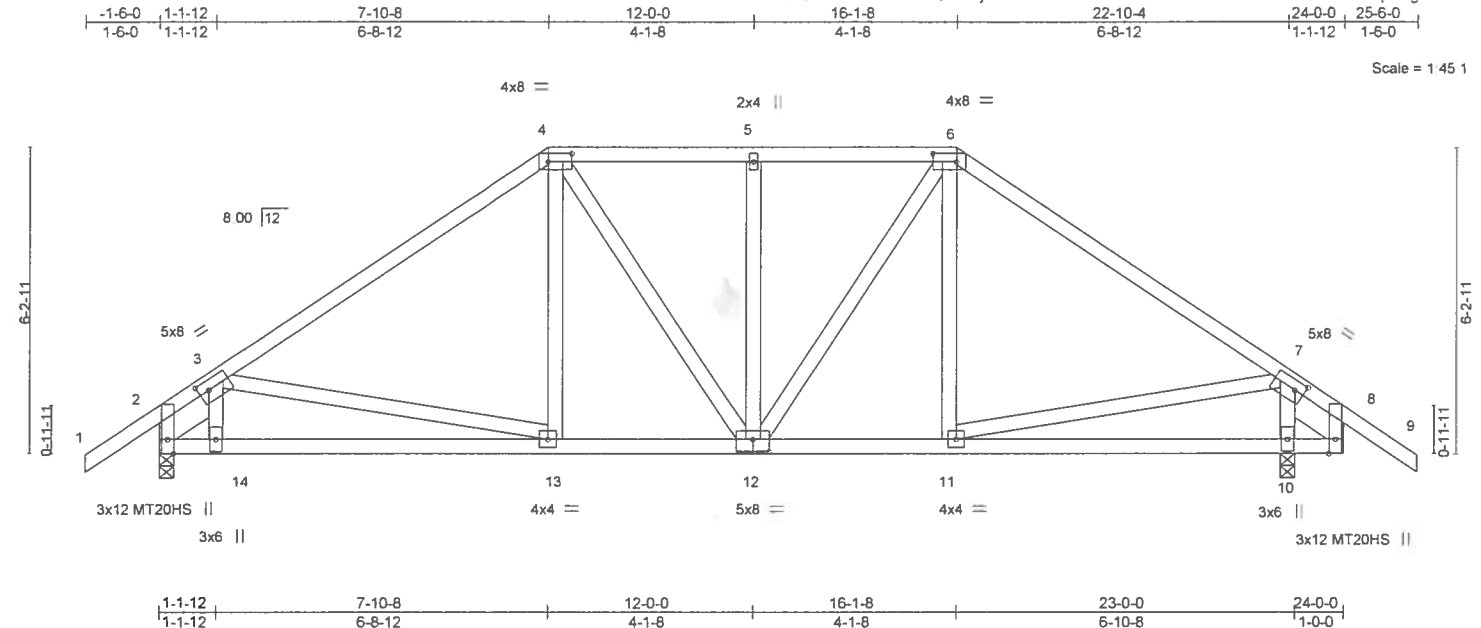


Plate Offsets (X,Y)– [3:0-2-6,0-2-4], [4:0-5-12,0-2-0], [6:0-5-12,0-2-0], [7:0-2-6,0-2-4], [12:0-4-0,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL 1.25		TC	0.54	Vert(LL)	0.12 13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.41	Vert(CT)	-0.11 13-14	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr YES		WB	0.50	Horz(CT)	0.02 10	n/a	n/a		
BCDL	10.0	Code FBC2017/TP12014		Matrix-MS						Weight: 157 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-4-10, Right 2x6 SP No.2 1-4-10

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-1 oc bracing.

REACTIONS. (lb/size) 2=921/0-3-8, 10=1017/0-3-8
Max Horz 2=156(LC 10)
Max Uplift 2=379(LC 9), 10=387(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=219/278, 3-4=1003/1147, 4-5=802/1096, 5-6=802/1096, 6-7=925/1061, 7-8=555/508
BOT CHORD 2-14=953/793, 13-14=938/792, 12-13=760/746, 11-12=683/675, 10-11=201/283
WEBS 3-14=253/269, 3-13=260/209, 4-13=345/253, 6-12=237/281, 7-11=534/566, 7-10=847/773

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C, Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=379, 10=387.



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Date:

June 10,2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296391
1767896	T04	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 41 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-Pk.JWGHxxM43xxuuxDp27Or?SBiTxS0jtbvMYz7gVy



Scale = 1/4" = 1'-0"

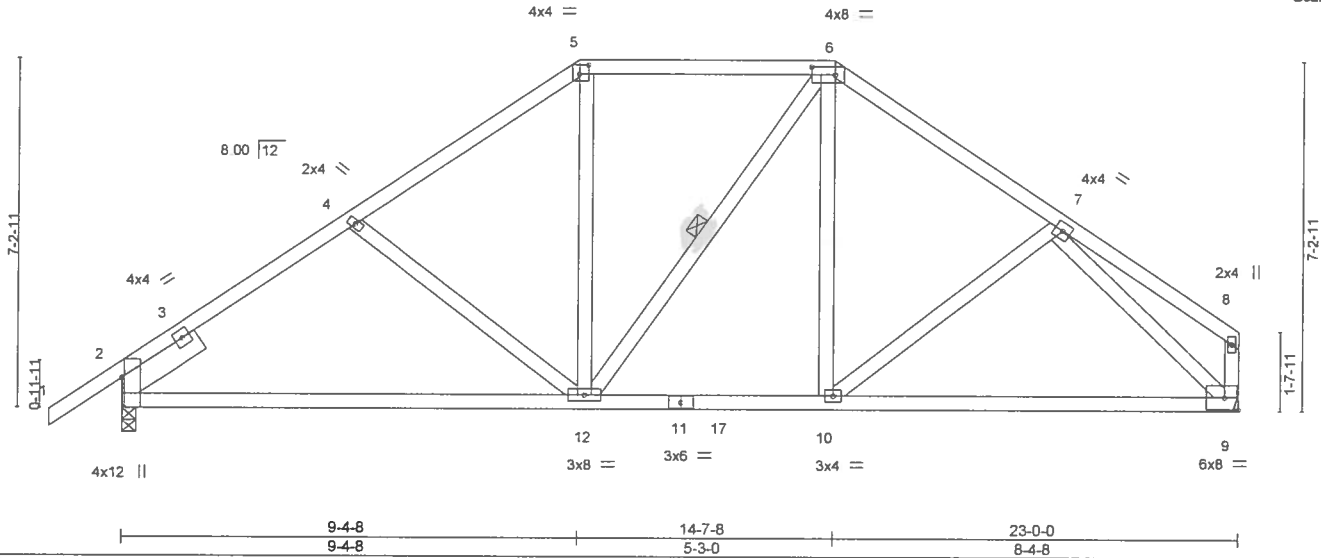


Plate Offsets (X,Y) - [2:0-7-7,Edge], [5:0-2-4,0-2-4], [6:0-5-12,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	0.28	9-10	>964	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.29	9-10	>957	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.03	9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
									Weight: 140 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing.
WEBS 1 Row at midpt 6-12

REACTIONS. (lb/size) 2=929/0-3-8, 9=843/Mechanical
Max Horz 2=172(LC 9)
Max Uplift 2=347(LC 9), 9=326(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1046/1180, 4-5=-894/1125, 5-6=-691/1002, 6-7=-870/1083
BOT CHORD 2-12=-932/813, 10-12=-713/664, 9-10=-726/665
WEBS 4-12=-269/242, 5-12=-430/279, 6-10=-358/234, 7-9=-872/862

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCp=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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=347, 9=326



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June 10, 2019

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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296392
1767896	T05	Hip	1	1		

Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 42 2019 Page 1

ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-twutdxZ7NBnZ2T8nWZMxwYb86nMgthuyXKTu_z7gVx

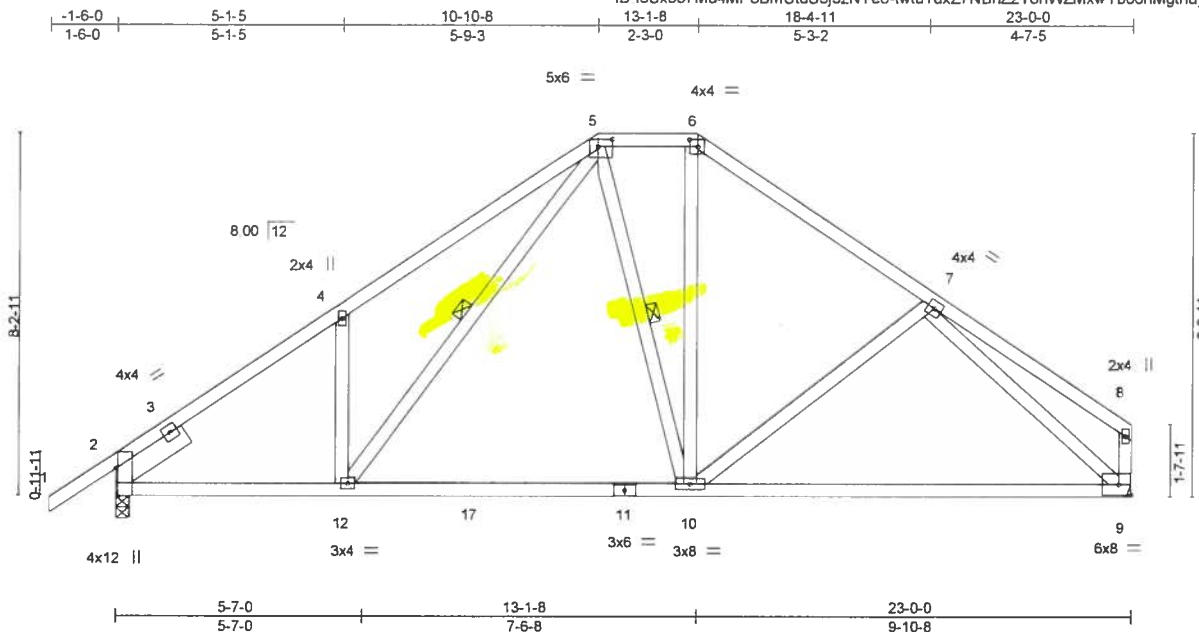


Plate Offsets (X,Y)=[2:0-7-7,Edge], [5:0-3-12,0-2-0], [6:0-2-4,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	0.45	9-10	>610	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.46	9-10	>598	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.03	9	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
				Weight: 146 lb				FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-9 oc bracing.
WEBS 1 Row at midpt 5-12, 5-10

REACTIONS. (lb/size) 2=929/0-3-8, 9=843/Mechanical
Max Horz 2=197(LC 9)
Max Uplift 2=310(LC 9), 9=286(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=1077/1279, 4-5=1093/1453, 5-6=656/946, 6-7=835/1051, 7-8=169/285
BOT CHORD 2-12=984/836, 10-12=613/615, 9-10=736/691
WEBS 4-12=360/263, 5-12=631/500, 6-10=455/275, 7-9=852/793

- 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=18ft, Cat. II, Exp C; 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
 - 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, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=310, 9=286.



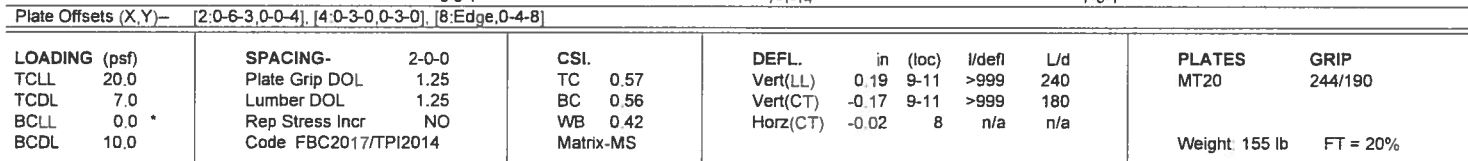
Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 10, 2019

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Tampa, FL 33610

Builders FirstSource, Jacksonville, FL - 32244, 8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 43 2019 Page 1
ID: 16Sx5o7Mu4MP8BmUldS3zNYe6-M7RGhzyBuhJeAB1KKE4b775n8VB3PN51BB40RRz7gVw
-1-6-0 6-4-0 12-0-0 17-8-0 23-0-0
1-6-0 6-4-0 5-8-0 5-8-0 5-4-0



BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-4-3 oc bracing.
WEBS	1 Row at midtop 5-11. 5-9. 6-8

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

TOP CHORD	2-4=-1409/1607, 4-5=-1300/1677, 5-6=-1254/1601
BOT CHORD	2-11=-1248/1107, 9-11=-771/774, 8-9=-1101/994
WEBS	4-11=-326/268, 5-11=-950/653, 5-9=-784/530, 6-8=-1256/1358

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=18ft, Cat. II; Exp C; Encl., GCp=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
- 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, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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) 2=370, 8=353.
- 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: 1-5=54, 5-7=54, 11-12=20, 9-11=80(F=60), 8-9=20



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

June 10, 2019

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Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information**, available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296394
1767896	T07	Hip Girder	1	1		

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 44 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-qj?fuJzqf?RVOLcWuxcq0LdzhvYI8kuBQrpZztz7gVv

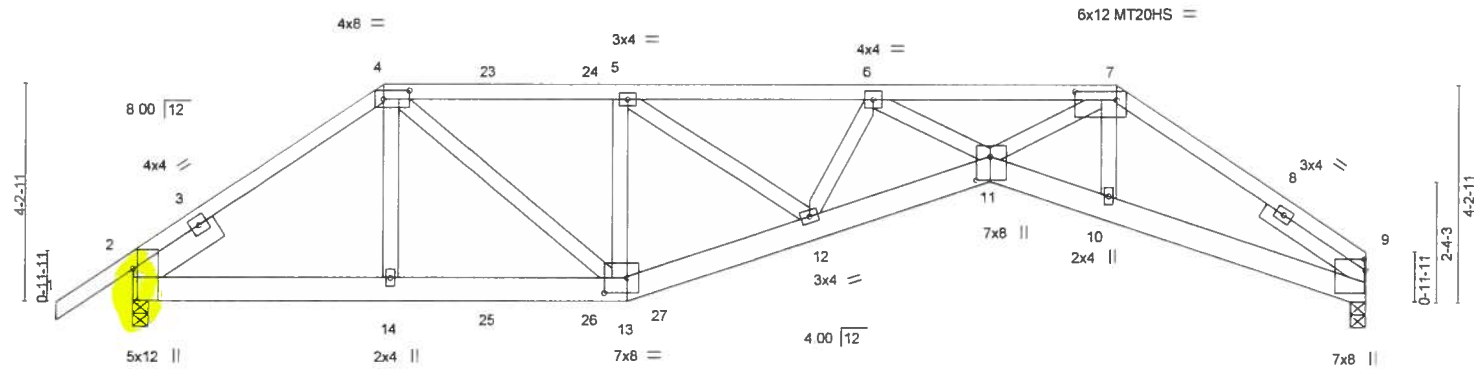
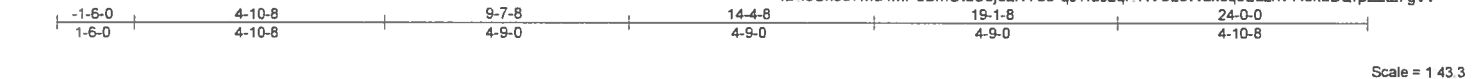


Plate Offsets (X,Y)=-	[2:0-7-7,Edge]	[4:0-6-0,0-2-0]	[7:0-9-12,0-2-0]	[9:0-2-9,0-0-4]	[11:0-5-8,0-3-4]	[13:0-5-4,0-3-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	Vert(LL) 0.24	11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.40	11-12	>712	180	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.83	Horz(CT) 0.20	9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight 147 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
7-11: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x4 SP No.3 2-5-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-1-3 oc bracing.

REACTIONS. (lb/size) 9=1465/0-3-8, 2=2087/0-3-8
Max Horz 2=98(LC 24)
Max Uplift 9=491(LC 4), 2=902(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2843/1347, 4-5=-3568/1569, 5-6=-4281/1739, 6-7=-5641/2128, 7-9=-3138/1130
BOT CHORD 2-14=-1126/2279, 13-14=-1137/2292, 12-13=-1637/3717, 11-12=-1981/4947,
10-11=-916/2672, 9-10=-887/2582
WEBS 4-14=-323/448, 4-13=-640/1678, 5-13=-866/314, 5-12=-228/921, 6-12=-981/325,
6-11=-313/1131, 7-11=-1502/3669, 7-10=-319/196

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II; Exp C, Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 7 = 16%
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=491, 2=902.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 58 lb up at 4-10-8, and 27 lb down and 54 lb up at 6-11-4, and 27 lb down and 54 lb up at 8-11-4 on top chord, and 294 lb down and 356 lb up at 4-10-8, 151 lb down and 133 lb up at 6-11-4, and 151 lb down and 133 lb up at 8-11-4, and 1030 lb down and 418 lb up at 9-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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



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June 10,2019

Continued on page 2

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296394
1767896	T07	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 45 2019 Page 2
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-IVZ16f_SQIZMQVBjSe73YYA8JuXtB8KeVZ7VJz7gVu

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 7-9=-54, 13-19=-20, 11-13=-20, 11-15=-20

Concentrated Loads (lb)

Vert: 4=-23(F) 14=-294(F) 23=-23(F) 24=-23(F) 25=-151(F) 26=-151(F) 27=-1030(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Tampa, FL 36610

Builders FirstSource, Jacksonville, FL - 32244, 6 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 45 2019 Page 1
 ID: I6Sx5o7Mu4MP8BmUldS3jzNYe6-IVZ16f_SQJZMQVBJSe73YYA7JsttF_KeVZ7VJz7gVu
 -1-6-0 6-4-8 12-1-15 17-7-8 20-9-6 24-0-0
 1-6-0 6-4-8 5-9-7 5-5-9 3-1-14 3-2-10

The diagram shows a roof truss system with the following dimensions and member labels:

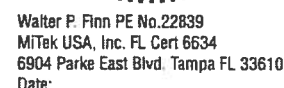
- Overall Dimensions:**
 - Span: 24'-0" (7'-4" + 7'-4" + 9'-8")
 - Height: 5'-2" (0'-11" + 4'-3")
- Member Labels:**
 - Top Chord: 4x8 = (between 4 and 5), 3x4 = (between 5 and 6), 4x4 = (between 6 and 7)
 - Bottom Chord: 4x12 || (between 1 and 2), 2x4 || (between 12 and 11), 5x6 = (between 11 and 9), 3x6 = (between 9 and 8)
 - Vertical Members: 2x4 || (between 12 and 4), 5x8 = (between 11 and 10)
 - Diagonal Members: 4x4 = (between 2 and 3), 7x4x8 = (between 7 and 8)
 - Other Members: 4x4 = (between 3 and 4), 2x4 || (between 8 and 9)
- Joint Numbers:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-9 oc purlins,
BOT CHORD	2x4 SP No.2		except end verticals.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 7-6-12 oc bracing.
SLIDER	Left 2x6 SP No.2 1-11-8		

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

TOP CHORD	2-4=1099/529, 4-5=1009/568, 5-6=1713/805, 6-7=1763/792
BOT CHORD	2-12=316/838, 11-12=316/839, 10-11=568/1402, 9-10=604/1344
WEBS	4-11=131/368, 5-11=666/343, 5-10=93/466, 6-10=300/798, 7-10=109/276, 7-9=1505/732

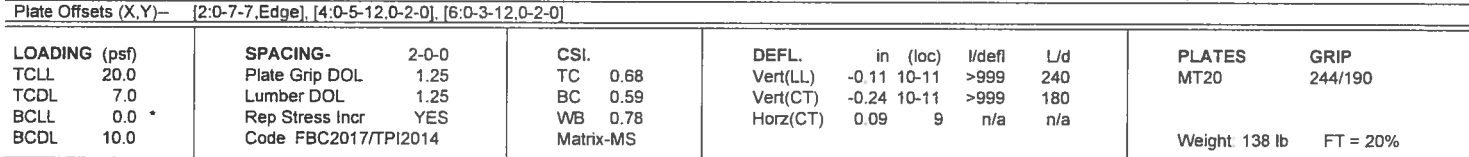
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II; Exp C, Encl., GCp=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown, Lumber 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=174, 9=145.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information**, available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Builders FirstSource, Jacksonville, FL - 32244, 8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 46 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUldS3j3zNYe6-mh7PJ7?4BciD1fmv0MeI5mjGhJcIe8U9Igl1mz7gVl



LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-8

BRACING- TOP CHORD	Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 7-5-0 oc bracing.

REACTIONS. (lb/size) 2=966/0-3-8, 9=880/0-3-8
Max Horz 2=148(LC 9)
Max Uplift 2=185(LC 12), 9=155(LC 13)

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

TOP CHORD	2-4=1077/511, 4-5=851/518, 5-6=1277/643, 6-7=1731/765, 7-8=266/130
BOT CHORD	2-12=276/805, 11-12=277/808, 10-11=383/1098, 9-10=625/1446
WEBS	4-12=37/285, 4-11=145/262, 5-11=495/207, 5-10=61/335, 6-10=274/733, 7-9=1568/719

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=18ft, Cat. II; Exp C; Encl., GCp=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, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185, 9=155.



