



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

RE: 1719993 - Lot 49 The Oaks / Waller

**MiTek USA, Inc.**

6904 Parke East Blvd.  
 Tampa, FL 33610-4115

**Site Information:**

Customer Info: IC Construction Project Name: 1719993 Model: Custom  
 Lot/Block: 49 Subdivision: The Oaks  
 Address: N/A  
 City: Columbia County State: FL

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

Name: unknown at time of seals License #: unknown at time of seals  
 Address: unknown at time of seals  
 City: unknown at time of seals State: unknown at time of seals

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2  
 Wind Code: ASCE 7-10 Wind Speed: 130 mph  
 Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 65 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	T16774667	CJ2	4/12/19	18	T16774684	PB2G	4/12/19
2	T16774668	CJ4	4/12/19	19	T16774685	PB3	4/12/19
3	T16774669	EJ6	4/12/19	20	T16774686	PB4	4/12/19
4	T16774670	EJ8	4/12/19	21	T16774687	PB4G	4/12/19
5	T16774671	F01	4/12/19	22	T16774688	PB5	4/12/19
6	T16774672	F02	4/12/19	23	T16774689	PB5G	4/12/19
7	T16774673	F03	4/12/19	24	T16774690	T01	4/12/19
8	T16774674	F04	4/12/19	25	T16774691	T01G	4/12/19
9	T16774675	F05	4/12/19	26	T16774692	T02	4/12/19
10	T16774676	F06	4/12/19	27	T16774693	T03	4/12/19
11	T16774677	F07	4/12/19	28	T16774694	T04	4/12/19
12	T16774678	F08	4/12/19	29	T16774695	T05	4/12/19
13	T16774679	F09	4/12/19	30	T16774696	T06E	4/12/19
14	T16774680	HJ8	4/12/19	31	T16774697	T07E	4/12/19
15	T16774681	PB1	4/12/19	32	T16774698	T08E	4/12/19
16	T16774682	PB1G	4/12/19	33	T16774699	T09E	4/12/19
17	T16774683	PB2	4/12/19	34	T16774700	T10E	4/12/19

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. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



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

April 12, 2019



RE: 1719993 - Lot 49 The Oaks / Waller

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

**Site Information:**

Customer Info: IC Construction    Project Name: 1719993    Model: Custom  
Lot/Block: 49    Subdivision: The Oaks  
Address: N/A  
City: Columbia County    State: FL

No.	Seal#	Truss Name	Date
35	T16774701	T11W	4/12/19
36	T16774702	T12W	4/12/19
37	T16774703	T13W	4/12/19
38	T16774704	T14W	4/12/19
39	T16774705	T15	4/12/19
40	T16774706	T16	4/12/19
41	T16774707	T17G	4/12/19
42	T16774708	T18	4/12/19
43	T16774709	T18G	4/12/19
44	T16774710	T19	4/12/19
45	T16774711	T20	4/12/19
46	T16774712	T20G	4/12/19
47	T16774713	T21	4/12/19
48	T16774714	T22	4/12/19
49	T16774715	T22G	4/12/19
50	T16774716	T23	4/12/19
51	T16774717	T24	4/12/19
52	T16774718	T25	4/12/19
53	T16774719	T26	4/12/19
54	T16774720	T26G	4/12/19
55	T16774721	T27	4/12/19
56	T16774722	T27G	4/12/19
57	T16774723	T28	4/12/19
58	T16774724	T28G	4/12/19
59	T16774725	T29	4/12/19
60	T16774726	T31	4/12/19
61	T16774727	T32	4/12/19
62	T16774728	T33	4/12/19
63	T16774729	T34	4/12/19
64	T16774730	T35	4/12/19
65	T16774731	TG01	4/12/19

Job 1719993	Truss CJ2	Truss Type Jack-Open	Qty 2	Ply 1	Lot 49 The Oaks / Waller T16774667
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MITek Industries, Inc. Fri Apr 12 10:27:37 2019 Page 1  
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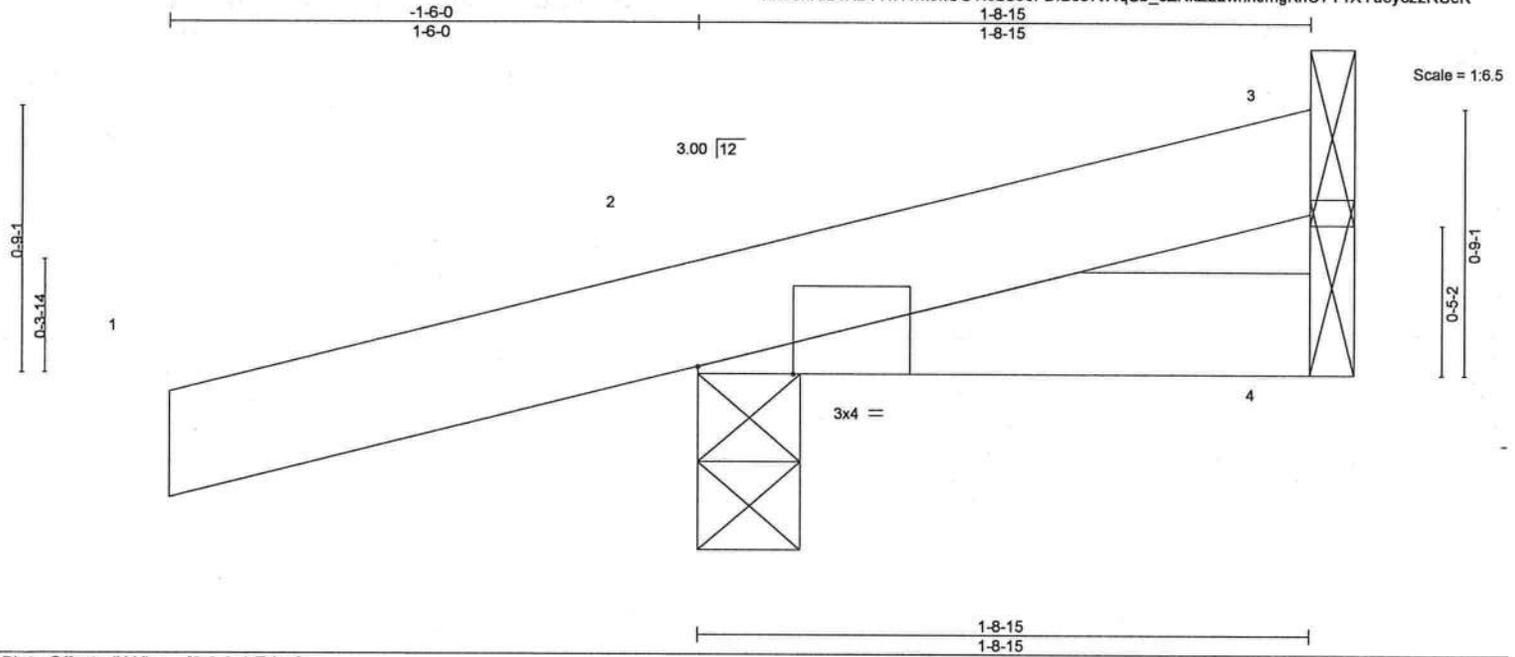


Plate Offsets (X,Y)-- [2:0-3-4,Edge]

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 0.12	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 8 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-8-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=20/Mechanical, 2=180/0-3-8, 4=9/Mechanical  
Max Horz 2=27(LC 8)  
Max Uplift 3=-9(LC 9), 2=-94(LC 8), 4=-9(LC 9)  
Max Grav 3=20(LC 1), 2=180(LC 1), 4=21(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=23ft; Cat. II; Exp B; 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) 3, 2, 4.



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Date:

April 12,2019

**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.

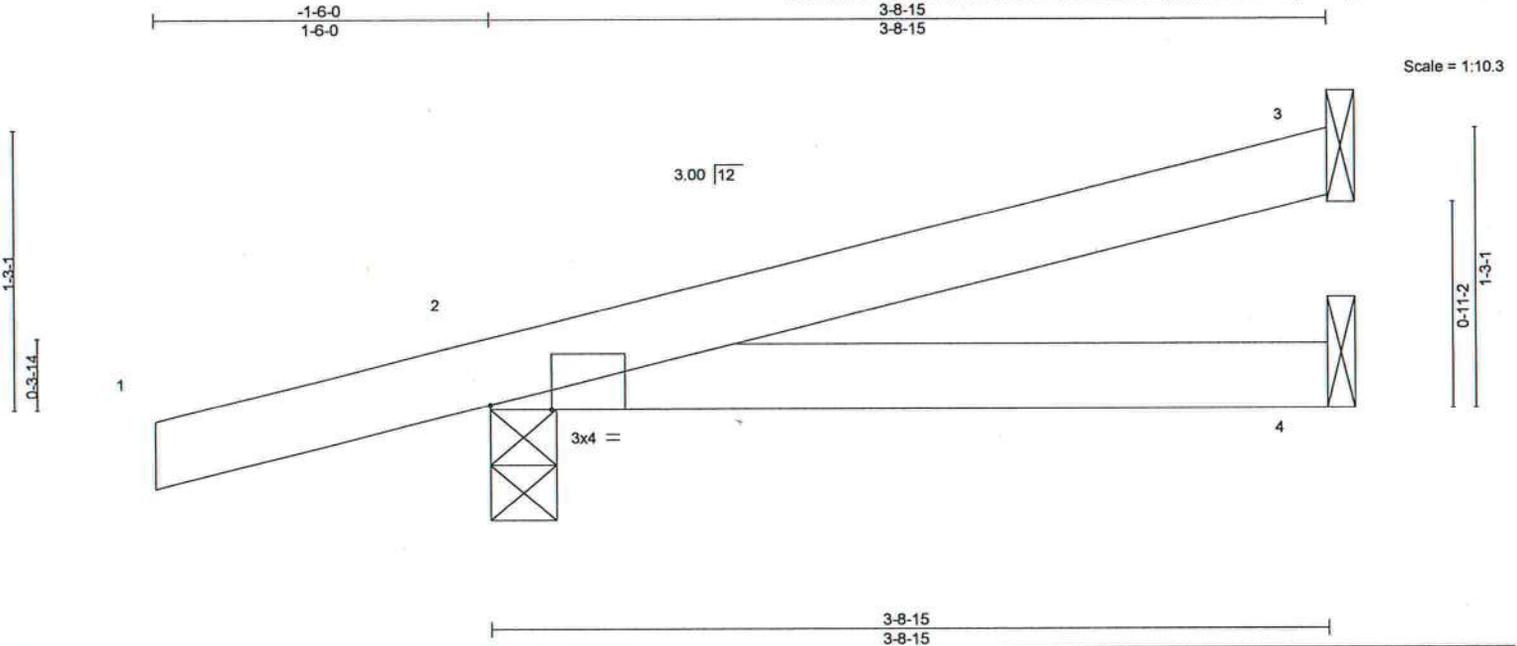


6904 Parke East Blvd.  
Tampa, FL 36610

Job 1719993	Truss CJ4	Truss Type Jack-Open	Qty 2	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774668
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MITek Industries, Inc. Fri Apr 12 10:27:38 2019 Page 1  
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Scale = 1:10.3

Plate Offsets (X,Y)-- [2:0-3-4,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 0.12	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	-0.01	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: 14 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=77/Mechanical, 2=234/0-3-8, 4=43/Mechanical

Max Horz 2=40(LC 8)  
Max Uplift 3=-29(LC 8), 2=-111(LC 8), 4=-22(LC 9)  
Max Grav 3=77(LC 1), 2=234(LC 1), 4=61(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=23ft; Cat. II; Exp B; 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) 3, 4 except (jt=lb) 2=111.



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6904 Parke East Blvd.  
Tampa, FL 36610

Job 1719993	Truss EJ6	Truss Type Jack-Closed	Qty 11	Ply 1	Lot 49 The Oaks / Waller	T16774669
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:38 2019 Page 1  
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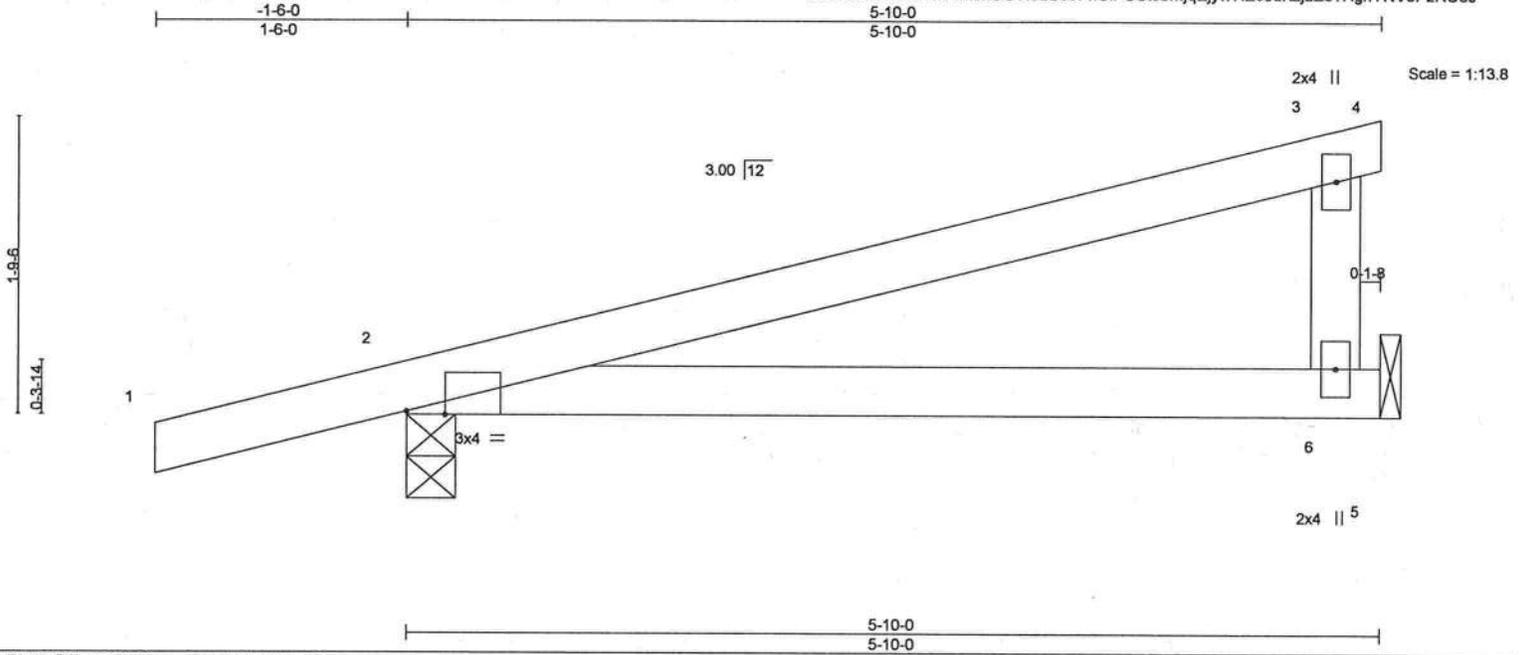


Plate Offsets (X,Y)-- [2:0-2-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	0.10	6-9	>656	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	-0.08	6-9	>788	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: 22 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 5-10-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 6=204/Mechanical, 2=298/0-3-8  
 Max Horz 2=54(LC 8)  
 Max Uplift 6=-86(LC 8), 2=-134(LC 8)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; 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) 6 except (jt=lb) 2=134.



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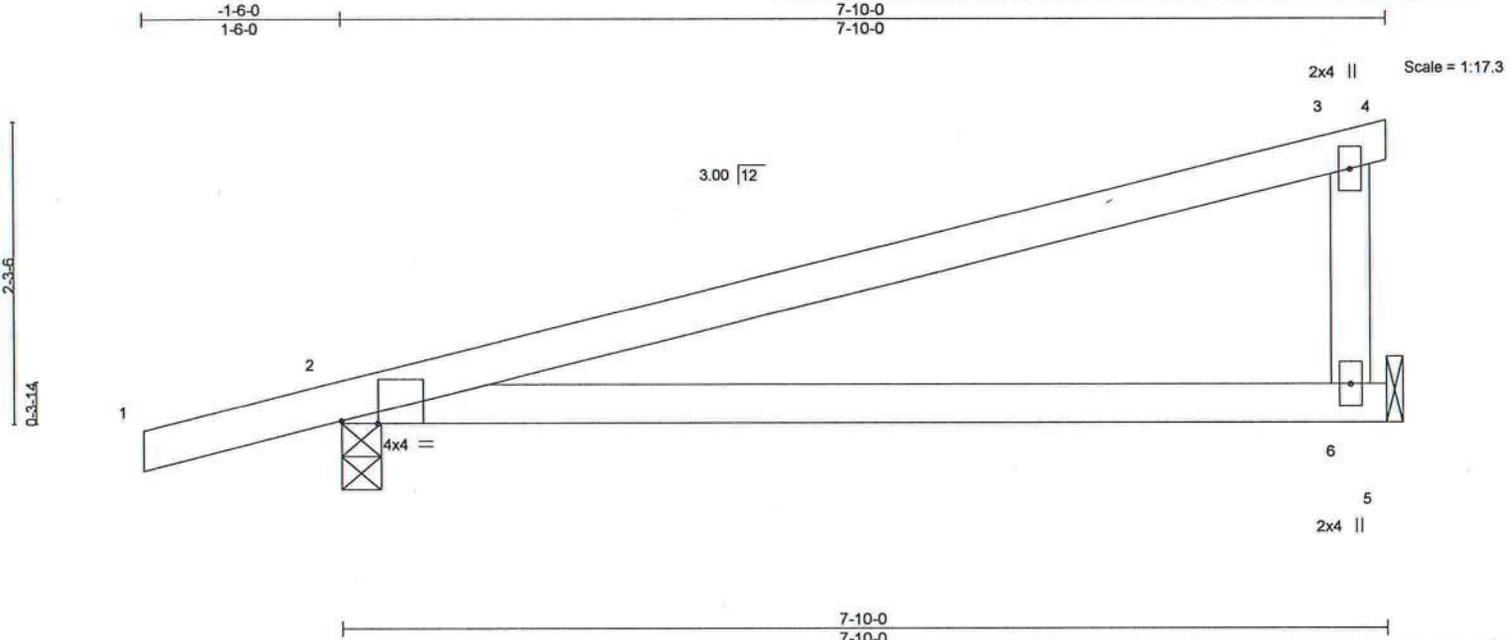


6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss EJB	Truss Type Jack-Closed	Qty 10	Ply 1	Lot 49 The Oaks / Waller	T16774670
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Builders FirstSource, Lake City, FL

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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.35	6-9	>257	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.31	6-9	>297	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/TP12014	Matrix-MP							Weight: 29 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) 6=281/Mechanical, 2=369/0-3-8  
 Max Horz 2=67(LC 8)  
 Max Uplift 6=-121(LC 8), 2=-162(LC 8)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; 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) except (jt=lb) 6=121, 2=162.



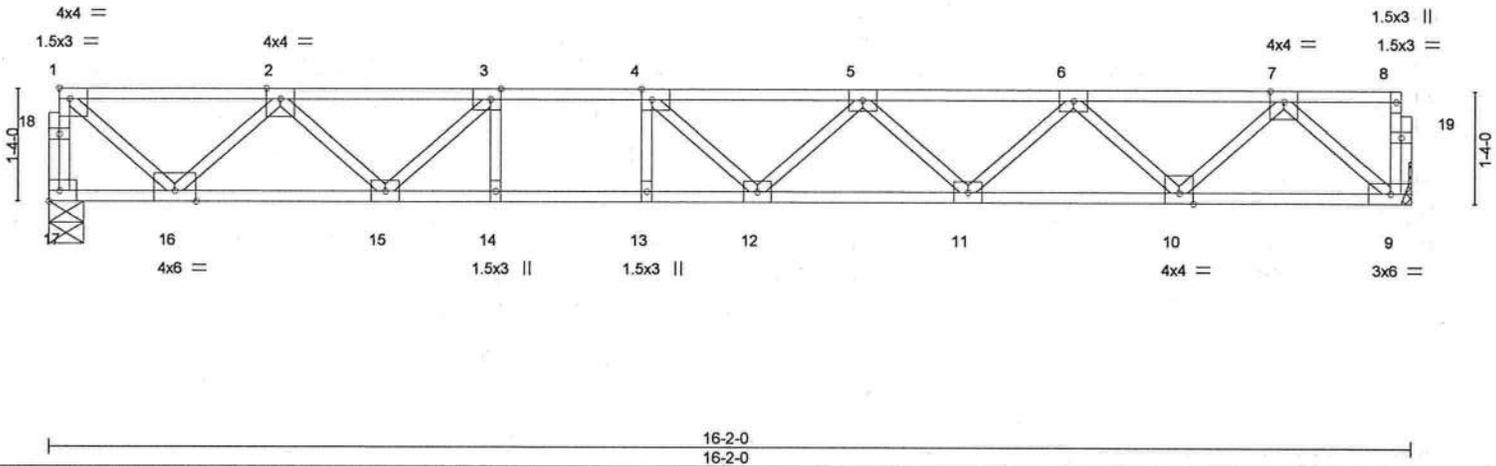
Walter P. Finn PE No.22839  
 MITek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

April 12, 2019

Job 1719993	Truss F01	Truss Type Floor	Qty 7	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774671
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:39 2019 Page 1  
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<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI,</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 2-0-0 Lumber DOL 1.00	TC 0.75 BC 0.67 WB 0.54 Matrix-S	in (loc) l/def L/d Vert(LL) -0.21 12-13 >917 360 Vert(CT) -0.29 12-13 >668 240 Horz(CT) 0.04 9 n/a n/a	MT20	244/190
TCDL 10.0	Rep Stress Incr YES			Weight: 84 lb FT = 20%F, 11%E	
BCLL 0.0	Code FBC2017/TPI2014				
BCDL 5.0					

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-4-6 oc purlins, except end verticals.
BOT CHORD 2x4 SP M 31(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 17=869/0-5-0, 9=869/Mechanical

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-17=-869/0, 1-2=-872/0, 2-3=-2095/0, 3-4=-2708/0, 4-5=-2842/0, 5-6=-2493/0, 6-7=-1561/0  
 BOT CHORD 15-16=0/1619, 14-15=0/2708, 13-14=0/2708, 12-13=0/2708, 11-12=0/2822, 10-11=0/2153, 9-10=0/937  
 WEBS 1-16=0/1124, 2-16=-1040/0, 2-15=0/662, 3-15=-886/0, 3-14=0/365, 7-9=-1245/0, 7-10=0/868, 6-10=-823/0, 6-11=0/473, 5-11=-458/0, 4-12=-194/361, 4-13=-336/24

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x4 MT20 unless otherwise indicated.
  - 3) Refer to girder(s) for truss to truss connections.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

April 12, 2019

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Job 1719993	Truss F02	Truss Type FLOOR	Qty 3	Ply 1	Lot 49 The Oaks / Waller T16774672
Builders FirstSource, Lake City, FL					Job Reference (optional)

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:40 2019 Page 1  
ID:0ehRiBvXB1YhYwkokCGTf5zS55f-ett?h8vP7N\_YT16JEAbdOJxCNXfPjpczFsscClzRUeH

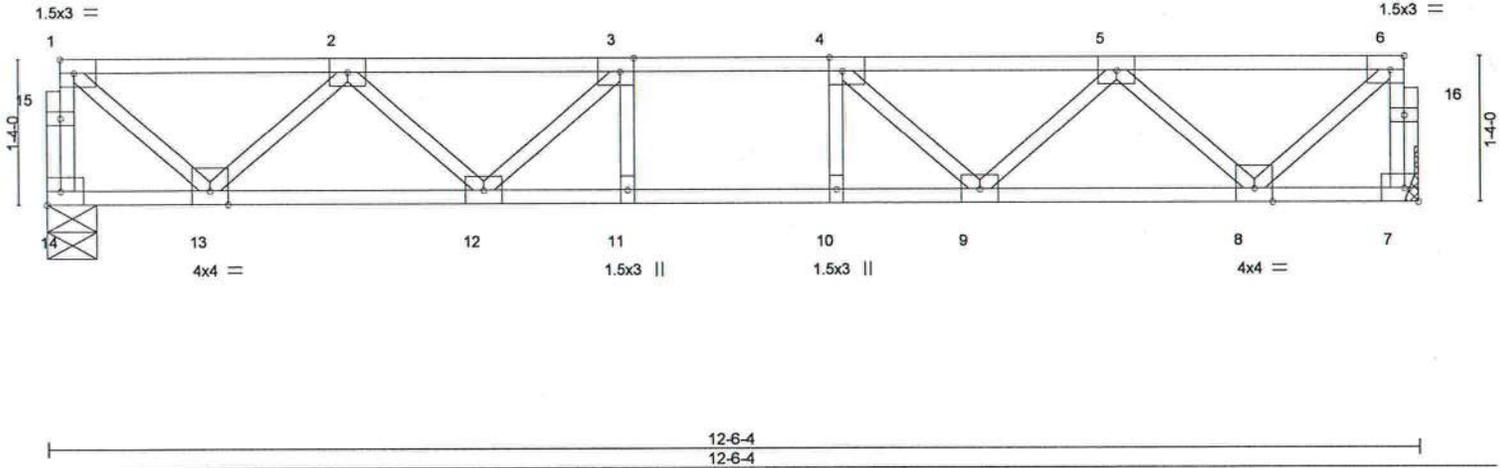
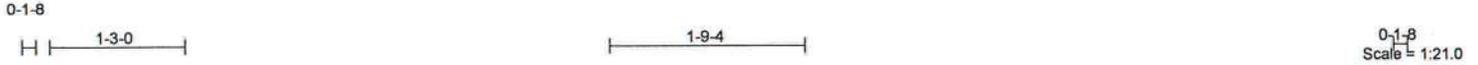


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.41	Vert(LL)	-0.08 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.70	Vert(CT)	-0.10 11-12	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.02 7	n/a	n/a		
BCDL 5.0	Code	FBC2017/TPI2014	Matrix-S					Weight: 66 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>	
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)		

**REACTIONS.** (lb/size) 14=669/0-5-8, 7=669/Mechanical

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-14=-664/0, 6-7=-664/0, 1-2=-645/0, 2-3=-1456/0, 3-4=-1698/0, 4-5=-1456/0, 5-6=-645/0  
BOT CHORD 12-13=0/1204, 11-12=0/1698, 10-11=0/1698, 9-10=0/1698, 8-9=0/1204  
WEBS 1-13=0/830, 2-13=-778/0, 2-12=0/369, 3-12=-433/0, 6-8=0/830, 5-8=-778/0, 5-9=0/369, 4-9=-433/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x4 MT20 unless otherwise indicated.
  - 3) Refer to girder(s) for truss to truss connections.
  - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

April 12, 2019

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6904 Parke East Blvd.  
Tampa, FL 33610

Job 1719993	Truss F03	Truss Type Floor Supported Gable	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774673
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:40 2019 Page 1  
ID:0ehRiBvXB1YhYwkocCGTf5zS55f-ett?h8vP7N\_YT16JEAbdOJxHPXp9JvlzFsscClzRUeH

0-1-8

0-1-8

Scale = 1:25.4

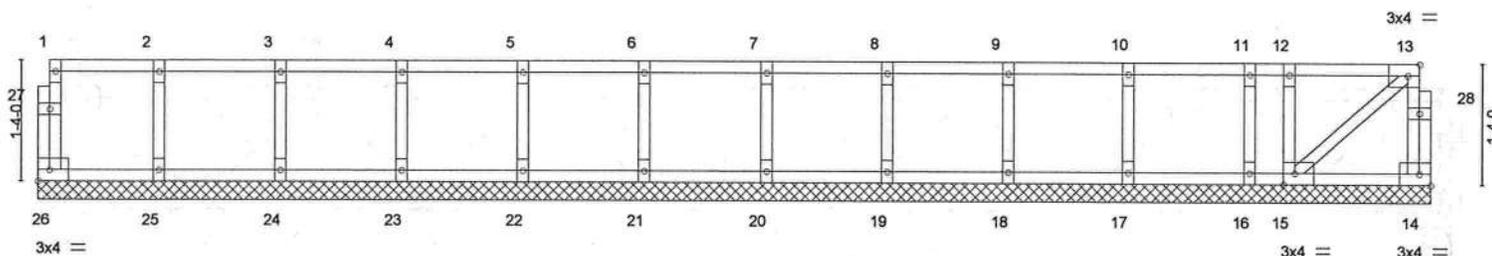


Plate Offsets (X,Y)--	[13:0-1-8,Edge], [15:0-1-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 71 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** All bearings 15-4-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Date:

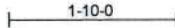
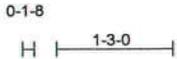
April 12, 2019

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b> 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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	 6904 Parke East Blvd. Tampa, FL 36610
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Job 1719993	Truss F04	Truss Type Floor	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774674
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:41 2019 Page 1  
ID:0ehRIBvXB1YhYwkokCGTf5zS55f-63QNvUw1uh6P5BhVou6sxXTL8xz92F37TWc9kzRUeG



0-1-8  
Scale = 1:25.1

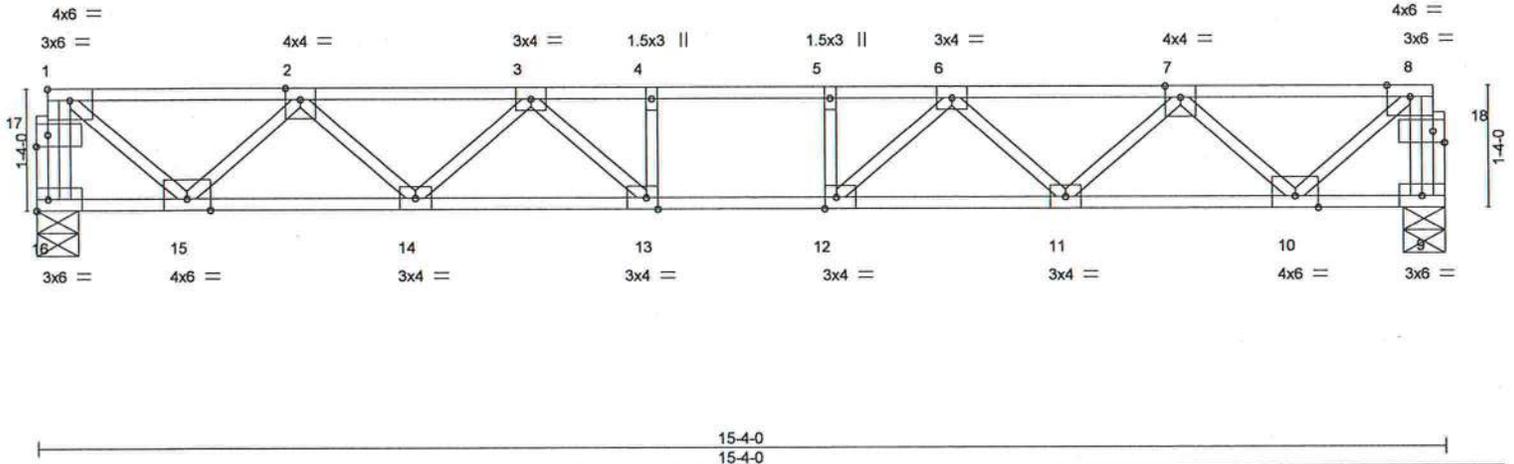


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,0-1-8], [18:0-1-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.54	Vert(LL)	-0.14 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.79	Vert(CT)	-0.19 13-14	>944	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.04 9	n/a	n/a		
BCDL 5.0	Code	FBC2017/TPI2014	Matrix-S					Weight: 82 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** (lb/size) 16=817/0-5-8, 9=817/0-5-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-16=-814/0, 8-9=-814/0, 1-2=-887/0, 2-3=-1993/0, 3-4=-2558/0, 4-5=-2558/0, 5-6=-2558/0, 6-7=-1993/0, 7-8=-887/0  
 BOT CHORD 14-15=0/1596, 13-14=0/2363, 12-13=0/2558, 11-12=0/2363, 10-11=0/1596  
 WEBS 1-15=0/1070, 2-15=-986/0, 2-14=0/552, 3-14=-514/0, 3-13=-24/506, 4-13=-252/0, 8-10=0/1070, 7-10=-986/0, 7-11=0/552, 6-11=-514/0, 6-12=-24/506, 5-12=-252/0

**NOTES-**  
 1) Unbalanced floor live loads have been considered for this design.  
 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

April 12, 2019

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss F05	Truss Type Floor	Qty 2	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774675
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MITek Industries, Inc. Fri Apr 12 10:27:41 2019 Page 1  
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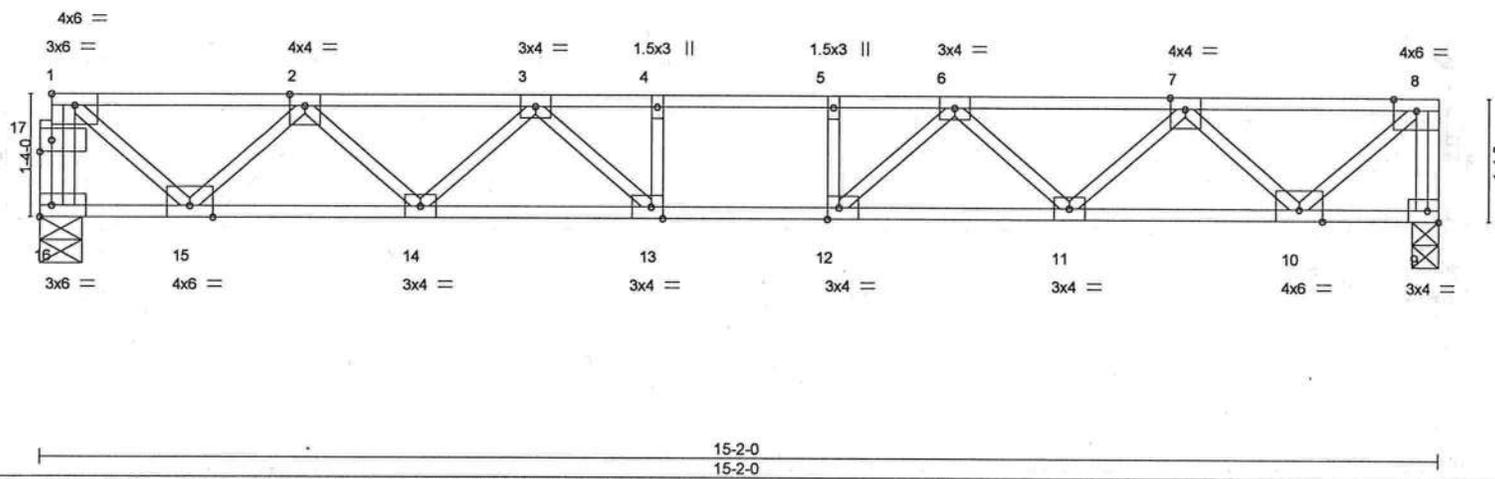
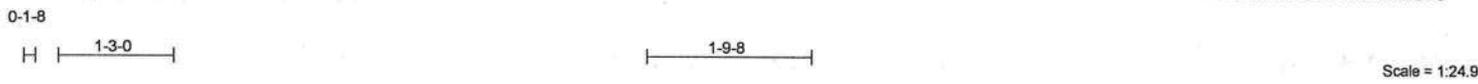


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.54	Vert(LL) -0.14 13-14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.19 13-14 >955 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.04 9 n/a n/a		
BCDL 5.0	Code FBC2017/TPI2014	Matrix-S			
				Weight: 81 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 16=808/0-5-8, 9=820/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 1-16=-805/0, 8-9=-814/0, 1-2=-876/0, 2-3=-1964/0, 3-4=-2502/0, 4-5=-2502/0, 5-6=-2502/0, 6-7=-1923/0, 7-8=-808/0  
**BOT CHORD** 14-15=0/1575, 13-14=0/2323, 12-13=0/2502, 11-12=0/2298, 10-11=0/1521  
**WEBS** 1-15=0/1056, 2-15=-973/0, 2-14=0/540, 3-14=-500/0, 3-13=-36/485, 8-10=0/1076, 7-10=-992/0, 7-11=0/558, 6-11=-522/0, 6-12=-12/508, 5-12=-252/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 3) CAUTION, Do not erect truss backwards.