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June 10, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE

WARNING: Vary design parameters and READ NOTES ON THIS AND INCLUDED WELDER EXPOSURE PAGE MH-1413 rev. 10/03/2015 BEFORE USE. Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 36610

Job 1767896	Truss T10	Truss Type Hip	Qty 1	Ply 1	IC CONST - YOUNG RES T17296397
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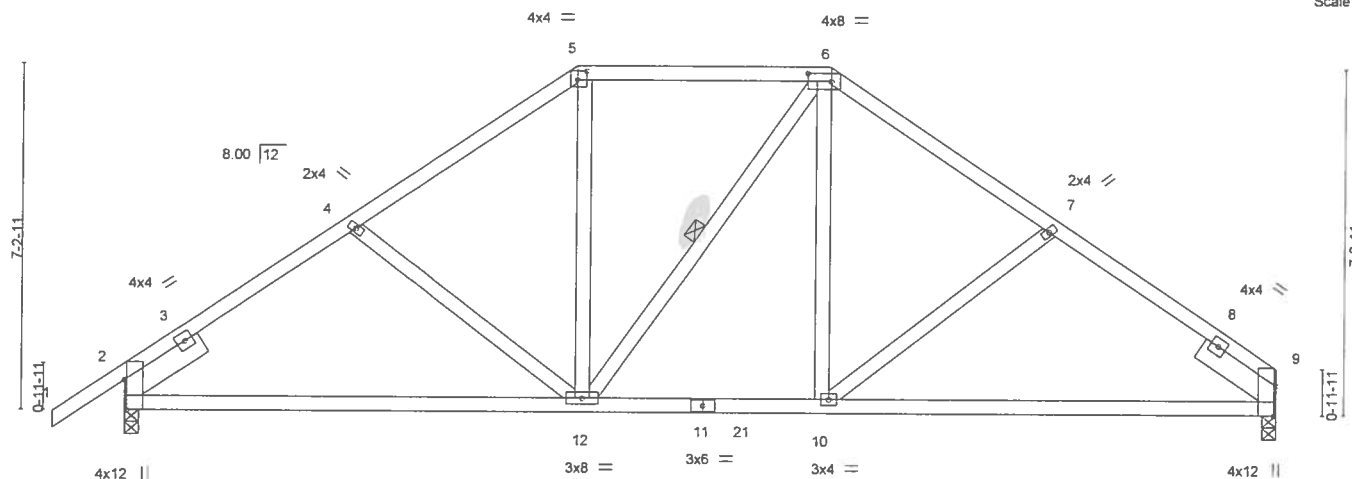
Builders FirstSource, Jacksonville, FL - 32244

8,240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 47 2019 Page 1

ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-EuhnVL?ixwq4fpL5Z39XezFVM7WtLFddp2DaCz7gVs



Scale = 1/4" = 1'-0"



										9-4-8				14-7-8				24-0-0			
										9-4-8				5-3-0				9-4-8			
Plate Offsets (X,Y)--										[2:0-7-7,Edge], [5:0-2-4,0-2-4], [6:0-5-12,0-2-0], [9:0-7-8,Edge]											
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL	20.0	Plate Grip DOL		1.25		TC	0.42	Vert(LL)		-0.14 10-15		>999		240		MT20		244/190			
TCDL	7.0	Lumber DOL		1.25		BC	0.77	Vert(CT)		-0.28 10-15		>999		180							
BCLL	0.0	Rep Stress Incr		YES		WB	0.19	Horz(CT)		0.04 9		n/a		n/a							
BCDL	10.0	Code		FBC2017/TPI2014		Matrix-MS										Weight: 139 lb		FT = 20%			

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.
WEBS 1 Row at midpt 6-12

REACTIONS.

(lb/size) 9=885/0-3-8, 2=972/0-3-8
Max Horz 2=173(LC 9)
Max Uplift 9=166(LC 13), 2=194(LC 12)

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

TOP CHORD 2-4=1112/547, 4-5=962/505, 5-6=785/485, 6-7=966/507, 7-9=1119/551
BOT CHORD 2-12=354/878, 10-12=197/751, 9-10=359/876
WEBS 4-12=267/202, 5-12=79/306, 6-10=83/315, 7-10=264/207

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II, Exp C, 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=166, 2=194.



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Date:

June 10,2019

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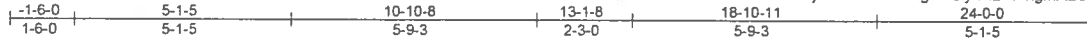
6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss T11	Truss Type Hip	Qty 1	Ply 1	IC CONST. - YOUNG RES	T17296398
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 48 2019 Page 1

ID:6Sx5o7Mu4MP8BmUtdS3j3zNYe6-i4E9kg0KiDyxHzwI7ngmABofWut4f6nKTnn6ez7gVr



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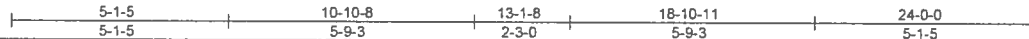
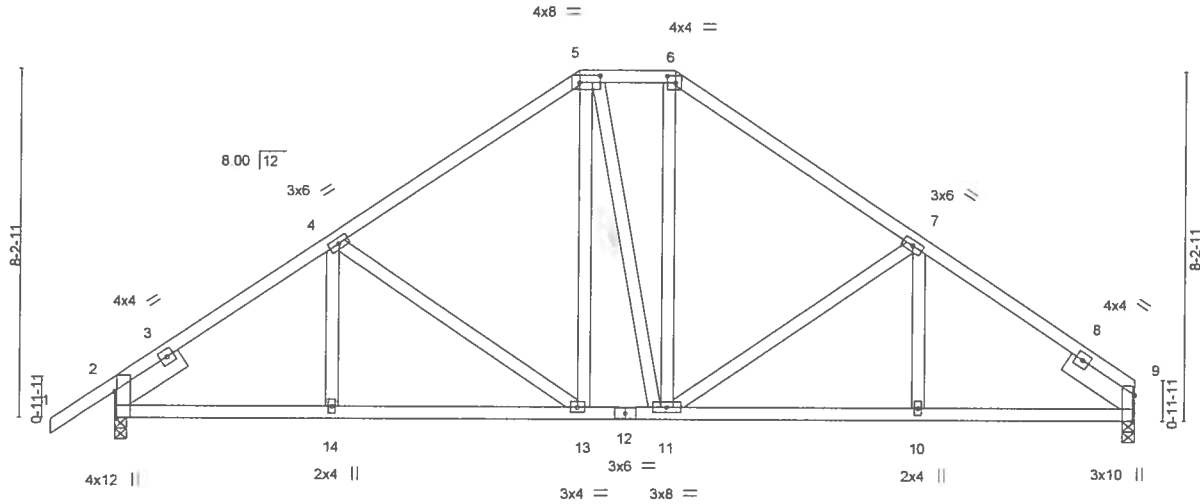


Plate Offsets (X,Y)-- [2:0-7-7,Edge], [5:0-5-12,0-2-0], [6:0-2-4,0-2-0], [9:0-7-8,Edge]

LOADING (psf)	SPACING-		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 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.14 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.05 9	n/a	n/a		
BCDL 10.0	Code	FBC2017/TP12014	Matrix-MS						
								Weight: 156 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 9=885/0-3-8, 2=972/0-3-8
Max Horz 2=198(LC 9)
Max Uplift 9=172(LC 13), 2=201(LC 12)

FORCES.

(lb) - Max Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=1137/518, 4-5=900/485, 5-6=784/477, 6-7=902/486, 7-9=1146/522
BOT CHORD 2-14=337/907, 13-14=337/907, 11-13=142/679, 10-11=342/896, 9-10=342/896
WEBS 4-13=379/238, 5-13=115/296, 6-11=118/298, 7-11=373/245

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind. ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II; Exp C; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=172, 2=201.



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MiTek USA, Inc. FL Cert 6634
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Date:

June 10, 2019

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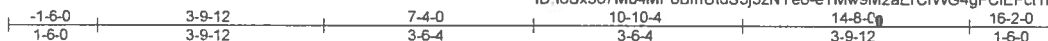
6904 Parke East Blvd
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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296400
1767896	T13	Scissor	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries Inc Mon Jun 10 13 18 50 2019 Page 1

ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-eTMw9M2aErCfVG4gFCIEFct1hKboYzZ3onGuAXz7gVp



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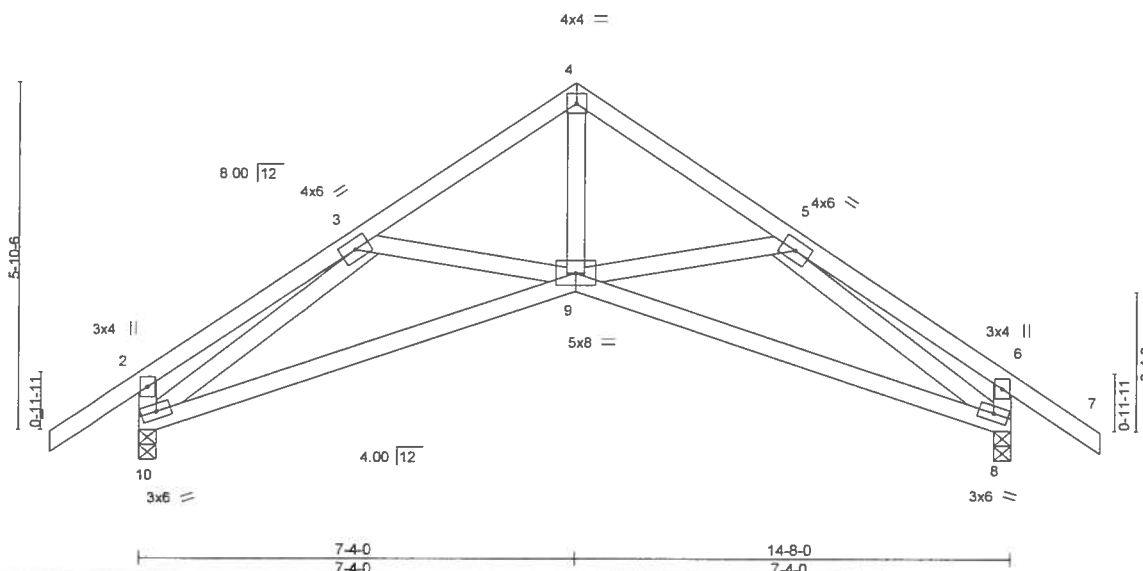


Plate Offsets (X,Y) [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.36		Vert(LL) -0.09	9-10	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.49		Vert(CT) -0.18	9-10	>936	180			
BCLL 0.0	Rep Stress Incr YES		WB 0.34		Horz(CT) 0.05	8	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS								
										Weight: 86 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

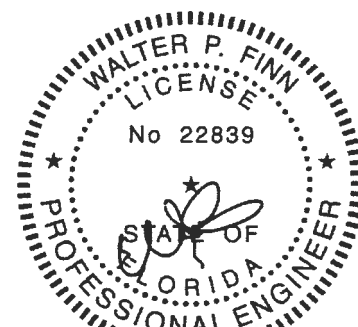
(lb/size) 10=621/0-3-8, 8=621/0-3-8
Max Horz 10=183(LC 11)
Max Uplift 10=242(LC 12), 8=242(LC 13)

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

TOP CHORD 2-3=-274/114, 3-4=-784/277, 4-5=-786/278, 5-6=-280/113, 2-10=-300/224, 6-8=-296/222
BOT CHORD 9-10=-334/840, 8-9=-220/766
WEBS 4-9=-181/673, 3-10=-757/302, 5-8=-757/289

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II; Exp C, 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
- Bearing at joint(s) 10, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=242, 8=242.



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June 10,2019

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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296401
1767896	T13G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 51 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-7fwIMi2D78KW8QfsovETopQD3k_vH3QD1R0Rjzz7gVo



Scale = 1/32" = 1'-0"

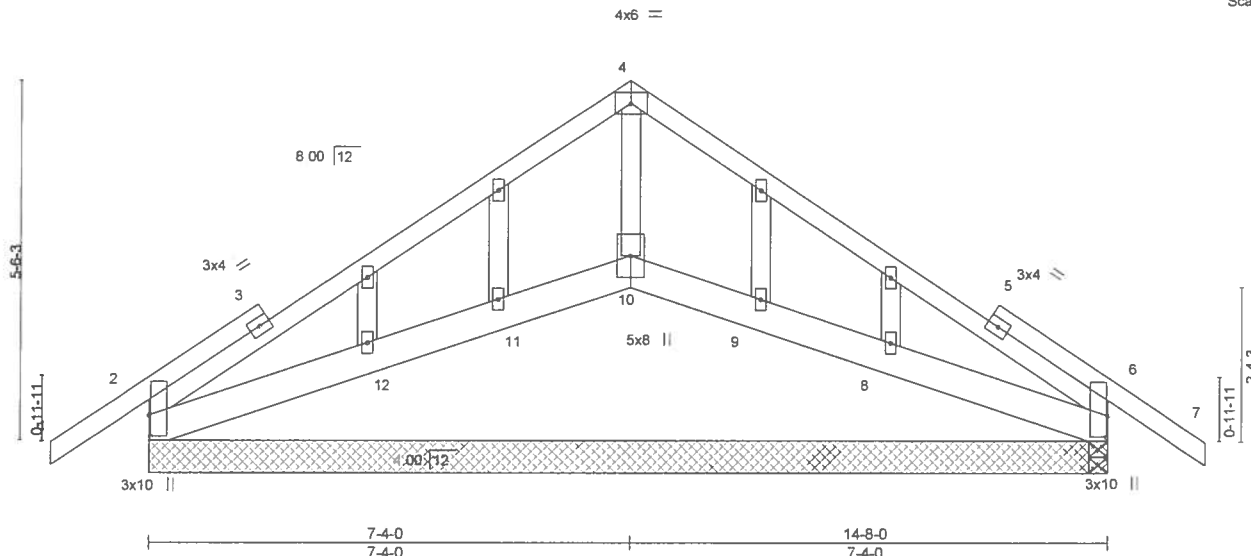


Plate Offsets (X,Y) = [2-0-3-14,0-0-4], [6-0-3-14,0-0-4]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.32	Vert(LL) -0.01	6-8	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.31	Vert(CT) -0.01	6-8	>999	180			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.14	Horz(CT) 0.01	6	n/a	n/a			
BCDL 10.0	Code FBC2017/TP12014		Matrix-S							
									Weight: 87 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.

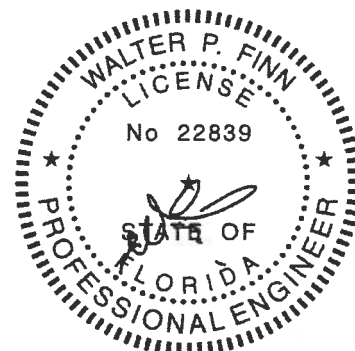
All bearings 14-8-0.
(lb) - Max Horz 2=172(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 10, 11, 9 except 2=268(LC 13), 6=285(LC 13), 12=168(LC 12), 8=164(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 10, 11, 12, 9, 8 except 2=400(LC 1), 6=400(LC 1), 6=400(LC 1)

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

TOP CHORD 2-4=738/586, 4-6=740/587
BOT CHORD 2-12=353/528, 11-12=311/469, 10-11=328/493, 9-10=329/494, 8-9=309/465, 6-8=357/538
WEBS 4-10=413/460

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II, Exp C, 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
- 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/TP1 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 11, 9 except (jt=lb) 2=268, 6=285, 12=168, 8=164.



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June 10, 2019

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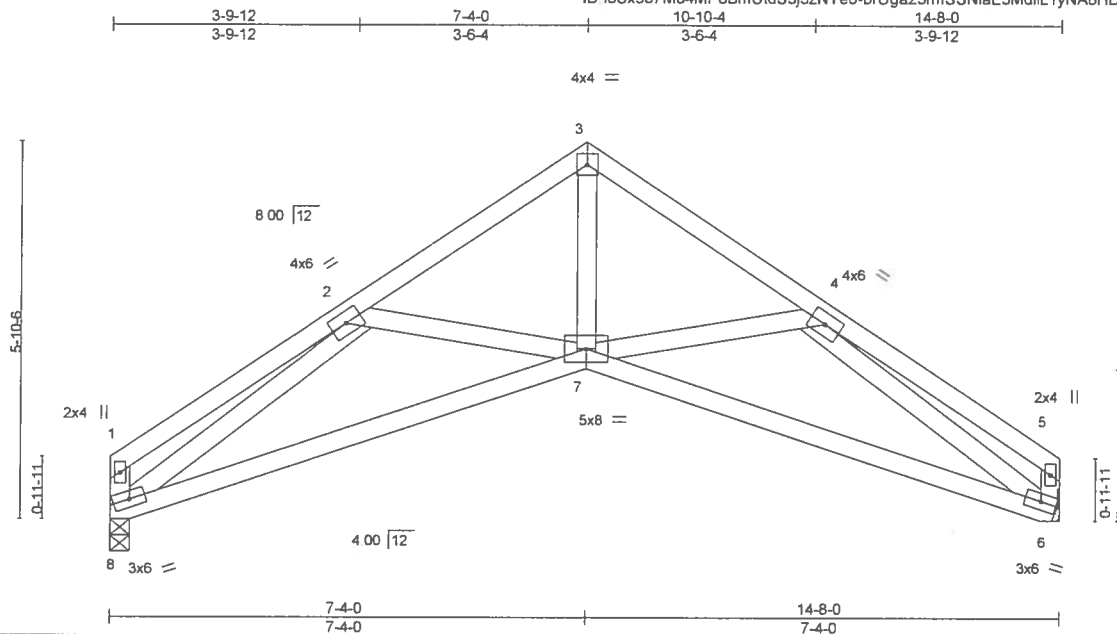


6904 Parke East Blvd.
Tampa, FL 33610

Job 1767896	Truss T14	Truss Type Scissor	Qty 3	Ply 1	IC CONST - YOUNG RES Job Reference (optional)	T17296402
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 52 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-brUga23mSSNlaE3Mdl1yNA8HD0SMMF5L_Fpz7gVn



Scale = 1.34 5

Plate Offsets (X,Y) -		[4:0-0-0,0-0-0], [5:0-0-0,0-0-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2017/TPI2014
	CSI.	
	TC	0.36
	BC	0.50
	WB	0.35
	Matrix-MS	
	DEFL.	
	in (loc)	l/defl
	Vert(LL)	-0.09 7-8 >999 240
	Vert(CT)	-0.18 7-8 >934 180
	Horz(CT)	0.05 6 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 80 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 8=532/0-3-8, 6=532/Mechanical
Max Horz 8=149(LC 8)
Max Uplift 8=186(LC 12), 6=186(LC 13)

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

TOP CHORD 2-3=809/336, 3-4=809/336
BOT CHORD 7-8=392/851, 6-7=320/770
WEBS 3-7=238/652, 2-8=771/360, 4-6=771/360

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=186, 6=186.



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Date:

June 10,2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.	T17296403
1767896	T15	Monopitch Girder	1	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 53 2019 Page 1
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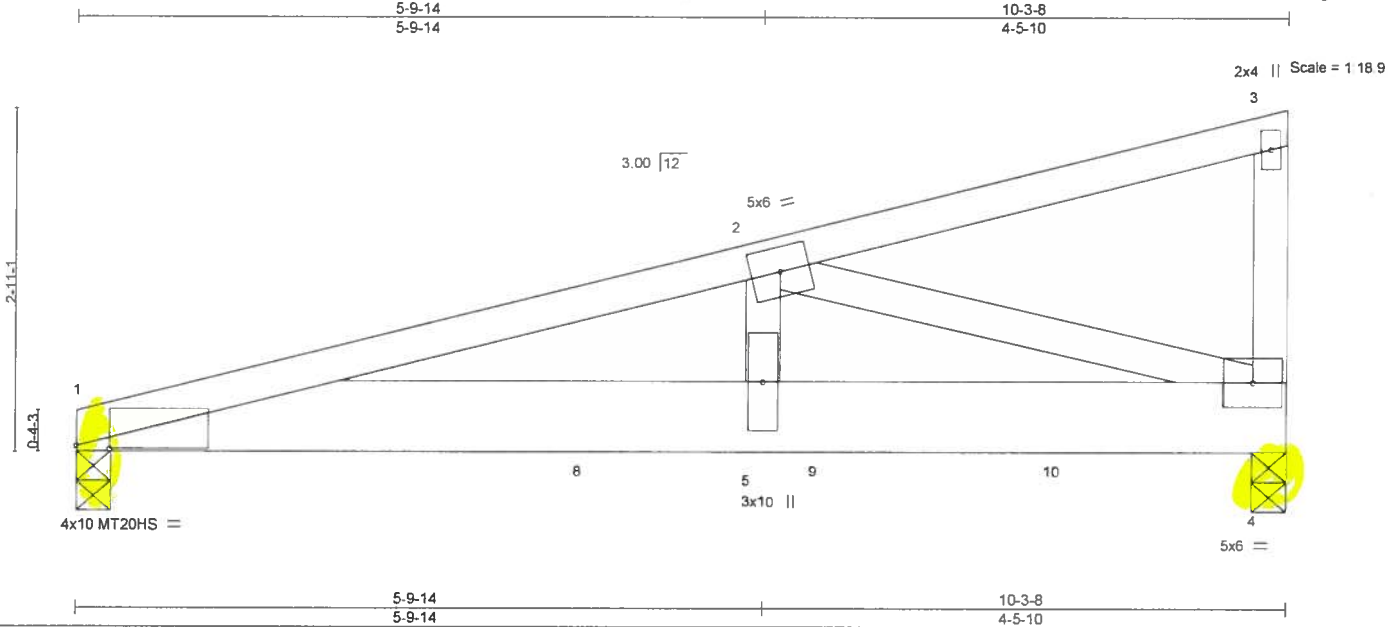


Plate Offsets (X,Y) -		[1:0-3-6,0-0-5]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.07	5-7	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.13	5-7	>919	180	MT20HS	187/143	
BCLL 0.0	Rep Stress Incr	NO	WB 0.63	Horz(CT)	0.02	4	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS								
									Weight: 116 lb	FT = 20%	

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=3031/0-3-8, 4=2507/0-3-8
Max Horz 1=86(LC 19)
Max Uplift 1=1108(LC 4), 4=909(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5358/1869
BOT CHORD 1-5=-1865/5186, 4-5=-1865/5186
WEBS 2-5=-910/2640, 2-4=-5338/1918

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II; Exp C, Encl., GCpi=0.18, MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1108, 4=909.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 830 lb down and 339 lb up at 0-1-12, 823 lb down and 306 lb up at 2-4-12, 1048 lb down and 373 lb up at 4-4-12, and 1048 lb down and 373 lb up at 6-4-12, and 1048 lb down and 373 lb up at 8-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert 1-3=-54, 1-4=-20



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June 10, 2019

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296403
1767896	T15	Monopitch Girder	1	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 53 2019 Page 2
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-3222nO4TXmaENkoFwKGxtEVY0XioIrEWUjVYnsz7gVm

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 1=-830(F) 7=-823(F) 8=-1048(F) 9=-1048(F) 10=-1048(F)

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6904 Parke East Blvd
Tampa, FL 36610

Job 1767896	Truss T16	Truss Type Hip Girder	Qty 1	Ply 2	IC CONST. - YOUNG RES. T17296404
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Builders FirstSource, Jacksonville, FL - 32244.

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 18 58 2019 Page 1

ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-Q7rxq58cMICWTVhDjts7aICLbYLQQ4AFe0CJT3z7gvh

1-6-0	4-10-12	8-1-11	11-4-11	16-3-5	21-1-3	26-4-11	31-8-2	36-6-0	37-10-4	42-0-6	46-4-0	47-10-0
1-6-0	4-10-12	3-3-0	3-3-0	4-10-11	4-9-14	5-3-8	5-3-8	4-9-14	1-4-4	4-2-2	4-3-10	1-6-0

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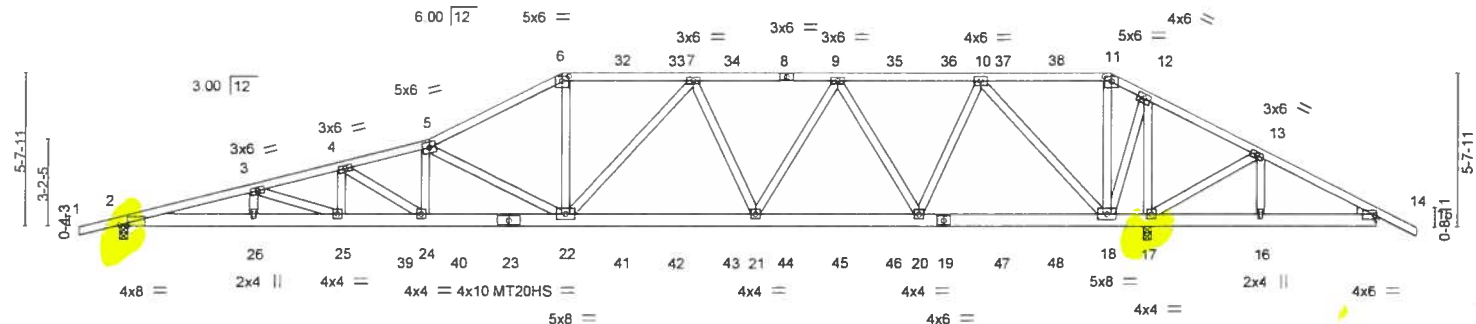


Plate Offsets (X,Y)-	[2:0-3-6,0-0-7], [6:0-3-0,0-2-0], [11:0-3-0,0-2-0]
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LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.55	Vert(LL) 0.35	22-24	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.45	Vert(CT) -0.62	22-24	>730	180	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.71	Horz(CT) 0.09	17	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight 603 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3
WEDGE
Right 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 17-18,16-17,14-16.

REACTIONS.

(lb/size) 2=2790/0-3-8, 17=3747/0-3-8
Max Horz 2=74(LC 13)
Max Uplift 2=1008(LC 4), 17=1558(LC 5)
Max Grav 2=2842(LC 19), 17=3747(LC 1)

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

TOP CHORD 2-3=10048/3585, 3-4=10173/3699, 4-5=9094/3417, 5-6=6097/2431, 6-7=5481/2235,
7-9=5084/2163, 9-10=3638/1630, 10-11=624/493, 11-12=698/542, 12-13=272/773,
13-14=147/515
BOT CHORD 2-26=3510/9729, 25-26=3510/9729, 24-25=3596/9861, 22-24=3278/8748,
21-22=2118/5314, 20-21=1826/4463, 18-20=1147/2747, 17-18=648/337,
16-17=408/169, 14-16=408/169
WEBS 3-25=347/395, 4-25=175/740, 4-24=1254/368, 5-24=310/1145, 5-22=3820/1358,
6-22=941/2407, 7-22=195/320, 7-21=638/196, 9-21=444/1306, 9-20=1715/691,
10-20=914/2315, 10-18=3331/1423, 11-18=253/259, 12-18=1170/2689,
12-17=3151/1302, 13-17=297/233

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 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.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II; Exp C; Encl.,
GCpi=0.18; MVFRS (envelope); cantilever right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb)

Cont 1008, 131558.



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Date:

June 10,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIT-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Tampa, FL 36610

Job 1767896	Truss T16	Truss Type Hip Girder	Qty 1	Ply 2	IC CONST - YOUNG RES Job Reference (optional)	T17296404
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 18 58 2019 Page 2
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-Q?rxq58cMICWTVhDjts7aICLbYLQQ4Afe0CJT3z7gVh

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 63 lb up at 16-3-5, 78 lb down and 63 lb up at 18-5-4, 78 lb down and 63 lb up at 20-5-4, 78 lb down and 63 lb up at 22-5-4, 78 lb down and 63 lb up at 24-5-4, 78 lb down and 63 lb up at 26-5-4, 78 lb down and 63 lb up at 28-5-4, 78 lb down and 63 lb up at 30-5-4, 78 lb down and 63 lb up at 32-5-4, and 78 lb down and 63 lb up at 34-5-4, and 74 lb down and 63 lb up at 36-6-0 on top chord, and 500 lb down and 151 lb up at 8-5-4, 225 lb down and 91 lb up at 10-5-4, 225 lb down and 93 lb up at 12-5-4, 225 lb down and 116 lb up at 14-5-4, 152 lb down and 93 lb up at 16-5-4, 152 lb down and 93 lb up at 18-5-4, 152 lb down and 93 lb up at 20-5-4, 152 lb down and 93 lb up at 22-5-4, 152 lb down and 93 lb up at 24-5-4, 152 lb down and 93 lb up at 26-5-4, 152 lb down and 93 lb up at 28-5-4, 152 lb down and 93 lb up at 30-5-4, 152 lb down and 93 lb up at 32-5-4, and 152 lb down and 93 lb up at 34-5-4, and 195 lb down and 168 lb up at 36-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-54, 5-6=-54, 6-11=-54, 11-15=-54, 2-29=-20

Concentrated Loads (lb)

Vert: 6=-26(B) 8=-26(B) 11=-26(B) 23=-225(B) 25=-500(B) 22=-141(B) 9=-26(B) 18=-81(B) 19=-141(B) 32=-26(B) 33=-26(B) 34=-26(B) 35=-26(B) 36=-26(B) 37=-26(B) 38=-26(B) 39=-225(B) 40=-225(B) 41=-141(B) 42=-141(B) 43=-141(B) 44=-141(B) 45=-141(B) 46=-141(B) 47=-141(B) 48=-141(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE

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Tampa, FL 36610

8 240 s May 13 2019 MiTek Industries Inc Mon Jun 10 13 18 59 2019 Page 1

Scale = 1.820

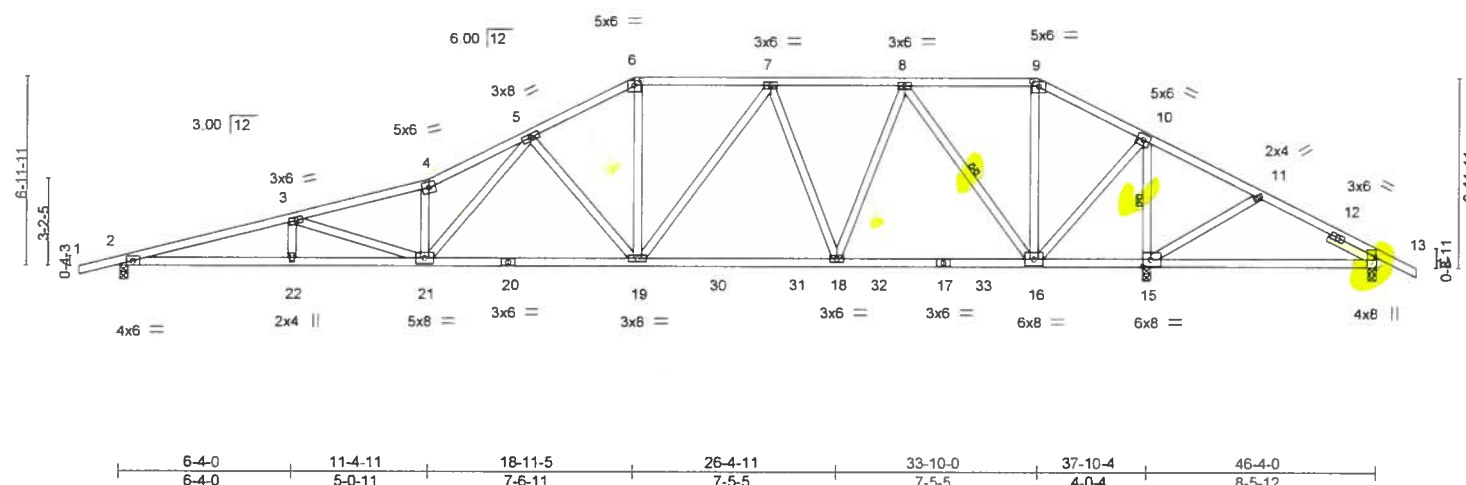


Plate Offsets (X,Y)=[6:0-3-0,0-2-0], [9:0-3-0,0-2-0], [13:0-4-12,Edge], [15:0-3-8,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.30	21	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.61	19-21	>749	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.10	15	n/a	n/a	
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight 266 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
9-14: 2x4 SP M 31

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

SLIDER Right 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 8-16, 10-15

REACTIONS.

(lb/size) 2=1264/0-3-8, 15=2904/0-3-8, 13=577/0-3-8
Max Horz 2=91(LC 11)
Max Uplift 2=299(LC 8), 15=573(LC 8), 13=789(LC 23)
Max Grav 2=1264(LC 1), 15=2904(LC 1), 13=166(LC 12)

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

TOP CHORD 2-3=3833/2018, 3-4=3145/1662, 4-5=3462/1921, 5-6=1575/935, 6-7=1372/881,
7-8=842/593, 8-9=48/336, 9-10=82/396, 10-11=808/1775, 11-13=585/1703

BOT CHORD 2-22=1860/3687, 21-22=1860/3687, 19-21=900/1966, 18-19=371/1072,
16-18=112/573, 15-16=1739/963, 13-15=1435/592

WEBS 3-21=707/443, 4-21=982/626, 5-21=940/1735, 5-19=948/629, 6-19=248/479,
7-19=235/518, 7-18=746/434, 8-18=393/910, 8-16=1403/720, 9-16=383/186,
10-16=903/2142, 10-15=2487/1191, 11-15=485/444

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=18ft, Cat. II; Exp C; Encl., Gcpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone, porch right exposed; 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, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
2=299, 15=573, 13=789.



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Date:

June 10.2019



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 BEFORE USE

WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-74.3 rev. 10/03/2015 BEFORE USE
 Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss T18	Truss Type Hip	Qty 1	Ply 1	IC CONST. - YOUNG RES	T17296406
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 19 01 2019 Page 1

ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-qaX4T7AUeDa5KyQnO?PqCwqn1mGmdNqhK_Rz3Oz7gVe

1-6-0 6-4-0 11-4-11 16-1-5 21-7-5 26-4-11 31-2-0 37-10-4 41-11-7 46-4-0 47-10-0
1-6-0 6-4-0 5-0-11 4-8-10 5-6-0 4-9-5 4-9-5 6-8-4 4-1-3 4-4-9 1-6-0

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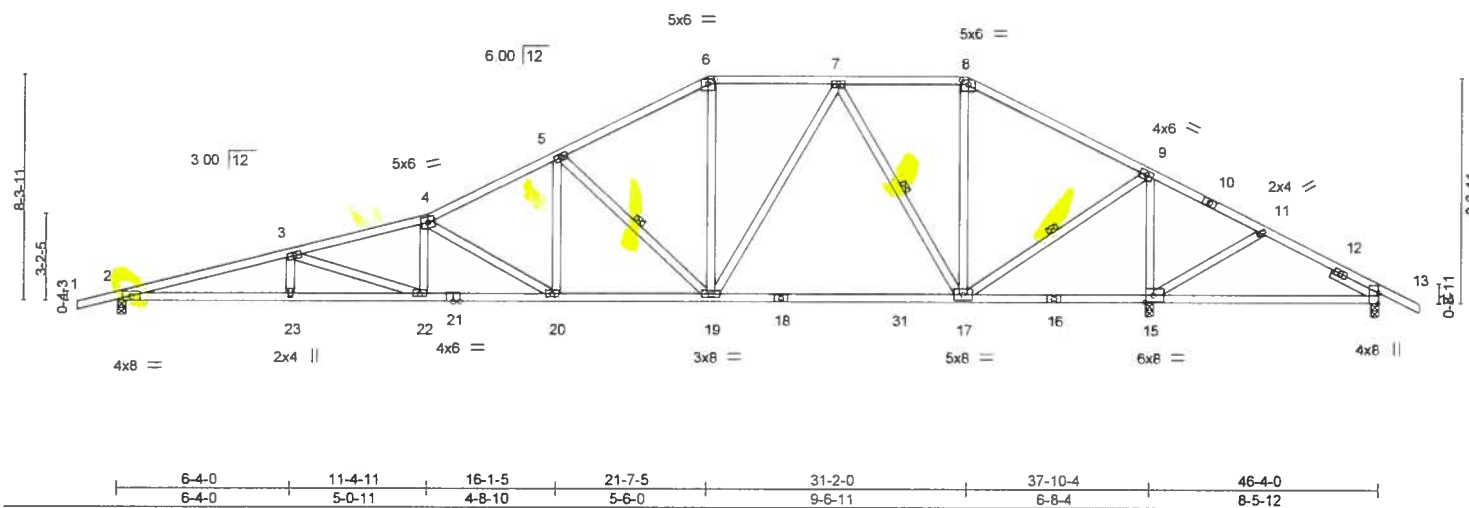


Plate Offsets (X,Y)–		[6-0-3-0,0-2-0], [8-0-3-0,0-2-0], [13-0-4-12,Edge], [15-0-3-8,0-3-0]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	-0.34	17-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.62	17-19	>729	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.09	15	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight	265 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-21: 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-7 oc bracing.
WEBS 1 Row at midpt 5-19, 7-17, 9-17

REACTIONS.

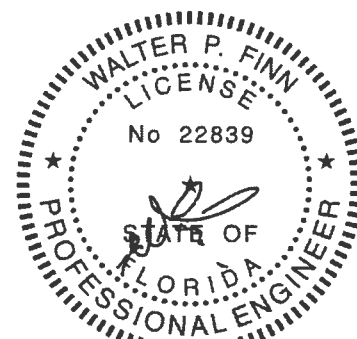
(lb/size) 2=1318/0-3-8, 15=2610/0-3-8, 13=337/0-3-8
Max Horz 2=109(LC 11)
Max Uplift 2=305(LC 12), 15=456(LC 12), 13=545(LC 23)
Max Grav 2=1318(LC 1), 15=2610(LC 1), 13=130(LC 12)

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

TOP CHORD 2-3=4045/2154, 3-4=3355/1814, 4-5=2265/1281, 5-6=1394/874, 6-7=1186/842,
7-8=416/424, 8-9=541/395, 9-11=536/1478, 11-13=498/1253
BOT CHORD 2-23=1993/3891, 22-23=1993/3891, 20-22=1605/3203, 19-20=914/1986,
17-19=246/850, 15-17=1276/703, 13-15=1052/398
WEBS 3-22=711/425, 4-22=109/368, 4-20=1428/816, 5-20=398/832, 5-19=1100/713,
6-19=180/382, 7-19=306/688, 7-17=1018/531, 9-17=792/1981, 9-15=2243/1121,
11-15=376/365

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=18ft, Cat. II, Exp C, Encl.,
GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch right exposed; 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) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
2=305, 15=456, 13=545.



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Date:

June 10,2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES	T17296407
1767896	T19	Hip	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 19 02 2019 Page 1

ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-im5SgTB6PXjyy6_yjw3IBN2n9jpMtlqZeBWcqz7gVd

1-6-0	6-4-0	10-3-8	11-4-11	15-2-0	19-11-13	24-3-5	28-6-0	34-6-4	40-6-8	46-4-0	47-10-0
1-6-0	6-4-0	3-11-8	1-1-3	3-9-5	4-9-13	4-3-9	4-2-11	6-0-4	6-0-4	5-9-8	4-6-0

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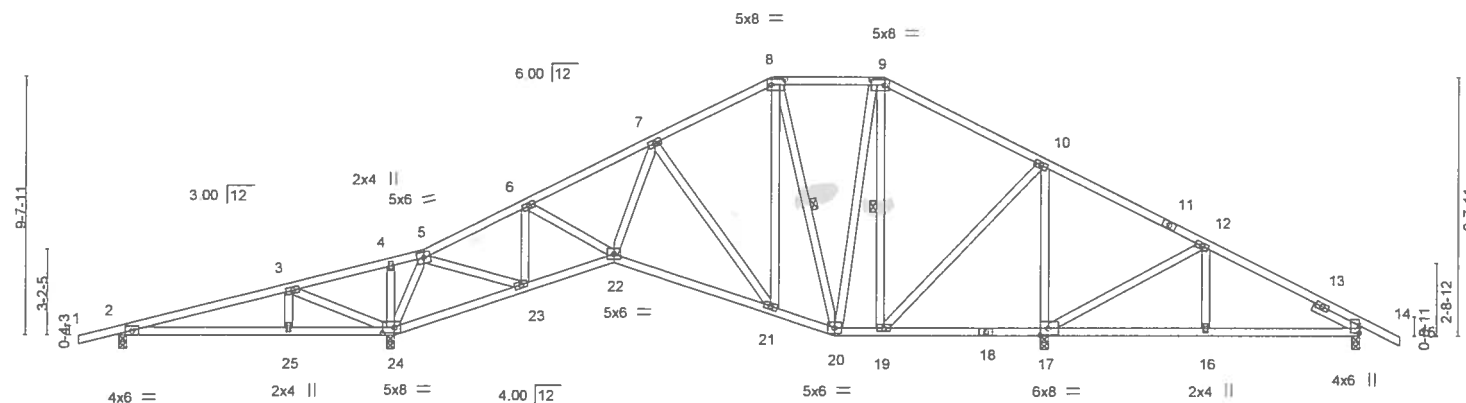


Plate Offsets (X,Y)=	[8:0-6-0,0-2-8], [9:0-6-0,0-2-8], [14:0-3-4,0-0-2], [17:0-3-8,0-3-0], [24:0-5-4,0-2-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Ver(LL)	0.09 25-28	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.35	Ver(CT)	-0.12 21-22	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.80	Horz(CT)	0.04 17	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 291 lb	FT = 20%

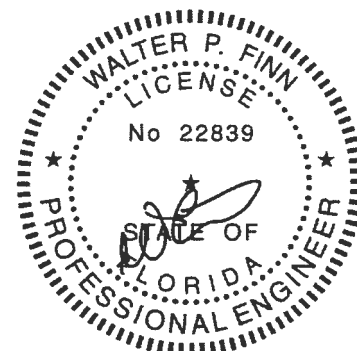
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-20, 9-19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=127(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 2=265(LC 8), 24=376(LC 12), 17=258(LC 8), 14=211(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=255(LC 23), 24=1532(LC 1), 17=1393(LC 1), 14=449(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=76/402, 3-4=496/876, 4-5=471/871, 5-6=592/234, 6-7=942/426, 7-8=539/438, 8-9=333/417, 9-10=410/371, 10-12=18/251, 12-14=294/498
BOT CHORD 2-25=293/54, 24-25=293/54, 23-24=542/487, 22-23=108/607, 21-22=105/745, 20-21=0/476, 19-20=0/300, 17-19=156/270, 16-17=324/313, 14-16=324/313
WEBS 3-24=749/880, 5-24=958/488, 6-23=578/323, 6-22=55/346, 7-22=38/372, 7-21=473/234, 8-21=112/419, 8-20=440/83, 9-20=136/271, 9-19=349/186, 10-19=171/644, 10-17=1038/568, 12-17=475/643, 5-23=460/1051

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf, h=18ft, Cat. II, Exp C; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 2, 376 lb uplift at joint 24, 258 lb uplift at joint 17 and 211 lb uplift at joint 14.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 10,2019

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MiTek

6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - YOUNG RES	T17296408
1767896	T20	Roof Special	3	1		

Builders FirstSource, Jacksonville, FL - 32244

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 19 03 2019 Page 1

ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-mzeqtpCkAqpaGZAVQRIHLwDmZ_B5Qg_nlw48Gz7gVc

1-6-0, 6-4-0, 10-3-8, 11-4-11, 15-2-0, 20-10-12, 26-4-11, 30-7-0, 34-6-4, 40-8-8, 46-4-0, 47-10-0, 1-6-0, 6-4-0, 3-11-8, 1-1-3, 3-9-5, 5-8-12, 5-5-15, 4-2-6, 3-11-4, 6-0-4, 5-9-8, 4-6-0