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

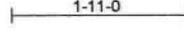
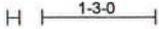
April 12, 2019

Job 1719993	Truss F06	Truss Type Floor	Qty 4	Ply 1	Lot 49 The Oaks / Waller T16774676
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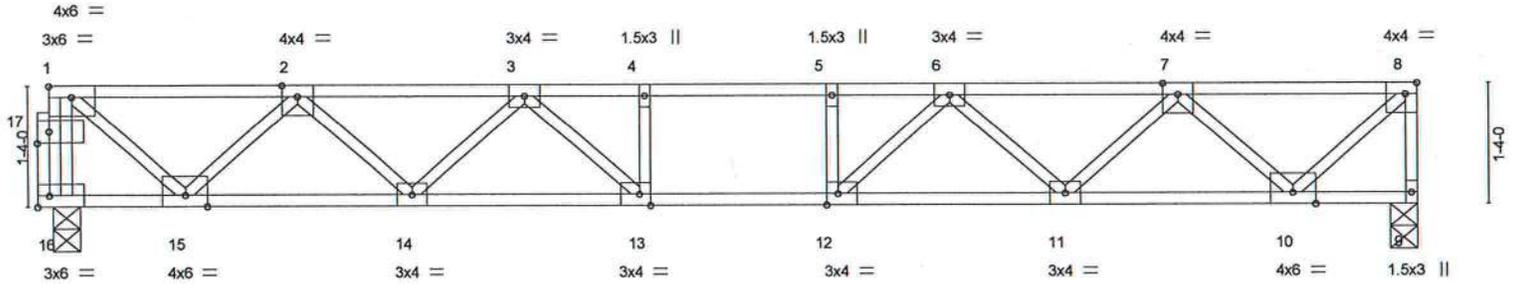
Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:42 2019 Page 1  
ID:0ehRIBvXB1YhYwkokCGTf5zS55f-aG\_l6qxf\_EGjKGiMb5Uk0WNLJdnlGiAljHBzRUeF

0-1-8



Scale = 1:25.3



0-2-0 15-2-0  
0-2-0 15-0-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.57	Vert(LL)	-0.15 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.20 13-14	>918	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.04 9	n/a	n/a		
BCDL 5.0	Code	FBC2017/TPI2014	Matrix-S						
								Weight: 79 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** (lb/size) 16=814/0-3-8, 9=820/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-16=-808/0, 8-9=-815/0, 1-2=-842/0, 2-3=-1944/0, 3-4=-2500/0, 4-5=-2500/0, 5-6=-2500/0, 6-7=-1901/0, 7-8=-775/0  
BOT CHORD 14-15=0/1549, 13-14=0/2310, 12-13=0/2500, 11-12=0/2285, 10-11=0/1492  
WEBS 1-15=0/1065, 2-15=-983/0, 2-14=0/550, 3-14=-509/0, 3-13=-23/501, 4-13=-252/0, 8-10=0/1053, 7-10=-998/0, 7-11=0/569, 6-11=-533/0, 6-12=-0/525, 5-12=-262/0

**NOTES-**  
1) Unbalanced floor live loads have been considered for this design.  
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
3) CAUTION, Do not erect truss backwards.



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Date:

April 12, 2019

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Tampa, FL 33610

Job 1719993	Truss F07	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774677
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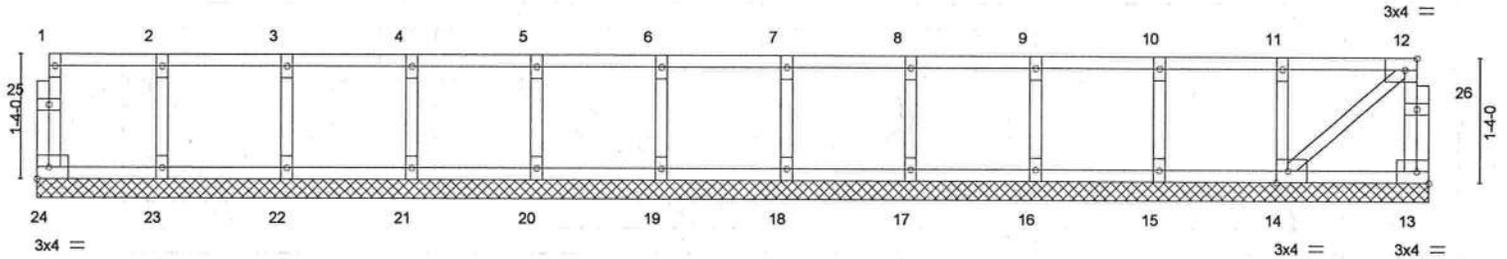
Buildiers FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:42 2019 Page 1  
ID:0ehRIBvXB1YhYwkokCGTf5zS55f-aG\_l6qxf\_EGjKGIbd5Uk0drLVdnpjGiAljHBzRUeF

0-1-8

0-1-8

Scale = 1:24.6



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	13-4-8	14-10-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-0-8	1-6-0
Plate Offsets (X,Y)-- [12:0-1-8,Edge], [14:0-1-8,Edge]											

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	13	n/a	n/a		
BCDL 5.0	Code FBC2017/TPI2014		Matrix-S						Weight: 68 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** All bearings 14-10-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

April 12, 2019

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 1719993	Truss F08	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774678
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:43 2019 Page 1  
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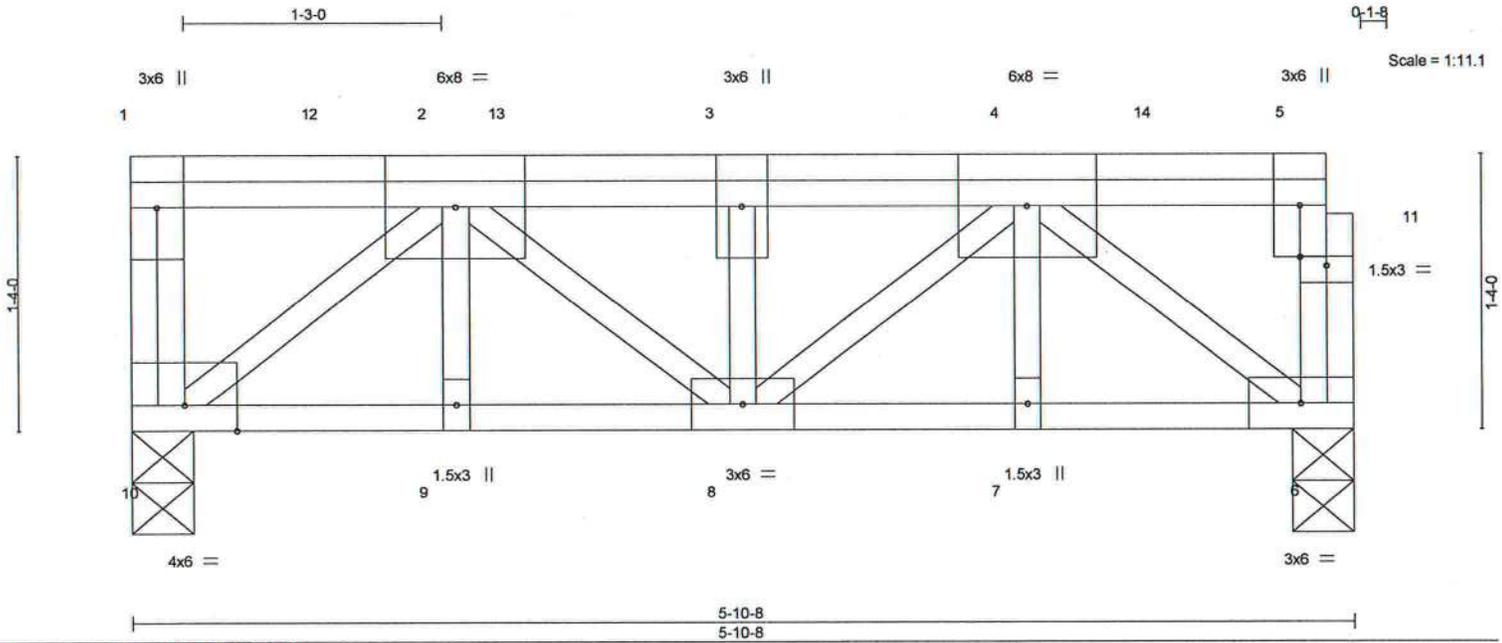


Plate Offsets (X,Y)-- [11:0-1-8,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	-0.02	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.39	Vert(CT)	-0.02	8	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.01	6	n/a		
BCDL 5.0	Code	FBC2017/TPI2014	Matrix-P						
								Weight 45 lb	FT = 20%F, 11%E

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 10=1261/0-3-8, 6=1215/0-3-8

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-255/0, 5-6=-303/0, 2-3=-1523/0, 3-4=-1523/0  
BOT CHORD 9-10=0/1248, 8-9=0/1248, 7-8=0/1148, 6-7=0/1148  
WEBS 2-10=-1596/0, 2-8=0/358, 3-8=-521/0, 4-6=-1447/0, 4-8=0/488

**NOTES-**

- 1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 2) CAUTION, Do not erect truss backwards.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down at 1-0-0, 575 lb down at 1-0-0, 64 lb down at 1-10-12, and 569 lb down at 3-0-0, and 584 lb down at 5-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 4) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 6-10=-10, 1-5=-100  
Concentrated Loads (lb)  
Vert: 3=-569(F) 12=-646(F=-575, B=-71) 13=-64(B) 14=-584(F)



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Date:

April 12, 2019

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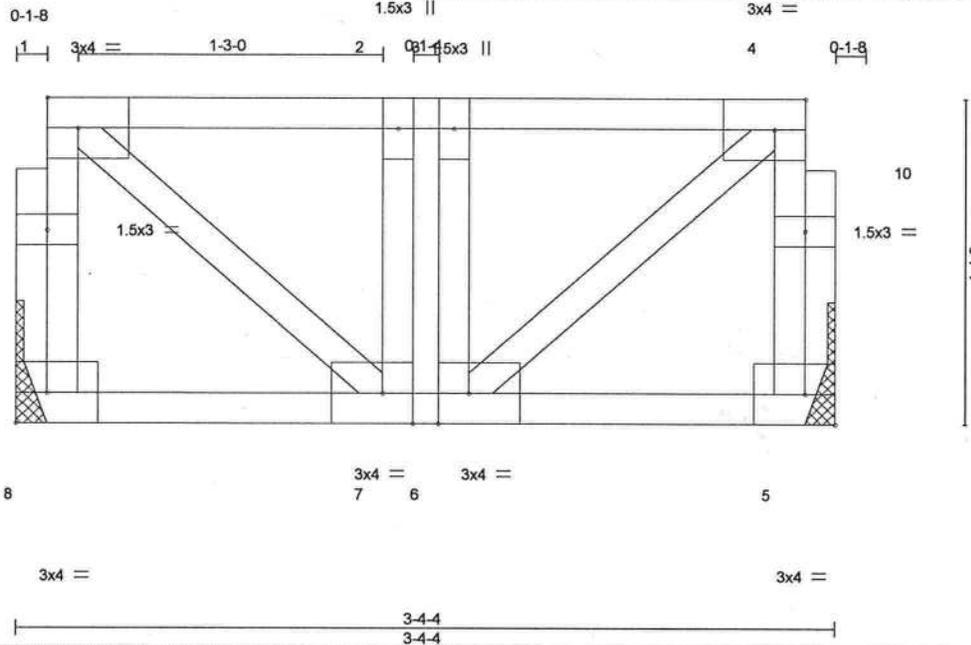
Job 1719993	Truss F09	Truss Type FLOOR	Qty 2	Ply 1	Lot 49 The Oaks / Waller T16774679
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Buiders FirstSource, Lake City, FL

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Job Reference (optional)



Scale = 1:9.4

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.10	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.05	Vert(CT)	-0.00	7	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code	FBC2017/TPI2014	Matrix-S						Weight: 24 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** (lb/size) 8=164/Mechanical, 5=164/Mechanical

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

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Refer to girder(s) for truss to truss connections.
  - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Job 1719993	Truss HJ8	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774680
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8.240 s Dec 6 2018 MITek Industries, Inc. Fri Apr 12 10:27:44 2019 Page 1  
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Scale = 1:19.6

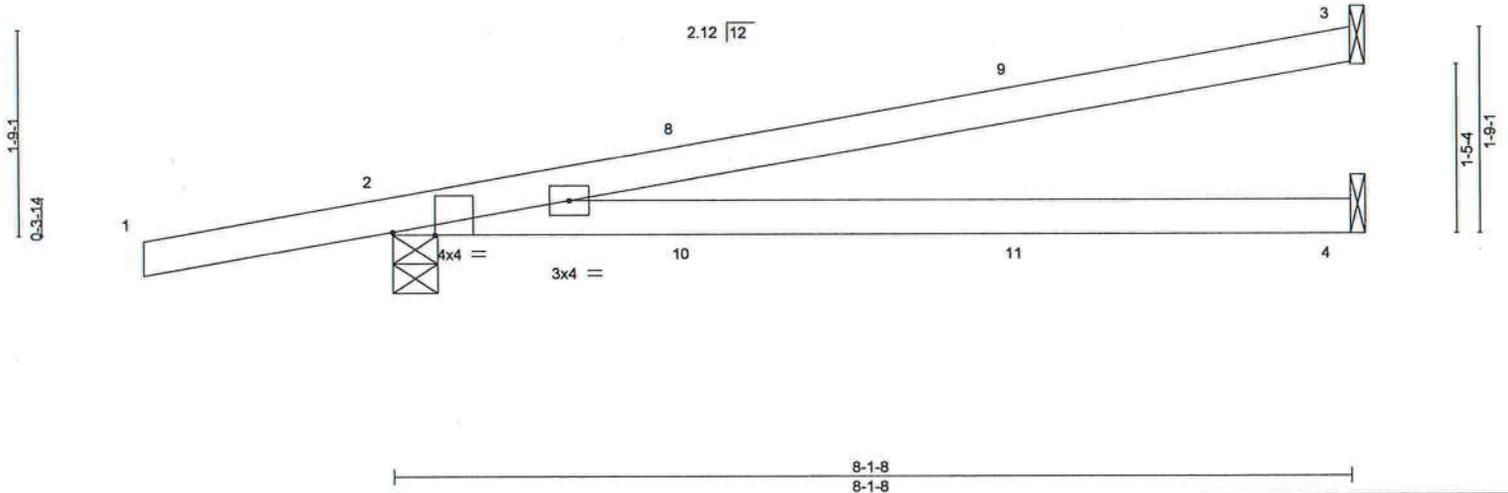


Plate Offsets (X,Y)-- [2:0-4-5,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.97	Vert(LL)	0.28	4-7	>351	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.42	4-7	>230	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MP							
									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 or 5-7-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=194/Mechanical, 2=440/0-4-9, 4=117/Mechanical  
Max Horz 2=53(LC 4)  
Max Uplift 3=-76(LC 4), 2=-206(LC 4), 4=-58(LC 4)  
Max Grav 3=194(LC 1), 2=440(LC 1), 4=149(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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); 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 76 lb uplift at joint 3, 206 lb uplift at joint 2 and 58 lb uplift at joint 4.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 11 lb down and 11 lb up at 2-6-11, 11 lb down and 11 lb up at 2-6-11, and 30 lb down and 36 lb up at 5-4-10, and 30 lb down and 36 lb up at 5-4-10 on top chord, and 31 lb down and 12 lb up at 2-6-11, 31 lb down and 12 lb up at 2-6-11, and 26 lb down and 33 lb up at 5-4-10, and 26 lb down and 33 lb up at 5-4-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 4-5=-20  
Concentrated Loads (lb)  
Vert: 9=-12(F=-6, B=-6) 10=2(F=1, B=1) 11=-30(F=-15, B=-15)



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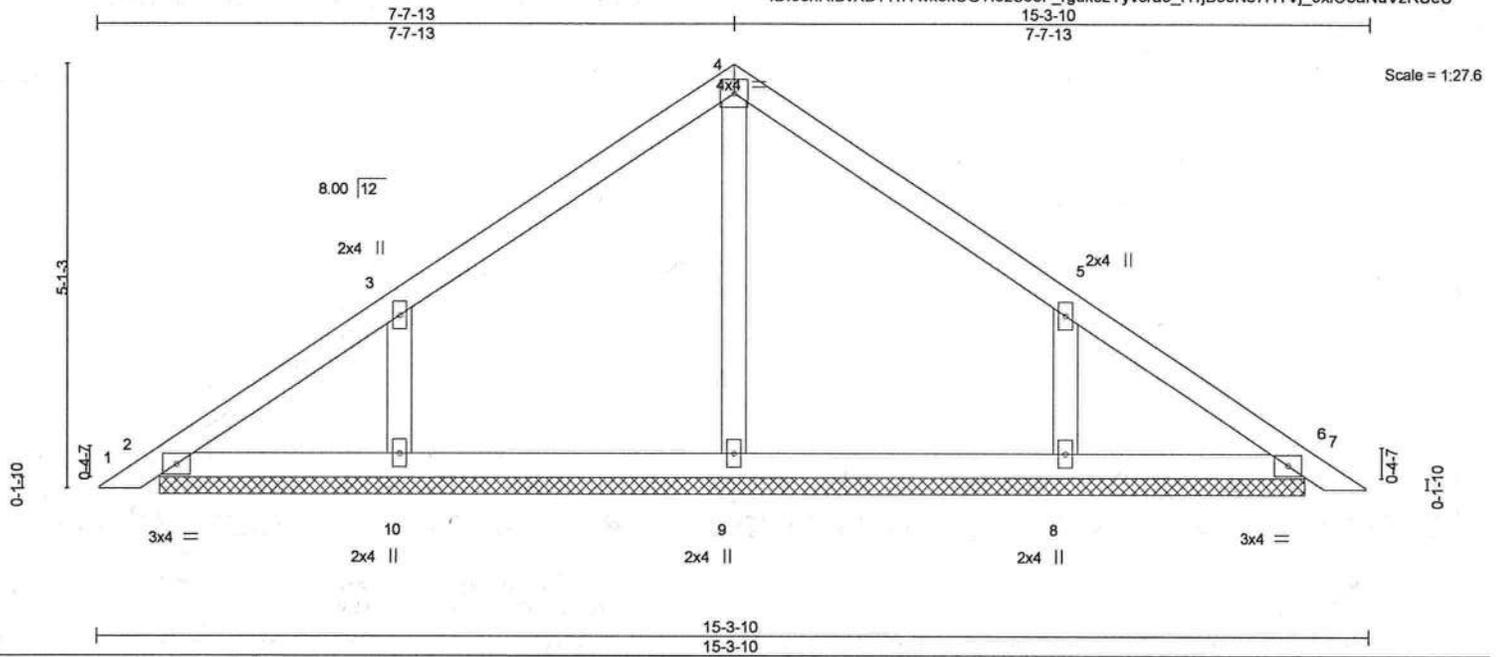


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Job 1719993	Truss PB1	Truss Type Piggyback	Qty 6	Ply 1	Lot 49 The Oaks / Waller T16774681
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.15	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	6	n/a	n/a		
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.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 13-9-6.  
(lb) - Max Horz 2=-97(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-103(LC 12), 8=-103(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=310(LC 19), 8=309(LC 20)

**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=23ft; Cat. II; Exp B; 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) 2, 6 except (jt=lb) 10=103, 8=103.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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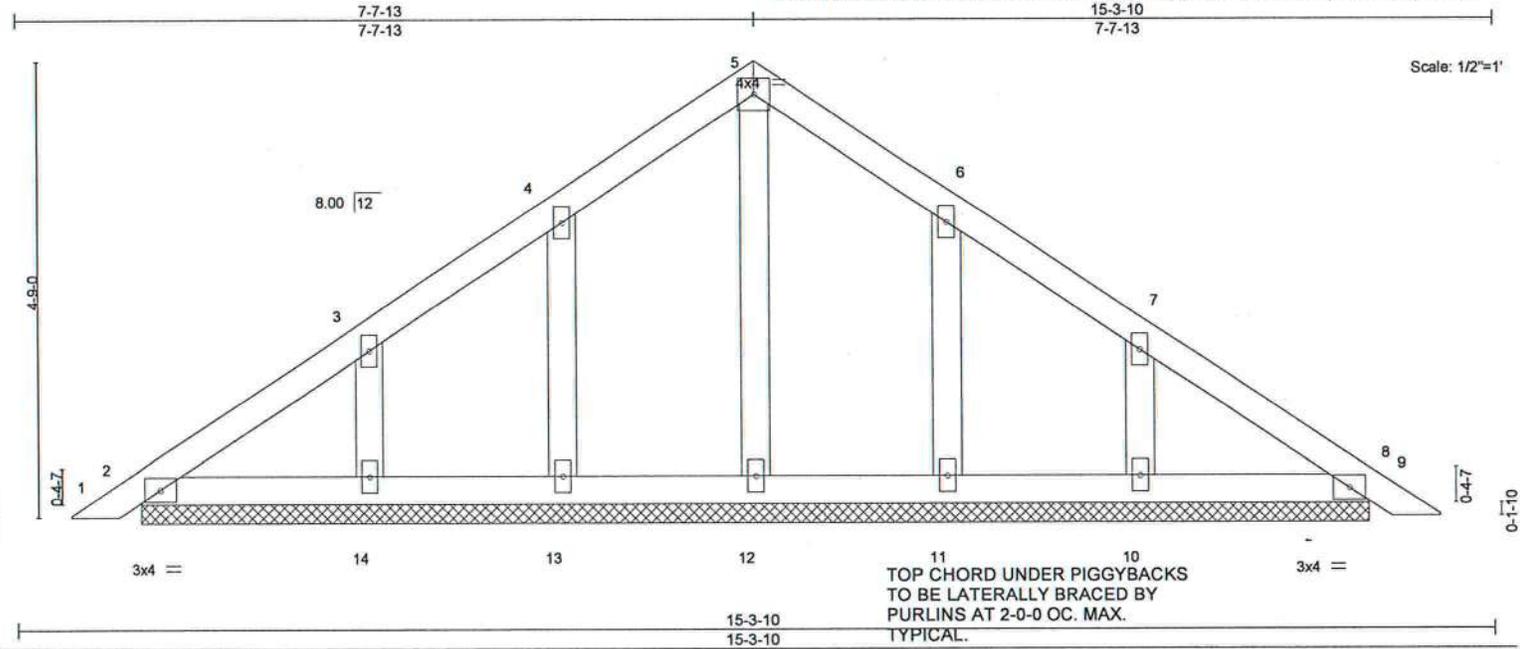


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Job 1719993	Truss PB1G	Truss Type GABLE	Qty 1	Ply 2	Lot 49 The Oaks / Waller T16774682
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Builders FirstSource, Lake City, FL

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.02	Vert(LL) 0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Vert(CT) 0.00 8 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code FBC2017/TPI2014			Weight: 125 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 12-8-13.  
(lb) - Max Horz 2=113(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 11 except 14=-104(LC 12), 10=-104(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- 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: 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; BCCL=3.0psf, h=23ft; Cat. II; Exp B; 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/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - 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) 2, 8, 13, 11 except (it=lb) 14=104, 10=104.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job 1719993	Truss PB2	Truss Type Piggyback	Qty 1	Ply 1	Lot 49 The Oaks / Waller	T16774683
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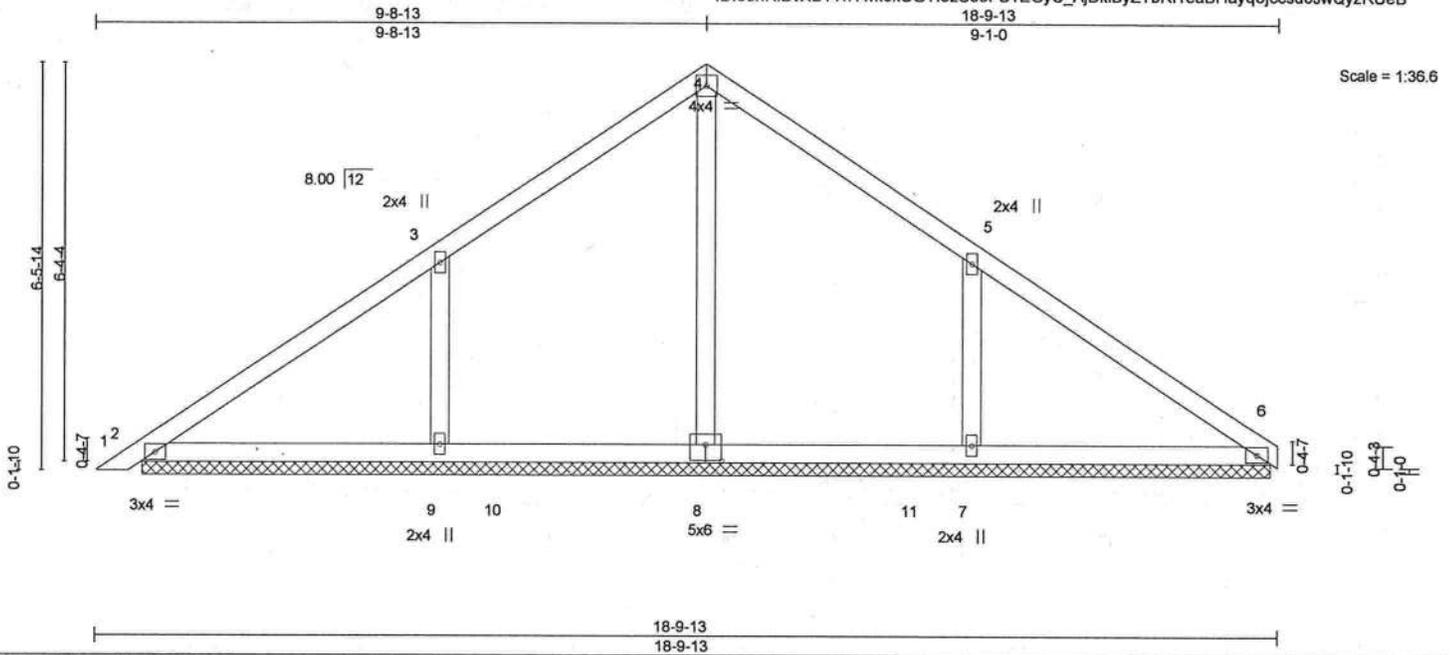


Plate Offsets (X,Y) - [8:0-3-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S					Weight: 78 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 17-11-6.  
 (lb) - Max Horz 2=123(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 9=135(LC 12), 7=136(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 8=349(LC 19), 9=448(LC 19), 7=449(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-9=-303/226, 5-7=-305/230

- 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=23ft; Cat. II; Exp B; 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, 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) 2, 6 except (jt=lb) 9=135, 7=136.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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April 12, 2019

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss PB2G	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774684
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MITek Industries, Inc. Fri Apr 12 10:27:47 2019 Page 1

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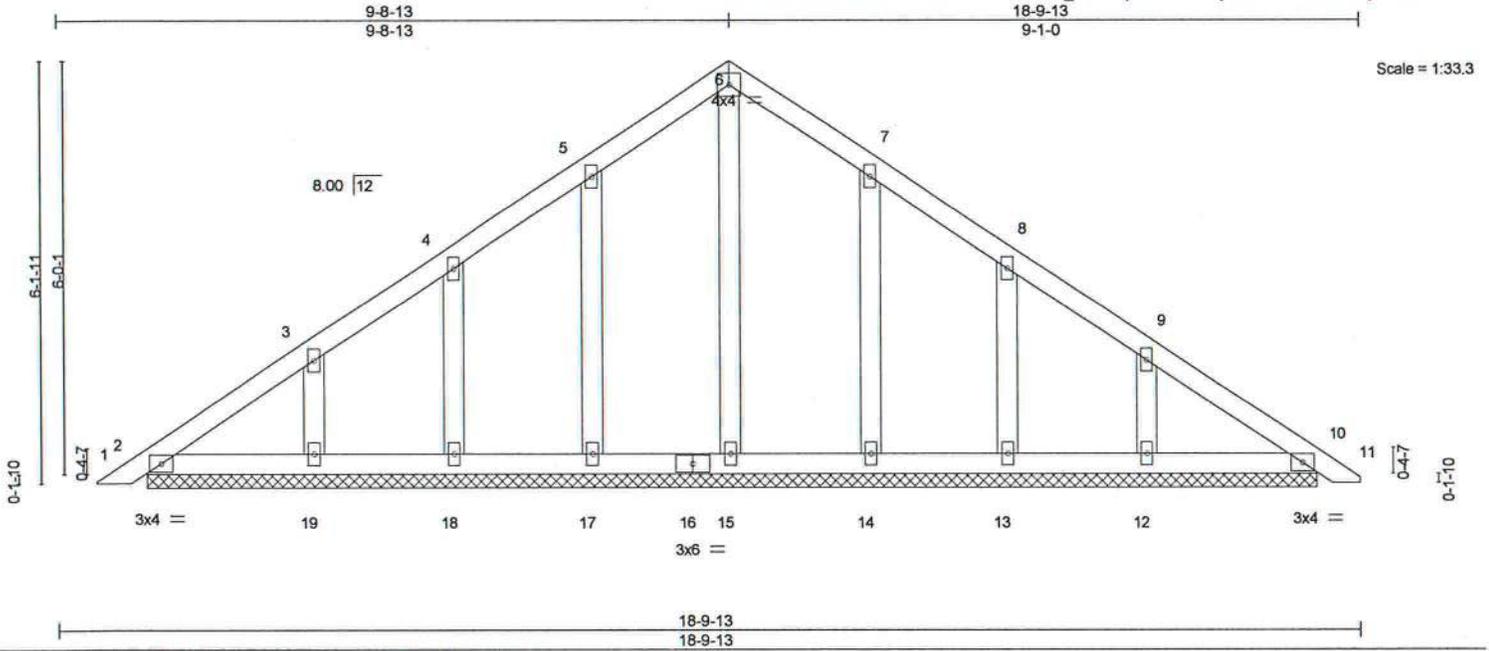