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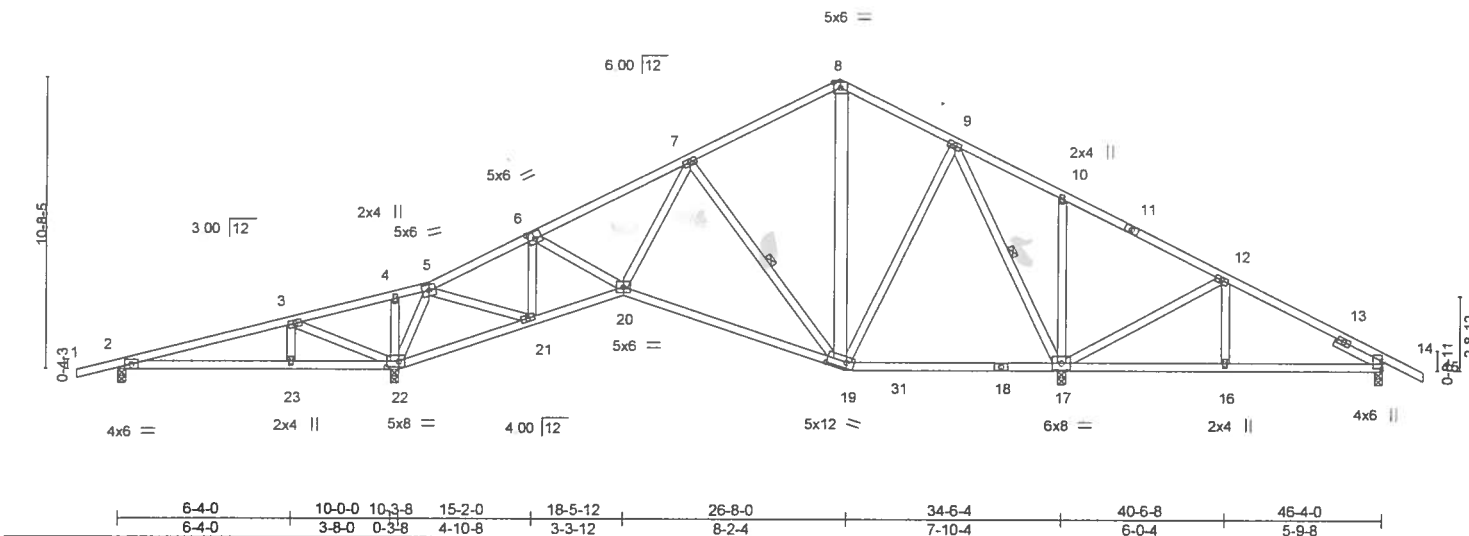


Plate Offsets (X,Y)=[6:0-3-0,0-3-0], [14:0-3-4,0-0-2], [19:0-8-8,0-2-8], [22:0-5-4,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC 0.46		Vert(LL) -0.18 17-19 >999 240		MT20 244/190	
TCDL	7.0	Lumber DOL 1.25		BC 0.66		Vert(CT) -0.35 19-20 >820 180			
BCLL	0.0 *	Rep Stress Incr YES		WB 0.44		Horz(CT) 0.04 17 n/a n/a			
BCDL	10.0	Code FBC2017/TP12014		Matrix-MS				Weight: 279 lb FT = 20%	

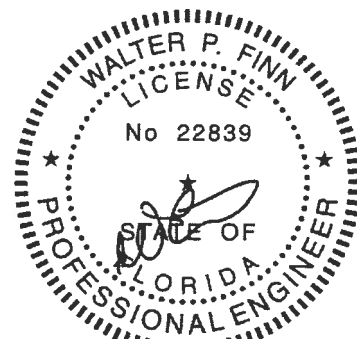
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
8-19: 2x6 SP No.2
SLIDER Right 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-19, 9-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=141(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 2=272(LC 8), 22=372(LC 12), 17=287(LC 13), 14=200(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=272(LC 23), 22=1490(LC 1), 17=1464(LC 1), 14=418(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=78/400, 3-4=470/817, 4-5=444/811, 5-6=602/228, 6-7=926/393, 7-8=399/391, 8-9=376/403, 9-10=2/311, 10-12=91/341, 12-14=236/412
BOT CHORD 2-23=278/59, 22-23=278/59, 21-22=495/470, 20-21=125/668, 19-20=102/729, 16-17=250/264, 14-16=250/264
WEBS 3-22=746/879, 5-22=925/462, 5-21=439/1012, 6-21=569/307, 6-20=8/307, 7-20=42/438, 7-19=531/302, 9-19=41/382, 9-17=882/389, 10-17=281/303, 12-17=492/677, 12-16=257/224

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=18ft, Cat. II; Exp C, 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
3) All plates are 3x6 MT20 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, with BCDL = 10.0psf.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 2, 372 lb uplift at joint 22, 287 lb uplift at joint 17 and 200 lb uplift at joint 14.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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Date:

June 10, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIT-7473 rev. 10/03/2015 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312 Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss T21	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	IC CONST. - YOUNG RES T17296409
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 19 05 2019 Page 1

ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-iLmbiUD?iS5XpajZdrUmMm?WRNICZCSHFcPAC9z7gVa

1-6-0	6-4-0	10-3-8	11-4-11	15-2-0	19-8-11	23-2-0	26-8-0	33-0-12	36-6-0	41-11-7	46-4-0	47-10-0
1-6-0	6-4-0	3-11-8	1-1-3	3-9-5	4-6-11	3-5-5	3-6-0	6-4-12	3-5-4	5-5-7	4-4-9	1-6-0

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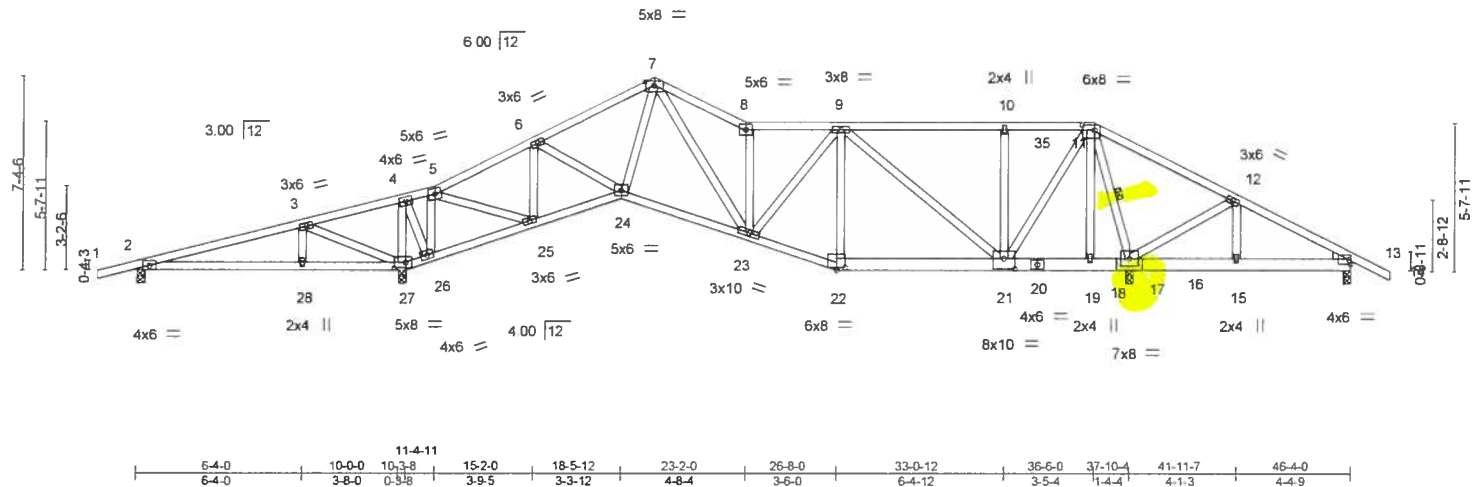


Plate Offsets (X, Y) - [11:0-5-8,0-2-4], [21:0-5-0,0-4-12], [22:0-4-0,0-1-5], [27:0-5-4,0-2-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) -0.09	23	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.17	23-24	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.93	Horz(CT) 0.05	17	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight: 291 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
20-22,13-20: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-11 oc bracing.
WEBS 1 Row at midpt 11-17

REACTIONS.

All bearings 0-3-8 except (jt=length) 17=0-3-13 (input: 0-3-8 + bearing block).
(lb) - Max Horz 2=96(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except 2=297(LC 30), 27=480(LC 5),
17=1089(LC 9), 13=250(LC 32)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=253(LC 26), 27=1904(LC 1), 17=3252(LC 1)

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

TOP CHORD 2-3=130/656, 3-4=340/1235, 4-5=258/820, 5-6=751/202, 6-7=1363/338,
7-8=1769/586, 8-9=1530/481, 9-10=1081/461, 10-11=1081/461, 11-12=250/1145,
12-13=193/752
BOT CHORD 2-28=562/204, 27-28=562/204, 26-27=1322/336, 25-26=782/289, 24-25=1177/13,
23-24=160/1146, 22-23=340/1395, 21-22=324/1325, 19-21=308/251, 17-19=305/246,
15-17=611/214, 13-15=611/214
WEBS 3-27=766/444, 4-27=1159/280, 4-26=221/1045, 5-26=1078/260, 5-25=295/1444,
6-25=842/210, 6-24=107/620, 7-24=37/384, 7-23=426/1002, 8-23=907/325,
9-23=78/380, 9-22=360/133, 9-21=648/403, 10-21=293/160, 11-21=718/2451,
11-17=2809/960, 12-17=423/212

NOTES-

- 1) 2x6 SP No.2 bearing block 12" long at jt. 17 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18, MWFRS (envelope); porch left and right exposed, Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 2, 480 lb uplift at joint 27, 1089 lb uplift at joint 17 and 250 lb uplift at joint 13.



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June 10,2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-1473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES	T17296409
1767896	T21	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244

8.240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 19 06 2019 Page 2
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-BYKzWqEdTIDNRkIBZ??v_YhAn5RliQTG9kIbZ7gVZ

NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 63 lb up at 34-5-4, and 78 lb down and 63 lb up at 36-6-0 on top chord, and 1307 lb down and 424 lb up at 33-0-12, and 152 lb down and 93 lb up at 34-5-4, and 195 lb down and 168 lb up at 36-5-4 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

Uniform Loads (plf)

Vert: 1-5=54, 5-7=54, 7-8=54, 8-11=54, 11-14=54, 27-29=20, 24-27=20, 22-24=20, 22-32=20

Concentrated Loads (lb)

Vert: 11=26(F) 20=141(F) 21=1307(F) 19=81(F) 35=26(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 19 07 2019 Page 1

Scale = 1.834

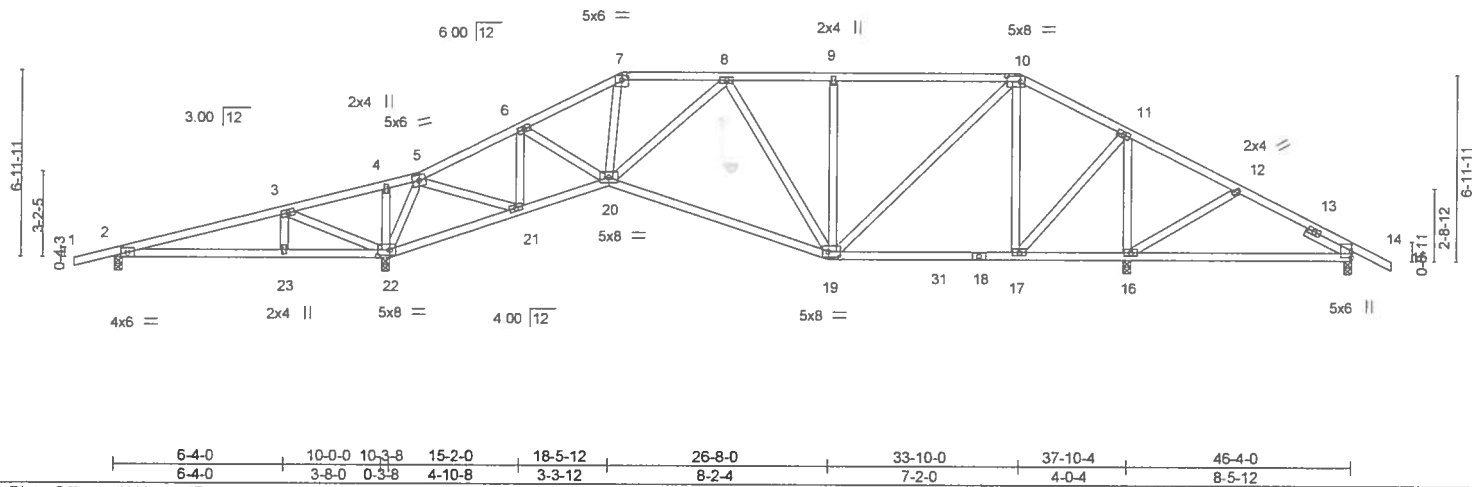


Plate Offsets (X,Y)=[7,0-3-0,0-2-0],[10,0-6-0,0-2-8],[19,0-5-4,0-2-8],[22,0-5-4,0-2-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl	L/d
TCLL 20.0		Plate Grip DOL 1.25		TC 0.50		Vert(LL) 0.15 16-29		>699		240	
TCDL 7.0		Lumber DOL 1.25		BC 0.73		Vert(CT) -0.38 19-20		>870		180	
BCLL 0.0 *		Rep Stress Incr YES		WB 0.49		Horz(CT) 0.04 16		n/a		n/a	
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MS							
										Weight 262 lb	FT = 20%
										MT20	244/190

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No 3
SLIDER Right 2x4 SP No 3 1-11-8

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 5-3-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=91(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=231(LC 8), 22=456(LC 9), 16=292(LC 8), 14=172(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 2 except 22=1688(LC 1), 16=1404(LC 1), 14=292(LC 24)

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

TOP CHORD 2-3=26/395, 3-4=555/967, 4-5=531/962, 5-6=732/301, 6-7=121/551, 7-8=999/521, 8-9=804/602, 9-10=812/608, 10-11=458/409, 11-12=26/289, 12-14=588/619

BOT CHORD 2-23=328/51, 22-23=328/51, 21-22=579/518, 20-21=73/666, 19-20=272/1012, 17-19=47/381

WEBS 3-22=751/883, 5-22=1111/572, 5-21=550/1217, 6-21=697/375, 6-20=128/491, 7-20=89/353, 8-19=265/51, 9-19=360/271, 10-19=274/639, 10-17=531/233, 11-17=186/845, 11-16=1119/442, 12-16=290/336

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 2, 456 lb uplift at joint 22, 292 lb uplift at joint 16 and 172 lb uplift at joint 14.



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June 10, 2019

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Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job 1767896	Truss T23	Truss Type Hip	Qty 1	Ply 1	IC CONST. - YOUNG RES	T17296411
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Builders FirstSource, Jacksonville, FL - 32244,

8,240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 19 08 2019 Page 1

ID I6Sx5o7Mu4MP8BmUtdS3zNYe6-7wSjxWgt?NT5g1S8l_1T_Pd4yalHmgCjxarpUz7gVX

1-6-0	6-4-0	10-3-8	11-4-11	15-2-0	21-7-5	26-8-0	31-2-0	37-10-4	41-11-7	46-4-0	47-10-0
1-6-0	6-4-0	3-11-8	1-1-3	3-9-5	6-5-5	5-0-11	4-6-0	6-8-4	4-1-3	4-4-9	1-6-0

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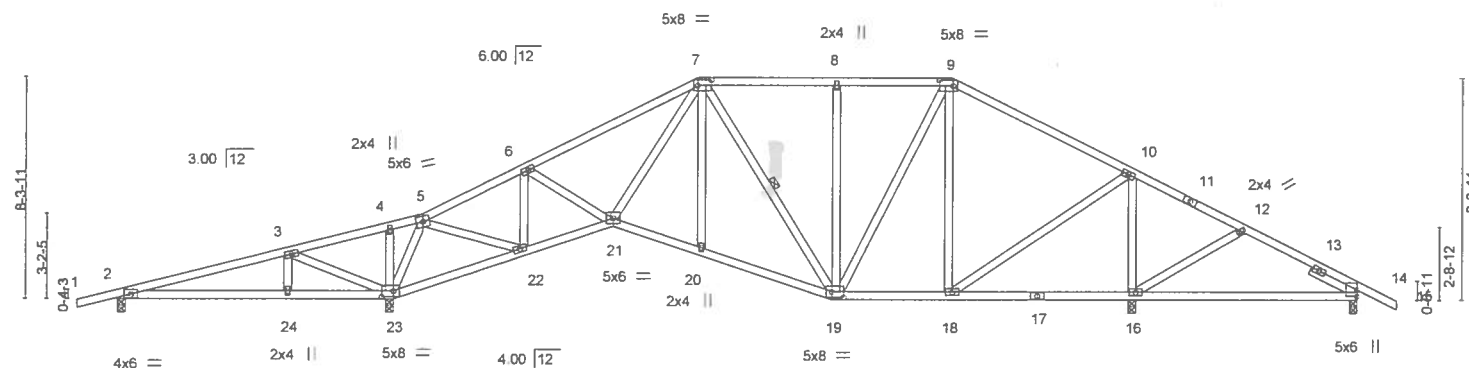


Plate Offsets (X,Y) -	[7:0-6-0,0-2-8], [9:0-6-0,0-2-8], [19:0-5-4,0-2-8], [23:0-5-4,0-2-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.50	Vert(LL)	0.16 16-30	>633	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.48	Vert(CT)	-0.16 16-30	>645	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT)	0.04 16	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight: 276 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=109(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 2=247(LC 8), 23=423(LC 9), 16=245(LC 13), 14=192(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2 except 23=1698(LC 1), 16=1355(LC 1), 14=338(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=56/421, 3-4=551/963, 4-5=522/953, 5-6=770/355, 6-7=1215/599, 7-8=676/587, 8-9=681/590, 9-10=671/503, 12-14=539/664
BOT CHORD 2-24=325/57, 23-24=325/57, 22-23=578/516, 21-22=124/716, 20-21=149/863, 19-20=147/879, 18-19=75/515
WEBS 3-23=751/880, 5-23=1104/566, 6-21=57/394, 7-21=68/410, 7-19=302/53, 8-19=283/187, 9-19=144/392, 9-18=313/140, 10-18=117/748, 10-16=1070/479, 12-16=231/287, 6-22=712/424, 5-22=615/1275

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=18ft; Cat. II; Exp C; 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are 3x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 2, 423 lb uplift at joint 23, 245 lb uplift at joint 16 and 192 lb uplift at joint 14.



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June 10,2019

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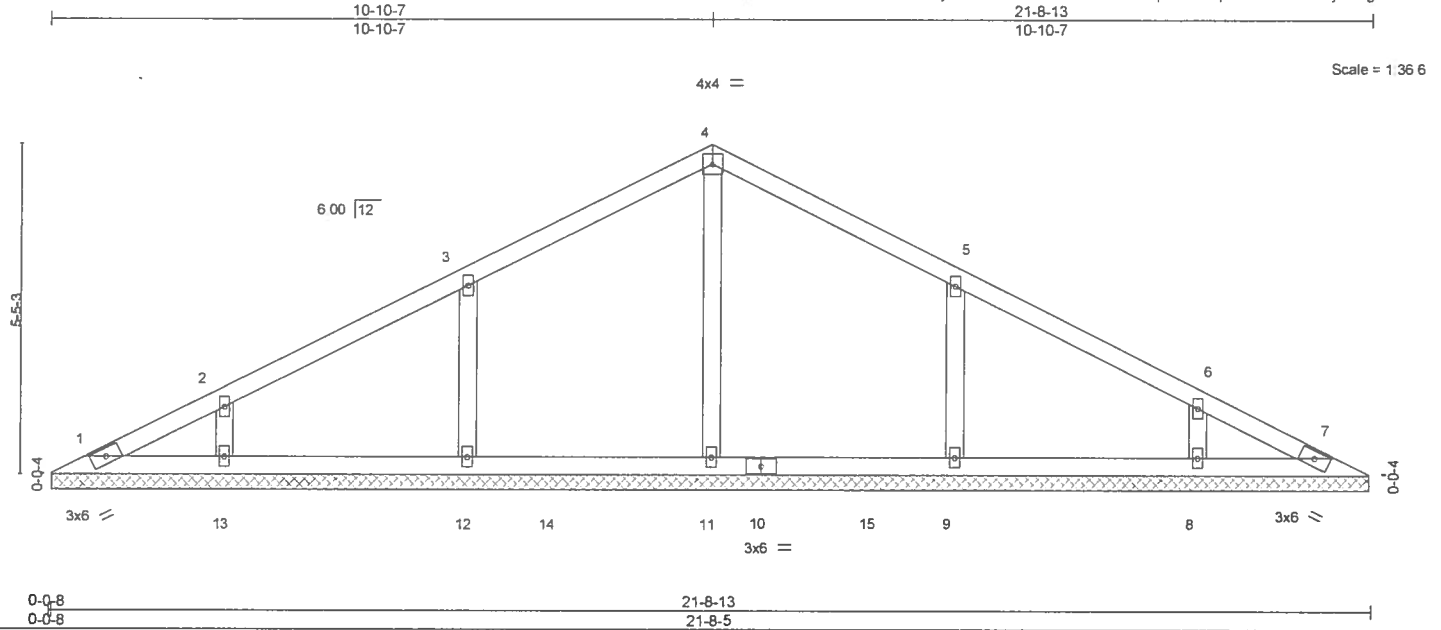
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Tampa, FL 36610

Job 1767896	Truss V01	Truss Type Valley	Qty 1	Ply 1	IC CONST - YOUNG RES Job Reference (optional)	T17296415
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Builders FirstSource, Jacksonville, FL - 32244

8.240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 19 12 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-7ihEmuJO3bzX9fivXp6P8Fnq2BB7iZNJsCc2yFz7gVT



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 0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.16	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	7	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight 85 lb FT = 20%

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

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

REACTIONS. All bearings 21-7-13.
(lb) - Max Horz 1=69(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=125(LC 12), 9=125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=348(LC 19), 12=323(LC 23), 13=255(LC 1), 9=323(LC 24), 8=255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
WEBS 3-12=241/256, 5-9=241/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except (jt=lb) 12=125, 9=125.



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

June 10,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

MiTek

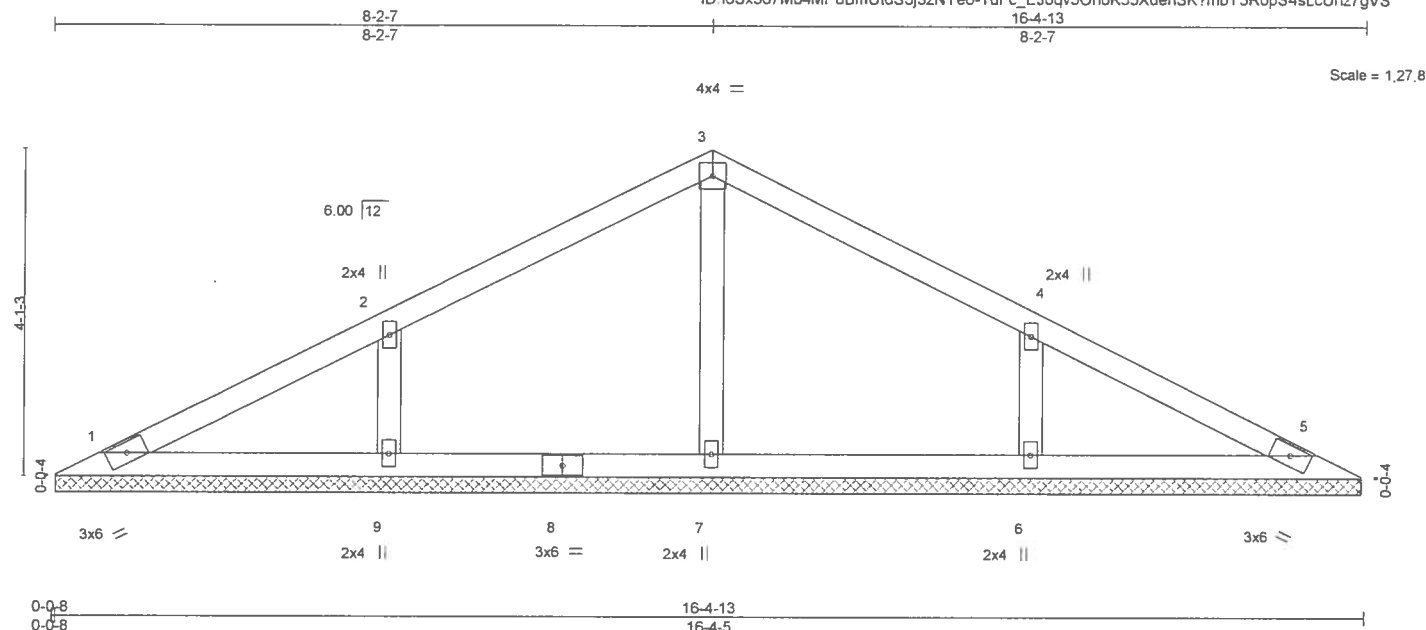
6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss V02	Truss Type Valley	Qty 1	Ply 1	IC CONST - YOUNG RES T17296416
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 19 13 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUldS3j3zNYe6-TuFc_EJ0qv5OonoK55XdehSK?mbY5R0pS4sLcUhZ7gVS

Job Reference (optional)



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.17	in (loc)	l/defl	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.12						
BCLL	0.0	Rep Stress Incr	YES	WB	0.08						
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							
								Weight: 59 lb		FT = 20%	

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

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

REACTIONS. All bearings 16-3-13.
(lb) - Max Horz 1=51(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 9=129(LC 12), 6=128(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=332(LC 23), 6=332(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=243/261, 4-6=243/261

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II; Exp C; 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 9=129, 6=128.



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June 10, 2019

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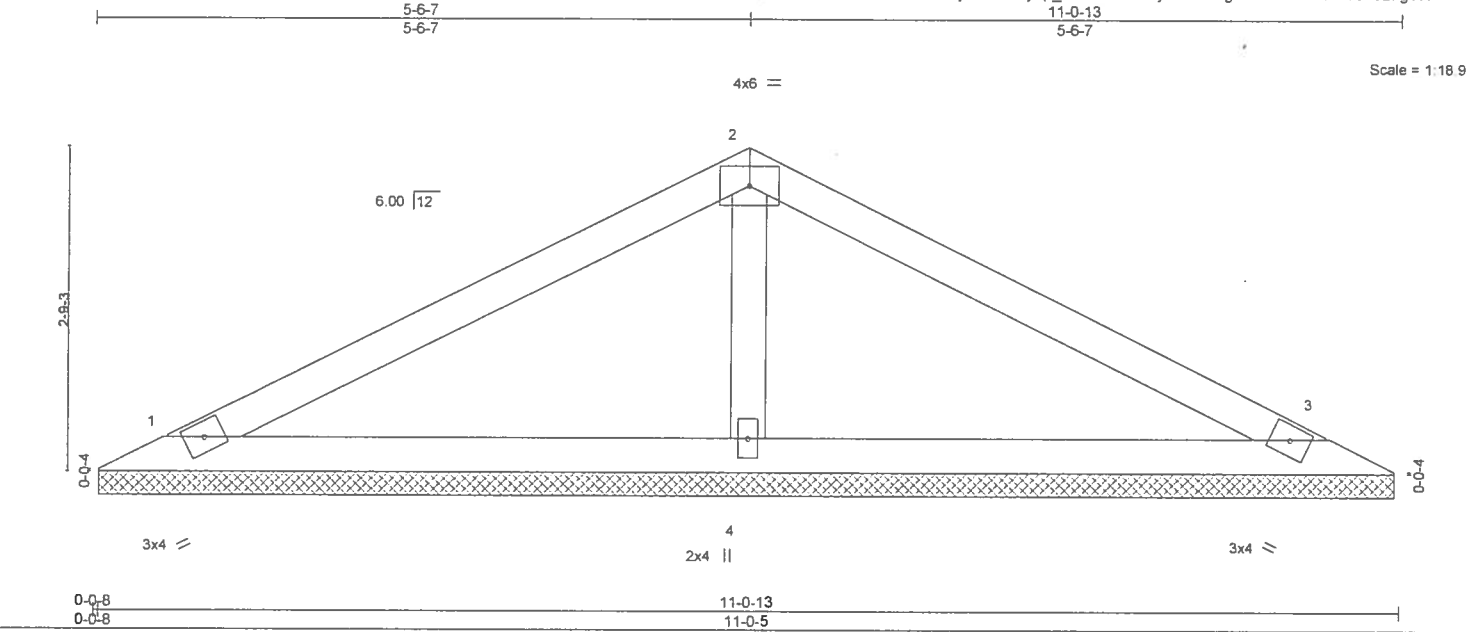
6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss V03	Truss Type Valley	Qty 1	Ply 1	IC CONST - YOUNG RES T17296417
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc. Mon Jun 10 13 19 14 2019 Page 1
ID I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-y4p_BZKebDDFOyyHfE8IEgt8h?sUATFbJW5918z7gVR
11-0-13
5-6-7

Scale = 1:18.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	1.25	BC 0.23	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S					Weight: 36 lb	FT = 20%

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

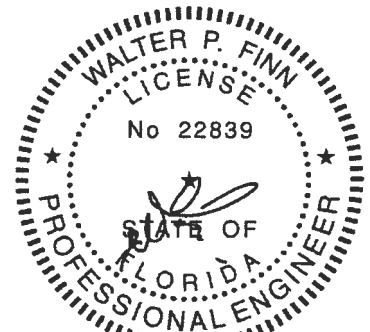
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=165/10-11-13, 3=165/10-11-13, 4=396/10-11-13
Max Horz 1=33(LC 8)
Max Uplift 1=46(LC 12), 3=52(LC 13), 4=60(LC 12)
Max Grav 1=167(LC 23), 3=167(LC 24), 4=396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=255/221

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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Date:

June 10, 2019

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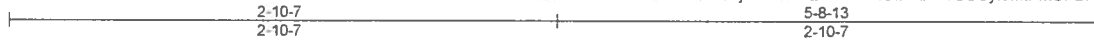
MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job 1767896	Truss V04	Truss Type Valley	Qty 1	Ply 1	IC CONST - YOUNG RES T17296418
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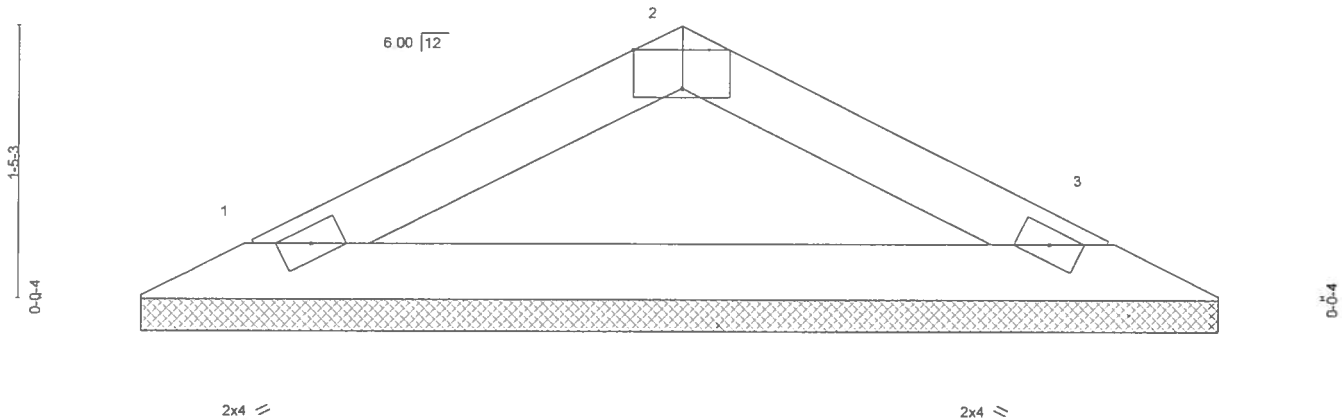
Builders FirstSource, Jacksonville, FL - 32244,

8 240 s May 13 2019 MiTek Industries, Inc Mon Jun 10 13 19 15 2019 Page 1
ID: I6Sx5o7Mu4MP8BmUtdS3j3zNYe6-QHNNPvLGLWL606UUCyf6mtPMCPBRvxWYQAqZaz7gVQ



3x6 =

Scale = 1 11.7



0-0-8		5-8-13								
0-0-8		5-8-5								
Plate Offsets (X,Y)-- [2:0-3-0,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	0.11	Vert(LL)	n/a - n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P					Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

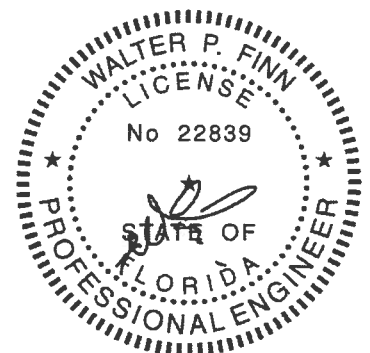
REACTIONS.

(lb/size) 1=166/5-7-13, 3=166/5-7-13
Max Horz 1=15(LC 8)
Max Uplift 1=35(LC 12), 3=35(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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MiTek USA, Inc. FL Cert 6634
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Date:

June 10,2019

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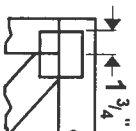
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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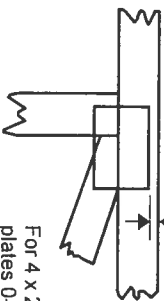
6904 Parke East Blvd.
Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/8" 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

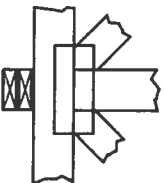
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



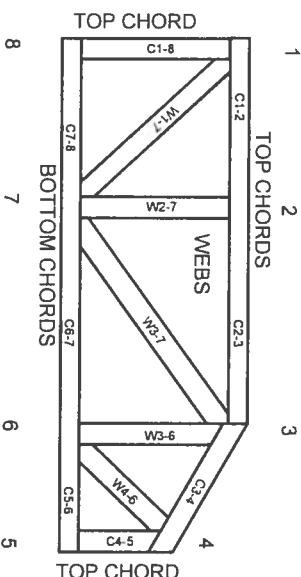
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITEk Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

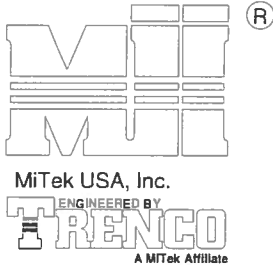
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never slack 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 ware at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.

AUGUST 1, 2016

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern

T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

Note: Nail along entire length of T-Brace / I-Brace
(On Two-Ply's Nail to Both Plies)

Brace Size for One-Ply Truss

Specified Continuous Rows of Lateral Bracing

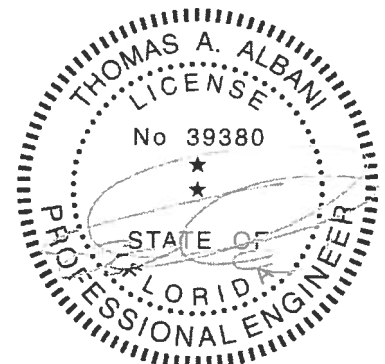
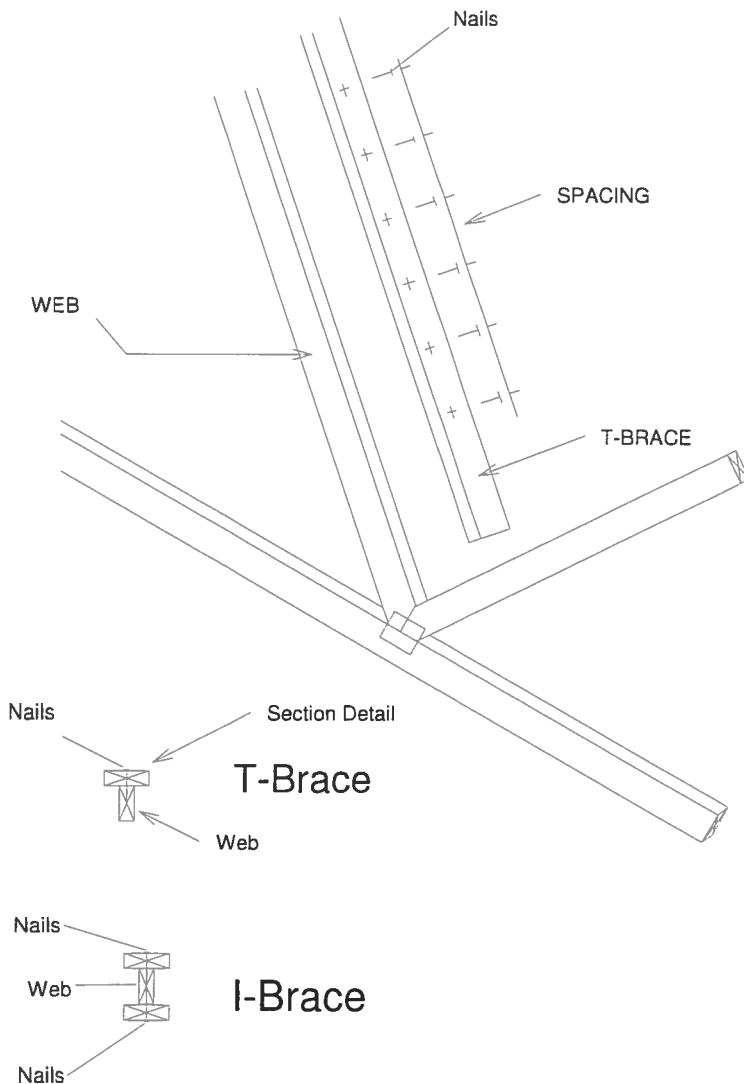
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

Brace Size for Two-Ply Truss

Specified Continuous Rows of Lateral Bracing

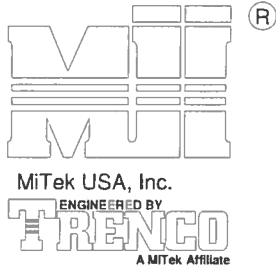
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.



Thomas A. Albani PE No. 39380
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Date:

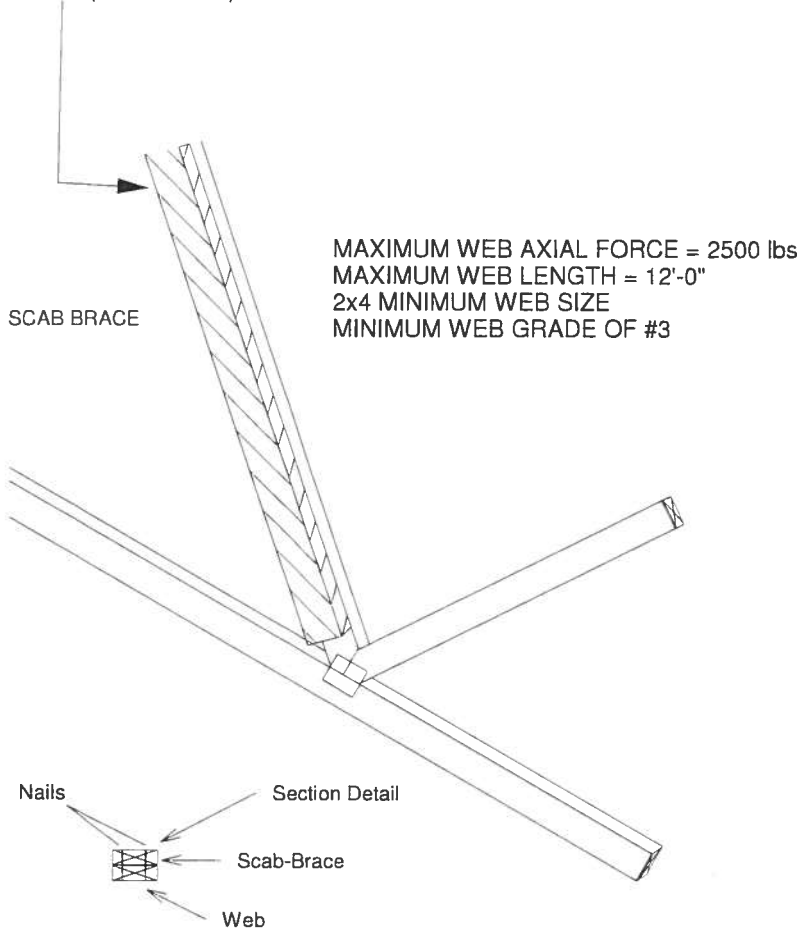
February 12, 2018



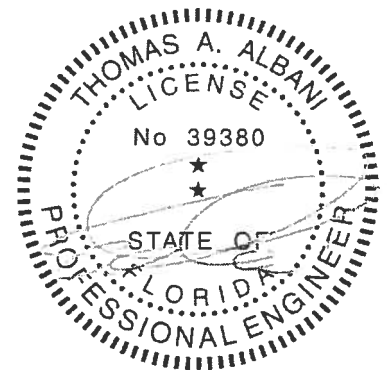
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APPLICABLE WHEN BRACING IS ***
REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x___ SCAB TO ONE FACE OF WEB WITH
2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
SCAB MUST BE THE SAME GRADE, SIZE AND
SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



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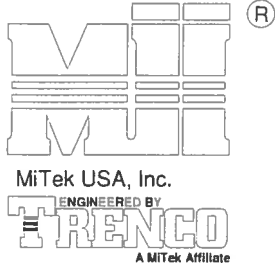
February 12, 2018

AUGUST 1, 2016

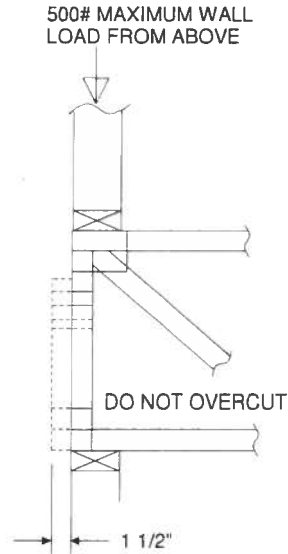
STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

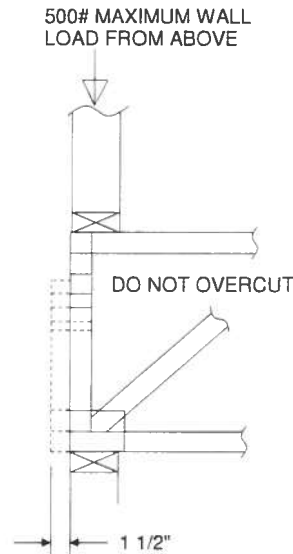
MiTek USA, Inc. Page 1 of 1



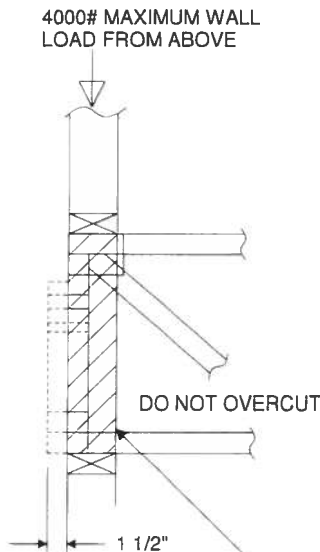
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



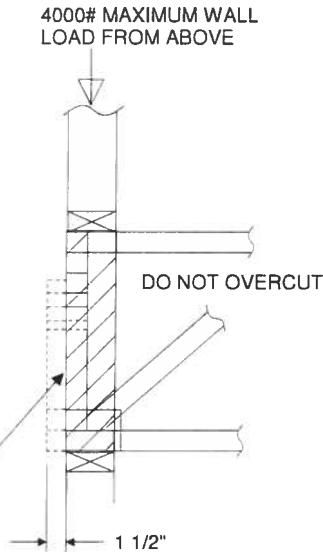
REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



TRUSSES BUILT WITH 4x2 MEMBERS

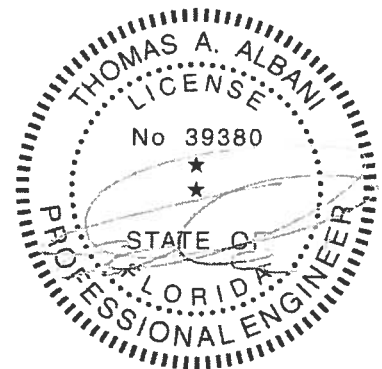


REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



TRUSSES BUILT WITH 4x2 MEMBERS

ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY) TO BOTH SIDES OF THE TRUSS AS SHOWN WITH 10d (0.131" X 3") NAILS SPACED 3" O.C.