Plate Offsets (X,Y)-- [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S						Weight: 91 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 16-10-13.  
(lb) - Max Horz 2=147(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 18, 14, 13, 10 except 19=108(LC 12), 12=108(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 17, 18, 19, 14, 13, 12, 10

**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; TCCL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; 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/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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) 2, 17, 18, 14, 13, 10 except (jt=lb) 19=108, 12=108.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

April 12, 2019

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Tampa, FL 36610

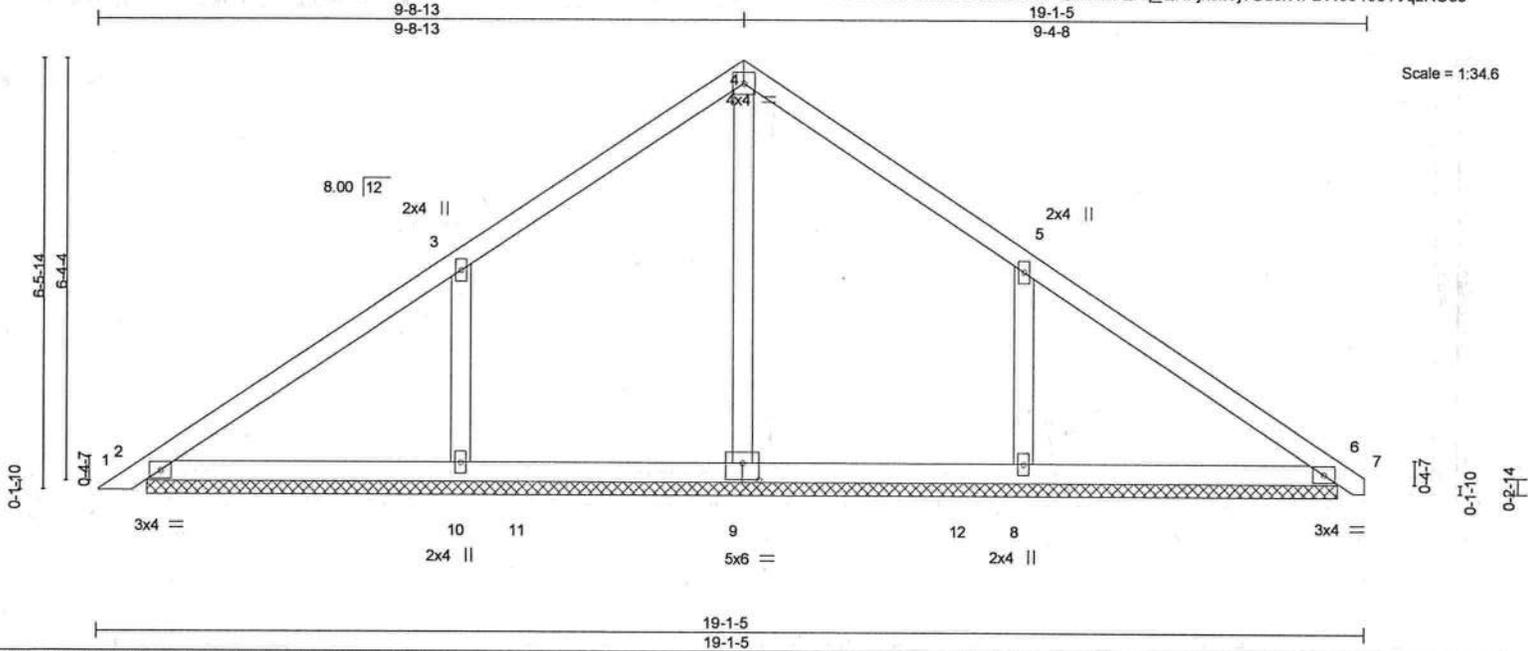
Job 1719993	Truss PB3	Truss Type Piggyback	Qty 16	Ply 1	Lot 49 The Oaks / Waller T16774685
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:48 2019 Page 1

ID:0ehRIBvXB1YhYwkokCGTf5zS55f-PQM1N?QFq\_QRFriskV?Gd8IWF5946o1VqzRUe9

Job Reference (optional)



Scale = 1:34.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.24	Vert(LL) 0.00	7	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.19	Vert(CT) 0.01	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S					Weight: 78 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-11-6.  
 (lb) - Max Horz 2=124(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=135(LC 12), 8=136(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=350(LC 19), 10=448(LC 19), 8=448(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-10=-303/226, 5-8=-302/227

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 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) 2, 6 except (j=l)b 10=135, 8=136.
  - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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 Date:

April 12, 2019

Job 1719993	Truss PB4	Truss Type Piggyback	Qty 2	Ply 1	Lot 49 The Oaks / Waller T16774686
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Builders FirstSource, Lake City, FL

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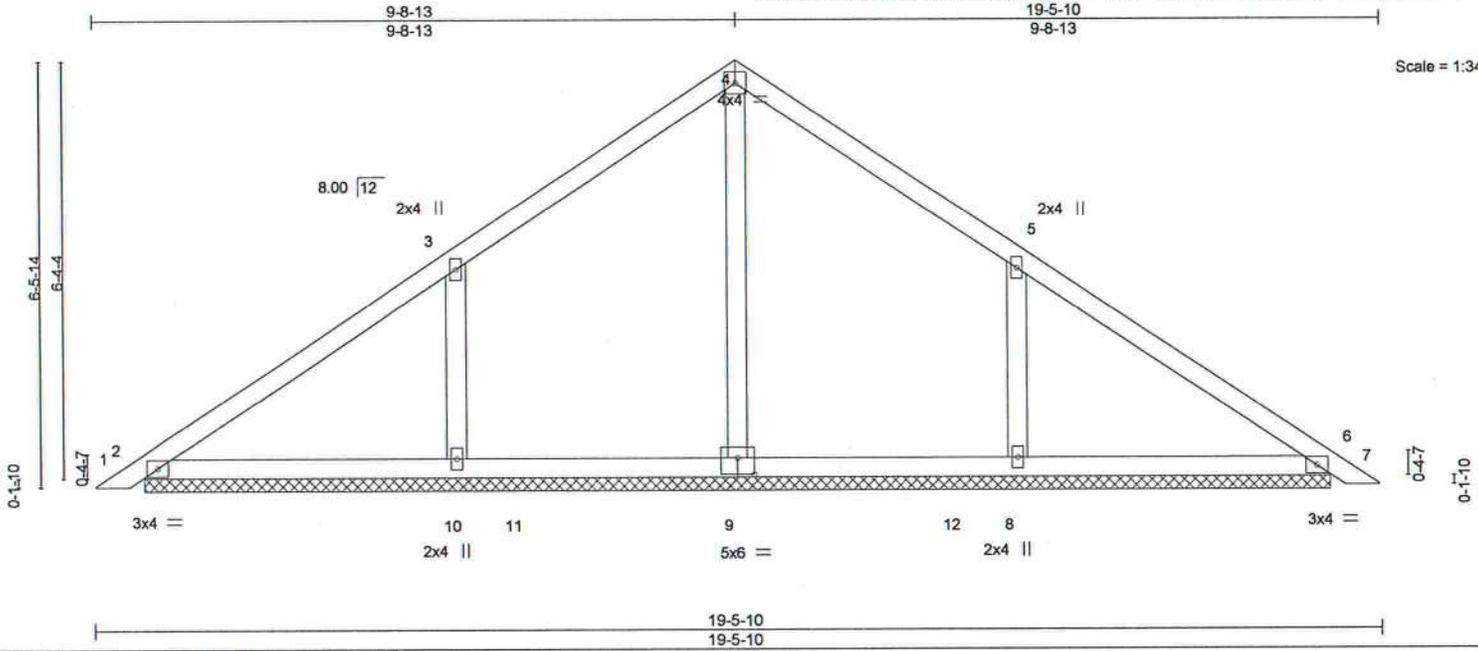


Plate Offsets (X,Y)-- [9:0-3-0,0-3-0]

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 0.24	Vert(LL)	0.01	7	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	0.01	7	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S						
								Weight: 79 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 17-11-6.  
 (lb) - Max Horz 2=125(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=135(LC 12), 8=135(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=350(LC 19), 10=448(LC 19), 8=447(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-10=303/226, 5-8=303/226

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wnd: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 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) 2, 6 except (jt=lb) 10=135, 8=135.
  - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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April 12, 2019

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss PB4G	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774687
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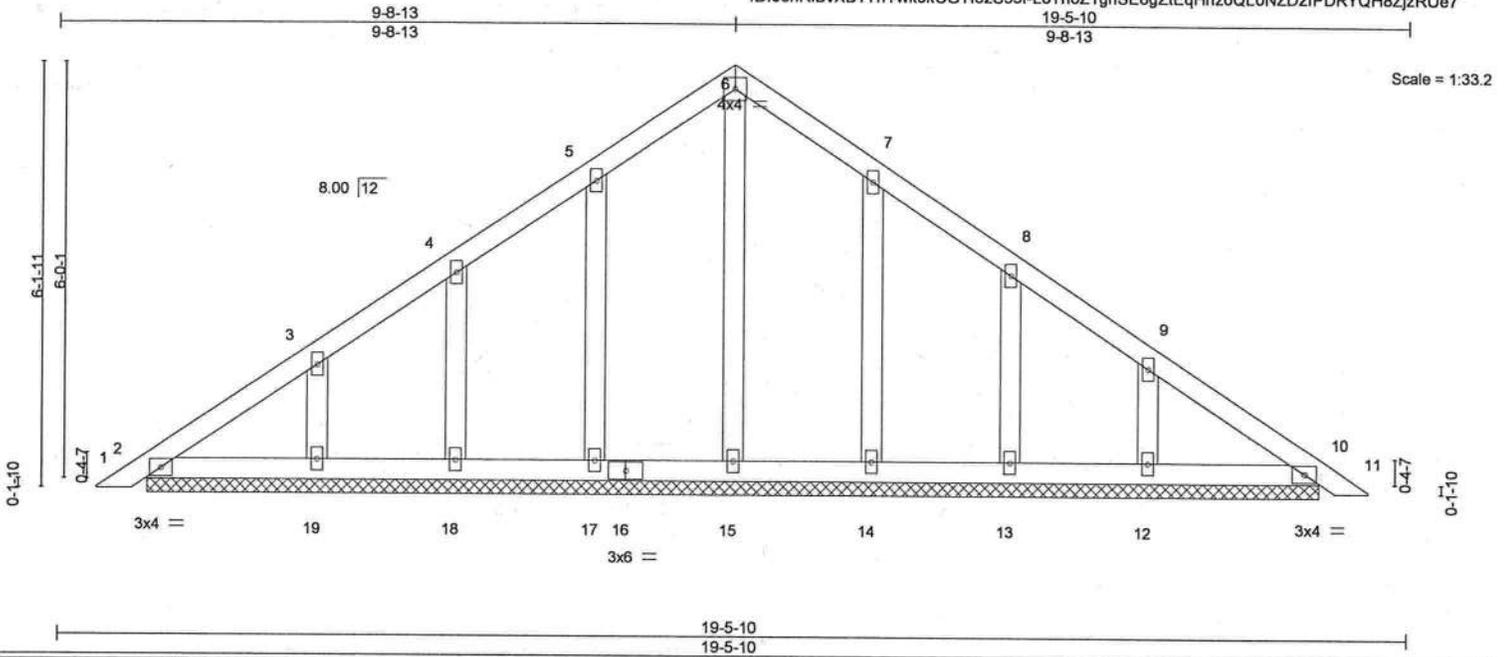
Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:50 2019 Page 1

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19-5-10

9-8-13



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	0.00 10	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00 11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 91 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 16-10-13.  
 (lb) - Max Horz 2--147(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 18, 14, 13, 10 except 19--108(LC 12), 12--107(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 15, 17, 18, 19, 14, 13, 12, 10

**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=23ft; Cat. II; Exp B; 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/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - 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) 2, 17, 18, 14, 13, 10 except (jt=lb) 19=108, 12=107.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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 Date:

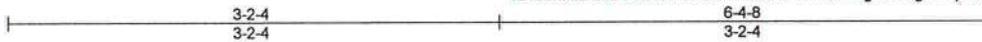
April 12, 2019

Job 1719993	Truss PB5	Truss Type Piggyback	Qty 7	Ply 1	Lot 49 The Oaks / Waller T16774688
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Builders FirstSource, Lake City, FL

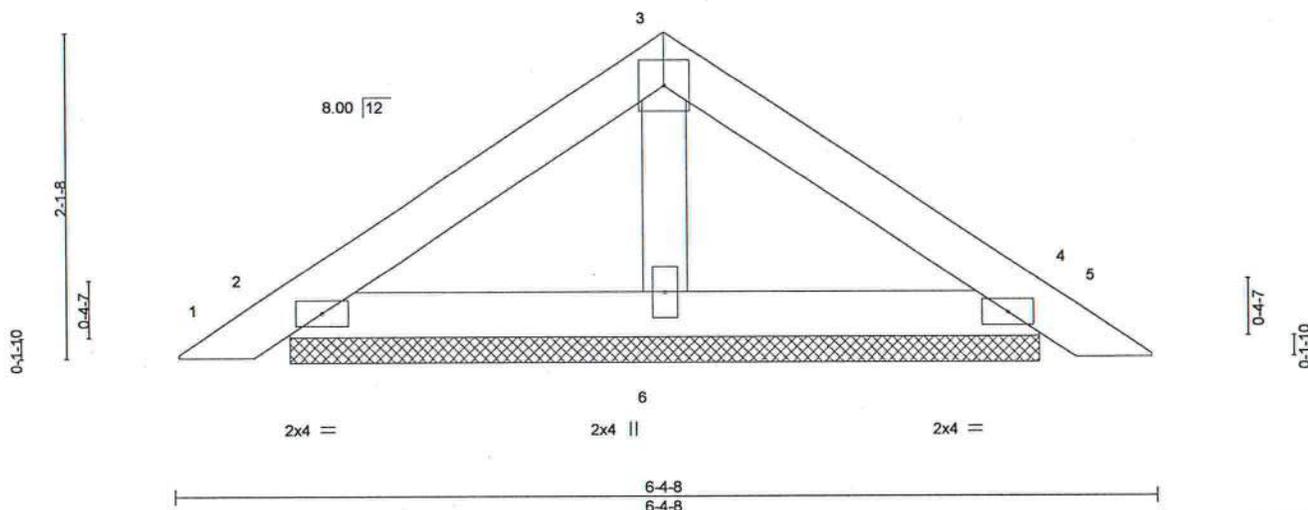
8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:50 2019 Page 1

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4x4 =

Scale = 1:15.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-P						Weight: 21 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) 2=125/4-10-4, 4=125/4-10-4, 6=162/4-10-4  
Max Horz 2=-38(LC 10)  
Max Uplift 2=-27(LC 12), 4=-31(LC 13), 6=-2(LC 12)

**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=23ft; Cat. II; Exp B; 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) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

April 12, 2019

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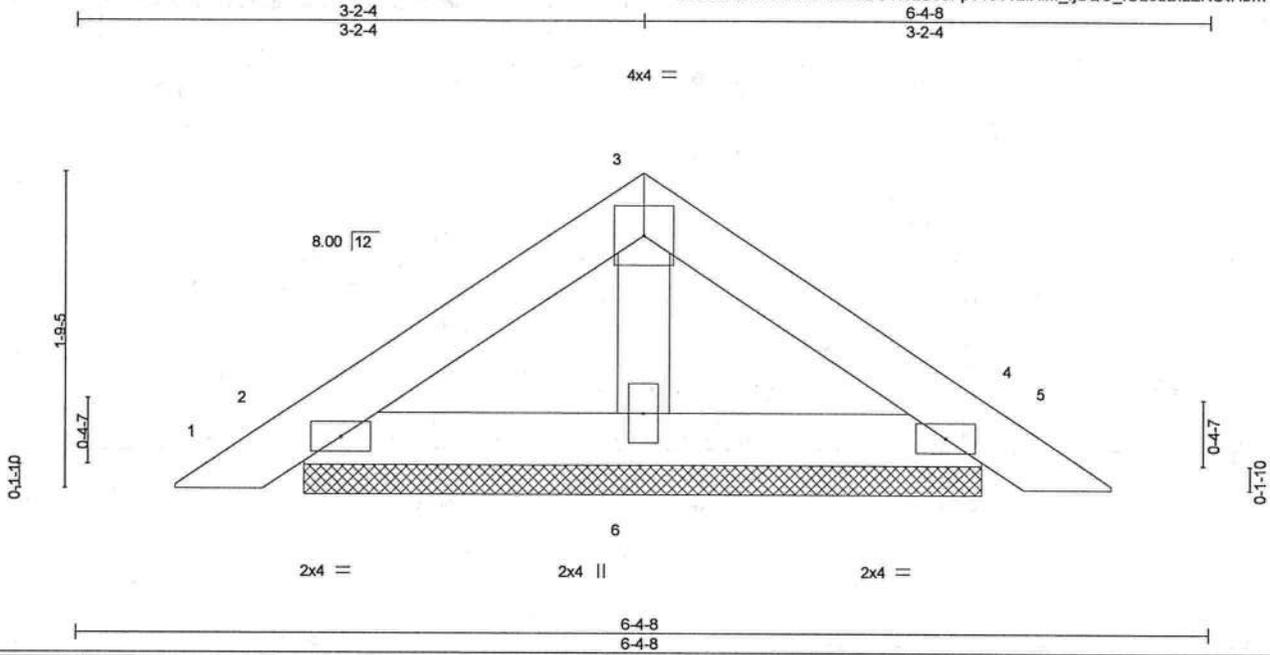


6904 Parke East Blvd.  
Tampa, FL 36610

Job 1719993	Truss PB5G	Truss Type Piggyback	Qty 1	Ply 1	Lot 49 The Oaks / Waller	T16774689
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:51 2019 Page 1  
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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 0.05	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-P					Weight: 17 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) 2=104/3-9-11, 4=104/3-9-11, 6=125/3-9-11  
 Max Horz 2=39(LC 11)  
 Max Uplift 2=-41(LC 12), 4=-46(LC 13), 6=-12(LC 12)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

April 12, 2019

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss T01	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	Lot 49 The Oaks / Waller T16774690
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Builders FirstSource, Lake City, FL

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ID:0ehRIBvXB1YhYwkokCGTf5zS55f-HBbXCF2x3Urvt1dxhpRurRBmNkg78ek7kmFebzRUe5

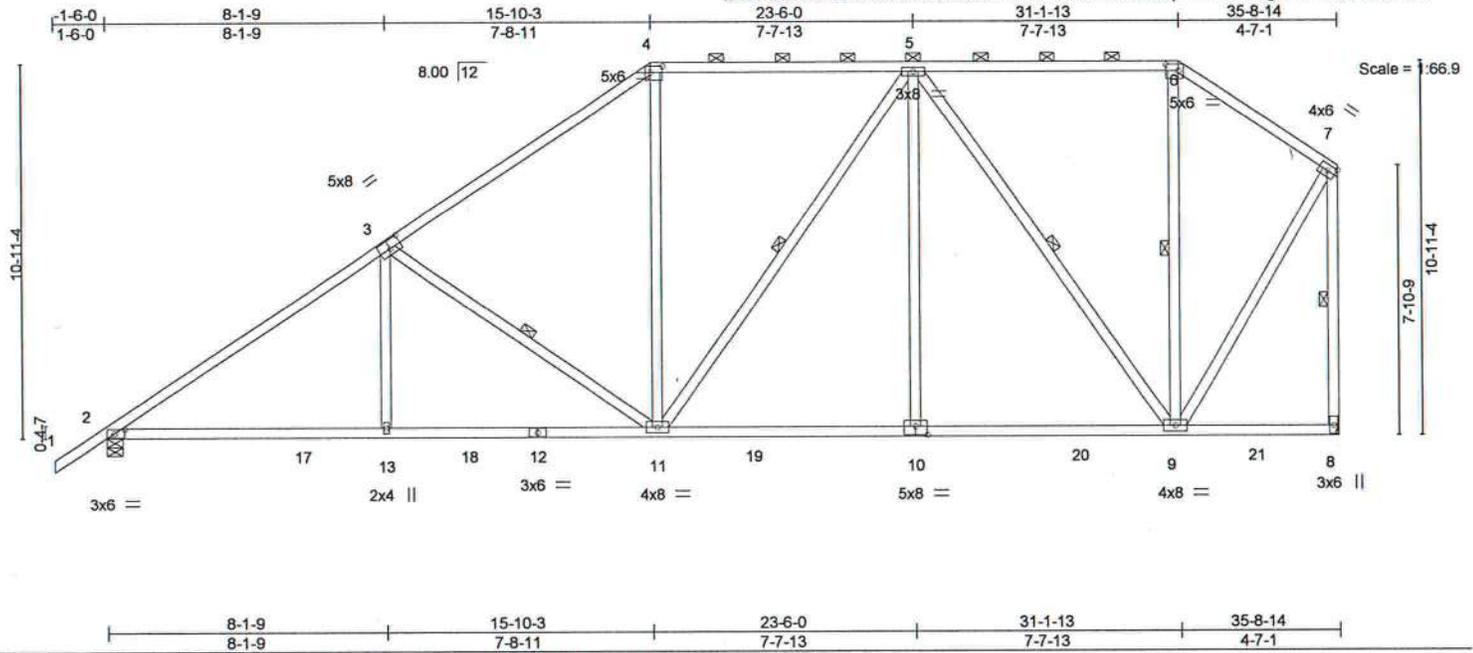


Plate Offsets (X,Y) - [2:0-3-9,0-1-8], [3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [10:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.73	Vert(LL) -0.14 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.78	Vert(CT) -0.25 13-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 8 n/a n/a		
	Code FBC2017/TPI2014			Weight 245 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 5-11,5-9: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-11 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing.  
 WEBS 1 Row at midpt 3-11, 5-11, 5-9, 6-9, 7-8

**REACTIONS.** (lb/size) 2=1400/0-5-8, 8=1315/Mechanical  
 Max Horz 2=255(LC 12)  
 Max Uplift 2=-159(LC 12), 8=-110(LC 12)  
 Max Grav 2=1455(LC 19), 8=1424(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2102/581, 3-4=-1506/519, 4-5=-1170/500, 5-6=-547/270, 6-7=-703/264, 7-8=-1352/460  
 BOT CHORD 2-13=-650/1773, 11-13=-650/1769, 10-11=-354/1124, 9-10=-354/1124  
 WEBS 3-13=0/344, 3-11=-739/319, 4-11=-80/486, 5-10=0/442, 5-9=-1014/335, 7-9=-308/1052

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=159, 8=110.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 12, 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 36610

Job 1719993	Truss T01G	Truss Type GABLE	Qty 1	Ply 2	Lot 49 The Oaks / Waller	T16774691
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Builders FirstSource, Lake City, FL

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ID:0ehRIBvXB1YhYwkocCGTf5zS55f-Ayq22c5RMI7HOUKOAXuN2hbx8\_4E3ymKwMkSnZrUe1

Job Reference (optional)

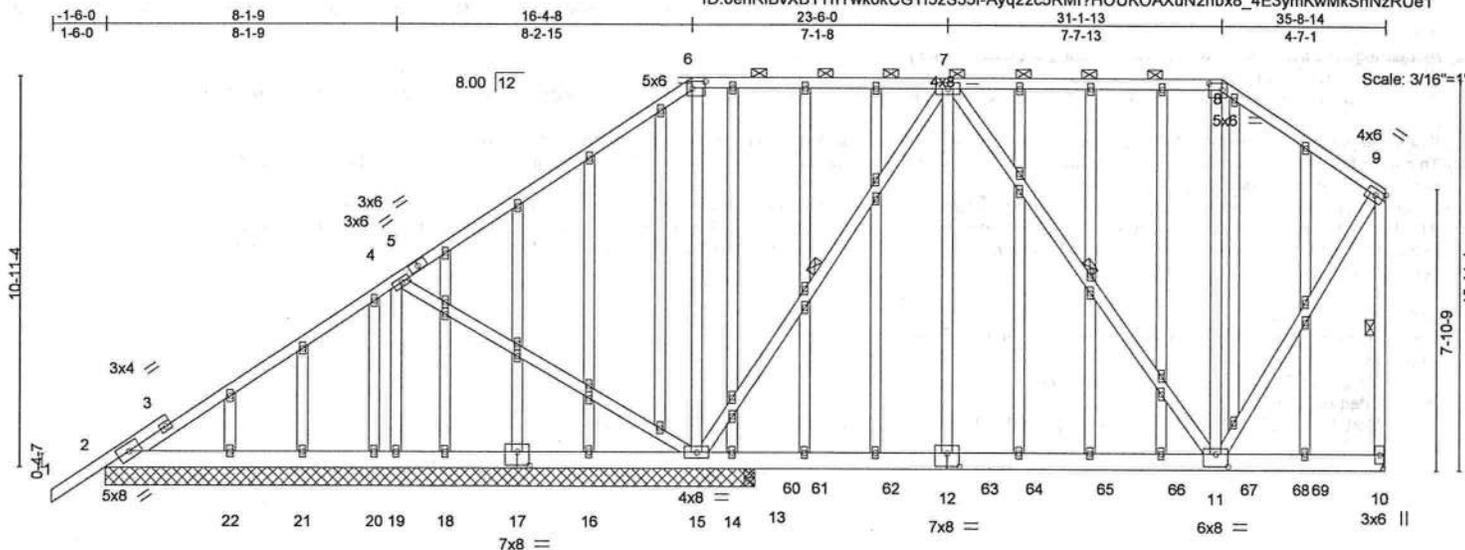


Plate Offsets (X, Y)--	[6:0-4-4,0-2-4], [8:0-4-4,0-2-4], [11:0-4-0,0-4-4], [12:0-4-0,0-4-8], [17:0-4-0,0-4-8]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	-0.10	11-12	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.20	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.83	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 897 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 18-1-8 except (jt=length) 10=Mechanical, 13=0-3-8.  
 (lb) - Max Horz 2=377(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 20 except 19=393(LC 27), 15=1010(LC 5), 10=872(LC 4), 22=109(LC 27), 21=108(LC 15), 14=1985(LC 22), 13=597(LC 4)  
 Max Grav All reactions 250 lb or less at joint(s) 21, 20, 18, 16 except 19=613(LC 15), 15=3477(LC 1), 10=3245(LC 20), 22=302(LC 15), 14=506(LC 4), 13=2413(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-180/541, 4-6=-120/600, 6-7=-48/414, 7-8=-1244/419, 8-9=-1548/450, 9-10=-2964/819  
 BOT CHORD 2-22=-356/60, 21-22=-356/60, 20-21=-356/60, 19-20=-356/60, 18-19=-356/60, 16-18=-356/60, 15-16=-356/60, 14-15=-443/1367, 13-14=-443/1367, 12-13=-443/1367, 11-12=-443/1367  
 WEBS 4-19=-669/400, 6-15=-646/219, 7-15=-3117/914, 7-12=-574/2312, 8-11=-213/588, 9-11=-672/2372

- 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: 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; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
  - Provide adequate drainage to prevent water ponding.
  - 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



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 Date: April 12, 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 ANSITPI1 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	Lot 49 The Oaks / Waller	T16774691
1719993	T01G	GABLE	1	2	Job Reference (optional)	

Buiders FirstSource, Lake City, FL

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**NOTES-**

- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Refer to girder(s) for truss to truss connections.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (j=lb) 19=393, 15=1010, 10=872, 22=109, 21=108, 14=1985, 13=597.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 642 lb down and 197 lb up at 19-11-4, 642 lb down and 197 lb up at 21-11-4, 642 lb down and 197 lb up at 23-11-4, 642 lb down and 197 lb up at 25-11-4, 642 lb down and 197 lb up at 27-11-4, 642 lb down and 197 lb up at 29-11-4, and 642 lb down and 197 lb up at 31-11-4, and 642 lb down and 178 lb up at 33-11-4 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: 1-6=-54, 6-8=-54, 8-9=-54, 10-59=-20

Concentrated Loads (lb)

Vert: 61=-642(F) 62=-642(F) 63=-642(F) 64=-642(F) 65=-642(F) 66=-642(F) 67=-642(F) 69=-642(F)

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 1719993	Truss T02	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774692
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Builders FirstSource, Lake City, FL

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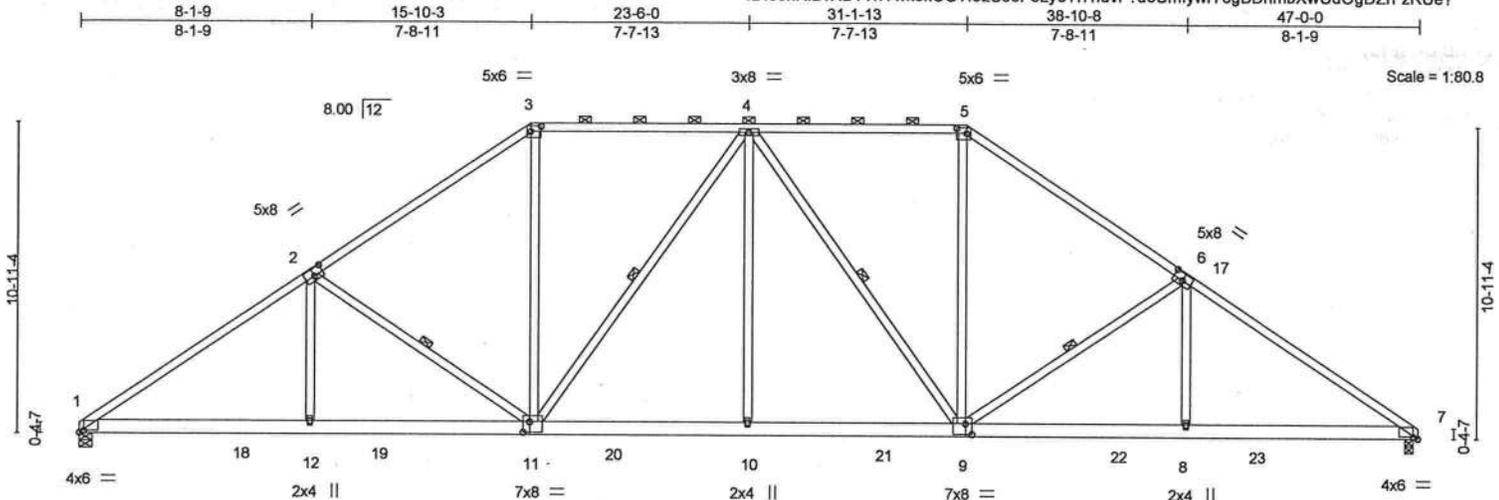


Plate Offsets (X,Y)--	[1:0-1-15,0-0-13], [2:0-4-0,0-3-0], [3:0-4-4,0-2-4], [5:0-4-4,0-2-4], [6:0-4-0,0-3-0], [7:0-1-15,0-0-13], [9:0-2-12,0-4-8], [11:0-2-12,0-4-8]
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<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.77	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.83	Vert(LL) -0.18 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.56	Vert(CT) -0.31 9-10 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.12 7 n/a n/a		
	Code FBC2017/TPI2014			Weight: 315 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1 *Except* 2-3,5-6: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins, except 2-0-0 oc purlins (4-0-1 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-5-11 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-11,4-9: 2x4 SP No.2	WEBS 1 Row at midpt 2-11, 4-11, 4-9, 6-9

**REACTIONS.** (lb/size) 1=1765/0-5-8, 7=1870/0-3-8  
 Max Horz 1=-210(LC 10)  
 Max Uplift 1=-184(LC 12), 7=-202(LC 13)  
 Max Grav 1=1815(LC 2), 7=1918(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2977/912, 2-3=-2365/835, 3-4=-1878/762, 4-5=-1909/775, 5-6=-2405/851,  
 6-7=-3138/973  
 BOT CHORD 1-12=-645/2505, 11-12=-645/2500, 10-11=-461/2164, 9-10=-461/2164, 8-9=-696/2537,  
 7-8=-696/2542  
 WEBS 2-12=0/362, 2-11=-764/330, 3-11=-253/959, 4-11=-593/176, 4-10=0/443, 4-9=-552/165,  
 5-9=-264/986, 6-9=-902/378, 6-8=0/365

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 1=184, 7=202.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 53 lb up at 39-4-0 on top 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



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 Date:

April 12, 2019

Continued on page 2

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6904 Parke East Blvd.  
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 49 The Oaks / Waller
1719993	T02	PIGGYBACK BASE	4	1	T16774692 Job Reference (optional)

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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:58 2019 Page 2  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 5-7=-54, 1-7=-20

Concentrated Loads (lb)

Vert: 17=-157(B)