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

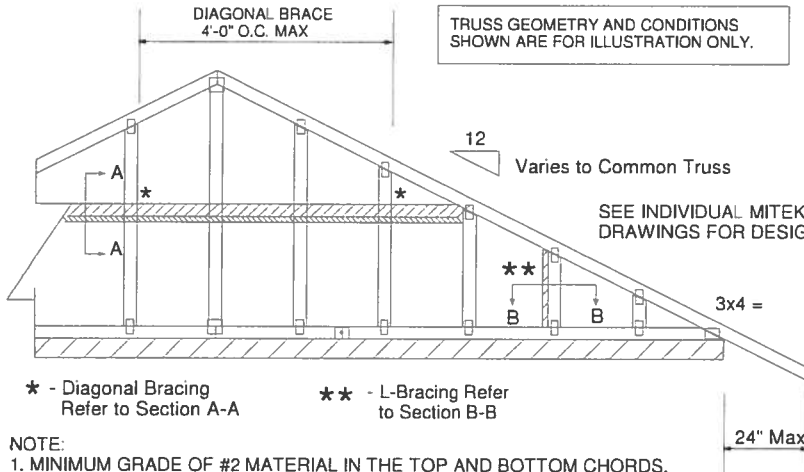
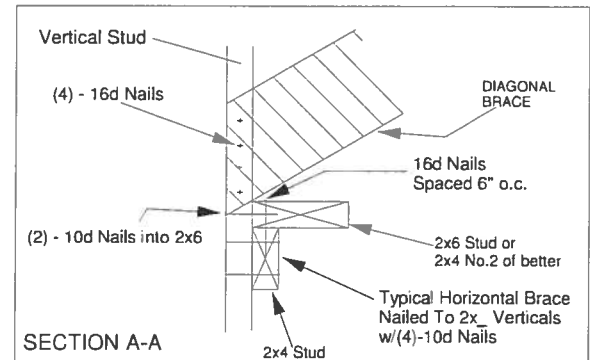
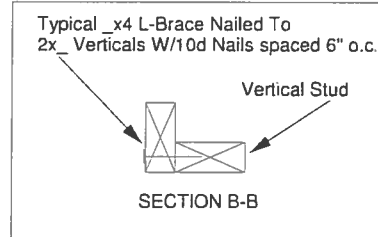
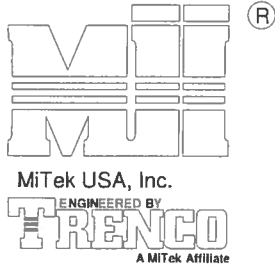
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE130-D-SP

MiTek USA, Inc. Page 1 of 2

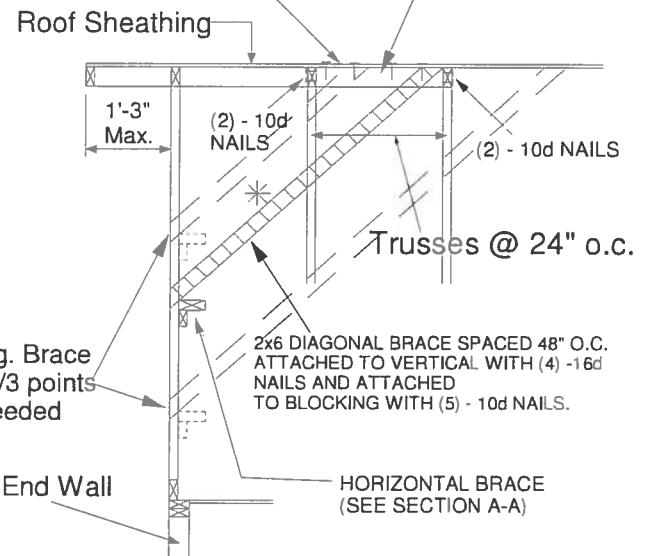


NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

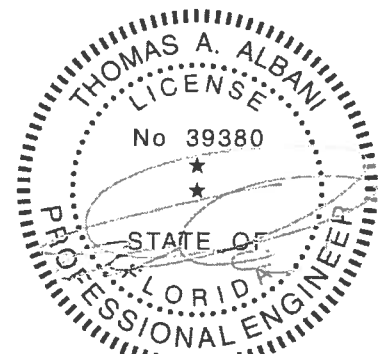


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

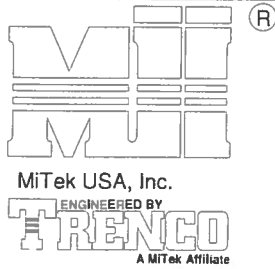
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE D
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

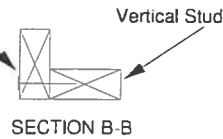


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Date:

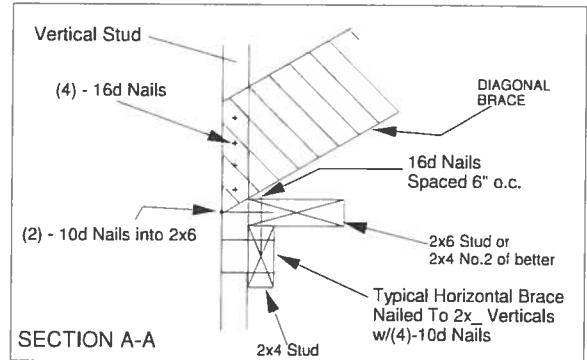
February 12, 2018



Typical 1x4 L-Brace Nailed To
2x Verticals W/10d Nails spaced 6" o.c.

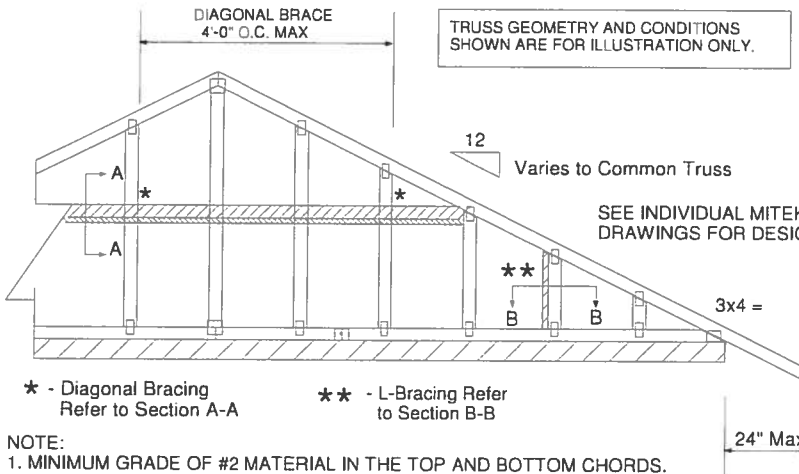
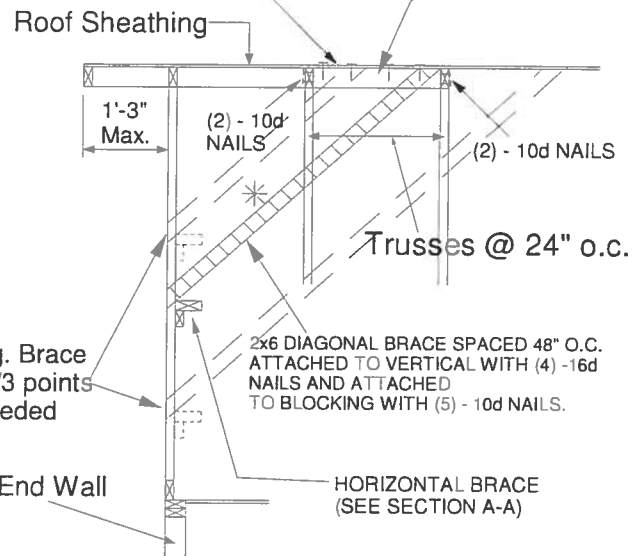


TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



NOTE:

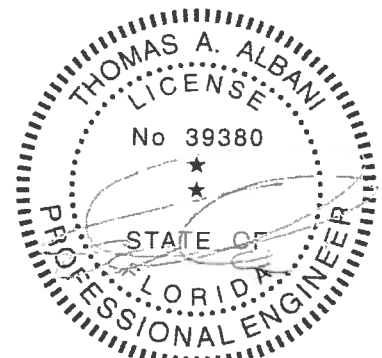
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

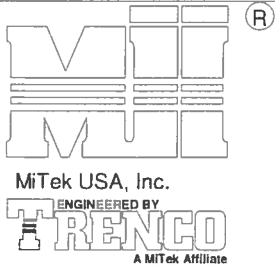
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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Date:

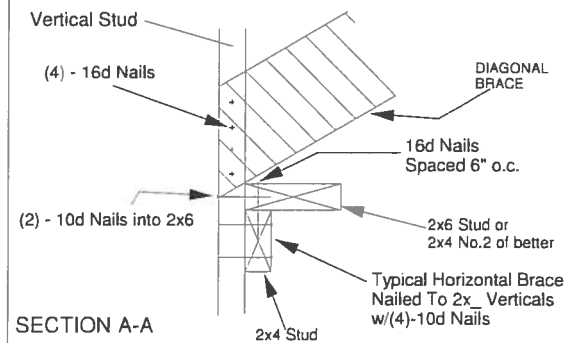
February 12, 2018



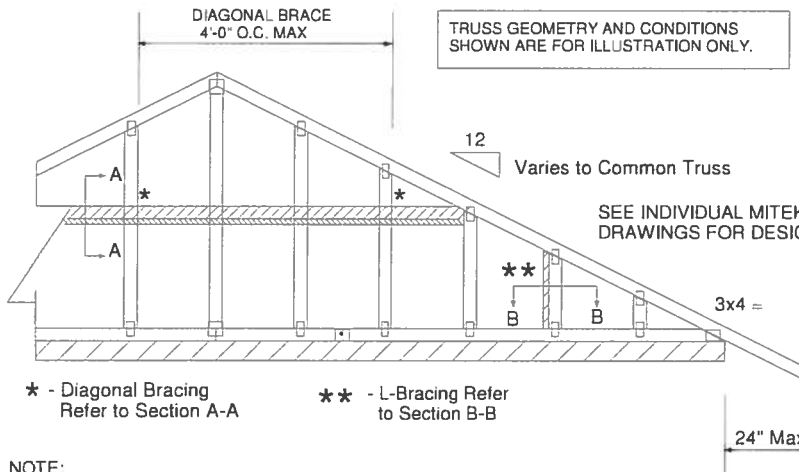
Typical 2x4 L-Brace Nailed To
2x Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

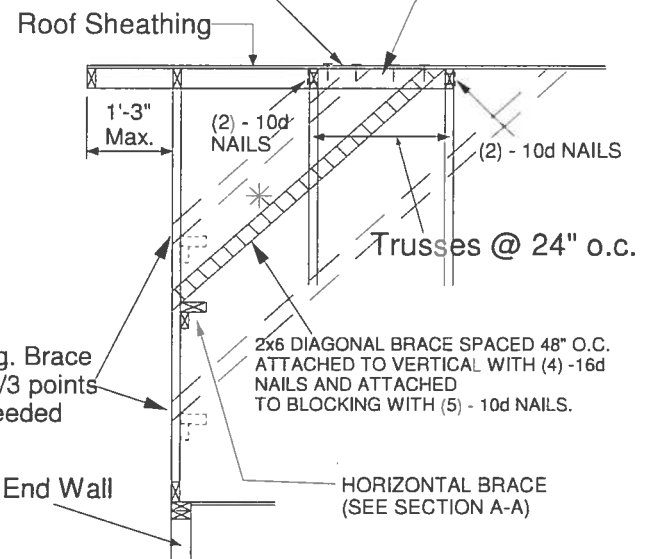


TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK



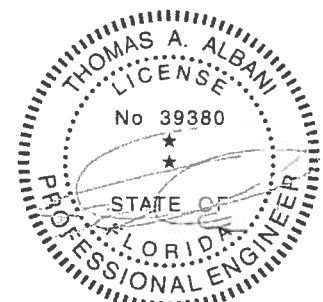
- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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6904 Parke East Blvd. Tampa FL 33610
Date:

January 19, 2018

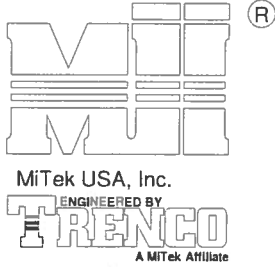
AUGUST 1, 2016

Standard Gable End Detail

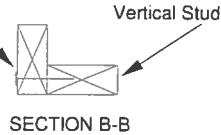
MII-GE170-D-SP

MiTek USA, Inc.

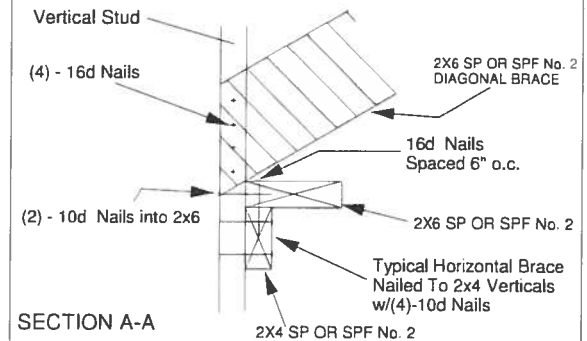
Page 1 of 2



Typical 2x4 L-Brace Nailed To
2x4 Verticals W/10d Nails spaced 6" o.c.



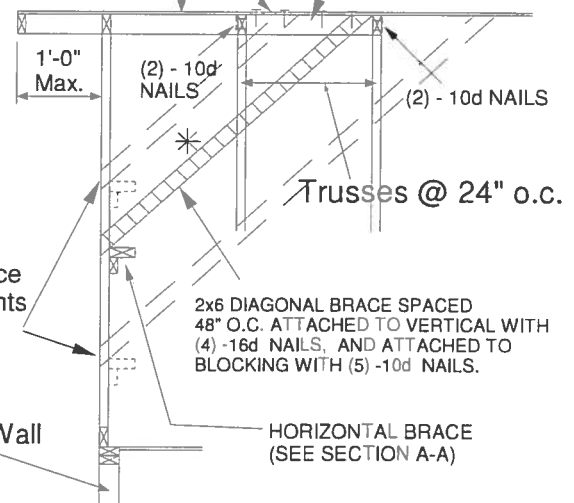
TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.



PROVIDE 2x4 BLOCKING BETWEEN THE FIRST
TWO TRUSSES AS NOTED. TOENAIL BLOCKING
TO TRUSSES WITH (2) - 10d NAILS AT EACH END.
ATTACH DIAGONAL BRACE TO BLOCKING WITH
(5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD
SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing



Diag. Brace
at 1/3 points
if needed

End Wall

HORIZONTAL BRACE
(SEE SECTION A-A)

* - Diagonal Bracing
Refer to Section A-A

** - L-Bracing Refer
to Section B-B

NOTE:

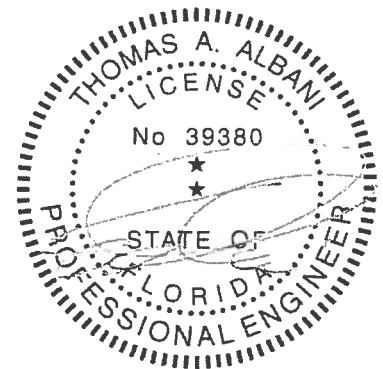
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

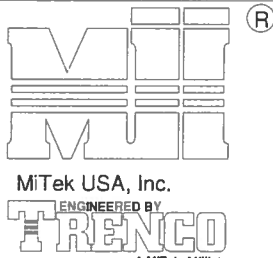
MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 170 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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6904 Parke East Blvd. Tampa FL 33610
Date:

February 12, 2018



A MiTek Affiliate
DIAGONAL BRACE
4'-0" O.C. MAX

Typical 2x4 L-Brace Nailed To
2x4 Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

SEE INDIVIDUAL MITTEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA

3x4 =

24" Max

* - Diagonal Bracing
Refer to Section A-A

** - L-Bracing Refer
to Section B-B

NOTE:

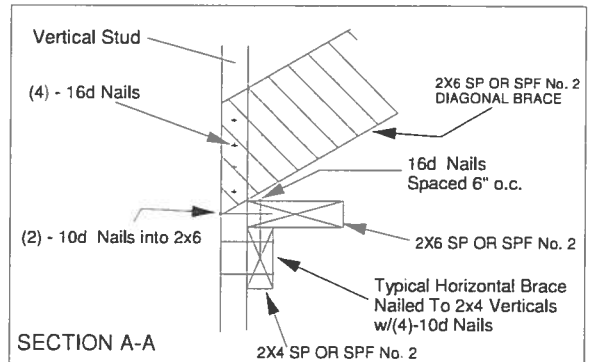
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS $L/240$.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 180 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



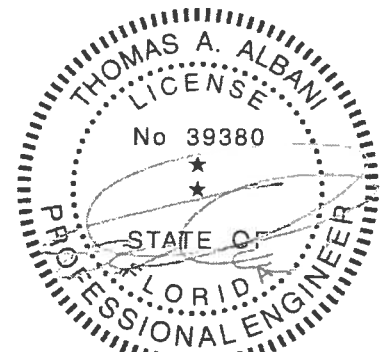
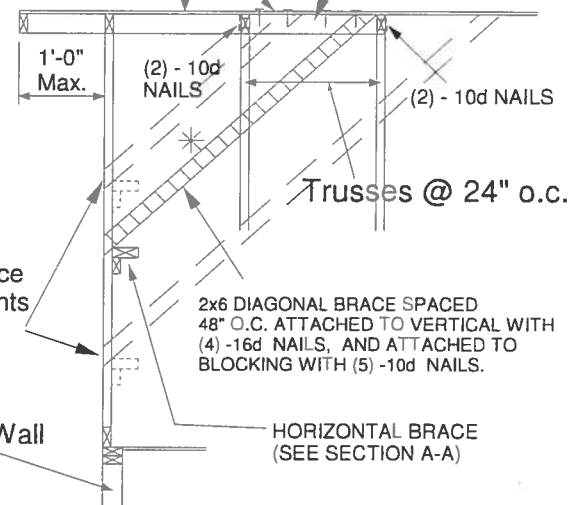
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

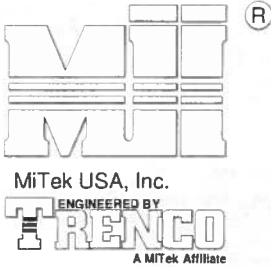
Diag. Brace at 1/3 points if needed

End Wall



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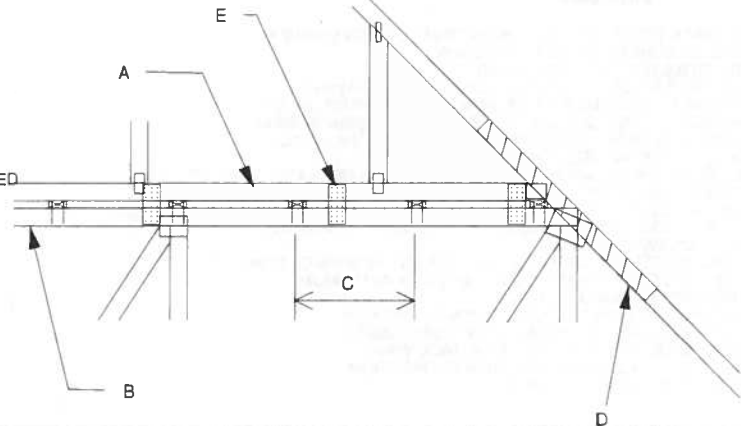
February 12, 2018



MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
 MAX MEAN ROOF HEIGHT = 30 FEET
 MAX TRUSS SPACING = 24" O.C.
 CATEGORY II BUILDING
 EXPOSURE B or C
 ASCE 7-10
 DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES
 TRANSFERRING DRAG LOADS (SHEAR TRUSSES).
 ADDITIONAL CONSIDERATIONS BY BUILDING
 ENGINEER/DESIGNER ARE REQUIRED.

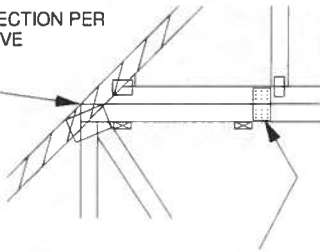
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X $\frac{1}{4}$ " X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER, STAGGER NAILS FROM OPPOSING FACES, ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



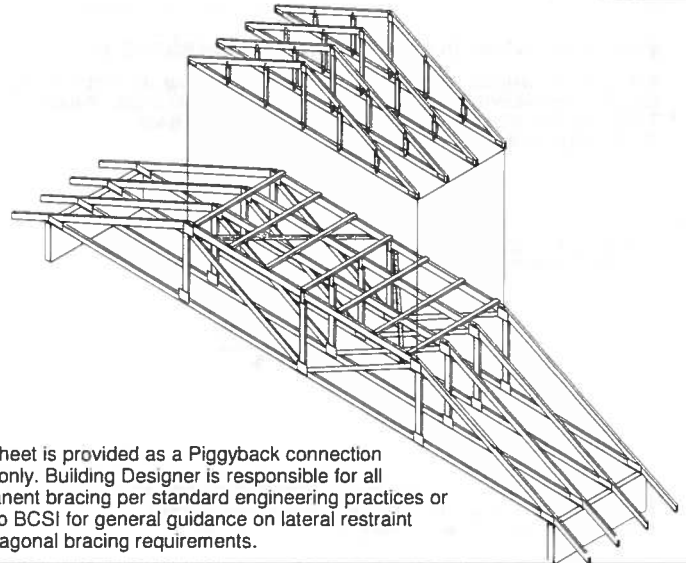
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER
NOTE D ABOVE

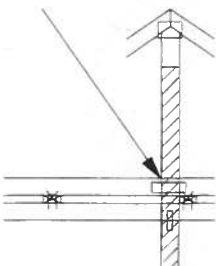


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



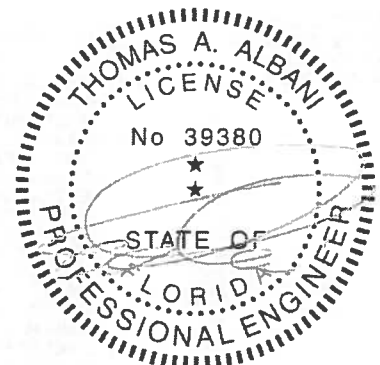
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x $\frac{1}{4}$ " X 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



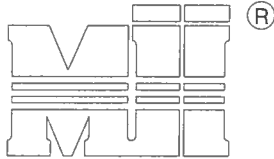
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 Date:

February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT
7-10



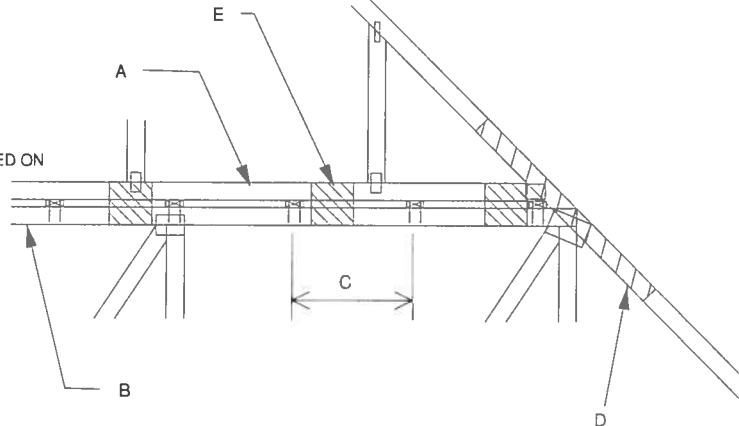
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TRENCO
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MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
MAX MEAN ROOF HEIGHT = 30 FEET
MAX TRUSS SPACING = 24" O.C.
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-10
DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES).
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.

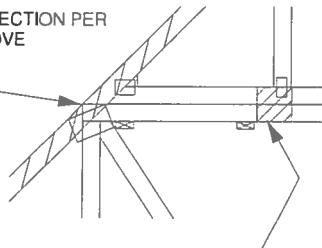
- A - PIGGYBACK TRUSS. REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS. REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2. ATTACHED TO ONE FACE, CENTERED ON INTERSECTION. WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



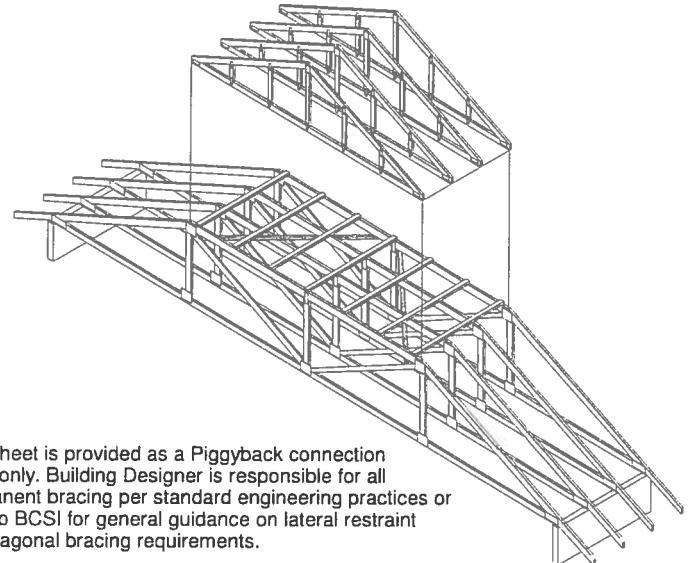
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER
NOTE D ABOVE

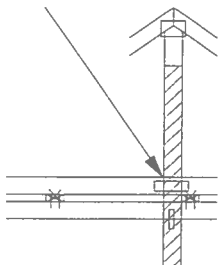


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



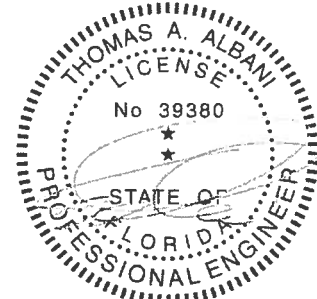
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO
EXTEND THROUGH
BOTTOM CHORD
OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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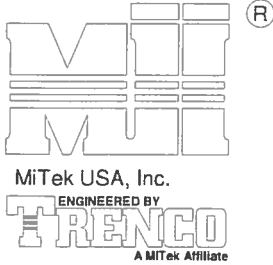
January 19, 2018

AUGUST 1, 2016

STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS
AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

MiTek USA, Inc. Page 1 of 1

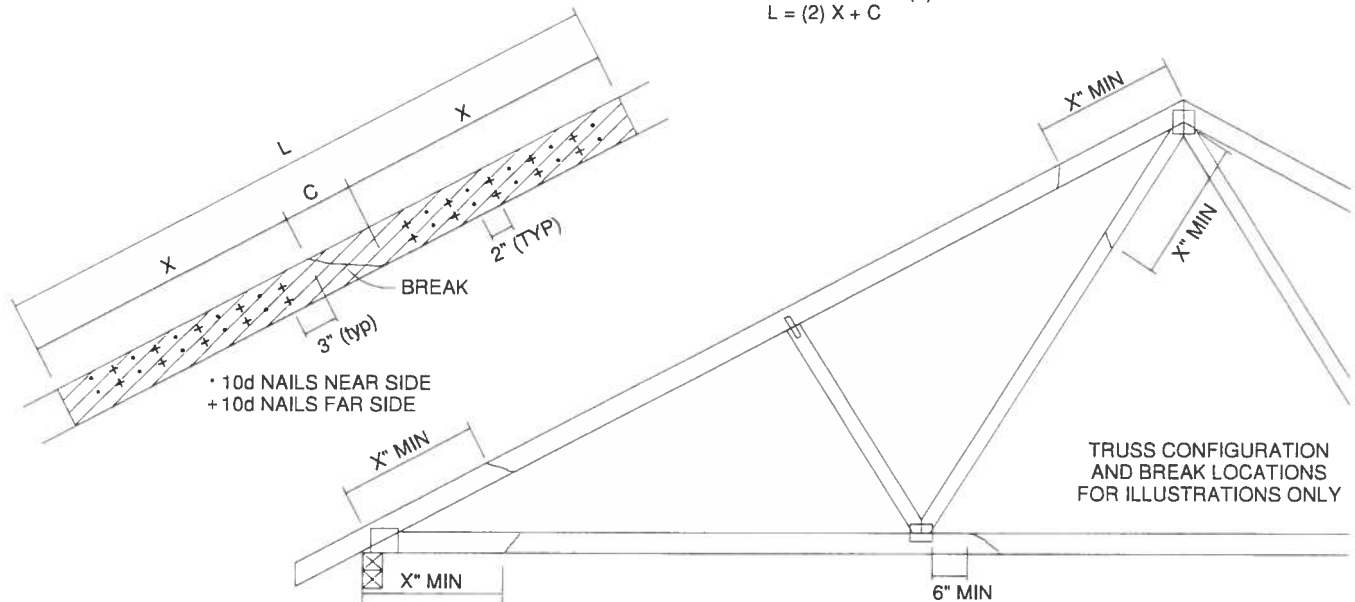


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:
 $L = (2) X + C$

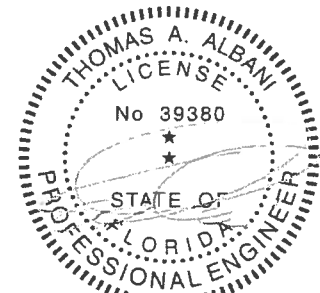


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

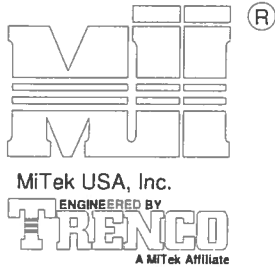
NOTES:

1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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January 19, 2018



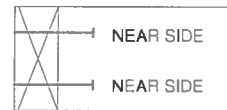
NOTES:

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.)
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE
THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR
ILLUSTRATION PURPOSES ONLY

SIDE VIEW
(2x3)
2 NAILS



TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)						
	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

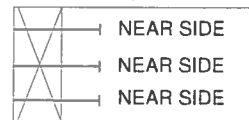
EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

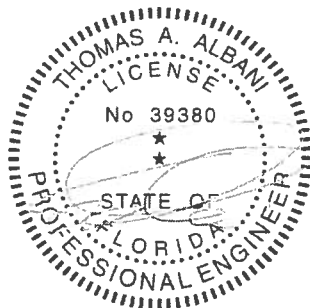
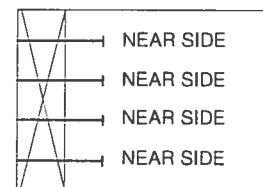
For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

SIDE VIEW
(2x4)
3 NAILS

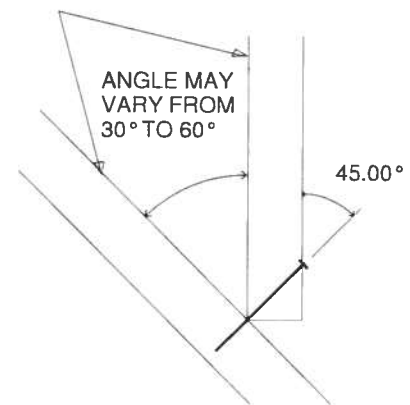
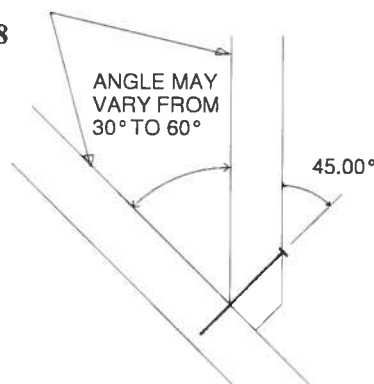
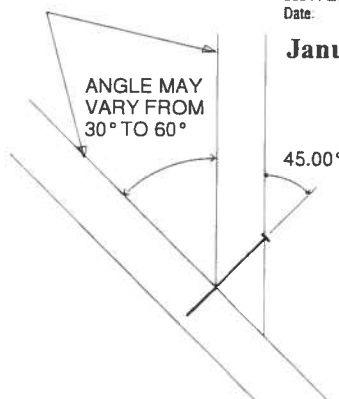


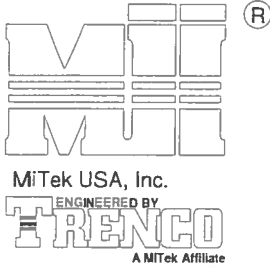
SIDE VIEW
(2x6)
4 NAILS



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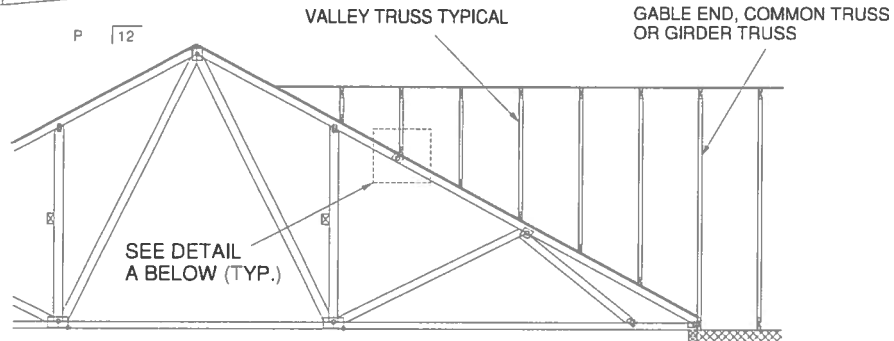
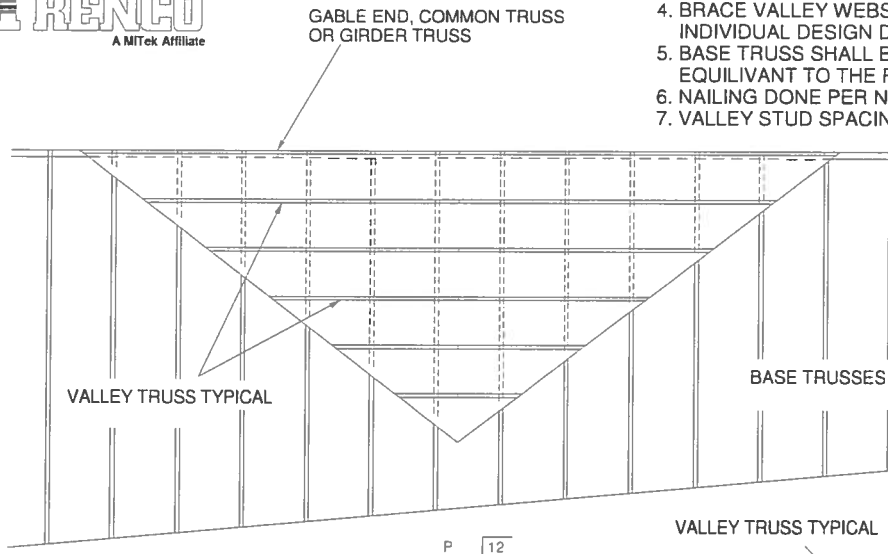
January 19, 2018



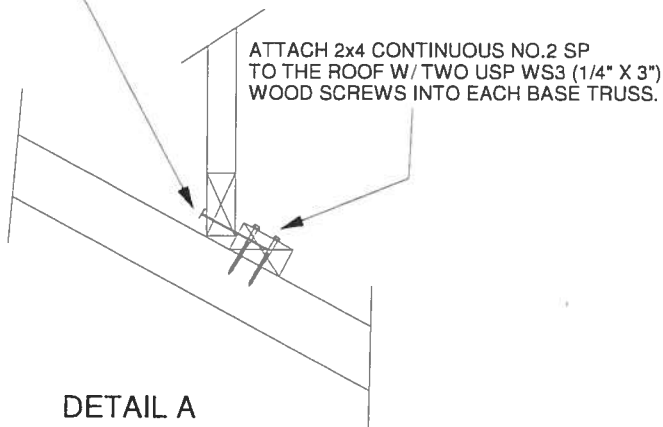


GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

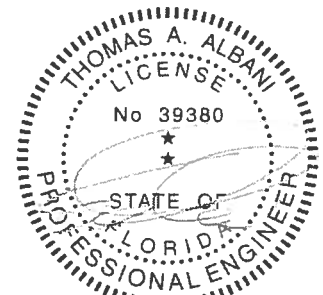


SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.



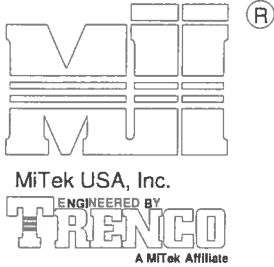
DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



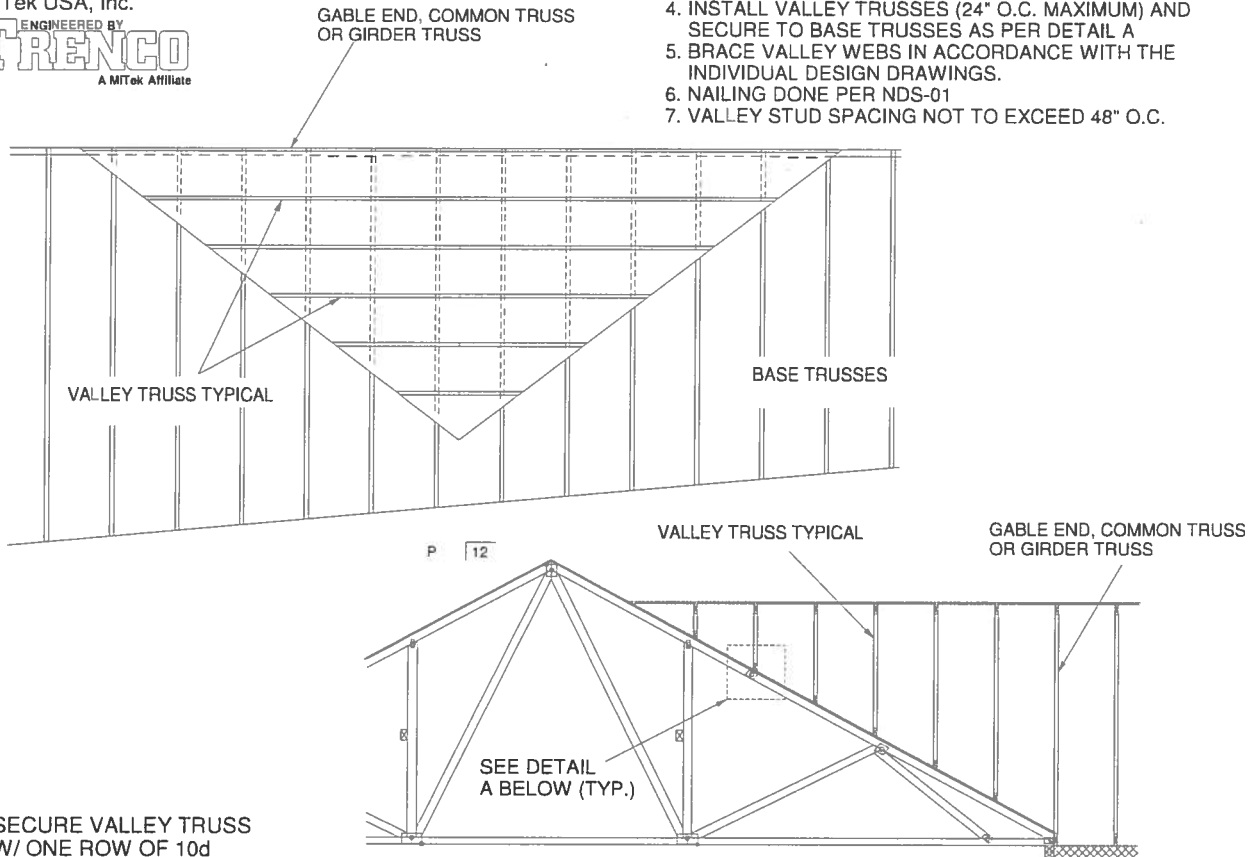
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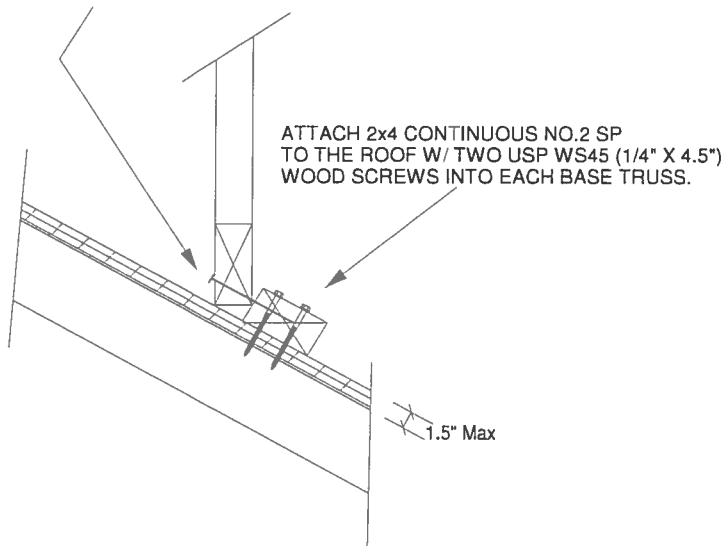


GENERAL SPECIFICATIONS

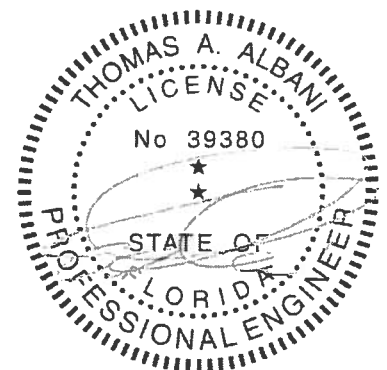
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.