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

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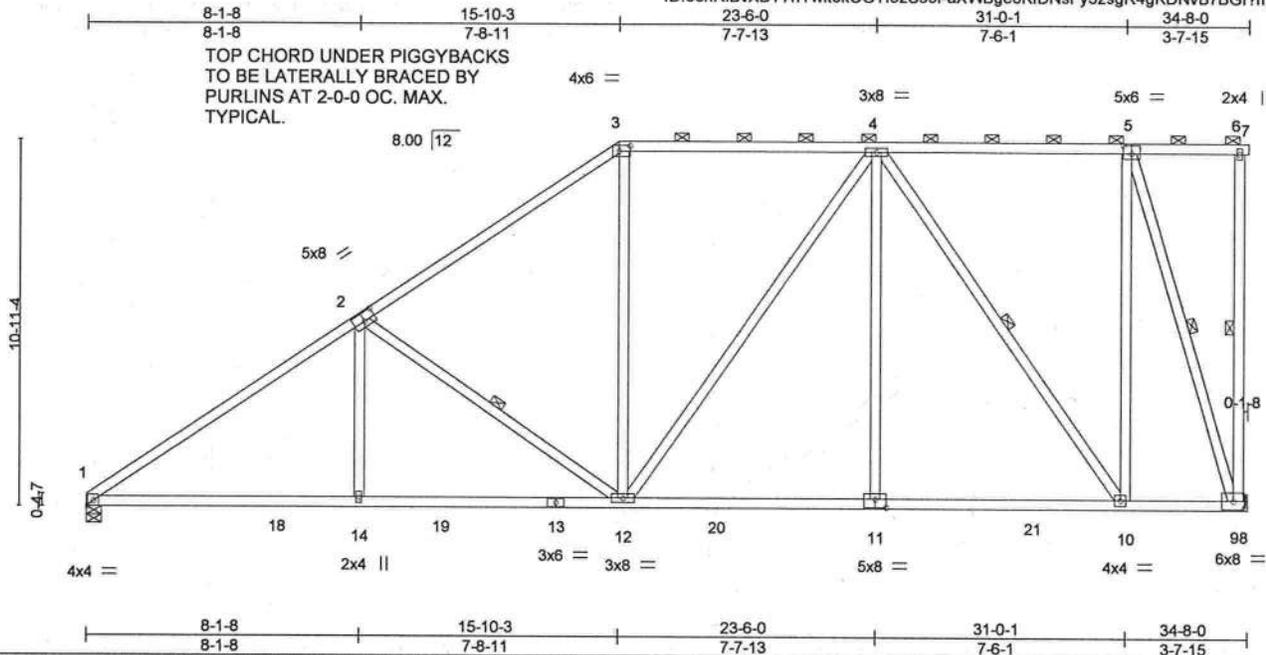
Job 1719993	Truss T03	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	Lot 49 The Oaks / Waller	T16774693
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:27:59 2019 Page 1

ID:0ehRIBvXB1YhYwkokCGTf5zS55f-aXWBge8KfDNsFy3zsgR4gKDNvB7BGi?mcKz6NhZRUe\_

Job Reference (optional)



Scale = 1:68.7

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

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 0.71	Vert(LL)	-0.14	11-12	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.27	14-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.07	9	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 245 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 4-12,4-10: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 3-7.  
 BOT CHORD Rigid ceiling directly applied or 6-8-2 oc bracing.  
 WEBS 1 Row at midpt 6-9, 2-12, 4-10, 5-9

**REACTIONS.** (lb/size) 9=1282/Mechanical, 1=1273/0-5-8  
 Max Horz 1=285(LC 12)  
 Max Uplift 9=-219(LC 9), 1=-121(LC 12)  
 Max Grav 9=1339(LC 2), 1=1339(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2039/510, 2-3=-1423/443, 3-4=-1100/436, 4-5=-411/146  
 BOT CHORD 1-14=-701/1705, 12-14=-702/1701, 11-12=-367/1018, 10-11=-367/1018, 9-10=-142/397  
 WEBS 2-14=0/346, 2-12=-750/325, 3-12=-37/437, 4-12=-121/276, 4-11=0/447, 4-10=-1053/383,  
 5-10=-271/1027, 5-9=-1358/487

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 9=219, 1=121.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 12, 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 ANSITP11 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 1719993	Truss T05	Truss Type Piggyback Base	Qty 1	Ply 1	Lot 49 The Oaks / Waller	T16774695
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:00 2019 Page 1  
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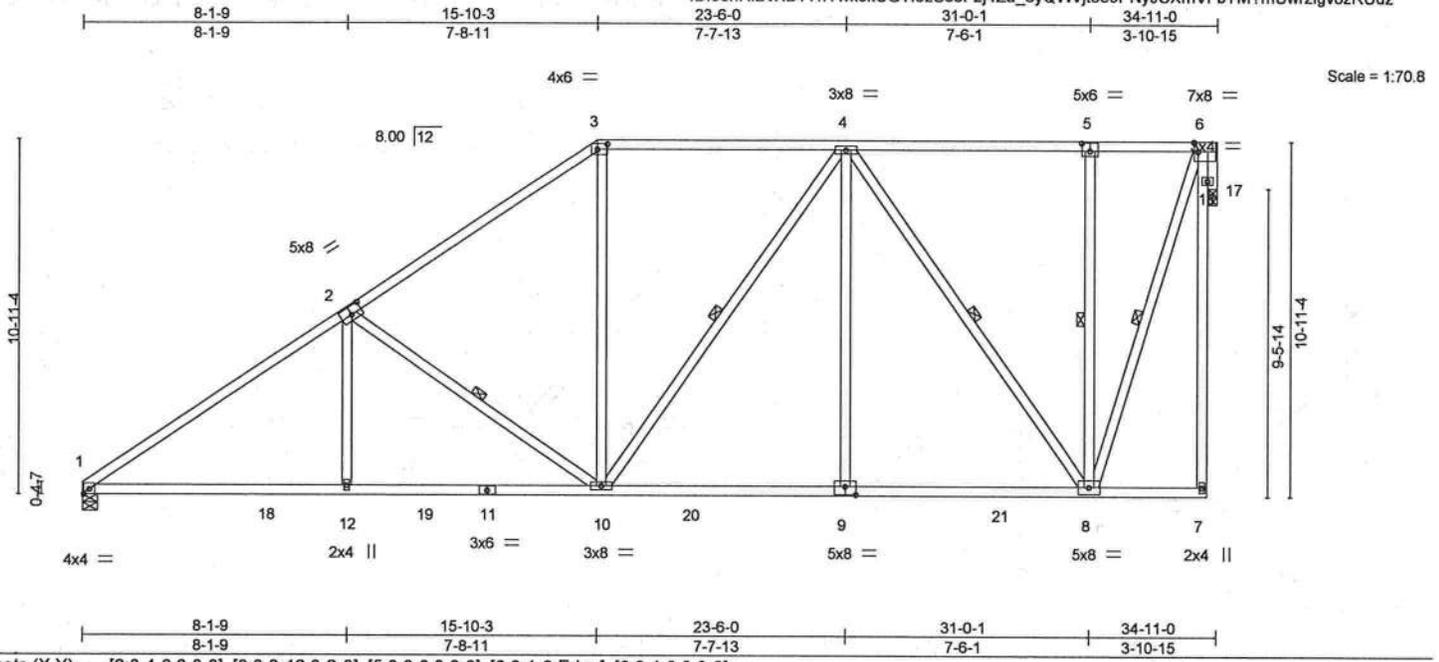


Plate Offsets (X, Y) - [2:0-4-0,0-3-0], [3:0-3-12,0-2-0], [5:0-3-0,0-3-0], [6:0-1-8,Edge], [9:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.93	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.75	Vert(LL) -0.15 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.78	Vert(CT) -0.27 12-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.17 17 n/a n/a		
	Code FBC2017/TPI2014			Weight: 247 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-7-12 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 2-10, 4-10, 4-8, 5-8, 6-8
OTHERS 4-10,4-8: 2x4 SP No.2	
2x4 SP No.3	

**REACTIONS.** (lb/size) 1=1287/0-5-8, 17=1264/0-3-0  
 Max Horz 1=285(LC 12)  
 Max Uplift 1=-123(LC 12), 17=-215(LC 9)  
 Max Grav 1=1353(LC 19), 17=1320(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2064/520, 2-3=-1451/453, 3-4=-1123/445, 4-5=-459/164, 5-6=-459/164  
 BOT CHORD 1-12=-709/1725, 10-12=-710/1721, 9-10=-378/1050, 8-9=-378/1050  
 WEBS 2-12=0/346, 2-10=-750/325, 3-10=-42/451, 4-10=-115/265, 4-9=0/447, 4-8=-1026/372,  
 5-8=-398/218, 6-8=-500/1403, 6-17=-1343/487

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 7) Bearing at joint(s) 17 considers parallel to grain value using ANSITPI 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) 1=123, 17=215.



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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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



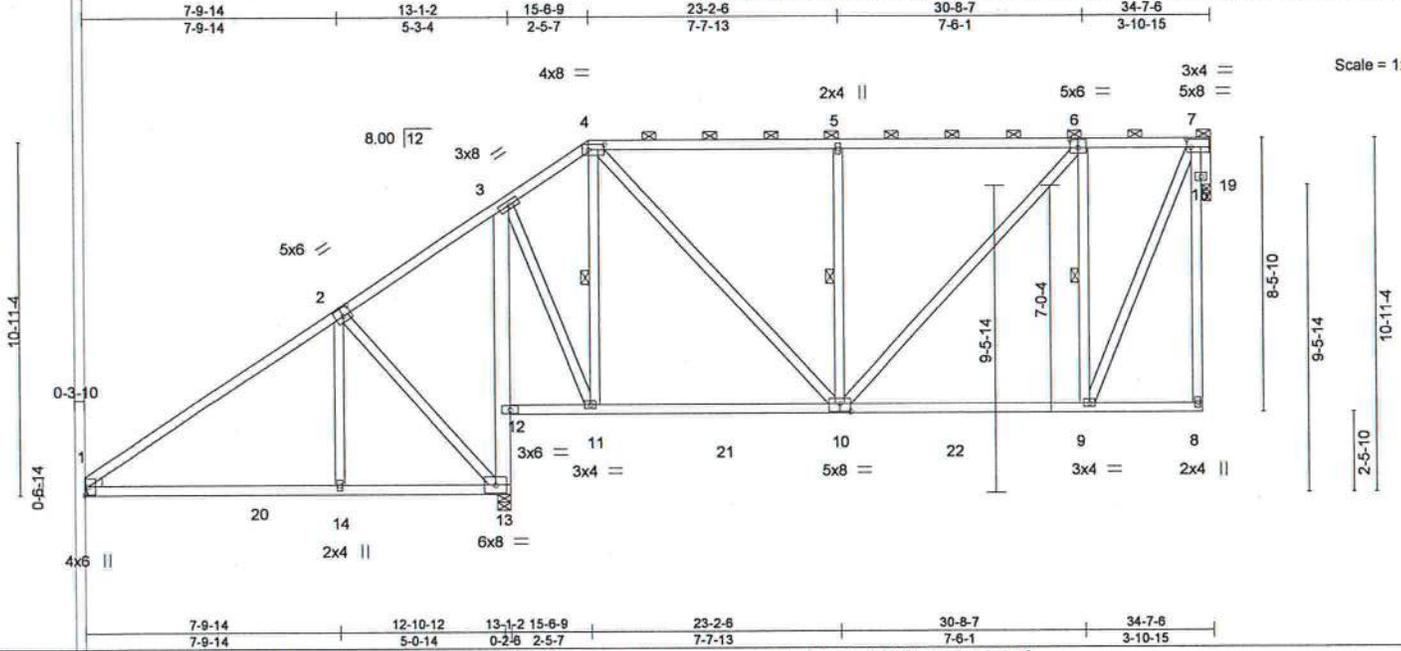
6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss T06E	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774696
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:01 2019 Page 1

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Scale = 1:70.9

Plate Offsets (X,Y)	[1:0-0-13,0-4-12], [1:0-0-7,0-0-10], [2:0-3-0,0-3-0], [4:0-5-12,0-2-0], [6:0-3-0,0-3-0], [7:0-1-8,0-3-0], [10:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL)	0.19 14-18	>812	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.49	Vert(CT)	-0.19 14-18	>811	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT)	0.09 19	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight 250 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD 2x4 SP No.2 *Except* 3-13: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-11, 5-10, 6-9
OTHERS 2x4 SP No.3	
WEDGE Left: 2x4 SP No.3	

**REACTIONS.** (lb/size) 1=475/Mechanical, 13=1277/0-4-12, 19=777/0-3-0  
 Max Horz 1=280(LC 12)  
 Max Uplift 1=73(LC 9), 13=330(LC 9), 19=135(LC 9)  
 Max Grav 1=475(LC 1), 13=1277(LC 1), 19=786(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-503/117, 3-4=-353/94, 4-5=-584/212, 5-6=-584/212, 6-7=-348/117  
 BOT CHORD 1-14=-375/351, 13-14=-372/349, 12-13=-887/345, 3-12=-910/349, 10-11=-109/269,  
 9-10=-122/358  
 WEBS 2-14=-267/305, 2-13=-497/519, 3-11=-197/677, 4-11=-454/214, 4-10=-152/488,  
 5-10=-449/259, 6-10=-135/350, 6-9=-616/298, 7-9=-279/835, 7-19=-802/281

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left 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) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 13=330, 19=135.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



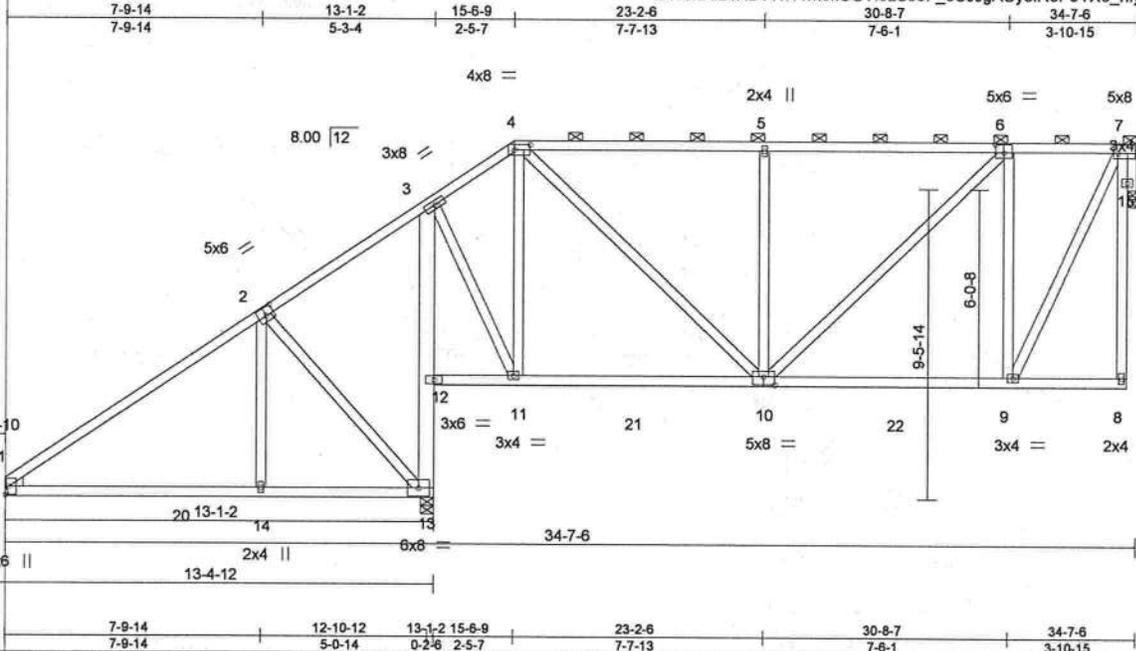
Walter P. Finn PE No.22839  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

April 12, 2019

Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:02 2019 Page 1

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Scale = 1:70.5

Plate Offsets (X, Y) [1:0-0-13,0-4-12], [1:0-0-7,0-0-10], [2:0-3-0,0-3-0], [4:0-5-12,0-2-0], [6:0-3-0,0-3-0], [7:0-1-8,0-3-0], [10:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.64	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.49	Vert(LL) 0.19 14-18 >811 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.61	Vert(CT) -0.19 14-18 >811 180		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.08 19 n/a n/a		
				Weight: 239 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
3-13: 2x6 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=473/Mechanical, 13=1281/0-4-12, 19=775/0-3-0  
Max Horz 1=280(LC 12)  
Max Uplift 1=-69(LC 9), 13=-336(LC 9), 19=-133(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-499/103, 3-4=-385/97, 4-5=-653/234, 5-6=-653/234, 6-7=-386/130  
BOT CHORD 1-14=-364/342, 13-14=-361/340, 12-13=-891/358, 3-12=-896/360, 10-11=-111/295, 9-10=-137/398  
WEBS 2-14=-268/306, 2-13=-498/520, 3-11=-206/661, 4-11=-436/218, 4-10=-169/519, 5-10=-449/259, 6-10=-136/369, 6-9=-611/292, 7-9=-278/830, 7-19=-793/277

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left 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) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 13=336, 19=133.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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April 12, 2019

Job 1719993	Truss T08E	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774698
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:03 2019 Page 1

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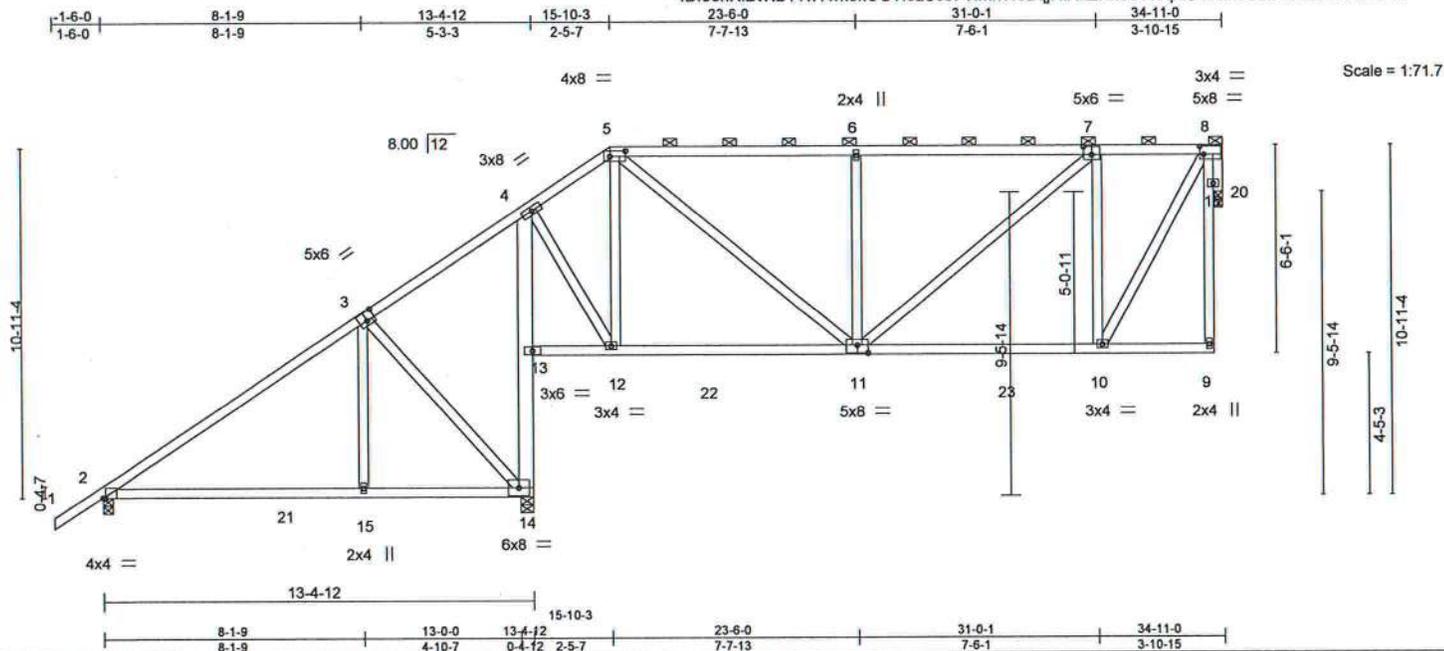


Plate Offsets (X,Y)--	[2:0-0-11,Edge], [3:0-3-0,0-3-4], [5:0-5-12,0-2-0], [7:0-3-0,0-3-0], [8:0-1-8,0-3-0], [11:0-4-0,0-3-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.55	Vert(LL) 0.22 15-19 >724 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.53	Vert(CT) -0.24 15-19 >668 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 20 n/a n/a		
	Code FBC2017/TPI2014			Weight: 232 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): 5-8.
BOT CHORD 2x4 SP No.2 *Except* 4-14: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=564/0-3-8, 14=1296/0-4-12, 20=772/0-3-0  
 Max Horz 2=306(LC 12)  
 Max Uplift 2=-79(LC 9), 14=-343(LC 9), 20=-131(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-510/89, 4-5=-416/97, 5-6=-750/261, 6-7=-750/261, 7-8=-433/147  
 BOT CHORD 2-15=-354/343, 14-15=-350/341, 13-14=-896/373, 4-13=-889/372, 11-12=-111/322,  
 10-11=-155/449  
 WEBS 3-15=-271/322, 3-14=-519/527, 4-12=-220/649, 5-12=-418/224, 5-11=-193/566,  
 6-11=-449/259, 7-11=-139/395, 7-10=-604/285, 8-10=-279/823, 8-20=-791/272

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left 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) Bearing at joint(s) 20 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) 2 except (jt=lb) 14=343, 20=131.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 6904 Parke East Blvd. Tampa FL 33610  
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April 12, 2019

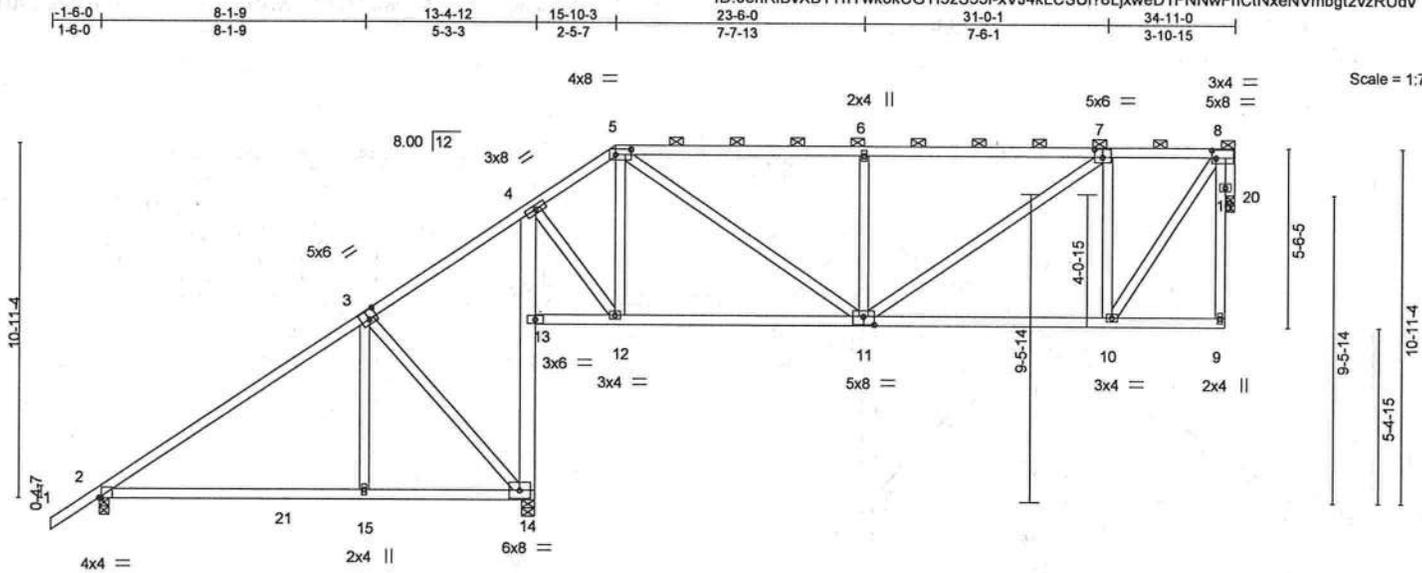
Job 1719993	Truss T09E	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Lot 49 The Oaks / Waller	T16774699
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:04 2019 Page 1

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Job Reference (optional)



Scale = 1:70.9

Plate Offsets (X,Y)	[2:0-0-11,Edge], [3:0-3-0,0-3-4], [5:0-5-12,0-2-0], [7:0-3-0,0-3-0], [8:0-1-8,0-3-0], [11:0-4-0,0-3-0]
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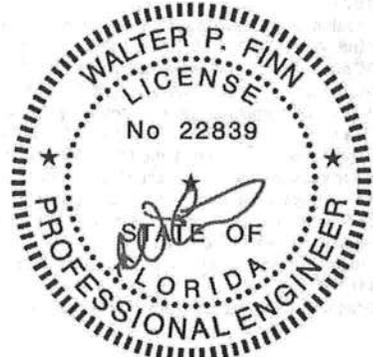
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.55	Vert(LL) 0.22 15-19 >724 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Vert(CT) -0.24 15-19 >668 180		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.04 20 n/a n/a		
				Weight: 221 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-3 max.); 5-8.
BOT CHORD 2x4 SP No.2 *Except* 4-14: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=565/0-3-8, 14=1295/0-4-12, 20=773/0-3-0  
 Max Horz 2=306(LC 12)  
 Max Uplift 2=-79(LC 9), 14=-343(LC 9), 20=-131(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-511/89, 4-5=-490/123, 5-6=-891/309, 6-7=-891/309, 7-8=-515/175  
 BOT CHORD 2-15=-354/343, 14-15=-351/341, 13-14=-895/373, 4-13=-889/372, 11-12=-132/378,  
 10-11=-183/533  
 WEBS 3-15=-271/322, 3-14=-519/527, 4-12=-222/647, 5-12=-376/210, 5-11=-215/631,  
 6-11=-449/259, 7-11=-154/440, 7-10=-600/284, 8-10=-290/856, 8-20=-792/272

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left 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) Bearing at joint(s) 20 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) 2 except (jt=lb) 14=343, 20=131.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Walter P. Finn PE No.22839  
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April 12, 2019

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

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6904 Parke East Blvd.  
 Tampa, FL 33610



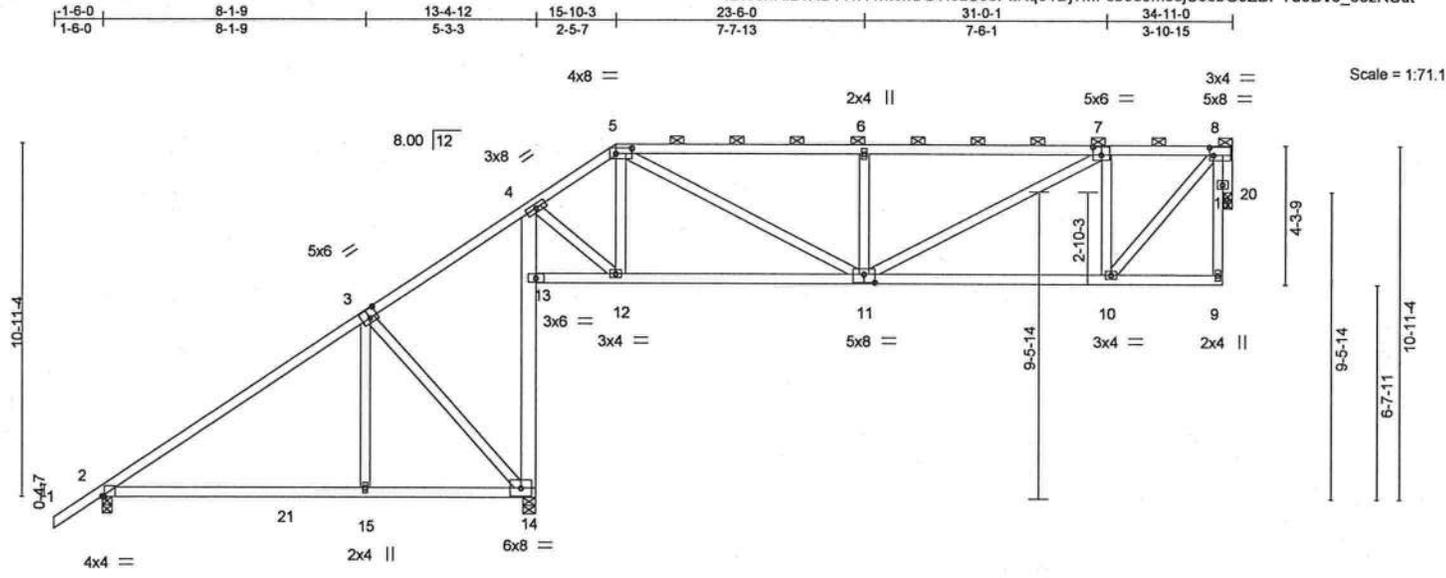


Plate Offsets (X, Y) -	[2:0-0-11, Edge], [3:0-3-0, 0-3-4], [5:0-5-12, 0-2-0], [7:0-3-0, 0-3-0], [8:0-1-8, 0-3-0], [11:0-4-0, 0-3-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.53	Vert(LL) 0.22 15-19 >723 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.53	Vert(CT) -0.24 15-19 >668 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 20 n/a n/a		
	Code FBC2017/TPI2014			Weight: 210 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 5-8.
BOT CHORD 2x4 SP No.2 *Except* 4-14: 2x6 SP No.2	BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=565/0-3-8, 14=1295/0-4-12, 20=772/0-3-0  
 Max Horz 2=306(LC 12)  
 Max Uplift 2=-79(LC 9), 14=-344(LC 9), 20=-131(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-510/89, 4-5=-630/172, 5-6=-1162/403, 6-7=-1162/403, 7-8=-672/228  
 BOT CHORD 2-15=-353/343, 14-15=-350/341, 13-14=-896/374, 4-13=-892/373, 11-12=-172/494,  
 10-11=-239/695  
 WEBS 3-15=-271/322, 3-14=-518/527, 4-12=-235/690, 5-12=-298/182, 5-11=-261/766,  
 6-11=-448/259, 7-11=-186/532, 7-10=-593/281, 8-10=-317/936, 8-20=-794/272

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left 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.
  - Bearing at joint(s) 20 considers parallel to grain value using ANS/TP1 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) 2 except (jt=lb) 14=344, 20=131.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 12, 2019

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Job 1719993	Truss T14W	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774704
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:09 2019 Page 1

ID:0ehRiBvXB1YhYwkokCGTf5zS55f-HS7zn3FbIHdRSUquRmcQ4Re5WDAyCu4Evt0ej6zRUdq

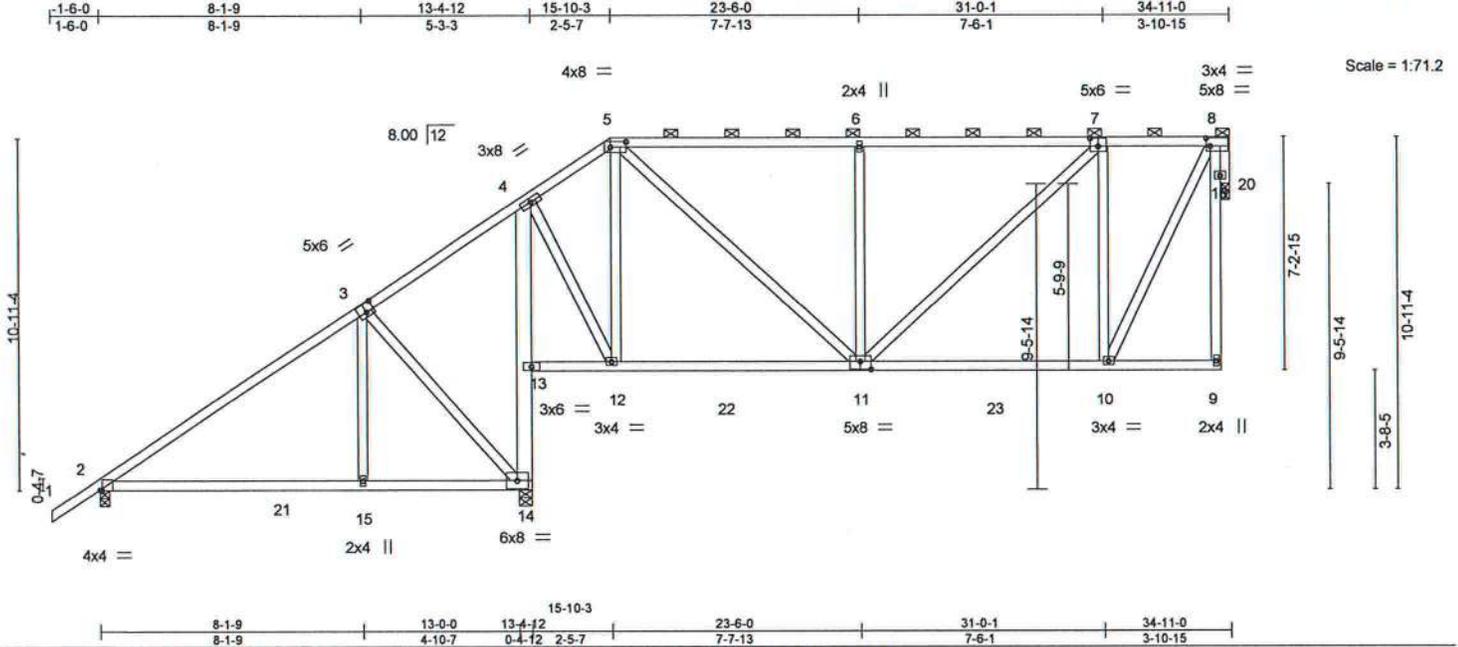


Plate Offsets (X,Y)-- [2:0-0-11,Edge], [3:0-3-0,0-3-4], [5:0-5-12,0-2-0], [7:0-3-0,0-3-0], [8:0-1-8,0-3-0], [11:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	Vert(LL)	0.22	15-19	>724	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.55	Vert(CT)	-0.24	15-19	>668		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.57	Horz(CT)	0.06	20	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2017/TPI2014						Weight: 239 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 4-14: 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, except end verticals, and 2-0-0 oc purlins (5-11-14 max.): 5-8.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=563/0-3-8, 14=1298/0-4-12, 20=771/0-3-0  
 Max Horz 2=306(LC 12)  
 Max Uplift 2=-79(LC 9), 14=-344(LC 9), 20=-131(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-507/89, 4-5=-381/82, 5-6=-669/233, 6-7=-669/233, 7-8=-395/132  
 BOT CHORD 2-15=-353/342, 14-15=-350/340, 13-14=-898/374, 4-13=-895/372, 11-12=-99/293,  
 10-11=-138/406  
 WEBS 3-15=-271/322, 3-14=-519/527, 4-12=-220/667, 5-12=-443/232, 5-11=-181/532,  
 6-11=-449/259, 7-11=-131/370, 7-10=-607/286, 8-10=-273/825, 8-20=-789/271

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left 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) Bearing at joint(s) 20 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) 2 except (jt=lb) 14=344, 20=131.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 12, 2019

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6904 Parke East Blvd.  
 Tampa, FL 33610



Job 1719993	Truss T16	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774706
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:11 2019 Page 1

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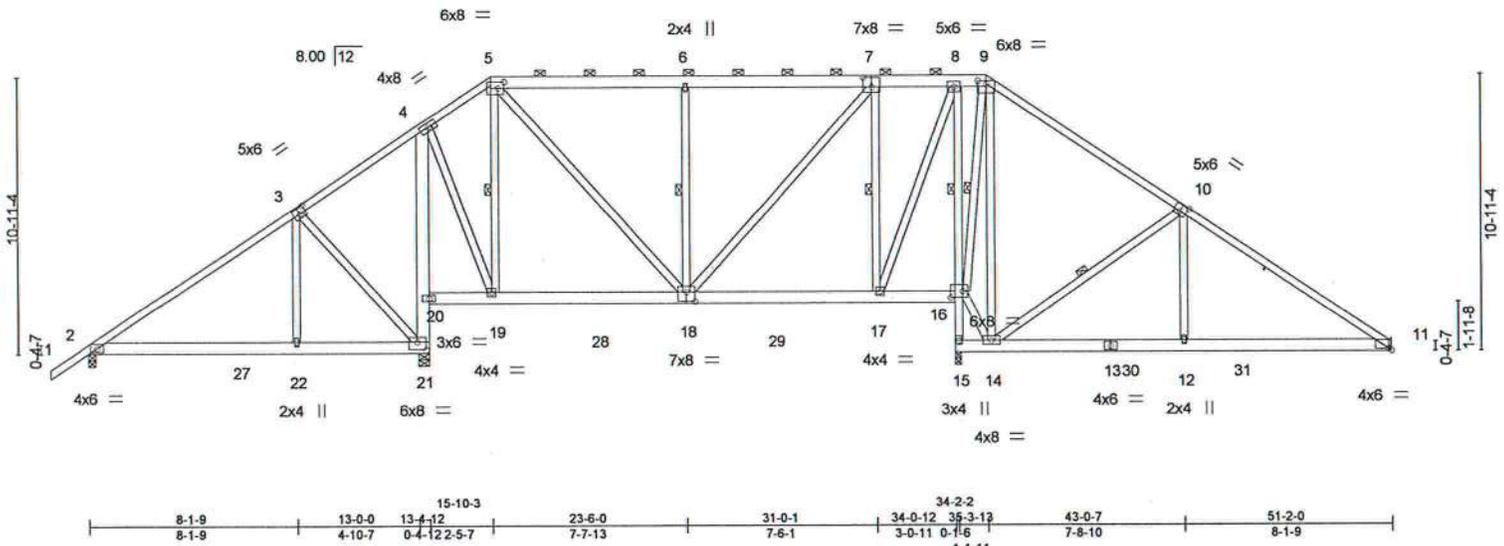


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-2-12,0-3-0], [7:0-4-0,0-4-8], [9:0-4-0,0-1-9], [10:0-3-0,0-3-4], [11:0-1-7,0-0-13], [16:0-5-8,0-3-0], [18:0-4-0,0-4-8], [21:0-4-0,0-3-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL) 0.08	22-24	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.39	Vert(CT) -0.10	12-26	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) -0.02	15	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight: 420 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP M 31 *Except* 5-7,7-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD 2x6 SP No.2 *Except* 8-15: 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 8-16
WEBS 2x4 SP No.3 *Except* 9-14: 2x4 SP M 31	WEBS 1 Row at midpt 5-19, 6-18, 7-17, 9-16, 10-14

**REACTIONS.** All bearings 0-3-8 except (jt=length) 15=0-2-12, 21=0-4-12, 11=Mechanical.  
 (lb) - Max Horz 2=223(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=142(LC 8), 15=137(LC 8), 21=347(LC 9), 11=150(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=545(LC 23), 15=1419(LC 1), 21=1297(LC 23), 11=687(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-487/464, 4-5=-386/335, 5-6=-526/424, 6-7=-526/423, 7-8=-372/342, 8-9=-223/262, 9-10=-306/276, 10-11=-900/355  
 BOT CHORD 2-22=-270/314, 21-22=-266/312, 20-21=-907/184, 4-20=-909/171, 17-18=-45/280, 15-16=-1398/340, 8-16=-794/205, 12-14=-181/655, 11-12=-181/659  
 WEBS 3-22=-288/342, 3-21=-518/512, 4-19=-100/675, 5-19=-465/132, 5-18=-175/461, 6-18=-465/266, 7-18=-117/379, 7-17=-580/260, 8-17=-223/769, 9-16=-571/233, 9-14=-206/423, 10-14=-763/331, 10-12=0/377

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left 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 at joint(s) 15.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 2, 137 lb uplift at joint 15, 347 lb uplift at joint 21 and 150 lb uplift at joint 11.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 12, 2019

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 Tampa, FL 33610

Job 1719993	Truss T17G	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774707
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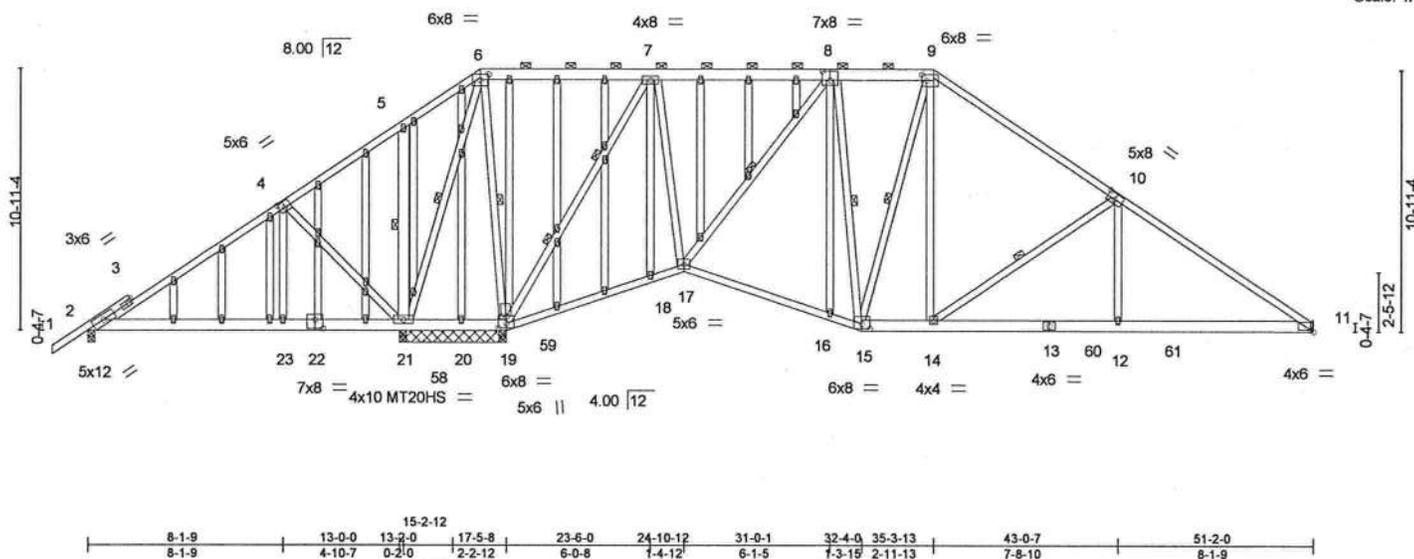
Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:13 2019 Page 1

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Scale: 1/8"=1'



Job 1719993	Truss T17G	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774707
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:13 2019 Page 2

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- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20 except (jt=lb) 19=426, 21=414, 11=291.
  - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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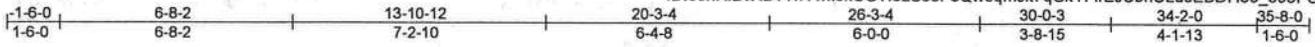
Job 1719993	Truss T18	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774708
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:14 2019 Page 1

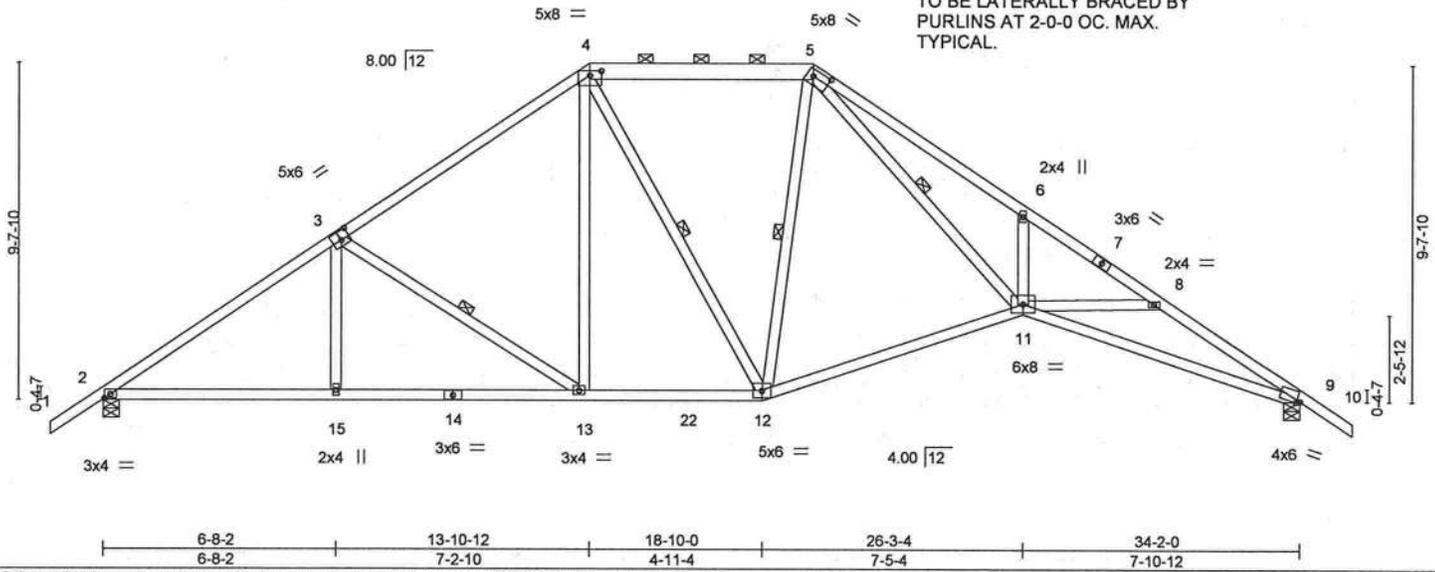
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Job Reference (optional)



TOP CHORD UNDER PIGGYBACKS  
TO BE Laterally BRACED BY  
PURLINS AT 2-0-0 OC. MAX.  
TYPICAL.

Scale = 1:65.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.92	Vert(LL)	-0.26 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.55 11-12	>739	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.29 9	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 205 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-13, 4-12, 5-12, 5-11

**REACTIONS.** (lb/size) 2=1345/0-5-8, 9=1345/0-5-8  
Max Horz 2=-203(LC 10)  
Max Uplift 2=-161(LC 12), 9=-161(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1964/606, 3-4=-1484/548, 4-5=-1139/518, 5-6=-3383/1110, 6-8=-3311/938,  
8-9=-3472/1021  
BOT CHORD 2-15=-376/1567, 13-15=-376/1565, 12-13=-151/1131, 11-12=-177/1263, 9-11=-785/2957  
WEBS 3-15=0/295, 3-13=-563/275, 4-13=-109/477, 5-12=-348/83, 5-11=-684/2360,  
6-11=-342/262

- 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=23ft; Cat. II; Exp B; Encl.,  
GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber  
DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide  
will fit between the bottom chord and any other members, 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=161, 9=161.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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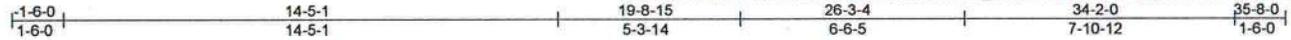
6904 Parke East Blvd.  
Tampa, FL 33610

Job 1719993	Truss T18G	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774709
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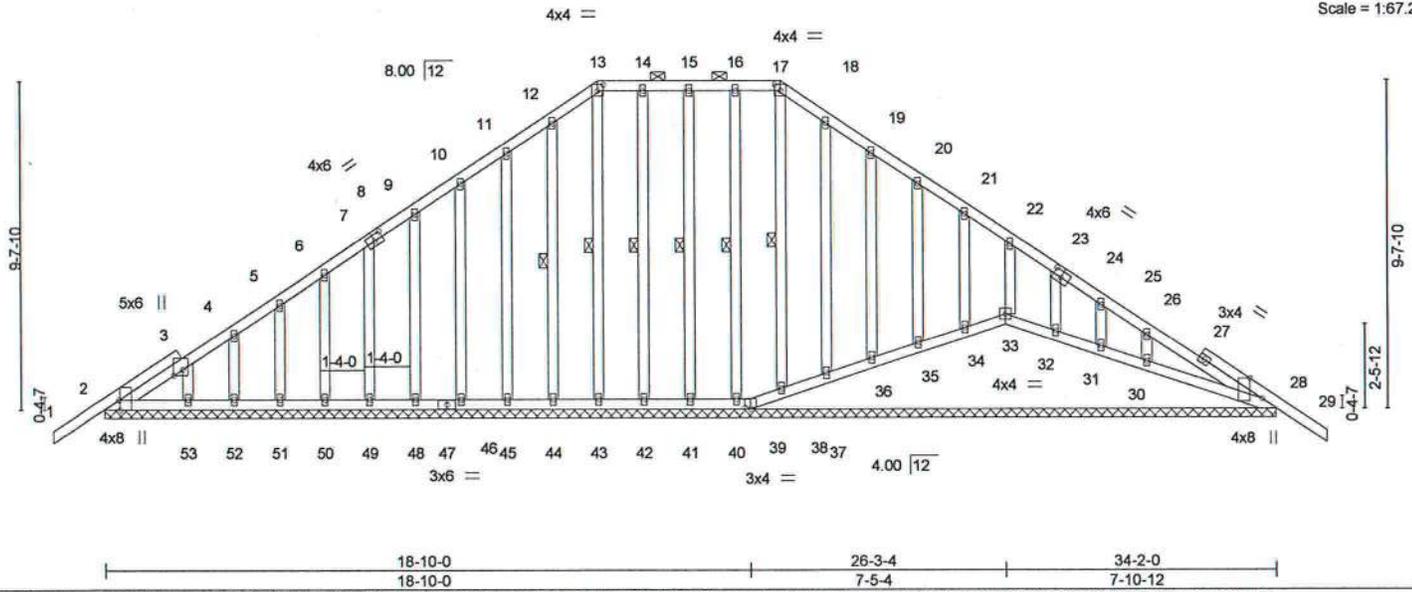
Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:16 2019 Page 1

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Scale = 1:67.2



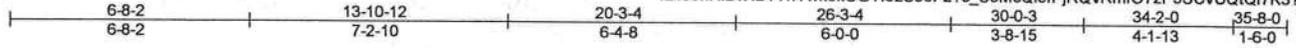
Job 1719993	Truss T19	Truss Type PIGGYBACK BASE	Qty 6	Ply 1	Lot 49 The Oaks / Waller	T16774710
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:17 2019 Page 1

ID:0ehRIBvXB1YhYwkokCGTf5zS55f-2?c\_SoMcQleIPJRQvRmlO7zP3SCvUQIQ7K3?fzRUdi

Job Reference (optional)



Scale: 3/16"=1'

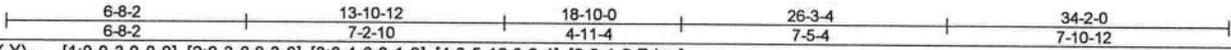
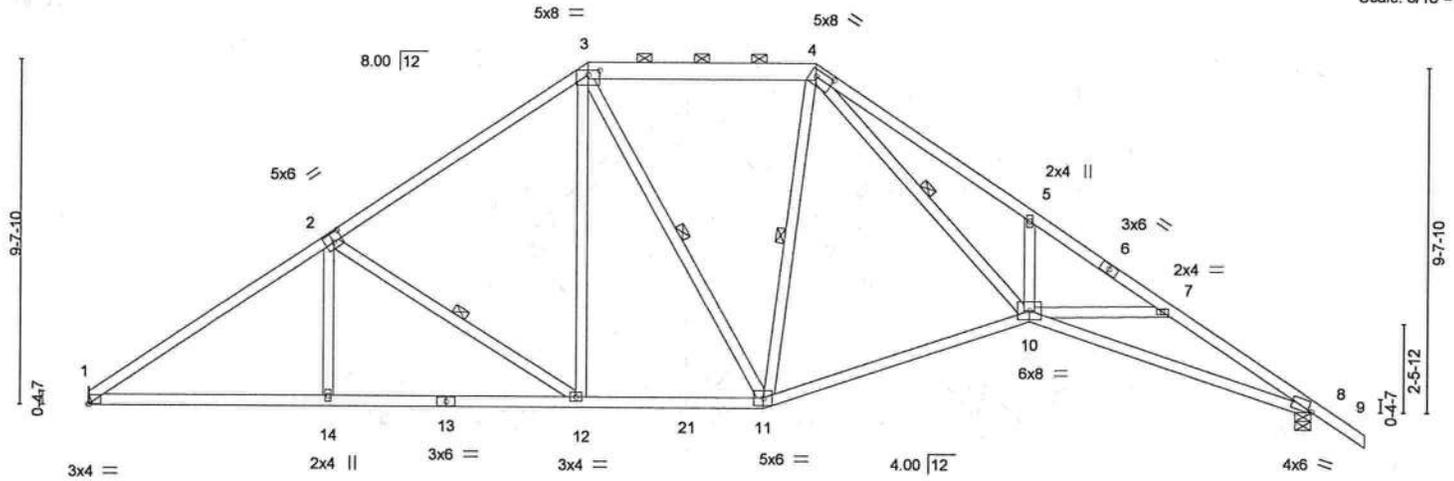


Plate Offsets (X,Y)-- [1:0-0-3,0-0-0], [2:0-3-0,0-3-0], [3:0-4-0,0-1-9], [4:0-5-12,0-2-4], [8:0-1-2,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.92	Vert(LL)	-0.26	10-11	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.56	10-11	>738		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.29	8	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 203 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (6-0-0 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 2-12, 3-11, 4-11, 4-10

**REACTIONS.**

(lb/size) 1=1262/Mechanical, 8=1347/0-5-8  
Max Horz 1=-197(LC 10)  
Max Uplift 1=-141(LC 12), 8=-162(LC 13)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1978/617, 2-3=-1489/554, 3-4=-1142/522, 4-5=-3388/1118, 5-7=-3317/946,  
7-8=-3478/1028  
BOT CHORD 1-14=-394/1581, 12-14=-395/1579, 11-12=-156/1135, 10-11=-180/1265, 8-10=-791/2962  
WEBS 2-14=0/297, 2-12=-558/283, 3-12=-112/482, 4-11=-348/82, 4-10=-688/2363,  
5-10=-342/262

**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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=141, 8=162.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Walter P. Finn PE No.22839  
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Date:

April 12, 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.  
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Job 1719993	Truss T20	Truss Type Common	Qty 4	Ply 1	Lot 49 The Oaks / Waller T16774711
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8.240 s Dec 6 2018 MITek Industries, Inc. Fri Apr 12 10:28:18 2019 Page 1

ID:0ehRIBvXB1YhYwkokCGTf5zSS5f-WBAMg8MEA2m91s0cT9HXxKV4rfWD?vZ\_n3dX5zRUdh



4x4 =

Scale = 1:63.3

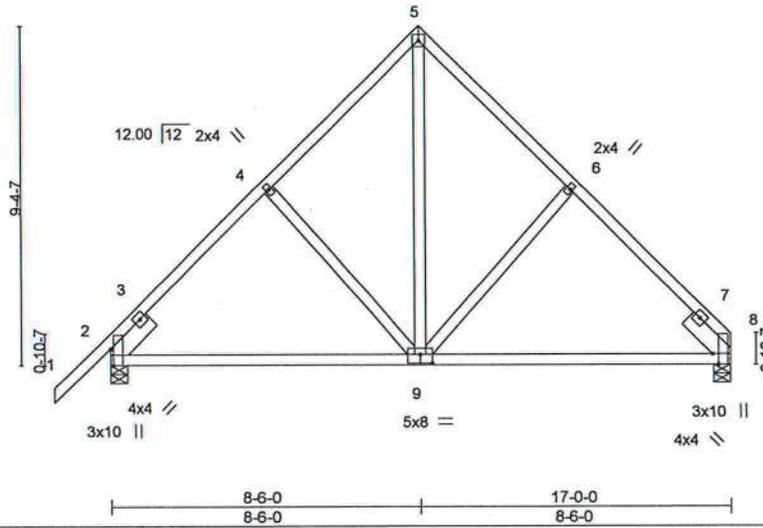


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [8:0-3-8,Edge], [9:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	-0.07 9-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.14 9-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 103 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

**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) 8=625/0-5-8, 2=714/0-5-8  
Max Horz 2=188(LC 11)  
Max Uplift 8=-65(LC 12), 2=-82(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-647/233, 4-5=-533/271, 5-6=-532/272, 6-8=-649/233  
BOT CHORD 2-9=90/462, 8-9=-78/420  
WEBS 5-9=-260/556

- 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=23ft; Cat. II; Exp B; 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
  - 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) 8, 2.



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April 12, 2019

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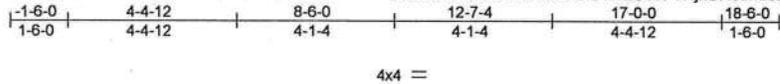
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Tampa, FL 33610

Job 1719993	Truss T20G	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller	T16774712
Builders FirstSource, Lake City, FL					Job Reference (optional)	

8.240 s Dec 6 2018 MITek Industries, Inc. Fri Apr 12 10:28:19 2019 Page 1  
 ID:0ehRiBvXB1YhYwkocCGTf5zS55f-?NjllUNbxMu0f0bp1somUX2rmF1qyRRJDRpA4XzRUdg



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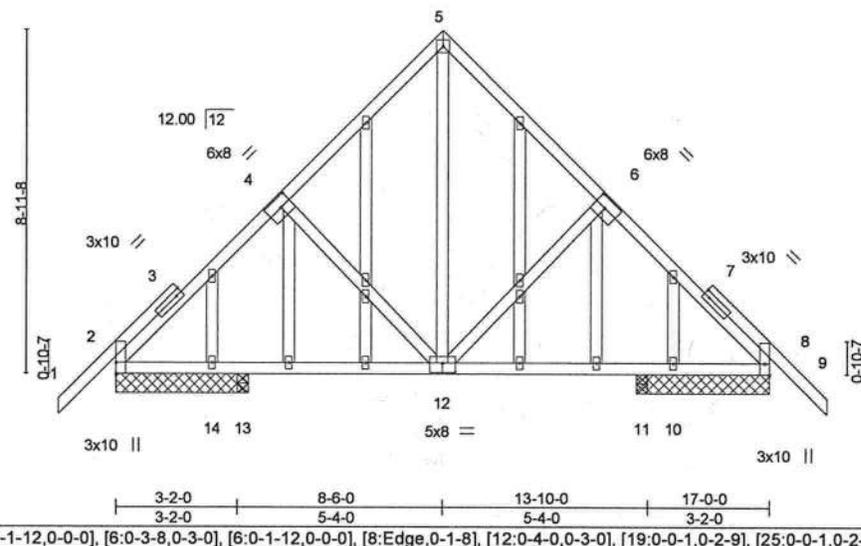


Plate Offsets (X,Y)-- [4:0-3-8,0-3-0], [4:0-1-12,0-0-0], [6:0-3-8,0-3-0], [6:0-1-12,0-0-0], [8:Edge,0-1-8], [12:0-4-0,0-3-0], [19:0-0-1,0-2-9], [25:0-0-1,0-2-9]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	-0.03 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.05 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 142 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 3-5-8 except (jt=length) 13=0-3-8, 11=0-3-8.  
 (lb) - Max Horz 2=237(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 13, 11 except 2=227(LC 12), 8=229(LC 13), 14=101(LC 20), 10=-102(LC 19)  
 Max Grav All reactions 250 lb or less at joint(s) 14, 10 except 2=786(LC 1), 8=786(LC 1), 13=380(LC 3), 11=380(LC 3), 2=786(LC 1), 8=786(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-753/284, 4-5=-622/314, 5-6=-622/313, 6-8=-753/284  
 BOT CHORD 2-14=-188/579, 13-14=-188/579, 12-13=-188/579, 11-12=-109/498, 10-11=-109/498, 8-10=-109/498  
 WEBS 5-12=-319/629

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 11 except (jt=lb) 2=227, 8=229, 14=101, 10=102, 2=227, 8=229.
  - 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, 5-9=-54, 27-31=-60(F=-40)



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April 12, 2019

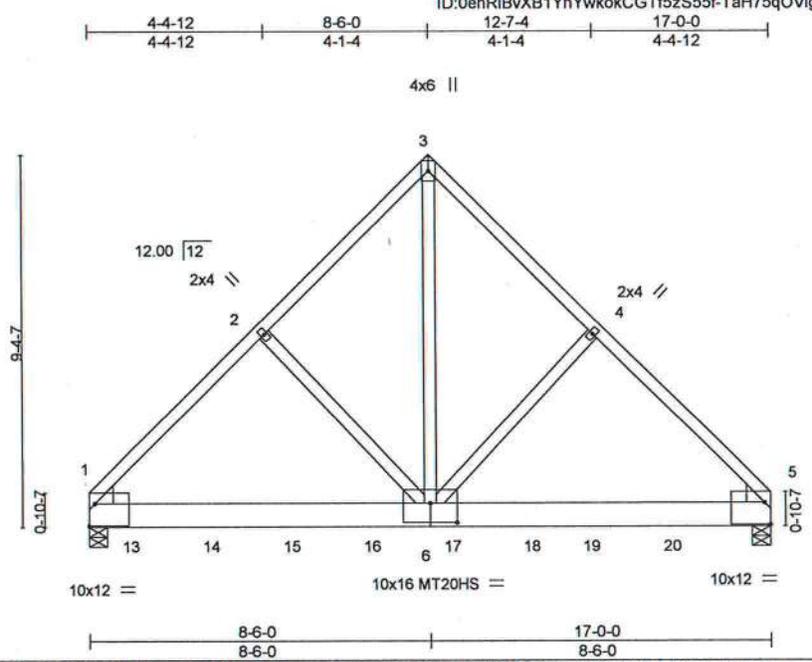
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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.