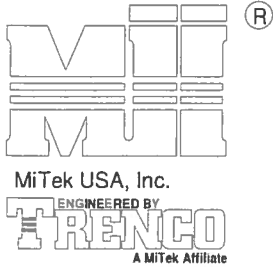


WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



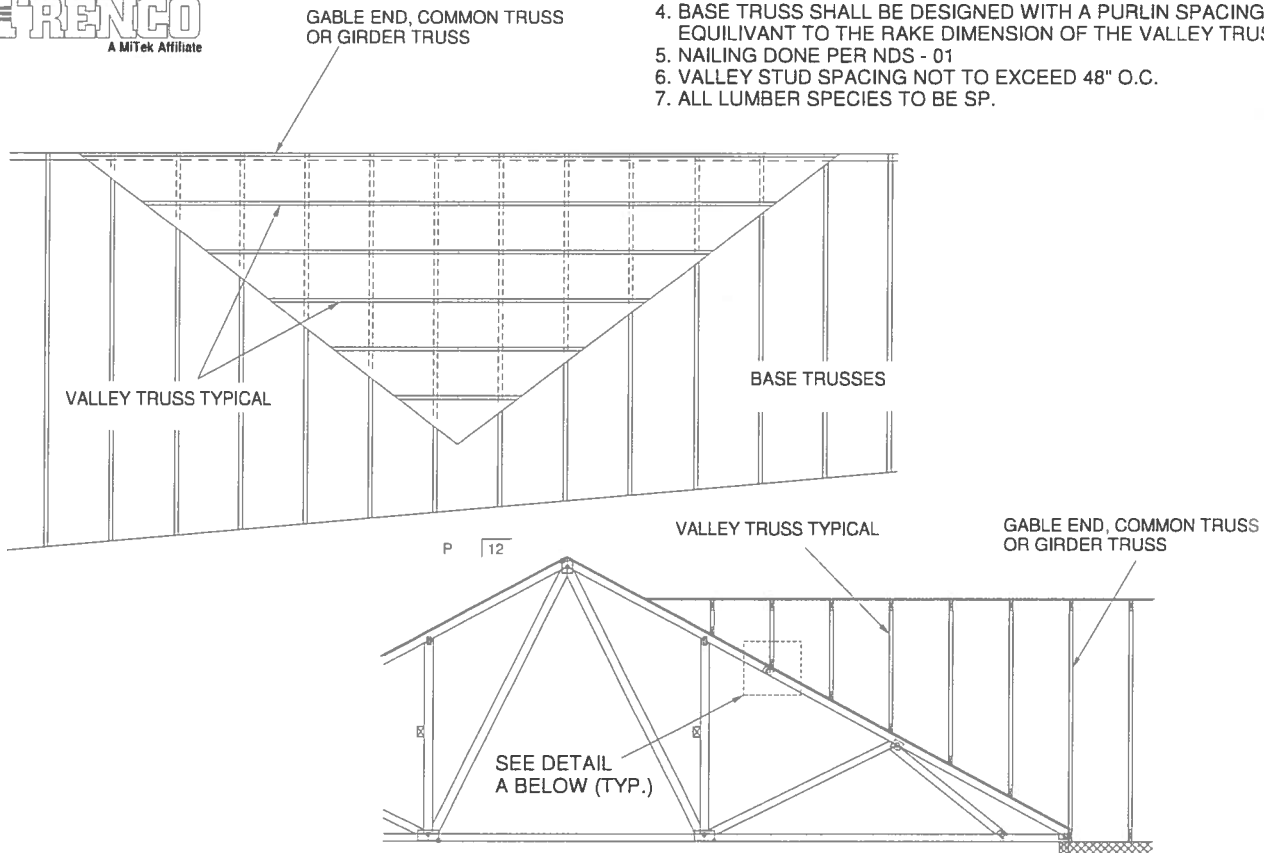
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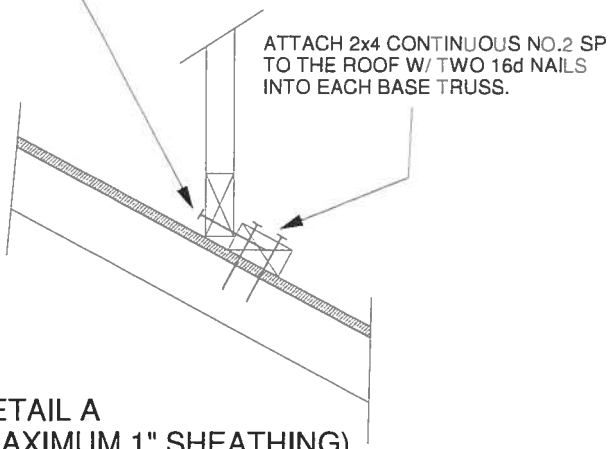


GENERAL SPECIFICATIONS

1. NAIL SIZE 16d (0.131" X 3.5")
2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVARIANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.



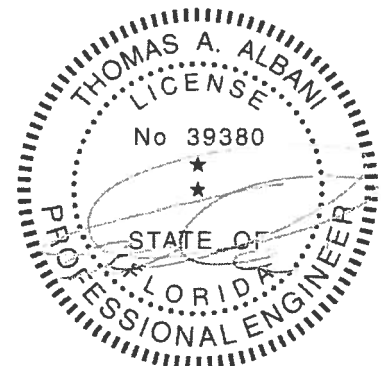
SECURE VALLEY TRUSS
W/ ONE ROW OF 16d
NAILS 6" O.C.



DETAIL A
(MAXIMUM 1" SHEATHING)
N.T.S.

ATTACH 2x4 CONTINUOUS NO.2 SP
TO THE ROOF W/ TWO 16d NAILS
INTO EACH BASE TRUSS.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING
EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF
ON THE TRUSSES



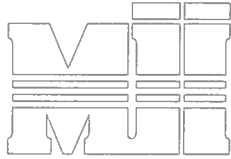
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AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL
(HIGH WIND VELOCITY)

MII-VALLEY



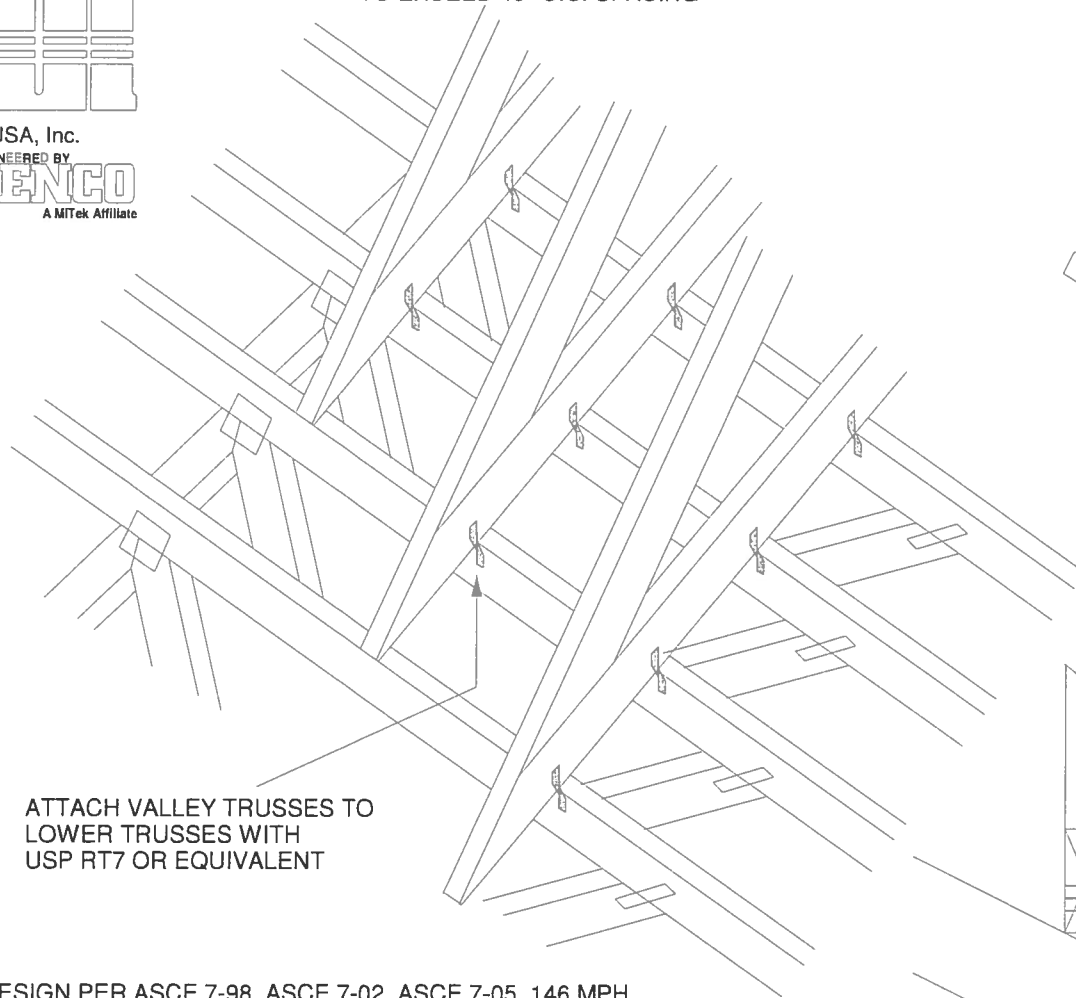
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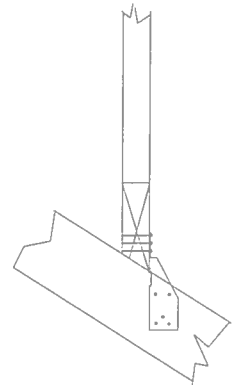
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NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACING

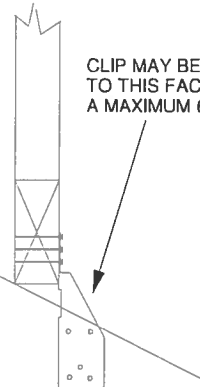
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ATTACH VALLEY TRUSSES TO
LOWER TRUSSES WITH
USP RT7 OR EQUIVALENT



FOR BEVELED BOTTOM
CHORD, CLIP MAY BE
APPLIED TO EITHER FACE



CLIP MAY BE APPLIED
TO THIS FACE UP TO
A MAXIMUM 6/12 PITCH

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
WIND DURATION OF LOAD INCREASE : 1.6
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)

SUPPORTING TRUSSES DIRECTLY UNDER
VALLEY TRUSSES MUST BE DESIGNED
WITH A MAXIMUM UNBRACED LENGTH OF
2'-10" ON AFFECTED TOP CHORDS.

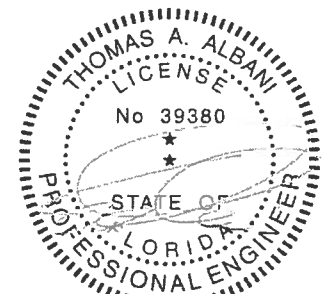
NOTES:

- SHEATHING APPLIED AFTER
INSTALLATION OF VALLEY TRUSSES
- THIS DETAIL IS NOT APPLICABLE FOR
SPF-S SPECIES LUMBER.

NON-BEVELED
BOTTOM CHORD

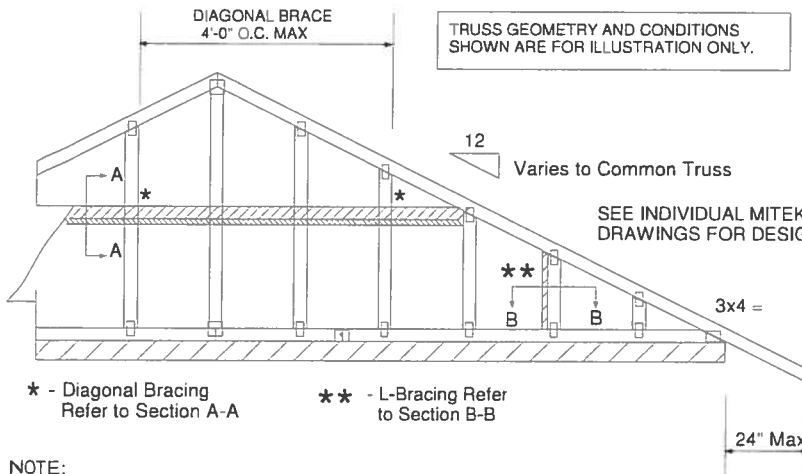
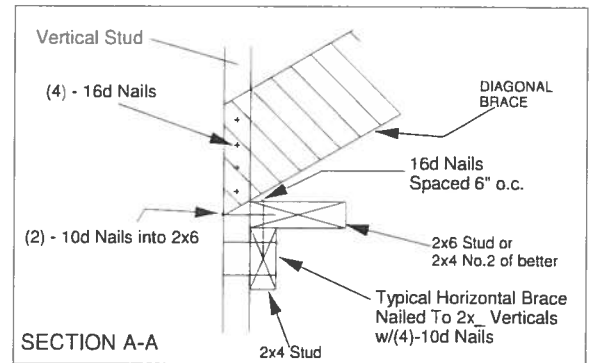
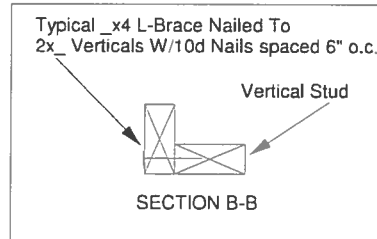
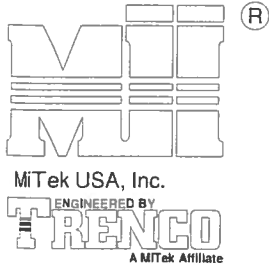
NON-BEVELED
BOTTOM CHORD

CLIP MUST BE APPLIED
TO THIS FACE WHEN
PITCH EXCEEDS 6/12.
(MAXIMUM 12/12 PITCH)



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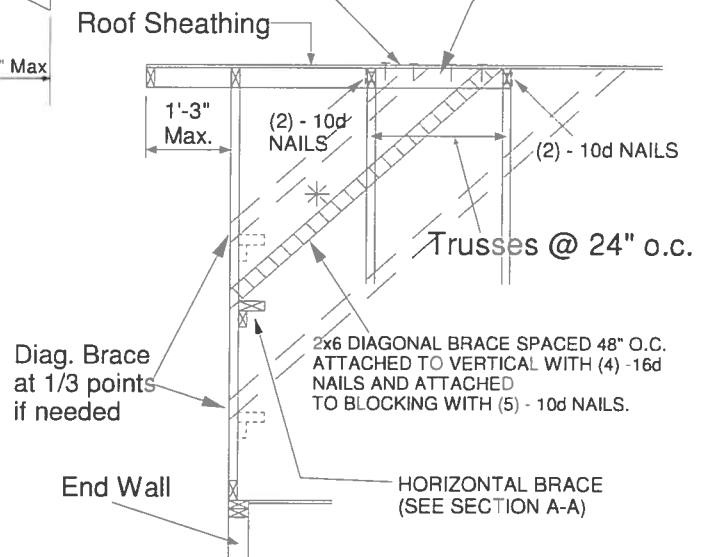


NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES:
2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

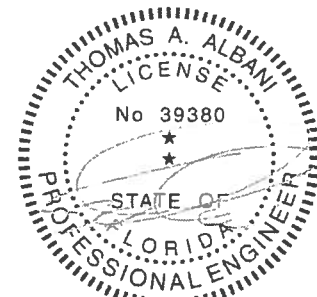


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

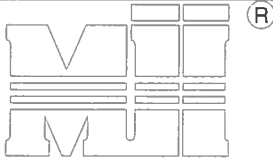
MAXIMUM WIND SPEED = 146 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.



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TRUSS CRITERIA:

LOADING: 40-10-0-10

DURATION FACTOR: 1.15

SPACING: 24" O.C.

TOP CHORD: 2x4 OR 2x6

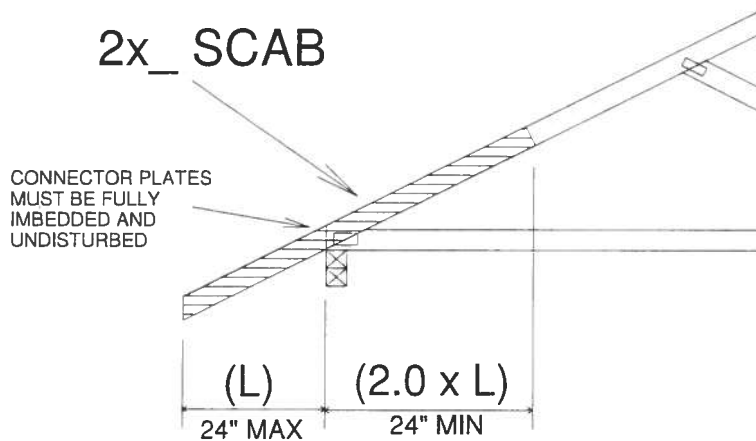
PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

NOTES:

1. ATTACH 2x SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

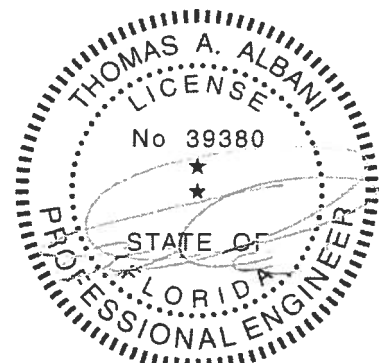


IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

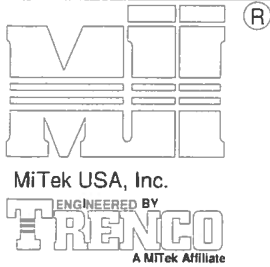
Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN
FOR PLATE SIZES AND LUMBER GRADES



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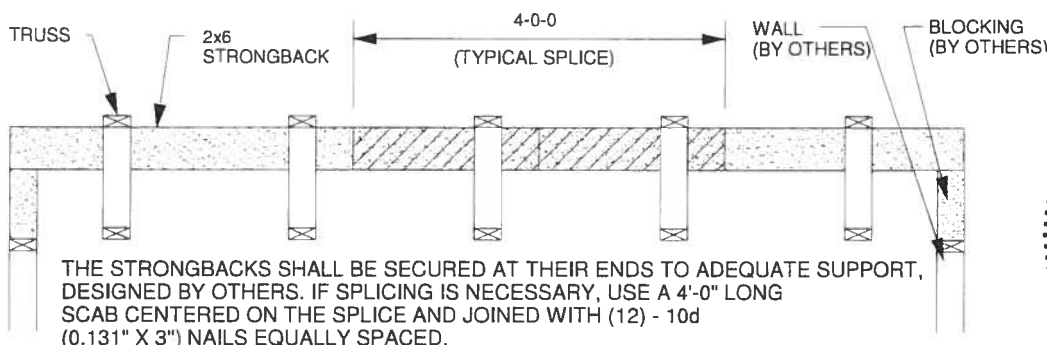
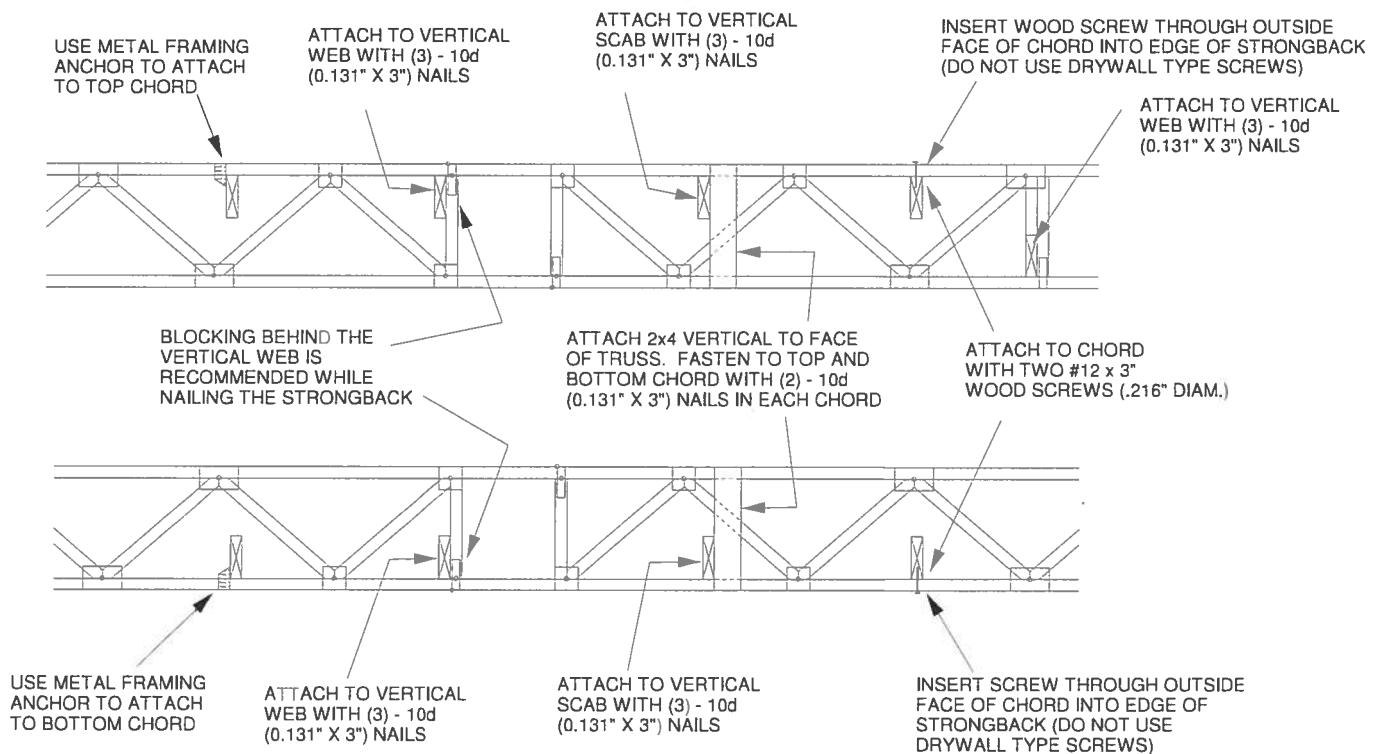
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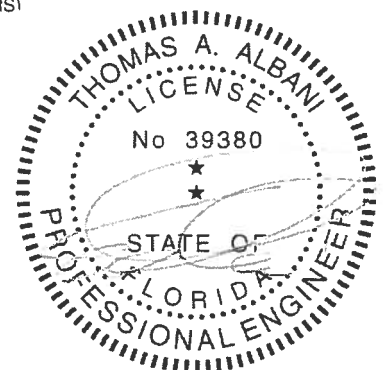
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



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