Job 1719993	Truss T21	Truss Type Common Girder	Qty 1	Ply 2	Lot 49 The Oaks / Waller	T16774713
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:20 2019 Page 1  
 ID:0ehRIBvXB1YhYwkokCGT15zS55f-TaH75qQVig0tGAA?aaJ70lb11fLihqWsR5Ykc\_zRUdf



Scale = 1:57.7

Plate Offsets (X,Y)-	[1:0-0-14,0-0-14], [1:0-5-7,0-1-12], [1:Edge,0-6-13], [5:Edge,0-6-13], [5:0-5-7,0-1-12], [5:0-0-14,0-0-14], [6:0-8-0,0-6-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	-0.11	6-9	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.21	6-9	>960	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.02	1	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 242 lb	FT = 20%

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

**WEDGE**  
 Left: 2x6 SP No.2, Right: 2x6 SP No.2

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

**REACTIONS.** (lb/size) 1=5794/0-5-8, 5=4893/0-5-8  
 Max Horz 1=168(LC 24)  
 Max Uplift 1=-737(LC 9), 5=-809(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-484/1714, 2-3=-4712/743, 3-4=-4703/745, 4-5=-4821/715  
 BOT CHORD 1-6=-513/3427, 5-6=-467/3393  
 WEBS 2-6=-256/147, 3-6=-969/6331

- 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.
  - 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); 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=737, 5=809.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1242 lb down and 161 lb up at 1-0-12, 1242 lb down and 161 lb up at 3-0-12, 1242 lb down and 161 lb up at 5-0-12, 1242 lb down and 161 lb up at 7-0-12, 1242 lb down and 161 lb up at 9-0-12, 1242 lb down and 161 lb up at 11-0-12, 1044 lb down and 311 lb up at 12-6-12, and 595 lb down and 170 lb up at 14-6-12, and 336 lb down and 91 lb up at 16-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
 Continued on page 2



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 Date:

April 12, 2019

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 Tampa, FL 36610

Job 1719993	Truss T21	Truss Type Common Girder	Qty 1	Ply 2	Lot 49 The Oaks / Waller Job Reference (optional)	T16774713
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:20 2019 Page 2  
ID:0ehRIBvXB1YhYwkocCGTf5zS55f-TaH75qOVig0tGAA?aaJ?0lb11fLihqWsR5Ykc\_zRUdf

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 7-10=-20

Concentrated Loads (lb)

Vert: 12=-336(B) 13=-1242(B) 14=-1242(B) 15=-1242(B) 16=-1242(B) 17=-1242(B) 18=-1242(B) 19=-1044(B) 20=-595(B)

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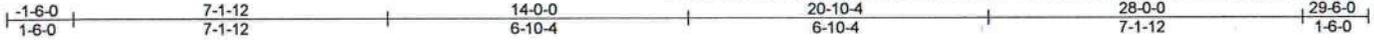
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Job 1719993	Truss T22	Truss Type COMMON	Qty 6	Ply 1	Lot 49 The Oaks / Waller T16774714
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:21 2019 Page 1

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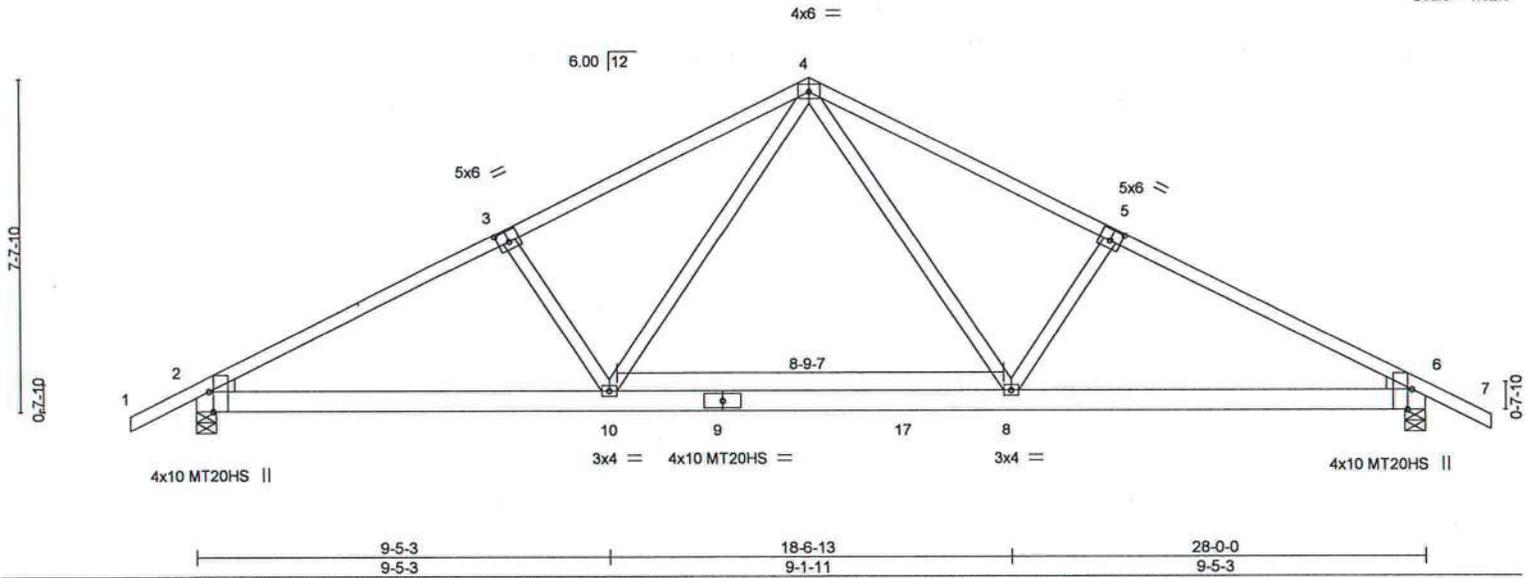


Plate Offsets (X,Y)--	[2:0-0-14,0-1-12], [2:0-1-12,0-8-3], [2:0-5-8,Edge], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-0-14,0-1-12], [6:0-1-12,0-8-3], [6:0-5-8,Edge]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.94	Vert(LL)	-0.32	8-10	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.84	Vert(CT)	-0.40	8-10	>837	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.34	Horz(CT)	0.05	6	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 156 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

**REACTIONS.** (lb/size) 2=1391/0-5-8, 6=1391/0-5-8  
Max Horz 2=83(LC 11)  
Max Uplift 2=-151(LC 12), 6=-151(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2346/681, 3-4=-2166/681, 4-5=-2166/681, 5-6=-2346/681  
BOT CHORD 2-10=-485/2030, 8-10=-218/1386, 6-8=-491/2030  
WEBS 4-8=-227/888, 5-8=-357/286, 4-10=-227/888, 3-10=-357/286

- 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=23ft; Cat. II; Exp B; 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 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, 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) 2=151, 6=151.
  - Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 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 Except:  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20



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Date:

April 12, 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 ANSITPI 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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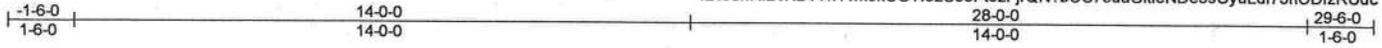
Job 1719993	Truss T22G	Truss Type GABLE	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774715
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Buiders FirstSource, Lake City, FL

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ID:0ehRIBvXB1YhYwkokCGTf5zS55f-t9zFjrQN?bOS7euaGitieNDe3sUyuLdl73nODIzRUdc

Job Reference (optional)



Scale = 1:52.3

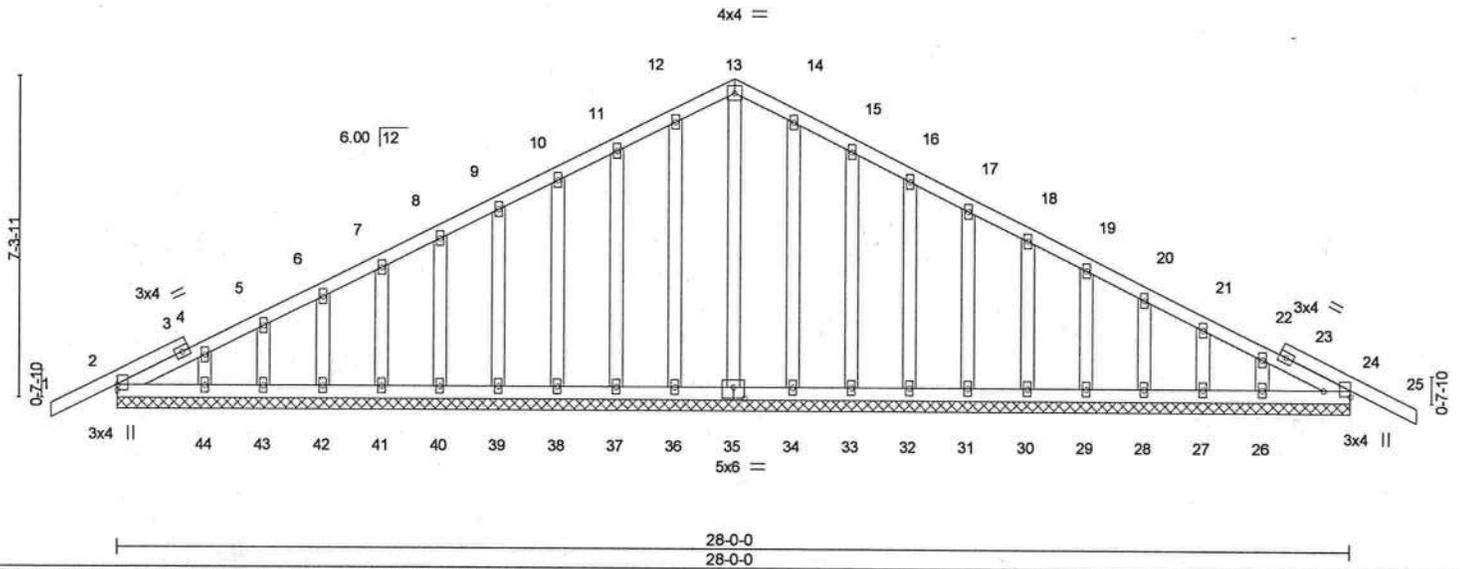


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [24:Edge,0-7-8], [35:0-3-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.12	Vert(LL)	-0.01	25	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.01	25	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	24	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S						
								Weight: 200 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 28-0-0.  
(lb) - Max Horz 2=-124(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 36, 37, 38, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28, 27, 26  
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28, 27, 26

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Solid blocking is required on both sides of the truss at joint(s), 2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 36, 37, 38, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28, 27, 26.



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Date:

April 12, 2019

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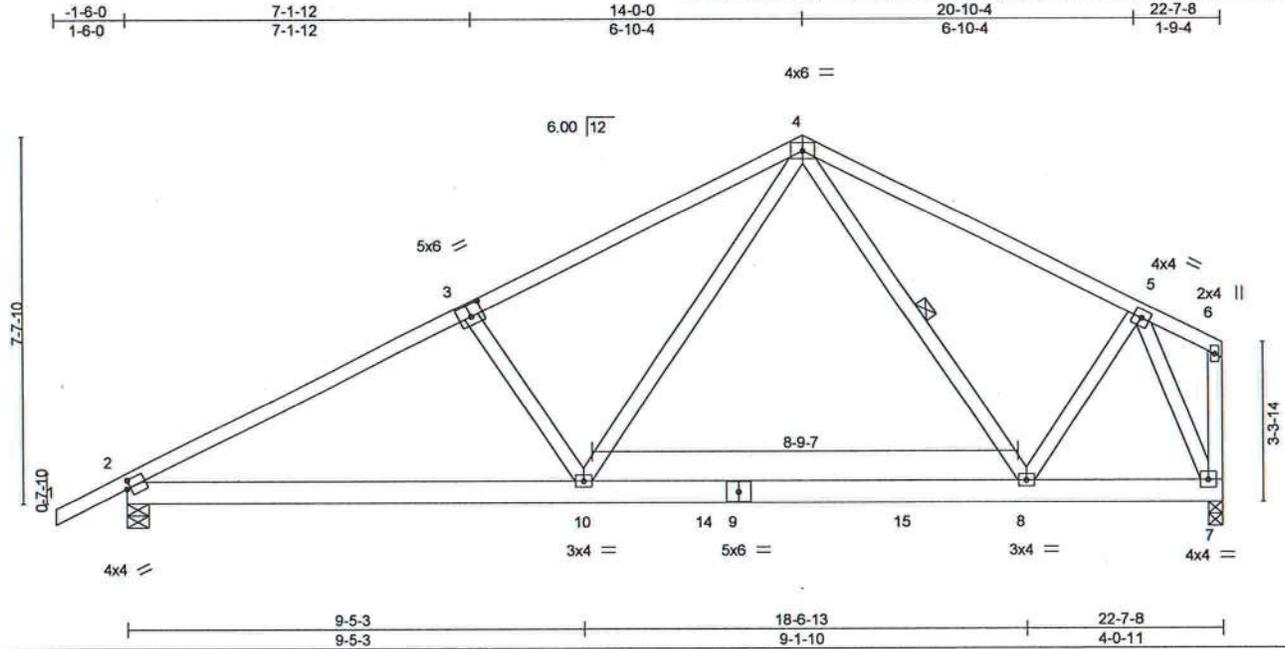


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Job 1719993	Truss T23	Truss Type Common	Qty 5	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774716
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ID:0ehRIBvXB1YhYwkocCGTf5zS55f-I9zFjrQN?bOS7euaGiteNDVzsKeuFxl73nODlzRUdc



Scale: 1/4"=1'

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.21	8-10	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.26	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.48	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 140 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-8

**REACTIONS.** (lb/size) 2=1122/0-5-8, 7=1170/0-3-8  
Max Horz 2=132(LC 12)  
Max Uplift 2=-130(LC 12), 7=-91(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1792/505, 3-4=-1596/504, 4-5=-1071/328  
BOT CHORD 2-10=-482/1528, 8-10=-203/873, 7-8=-167/545  
WEBS 3-10=-366/295, 4-10=-231/891, 5-8=-6/628, 5-7=-1460/449

**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=23ft; Cat. II; Exp B; 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
- 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) 7 except (jt=lb) 2=130.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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 Except:

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert 1-4=-54, 4-6=-54, 10-11=-20, 8-10=-80(F=-60), 7-8=-20



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Date:

April 12, 2019

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6904 Parke East Blvd.  
Tampa, FL 36610

Job 1719993	Truss T24	Truss Type Common Girder	Qty 1	Ply 2	Lot 49 The Oaks / Waller Job Reference (optional)	T16774717
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Buiders FirstSource, Lake City, FL

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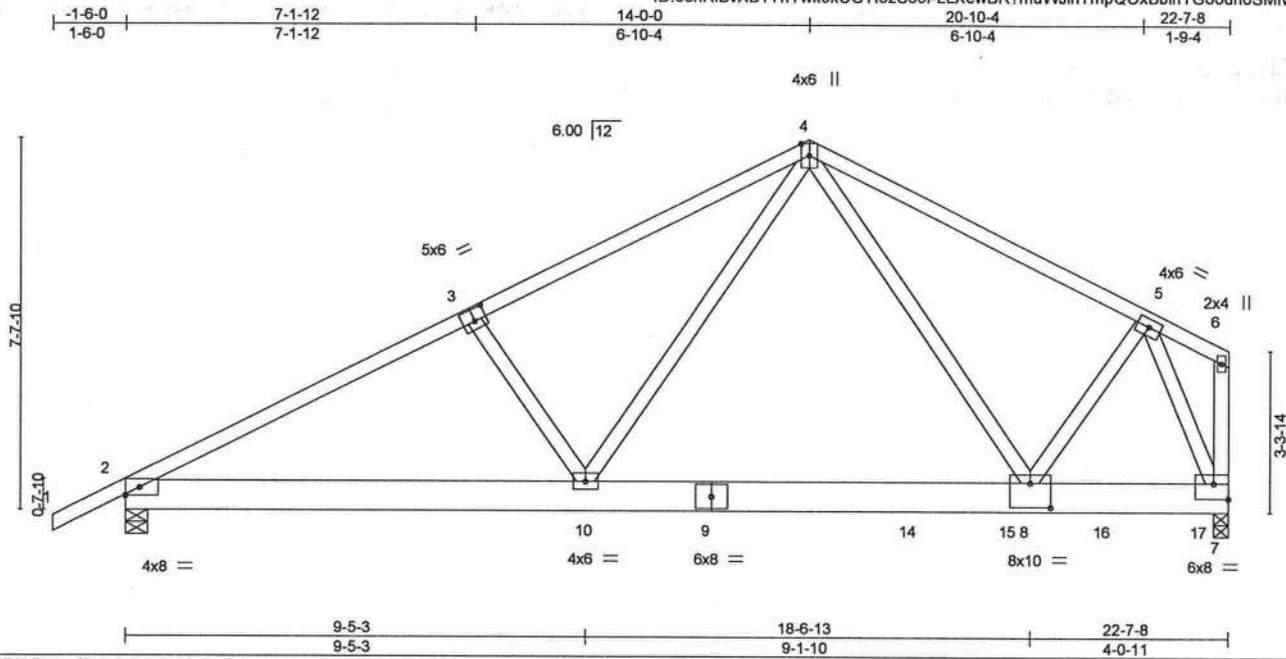


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [7:Edge,0-3-12], [8:0-5-0,0-6-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.06	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.11	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.55	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 311 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 5-6-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=1703/0-5-8, 7=5863/0-3-8  
 Max Horz 2=132(LC 8)  
 Max Uplift 2=-317(LC 8), 7=-1024(LC 9)  
 Max Grav 2=1703(LC 1), 7=5957(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3012/589, 3-4=-2821/599, 4-5=-3906/863  
 BOT CHORD 2-10=-582/2625, 8-10=-428/2113, 7-8=-405/1878  
 WEBS 3-10=-348/173, 4-10=-124/630, 4-8=-644/2591, 5-8=-595/2910, 5-7=-4752/1040

- 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 0-3-0 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; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); 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, 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) 2=317, 7=1024.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3225 lb down and 902 lb up at 18-1-9, and 1404 lb down and 130 lb up at 20-0-12, and 1410 lb down and 124 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-54, 4-6=-54, 7-11=-20



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Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
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6904 Parke East Blvd.  
 Tampa, FL 36610

Job 1719993	Truss T24	Truss Type Common Girder	Qty 1	Ply 2	Lot 49 The Oaks / Waller Job Reference (optional)	T16774717
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:24 2019 Page 2  
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**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 15=-3225(B) 16=-1295(B) 17=-1301(B)

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Jbb 1719993	Truss T25	Truss Type Half Hip	Qty 1	Ply 1	Lot 49 The Oaks / Waller	T16774718
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:25 2019 Page 1

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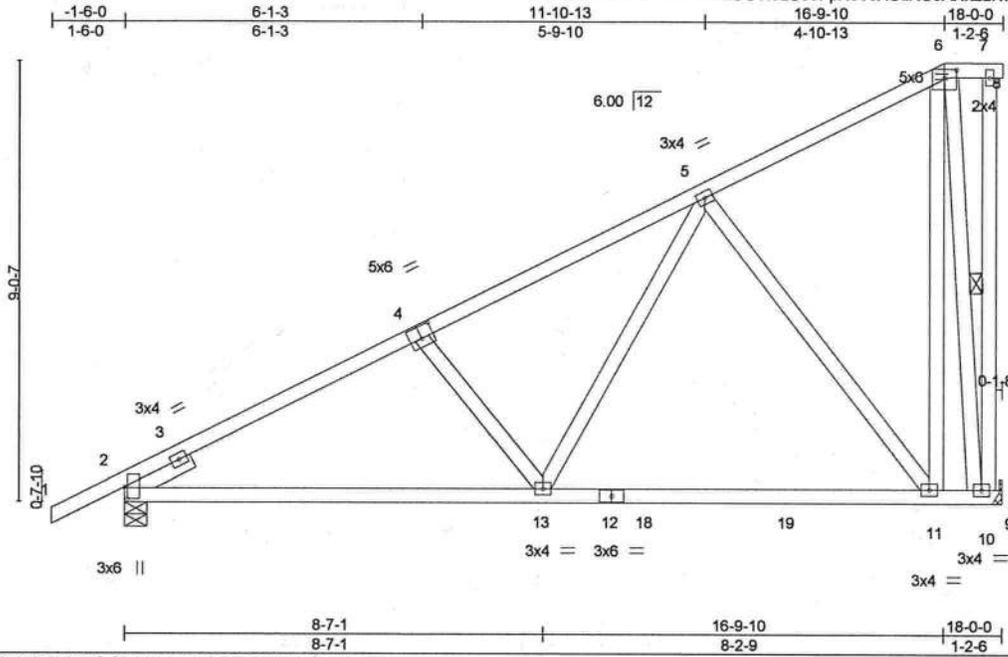


Plate Offsets (X,Y)-- [2:0-3-0,0-0-11], [4:0-3-0,0-3-0], [6:0-3-0,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.61	Vert(LL) -0.12 11-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Vert(CT) -0.21 11-13 >999 180		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.02 10 n/a n/a		
				Weight: 126 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 1-6-0

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-10-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 8-6-8 oc bracing: 2-13.  
 WEBS 1 Row at midpt 7-10, 6-10

**REACTIONS.** (lb/size) 10=662/Mechanical, 2=740/0-5-8  
 Max Horz 2=242(LC 12)  
 Max Uplift 10=-158(LC 12), 2=-73(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-946/206, 4-5=-775/182  
 BOT CHORD 2-13=-468/802, 11-13=-241/420  
 WEBS 4-13=-283/242, 5-13=-171/475, 5-11=-554/337, 6-11=-192/670, 6-10=-747/309

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 2 except (jt=lb) 10=158.



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April 12, 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 33610



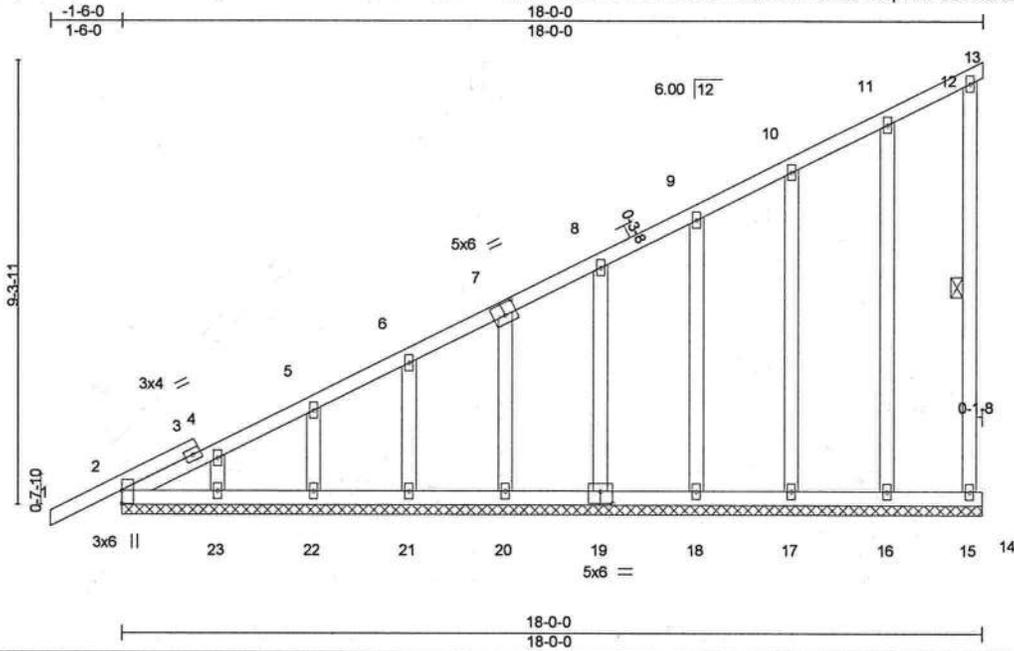
Job 1719993	Truss T26G	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774720
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Builders FirstSource, Lake City, FL

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ID:0ehRIBvXB1YhYwkokCGTf5zS55f-mwCmZDTu3pvucFLVYxoeDNIDUshq7pu2glbM4zRUdY

Job Reference (optional)



Scale: 1/4"=1'

Plate Offsets (X,Y)- [2:Edge,0-0-0], [7:0-3-0,0-3-0], [19:0-3-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-6-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	12	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 125 lb	FT = 20%

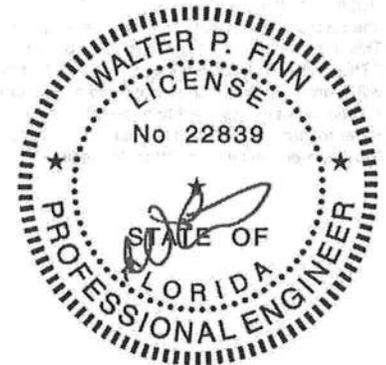
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 12-15

**REACTIONS.** All bearings 18-0-0.  
 (lb) - Max Horz 2=451(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 22, 23  
 Max Grav All reactions 250 lb or less at joint(s) 15, 2, 16, 17, 18, 19, 20, 21, 22, 23

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-501/181, 4-5=-449/161, 5-6=-388/139, 6-7=-330/119, 7-8=-273/100

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 9) Solid blocking is required on both sides of the truss at joint(s), 2.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 17, 18, 19, 20, 21, 22, 23.



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 Date:

April 12, 2019

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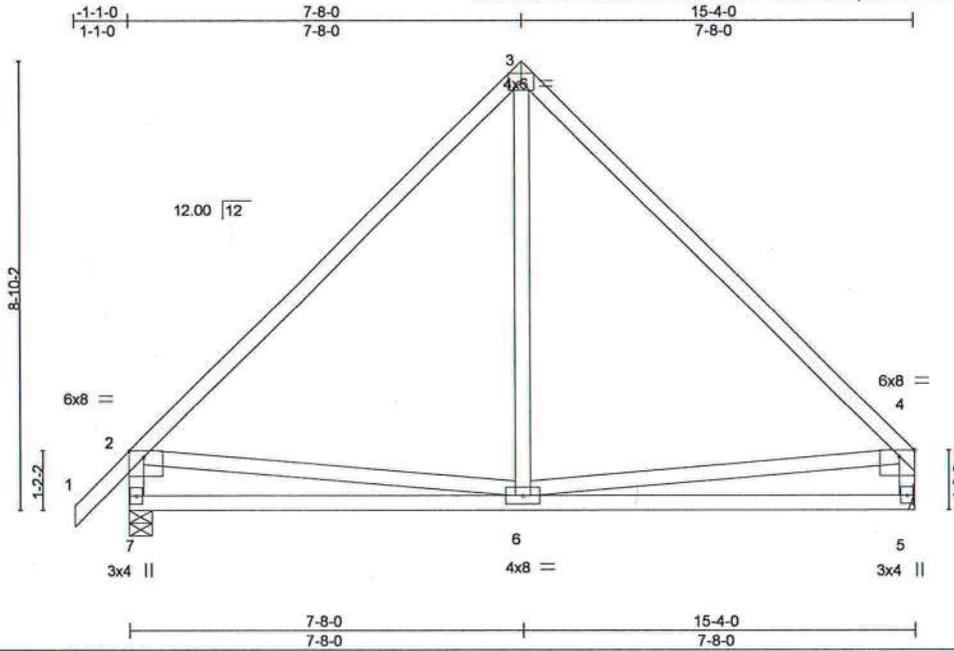
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 Tampa, FL 36610

Job 1719993	Truss T27	Truss Type Common	Qty 9	Ply 1	Lot 49 The Oaks / Waller T16774721
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Builders FirstSource, Lake City, FL

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ID:0ehRIBvXB1YhYwkokCGTf5zS55f-mwCmZDTu3pvucFCLVYxeoDN5WUIQq55u2glbM4zRUdY



Scale = 1:45.1

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.51	Vert(LL) -0.06 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.28	Vert(CT) -0.13 5-6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
	Code FBC2017/TPI2014			Weight: 94 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 7=626/0-5-8, 5=554/Mechanical  
 Max Horz 7=165(LC 11)  
 Max Uplift 7=-68(LC 12), 5=-62(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-544/189, 3-4=-534/177, 2-7=-560/250, 4-5=-488/190  
 BOT CHORD 6-7=-306/448, 5-6=-184/269  
 WEBS 3-6=-18/323, 2-6=-252/339

- 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) The Fabrication Tolerance at joint 2 = 16%, joint 4 = 16%
  - 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) 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) 7, 5.



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 Date:

April 12, 2019

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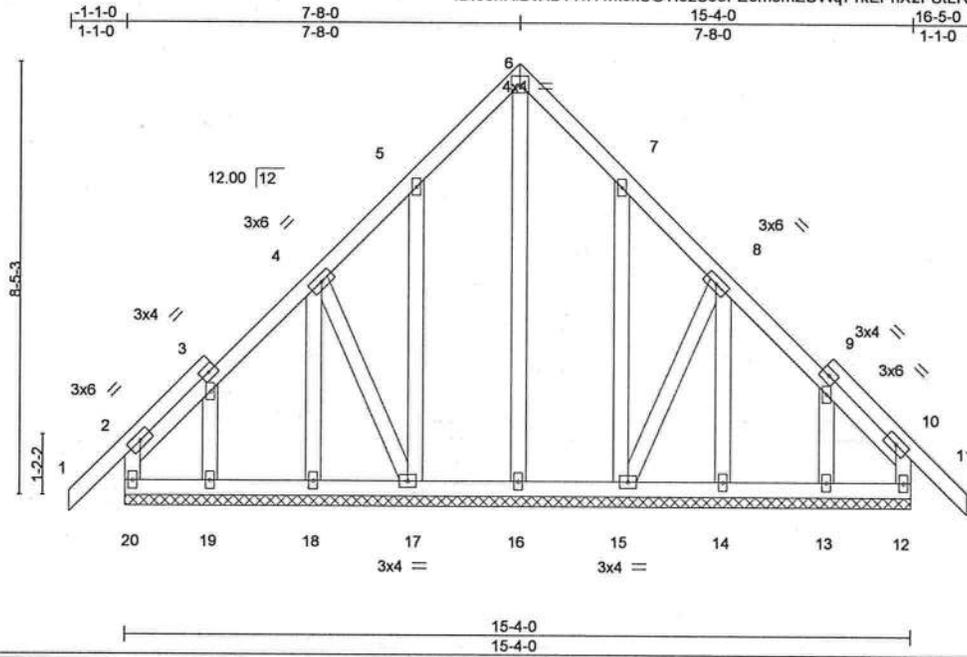
6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss T27G	Truss Type Common Supported Gable	Qty 1	Ply 1	Lot 49 The Oaks / Waller T16774722
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Buiders FirstSource, Lake City, FL

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ID:0ehRIBvXB1YhYwkocCGTf5zS55f-E6m8mZUWq71kEPnX2FSILRwTYtBZZYQ1HKU9uWzRUdX



Scale = 1:44.8

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	-0.00	10	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						
								Weight: 128 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 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, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 15-4-0.  
 (lb) - Max Horz 20=206(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 18, 19, 14, 13 except 17=314(LC 12), 15=314(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 18, 19, 14, 13 except 17=279(LC 19), 15=279(LC 20)

**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=23ft; Cat. II; Exp B; 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/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 20, 12, 18, 19, 14, 13 except (jt=lb) 17=314, 15=314.



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 Date:

April 12, 2019

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss T28	Truss Type MONOPITCH	Qty 10	Ply 1	Lot 49 The Oaks / Waller T16774723
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Builders FirstSource, Lake City, FL

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Scale = 1:35.9

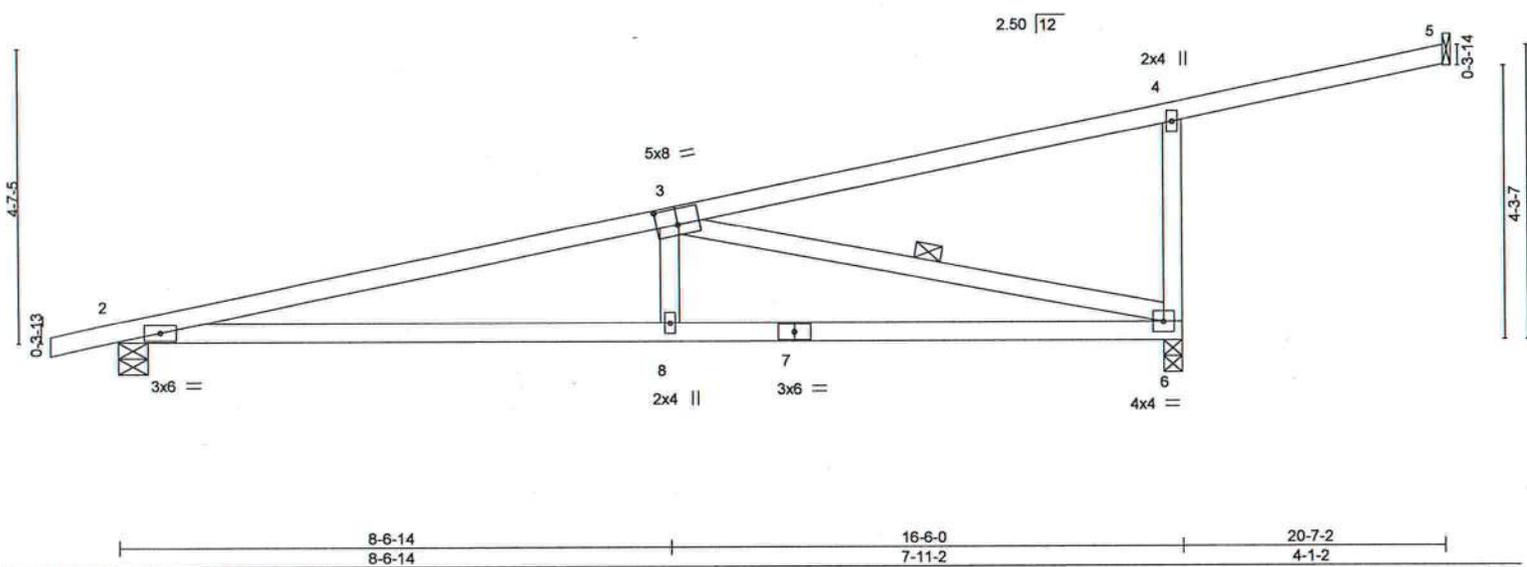


Plate Offsets (X,Y) - [3:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	-0.19	8-11	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.38	8-11	>512		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.04	6	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 76 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 3-3-1 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 7-1-1 oc bracing.  
 WEBS 1 Row at midpt 3-6

**REACTIONS.** (lb/size) 5=65/Mechanical, 6=776/0-3-8, 2=653/0-5-8  
 Max Horz 2=124(LC 8)  
 Max Uplift 5=-24(LC 12), 6=-174(LC 12), 2=-118(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1602/495, 4-6=-354/243  
 BOT CHORD 2-8=-623/1546, 6-8=-625/1533  
 WEBS 3-8=0/369, 3-6=-1556/640

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; 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) 5 except (jt=lb) 6=174, 2=118.



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 6904 Parke East Blvd, Tampa FL 33610  
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6904 Parke East Blvd.  
 Tampa, FL 36610

Job 1719993	Truss T28G	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774724
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Buiders FirstSource, Lake City, FL

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ID:0ehRIBvXB1YhYwkokCGTf5zS55f-AVuvBEWmMkHSTixwAgVLQs?\_hrw1WZKkezFzOzRUdV

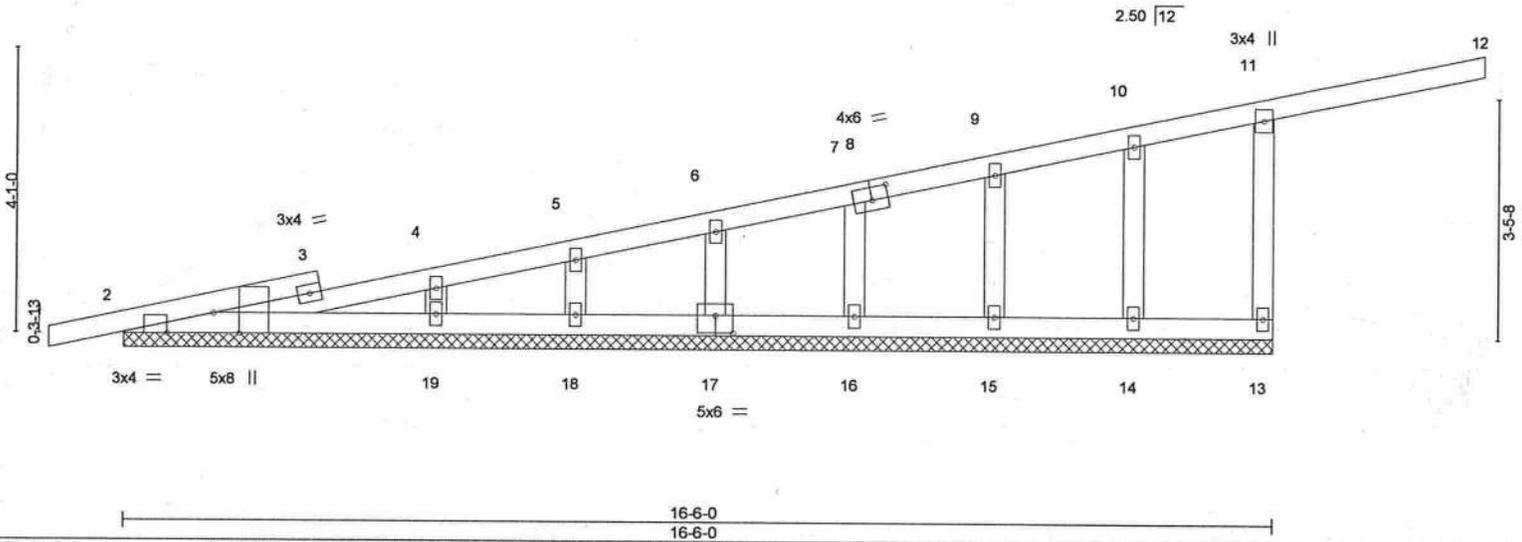


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-8-2,Edge], [7:0-1-13,0-0-0], [8:0-2-12,0-2-4], [8:0-0-0,0-1-12], [17:0-3-0,0-3-0]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.06	12	n/r	120	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	-0.00	12	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	13	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S						
								Weight: 75 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 16-6-0.  
 (lb) - Max Horz 2=153(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 17, 18, 19 except 13=179(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 15, 16, 17, 18 except 13=358(LC 1), 19=304(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 11-13=351/388

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 16, 17, 18, 19 except (jt=lb) 13=179.



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 Date:

April 12, 2019

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Job 1719993	Truss T29	Truss Type MONOPITCH GIRDER	Qty 1	Ply 2	Lot 49 The Oaks / Waller Job Reference (optional)	T16774725
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Buiders FirstSource, Lake City, FL

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Scale = 1:26.7

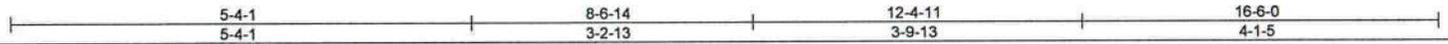
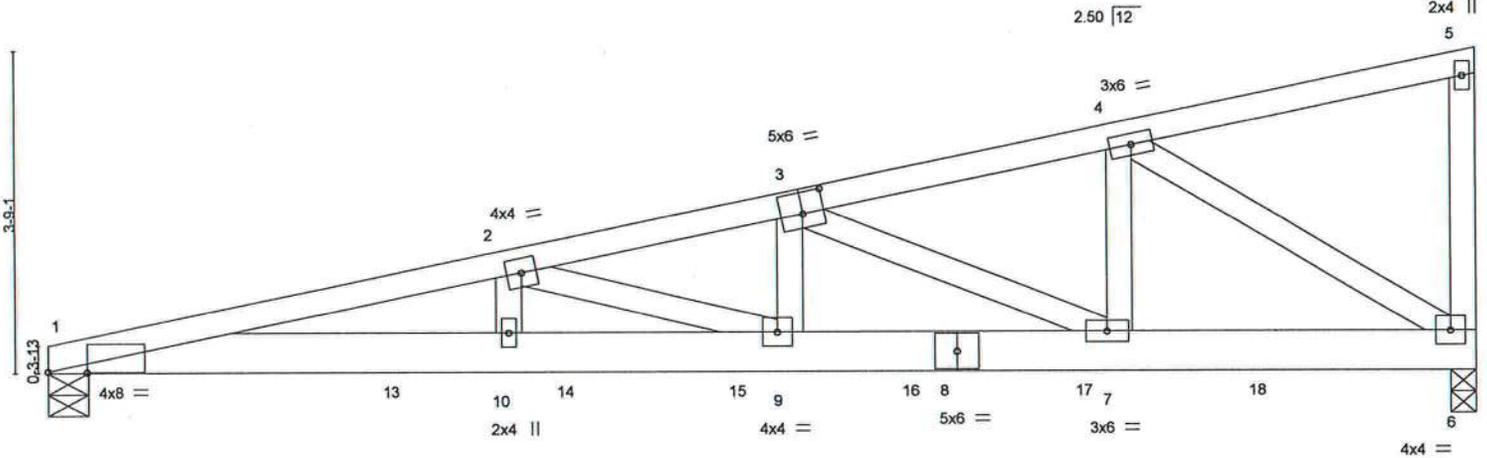


Plate Offsets (X,Y)- [1:0-5-6,0-0-2], [3:0-3-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.16	9-10	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.29	9-10	>666		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.04	6	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 182 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP M 26 \*Except\*  
6-8: 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-9-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 6=2954/0-3-8, 1=2517/0-5-8  
Max Horz 1=90(LC 19)  
Max Uplift 6=-405(LC 4), 1=-334(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-8891/1171, 2-3=-6523/855, 3-4=-3432/446  
BOT CHORD 1-10=-1215/8693, 9-10=-1215/8693, 7-9=-872/6247, 6-7=-466/3347  
WEBS 2-10=-110/1067, 2-9=-2437/345, 3-9=-212/1811, 3-7=-3210/449, 4-7=-306/2576,  
4-6=-3929/546

- 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: 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.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf, h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=405, 1=334.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 534 lb down and 82 lb up at 2-0-12, 534 lb down and 82 lb up at 4-0-12, 534 lb down and 82 lb up at 6-0-12, 534 lb down and 82 lb up at 8-0-12, 534 lb down and 82 lb up at 10-0-12, 534 lb down and 82 lb up at 12-0-12, and 534 lb down and 82 lb up at 14-0-12, and 541 lb down and 74 lb up at 16-4-4 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, 1-6=-20



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

April 12, 2019

Continued on page 2

**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 ANSIT/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 1719993	Truss T29	Truss Type MONOPITCH GIRDER	Qty 1	Ply <b>2</b>	Lot 49 The Oaks / Waller Job Reference (optional)	T16774725
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:31 2019 Page 2  
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**LOAD CASE(S)** Standard  
Concentrated Loads (lb)

Vert: 6--541(F) 12--534(F) 13--534(F) 14--534(F) 15--534(F) 16--534(F) 17--534(F) 18--534(F)

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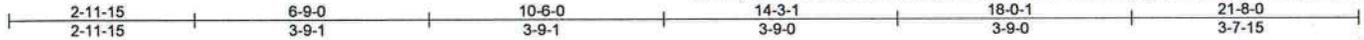
6904 Parke East Blvd.  
Tampa, FL 36610

Job 1719993	Truss T31	Truss Type FLAT	Qty 1	Ply 2	Lot 49 The Oaks / Waller Job Reference (optional)	T16774726
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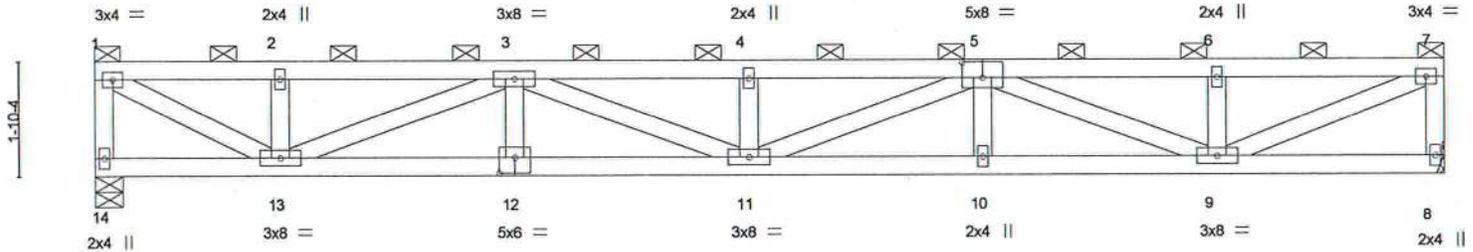


Plate Offsets (X,Y) - [5:0-4-0,0-3-0], [12:0-3-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.10	Vert(LL)	-0.09	11	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	-0.16	11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 218 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD 2-0-0 oc purlins (6-0-0 max.); 1-7, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 14=791/0-5-8, 8=791/Mechanical  
 Max Uplift 14=-134(LC 8), 8=-134(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-14=-758/272, 1-2=-1281/435, 2-3=-1281/435, 3-4=-2719/925, 4-5=-2719/925,  
 5-6=-1516/516, 6-7=-1516/516, 7-8=-748/274  
 BOT CHORD 12-13=-794/2333, 11-12=-794/2333, 10-11=-833/2449, 9-10=-833/2449  
 WEBS 1-13=-486/1429, 3-13=-1139/388, 3-11=-142/419, 7-9=-549/1615, 5-11=-99/293,  
 5-9=-1011/344

**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: 2x4 - 1 row 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=23ft; Cat. II; Exp B; 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 connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=134, 8=134.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 Date:

April 12, 2019

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6904 Parke East Blvd.  
 Tampa, FL 36610

Job 1719993	Truss T32	Truss Type FLAT GIRDER	Qty 1	Ply 2	Lot 49 The Oaks / Waller Job Reference (optional)	T16774727
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:32 2019 Page 1

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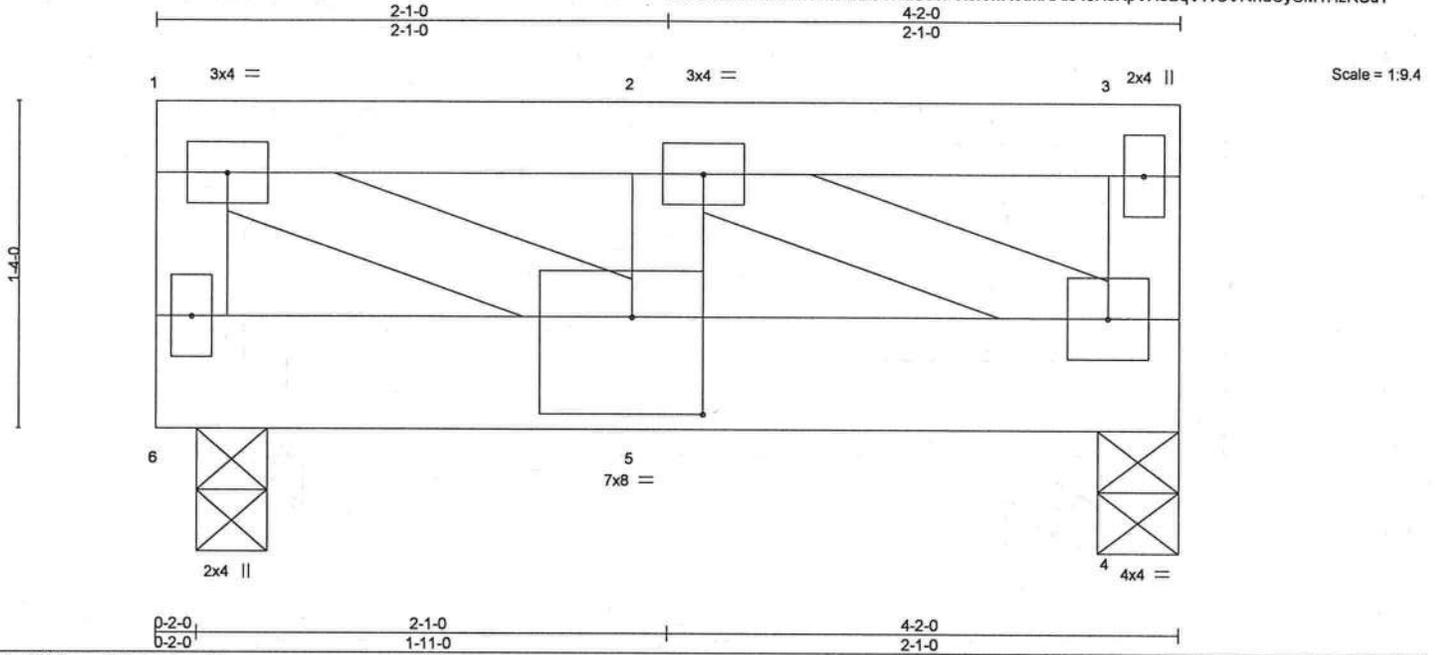


Plate Offsets (X,Y)-- [5:0-3-8,0-4-12]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	-0.01	5	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	-0.01	5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MP						
								Weight: 47 lb	FT = 20%

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

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

**REACTIONS.** (lb/size) 6=774/0-3-8, 4=774/0-4-0  
 Max Uplift 6=-136(LC 4), 4=-136(LC 4)  
 Max Grav 6=783(LC 2), 4=783(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-6=-642/119, 1-2=-1171/203  
 BOT CHORD 4-5=-203/1171  
 WEBS 2-5=-80/533, 1-5=-226/1307, 2-4=-1307/226

- 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: 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.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); 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) 6=136, 4=136.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1319 lb down and 239 lb up at 2-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-54, 4-6=-20  
 Concentrated Loads (lb)  
 Vert: 5=-1262(F)



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 Date:

April 12, 2019

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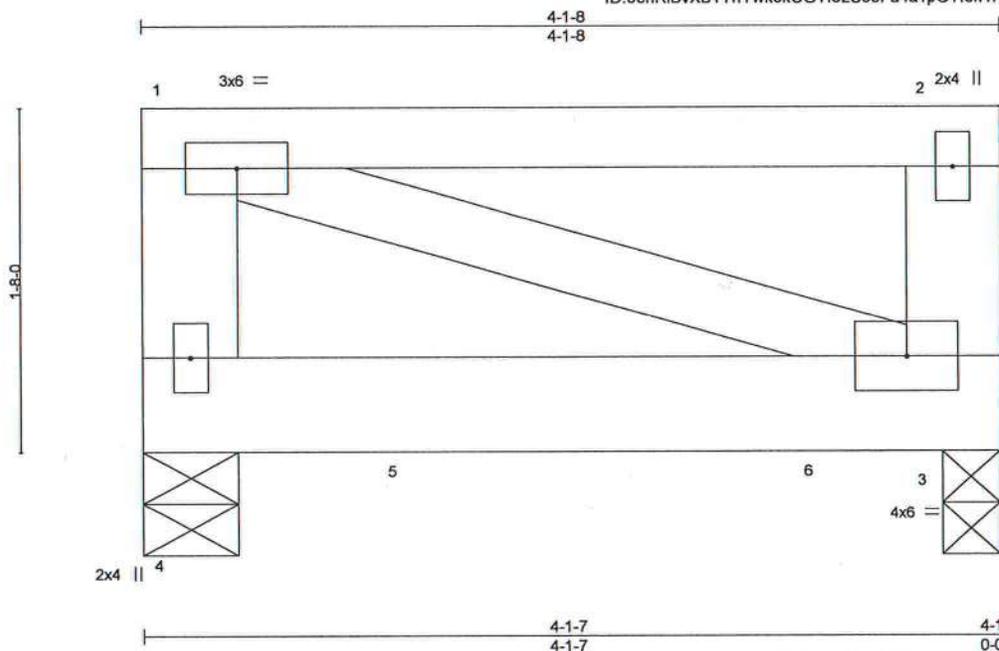


6904 Parke East Blvd.  
 Tampa, FL 33610

Job 1719993	Truss T33	Truss Type Flat Girder	Qty 1	Ply 2	Lot 49 The Oaks / Waller Job Reference (optional)	T16774728
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:33 2019 Page 1  
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Scale = 1:11.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.25	Vert(LL) -0.01 3-4 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Vert(CT) -0.02 3-4 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 3 n/a n/a	Weight: 50 lb	FT = 20%
	Code FBC2017/TPI2014				

- LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x6 SP No.2 \*Except\*  
1-3: 2x4 SP No.3
- BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=519/0-5-8, 3=665/0-3-6  
Max Uplift 4=-108(LC 4), 3=-126(LC 4)

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

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 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=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; 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) 4=108, 3=126.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 455 lb down and 93 lb up at 1-4-4, and 457 lb down and 85 lb up at 3-4-4 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: 1-2=-54, 3-4=-20  
Concentrated Loads (lb)  
Vert: 5=-455(B) 6=457(B)



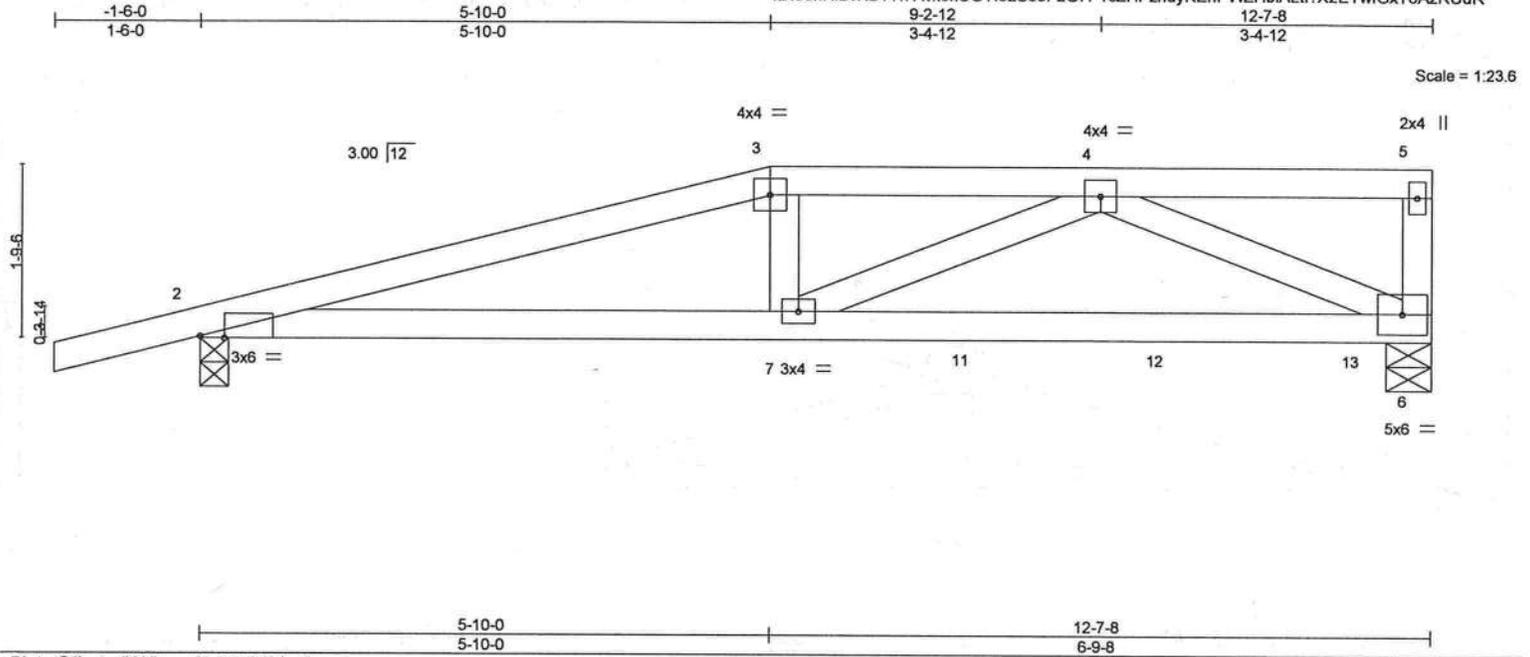
Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

April 12, 2019

Job 1719993	Truss T34	Truss Type Half Hip Girder	Qty 1	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774729
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8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:34 2019 Page 1  
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	0.22	6-7	>694	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.99	Vert(CT)	-0.34	6-7	>446		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 54 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-1-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 2=867/0-3-8, 6=1085/0-5-8  
Max Horz 2=54(LC 4)  
Max Uplift 2=-375(LC 4), 6=-451(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2484/1027, 3-4=-2403/1019  
BOT CHORD 2-7=-1007/2376, 6-7=-612/1482  
WEBS 3-7=-135/314, 4-7=-448/1013, 4-6=-1440/591

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=375, 6=451.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 90 lb up at 5-10-0 on top chord, and 273 lb down and 195 lb up at 5-10-0, 184 lb down and 106 lb up at 7-10-12, and 184 lb down and 106 lb up at 9-10-12, and 188 lb down and 102 lb up at 11-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-5=-54, 6-8=-20  
Concentrated Loads (lb)  
Vert: 3=-117(F) 7=-273(F) 11=-184(F) 12=-184(F) 13=-188(F)



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Date:

April 12, 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 ANSITPI1 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 1719993	Truss T35	Truss Type MONOPITCH	Qty 2	Ply 1	Lot 49 The Oaks / Waller Job Reference (optional)	T16774730
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Builders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:34 2019 Page 1

ID:0ehRIBvXB1YhYwkokCGTf5zS55f-2G7P1cZHPznuYKEhPWZhbIATiIA2zGWwfGxT6AzRUdR

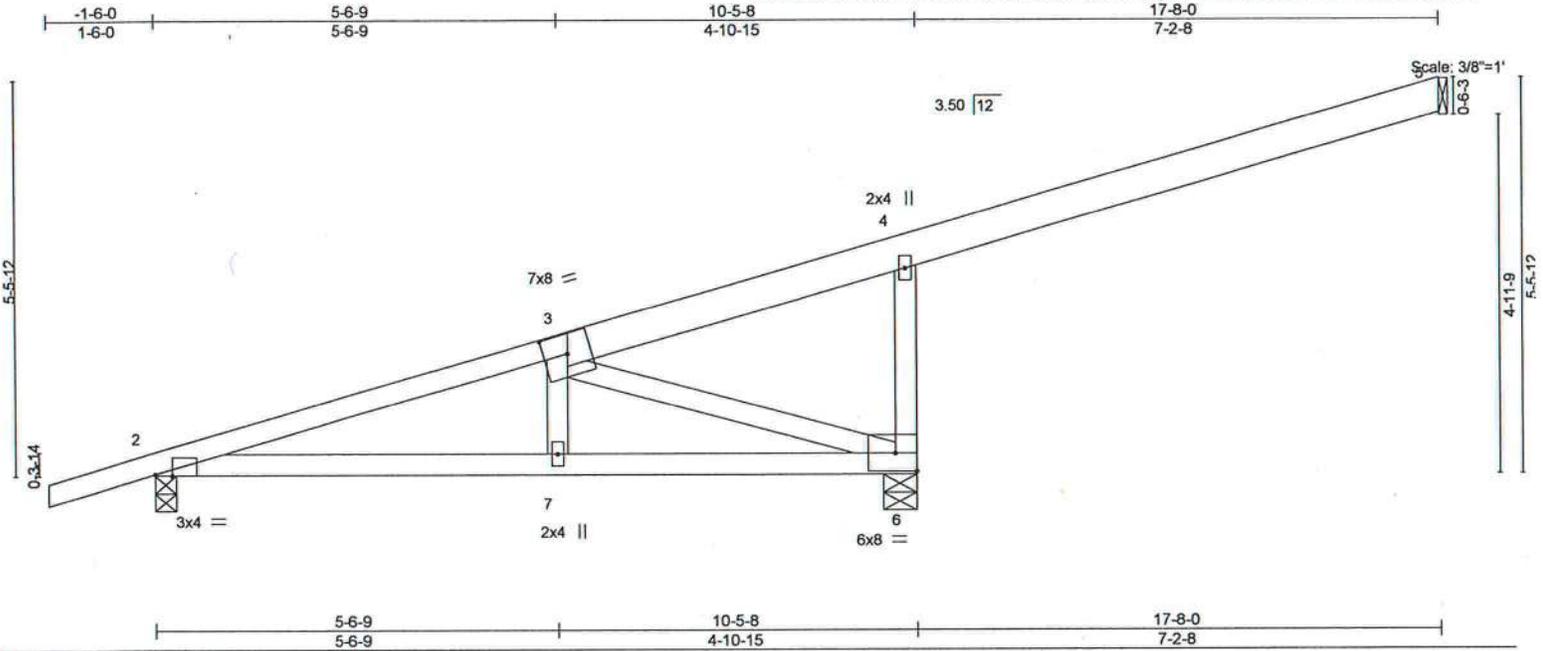


Plate Offsets (X,Y)-	[2:0-2-13,Edge], [3:0-4-0,0-3-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) 0.07	7-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.31	Vert(CT) -0.06	7-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) -0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014	Matrix-MS						
							Weight: 69 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2 \*Except\*  
 1-3: 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 6-4-14 oc bracing.

**REACTIONS.** (lb/size) 5=157/Mechanical, 2=440/0-3-8, 6=640/0-5-8  
 Max Horz 2=153(LC 8)  
 Max Uplift 5=-61(LC 12), 2=-172(LC 8), 6=-268(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-624/584, 4-6=-394/326  
 BOT CHORD 2-7=-766/578, 6-7=-742/566  
 WEBS 3-7=-274/232, 3-6=-612/791

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=23ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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=172, 6=268.



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 Date:

April 12,2019

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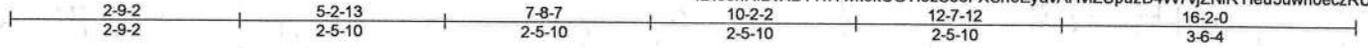
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 Tampa, FL 36610

Job 1719993	Truss TG01	Truss Type FLAT GIRDER	Qty 1	Ply 3	Lot 49 The Oaks / Waller Job Reference (optional)	T16774731
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Buiders FirstSource, Lake City, FL

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:28:35 2019 Page 1

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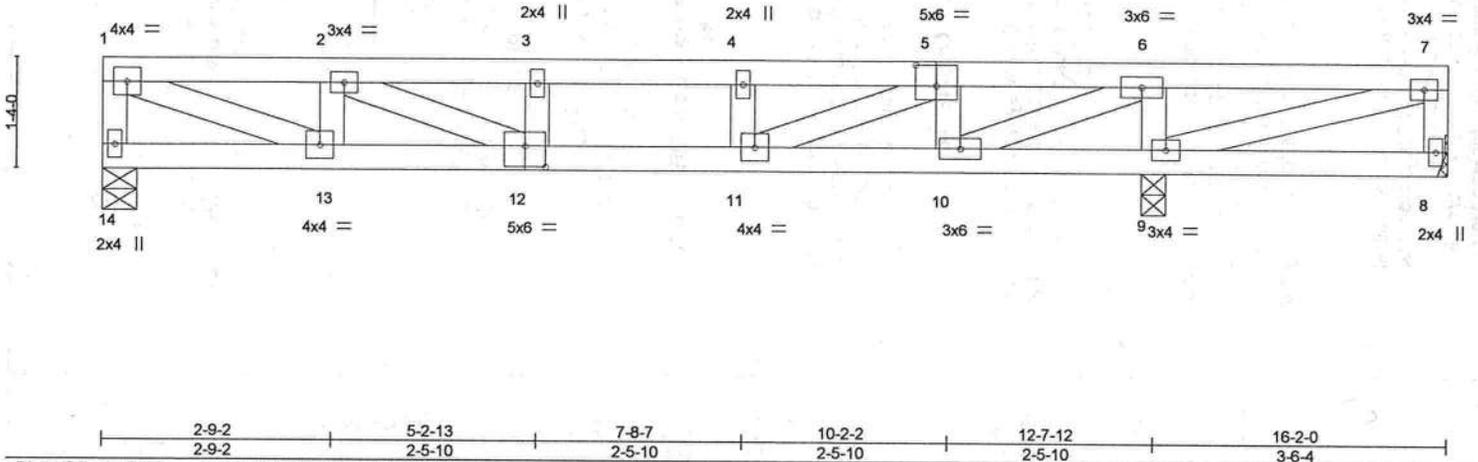


Plate Offsets (X,Y)--	[5:0-3-0,0-3-0], [12:0-3-0,0-3-0]
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<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.62	Vert(LL) -0.08 12 >999 360		
BCLL 0.0 *	Lumber DOL 1.00	WB 0.61	Vert(CT) -0.11 12 >999 240		
BCDL 5.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 8 n/a n/a		
	Code FBC2017/TPI2014		Wind(LL) 0.04 12 >999 240	Weight: 224 lb	FT = 20%

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

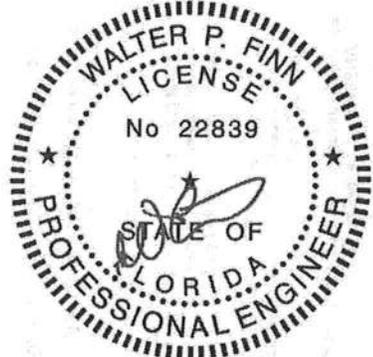
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 9-10.

**REACTIONS.** (lb/size) 14=1704/0-5-0, 8=-343/Mechanical, 9=3560/0-3-8  
Max Uplift 14=-194(LC 8), 8=-343(LC 1), 9=-404(LC 8)  
Max Grav 14=1704(LC 1), 8=39(LC 8), 9=3560(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-14=-1645/406, 1-2=-3329/802, 2-3=-4112/987, 3-4=-4184/1008, 4-5=-4184/1008, 5-6=-1321/317, 6-7=-531/2212, 7-8=-58/293  
BOT CHORD 12-13=-802/3329, 11-12=-1008/4184, 10-11=-375/1553, 9-10=-2212/531  
WEBS 1-13=-819/3400, 2-13=-1208/313, 2-12=-203/857, 3-12=-521/145, 4-11=-954/251, 5-11=-693/2883, 5-10=-1672/420, 6-10=-921/3834, 6-9=-2666/669, 7-9=-2327/559

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row 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=23ft; Cat. II; Exp B; 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) except (jt=lb) 14=194, 8=343, 9=404.
  - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-7=-300, 8-14=-10



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Date:

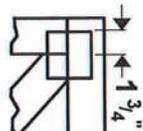
April 12, 2019

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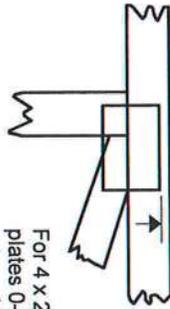
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Tampa, FL 36610

# Symbols

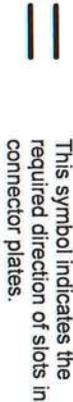
## PLATE LOCATION AND ORIENTATION



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



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



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

## PLATE SIZE

4 X 4

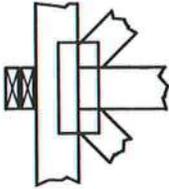
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

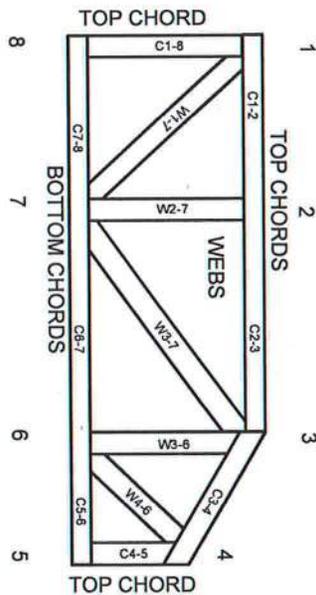


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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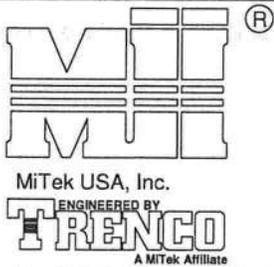


MITek Engineering Reference Sheet: MIL-7473 rev. 10/03/2015

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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



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

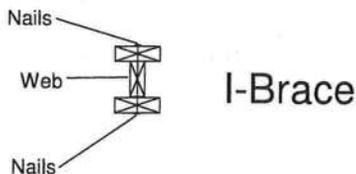
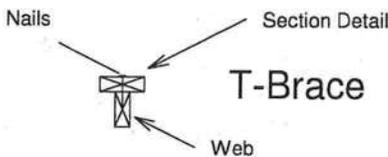
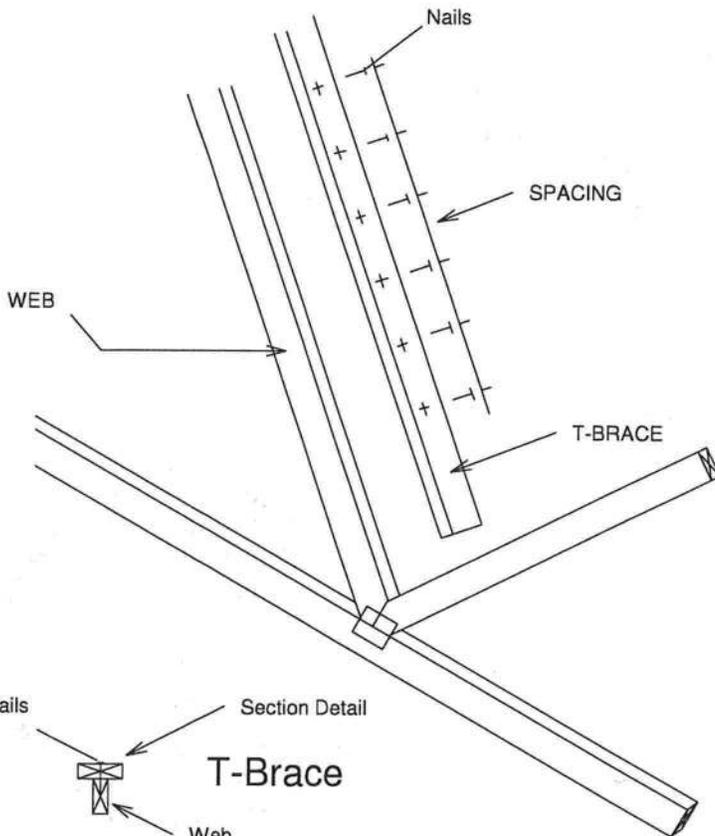
Web Size	Specified Continuous Rows of Lateral Bracing	
	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

Brace Size for Two-Ply Truss	
------------------------------	--

Specified Continuous Rows of Lateral Bracing

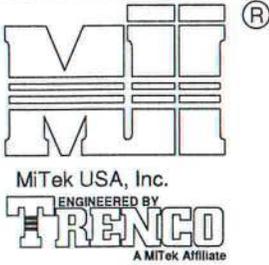
Web Size	Specified Continuous Rows of Lateral Bracing	
	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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



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 Date:

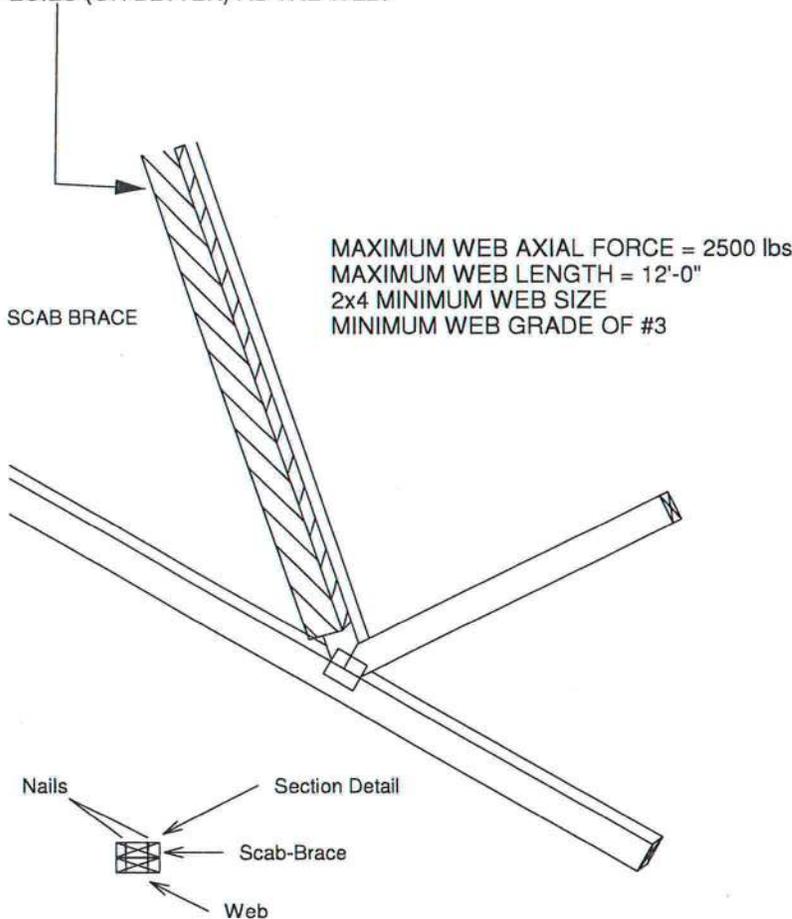
February 12, 2018



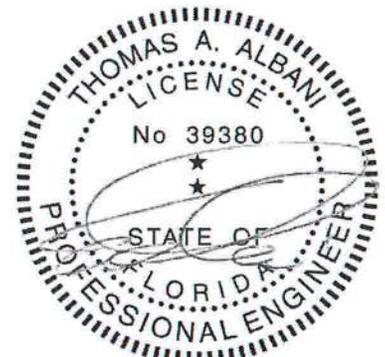
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.  
Scab must cover full length of web +/- 6".

\*\*\* 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.

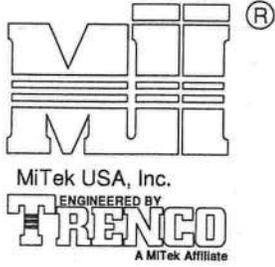


Scab-Brace must be same species grade (or better) as web member.

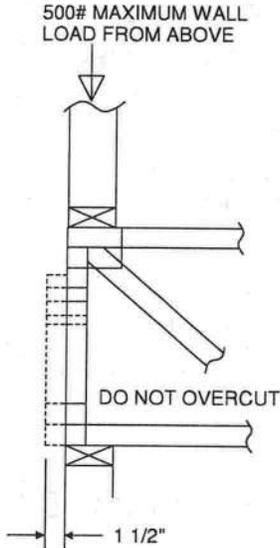


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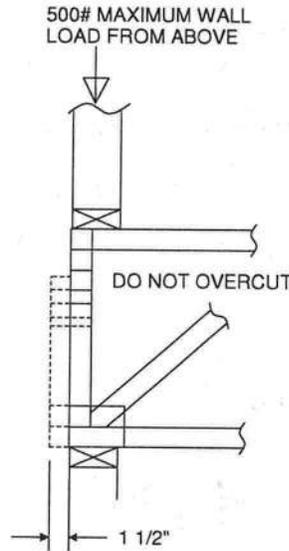
February 12, 2018



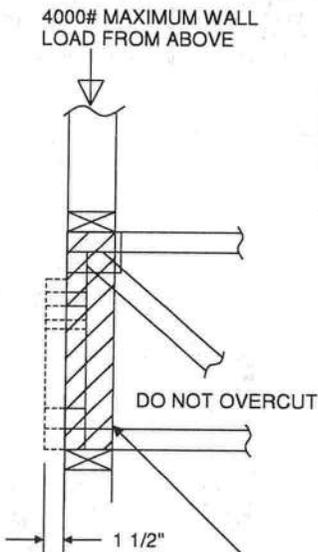
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS 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.



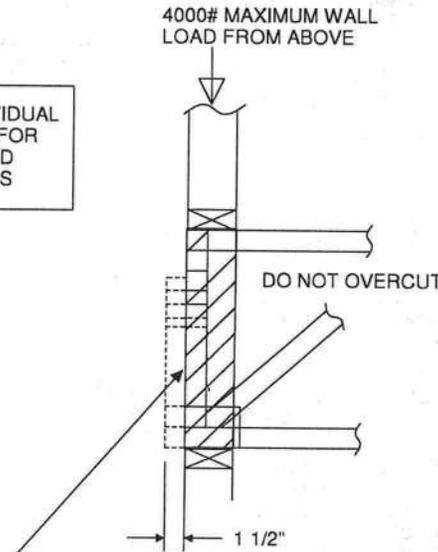
REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



TRUSSES BUILT WITH 4x2 MEMBERS



REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



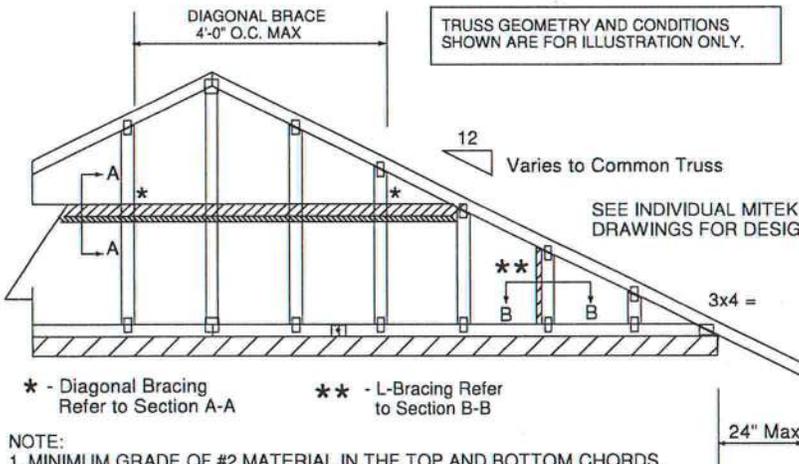
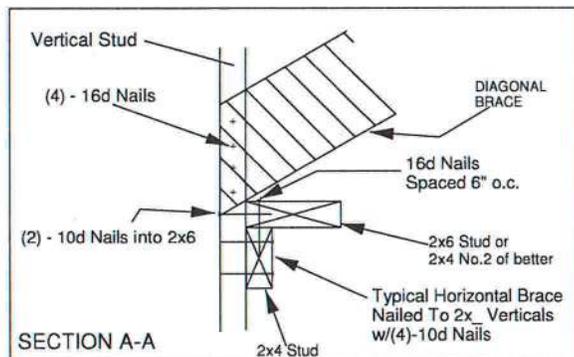
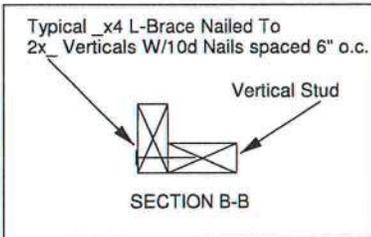
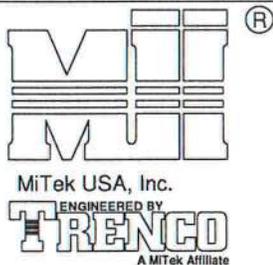
TRUSSES BUILT WITH 4x2 MEMBERS

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.



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Date:

February 12, 2018



\* - 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. 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	Maximum Stud Length					2 DIAGONAL BRACES AT 1/3 POINTS
		Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE		
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	

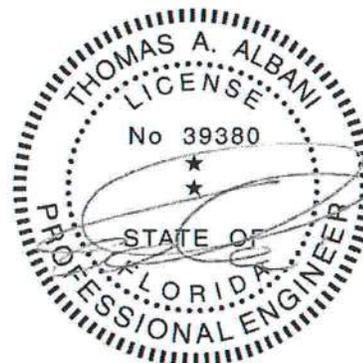
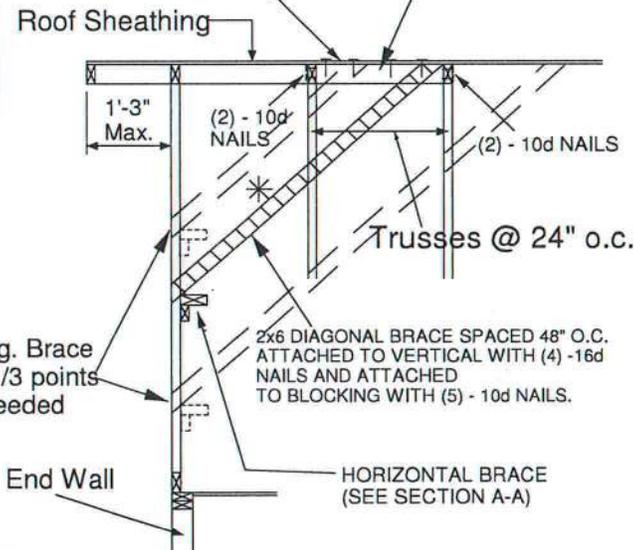
\* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

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.

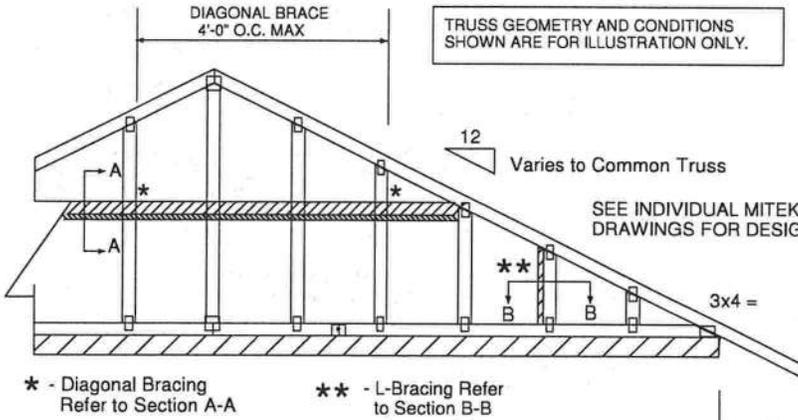
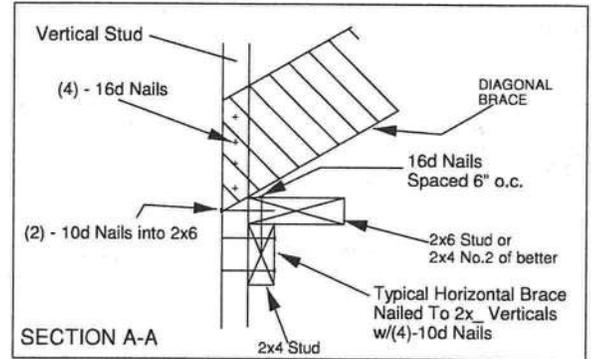
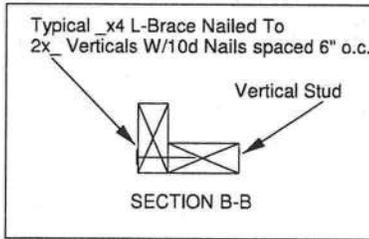
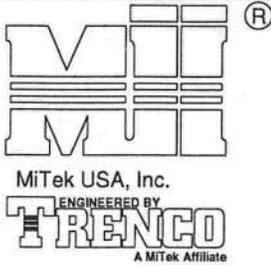
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

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



Thomas A. Albani PE No.39380  
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 Date:

February 12, 2018



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

\* - Diagonal Bracing Refer to Section A-A

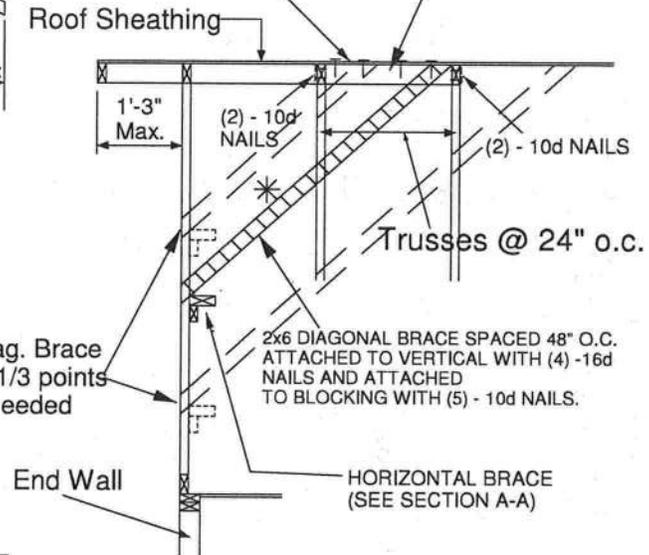
\*\* - L-Bracing Refer to Section B-B

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. 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	Maximum Stud Length				
		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

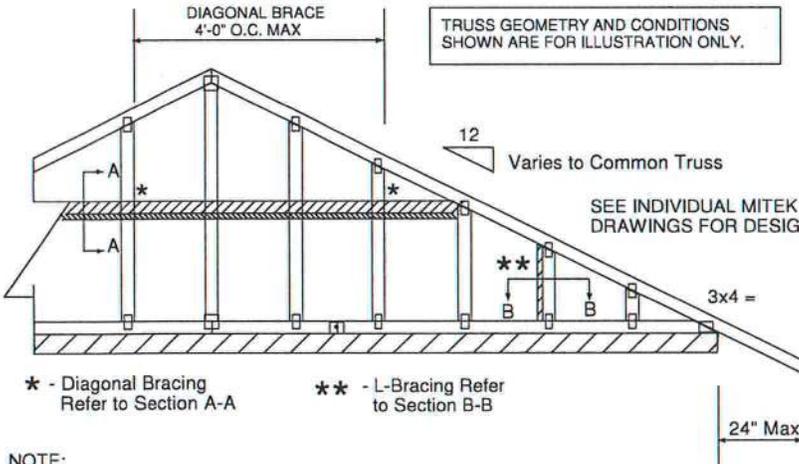
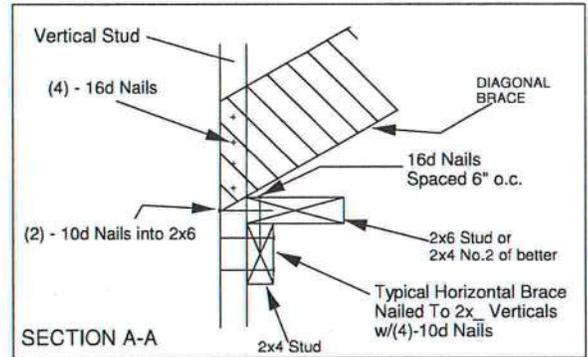
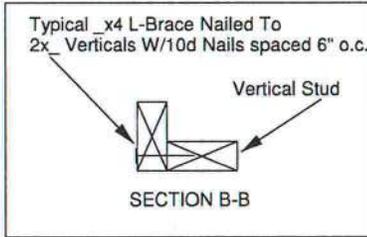
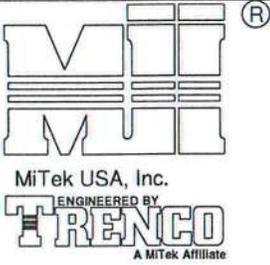
\* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

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.

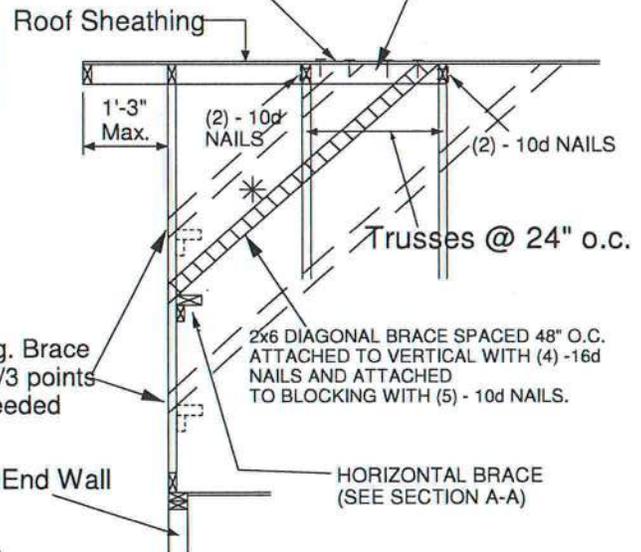


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 Date: February 12, 2018



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



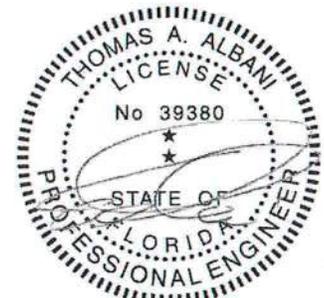
- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
  2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
  3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING 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	Maximum Stud Length					2 DIAGONAL BRACES AT 1/3 POINTS
		Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE		
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 l-braces attached to both edges. Fasten T and l braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

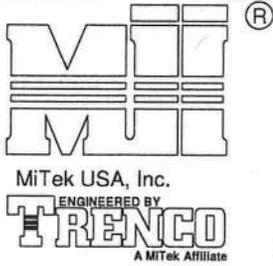
MAXIMUM WIND SPEED = 140 MPH  
 MAX MEAN ROOF HEIGHT = 30 FEET  
 CATEGORY II BUILDING  
 EXPOSURE B or C  
 ASCE 7-98, ASCE 7-02, ASCE 7-05  
 DURATION OF LOAD INCREASE : 1.60

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

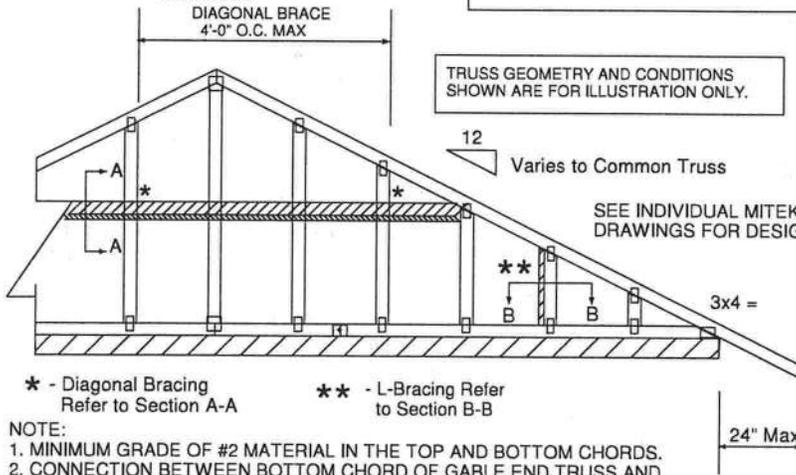
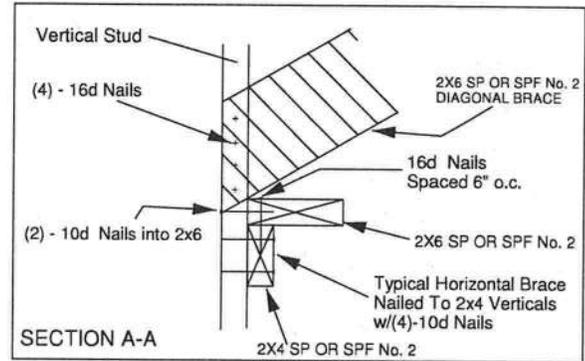
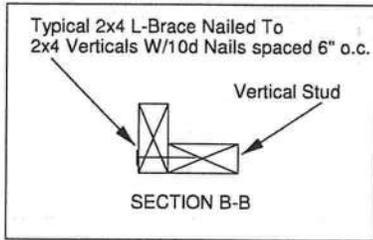


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 Date:

January 19, 2018

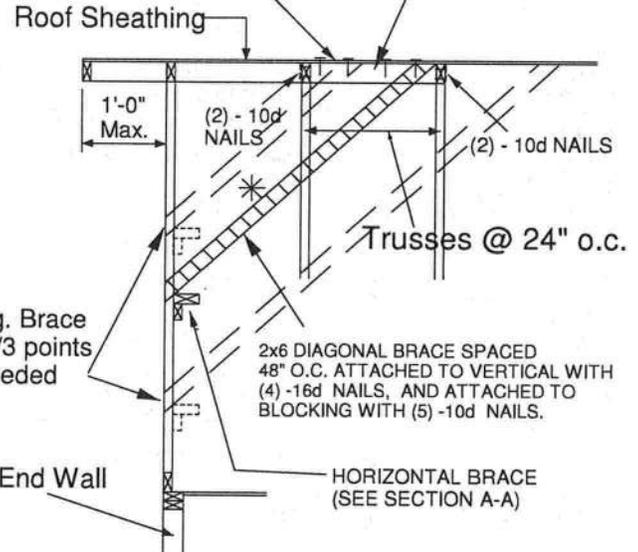


MiTek USA, Inc.  
ENGINEERED BY  
**TRENCO**  
A MiTek Affiliate



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



\* - Diagonal Bracing Refer to Section A-A  
\*\* - L-Bracing Refer to Section B-B

NOTE:

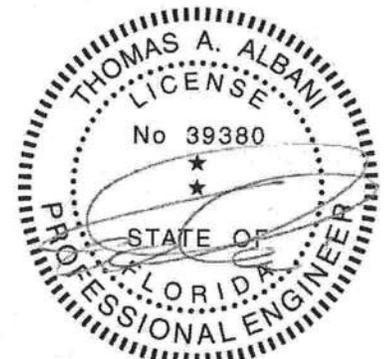
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF 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.	3-9-7	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 l-braces attached to both edges. Fasten T and l 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 l braces must be 2x4 SPF No. 2 or SP No. 2.

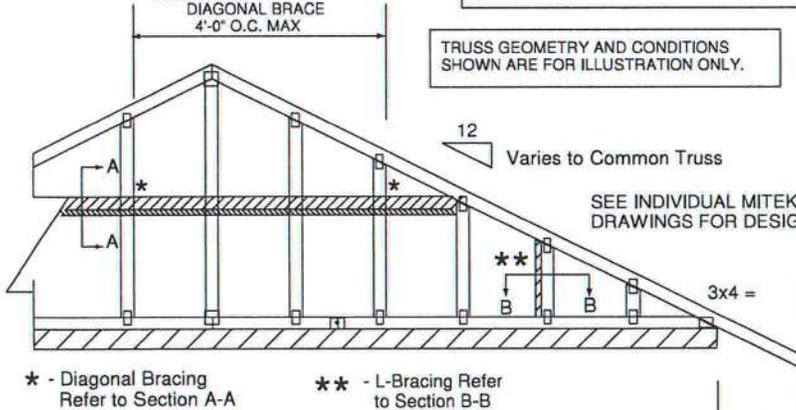
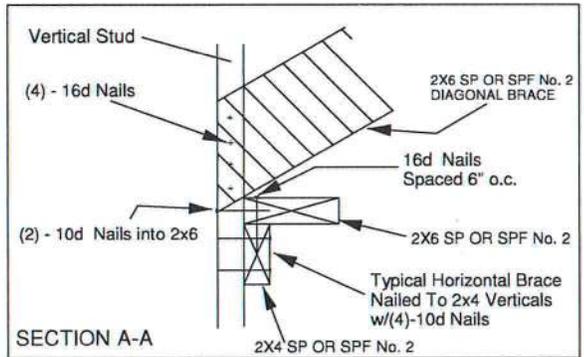
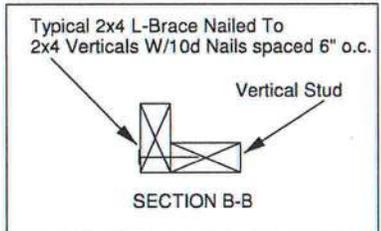
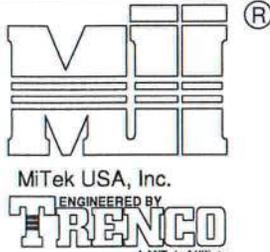
MAX MEAN ROOF HEIGHT = 30 FEET  
EXPOSURE D  
ASCE 7-10 170 MPH  
DURATION OF LOAD INCREASE : 1.60

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



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February 12, 2018



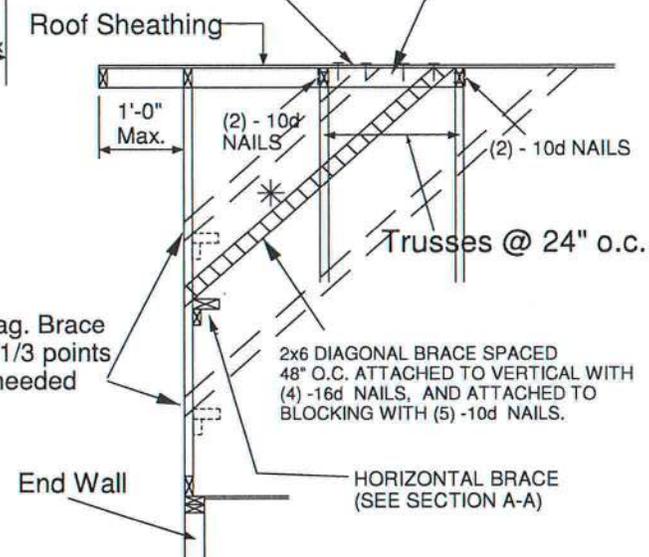
\* - Diagonal Bracing Refer to Section A-A  
 \*\* - L-Bracing Refer to Section B-B

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")

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	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

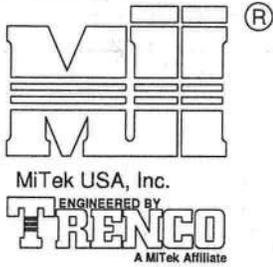
\* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and l braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T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



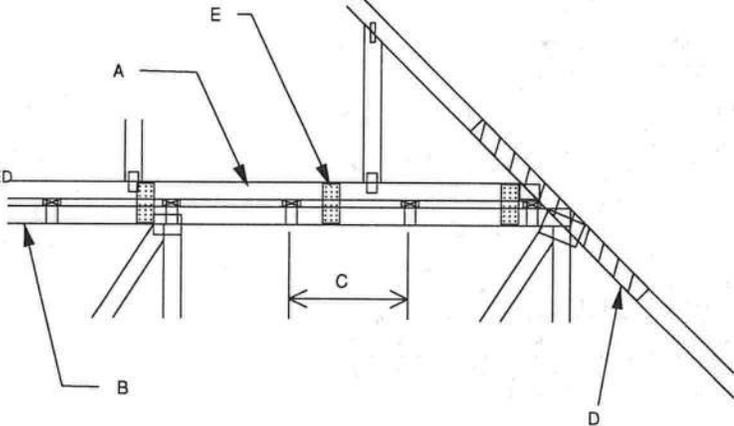
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 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: February 12, 2018



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.

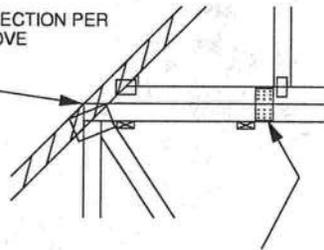
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X  $\frac{1}{2}$ " 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 SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X6 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)



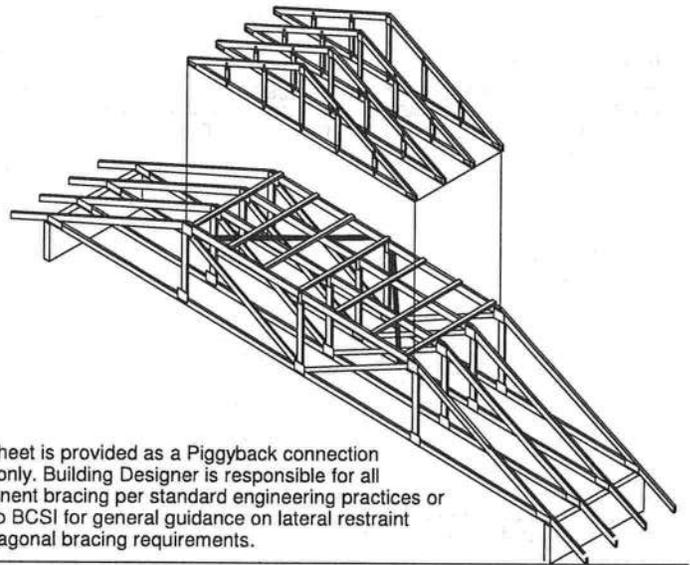
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

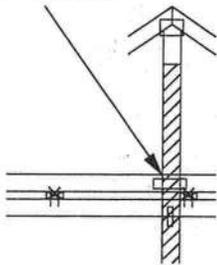


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



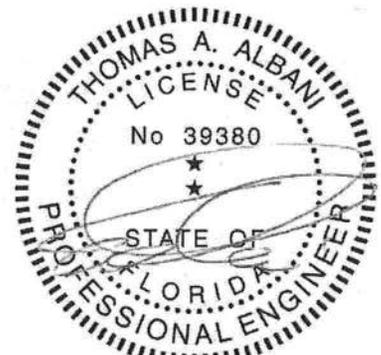
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



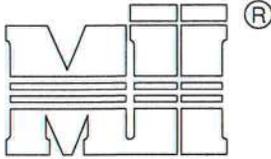
FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 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  $\frac{1}{2}$ " 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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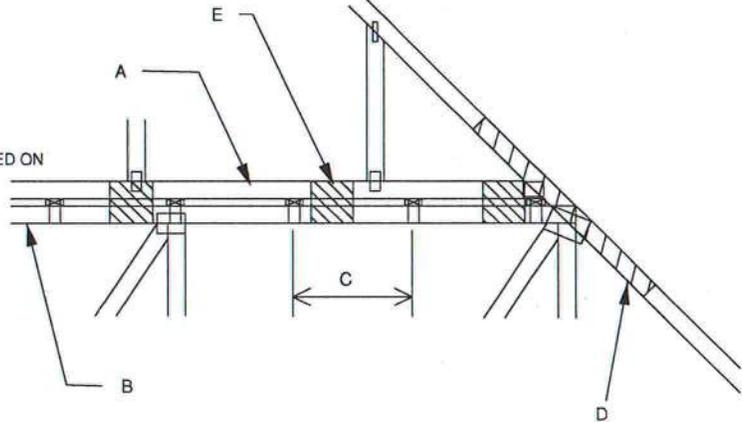
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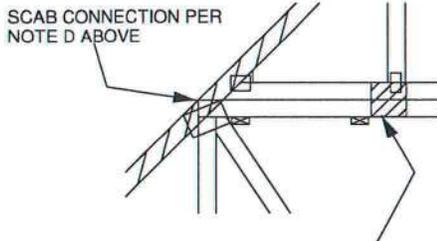
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E  
 MAX MEAN ROOF HEIGHT = 30 FEET  
 MAX TRUSS SPACING = 24" O.C.  
 CATEGORY II BUILDING  
 EXPOSURE B or C  
 ASCE 7-10  
 DURATION OF LOAD INCREASE : 1.60

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

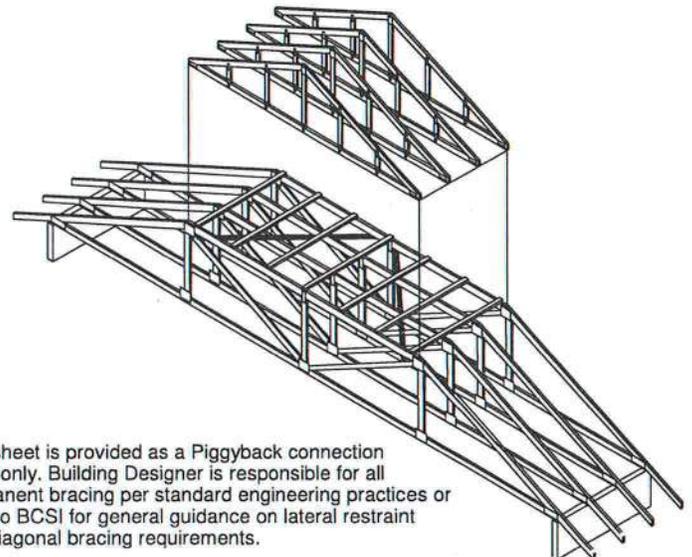
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X  $\frac{7}{16}$  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.

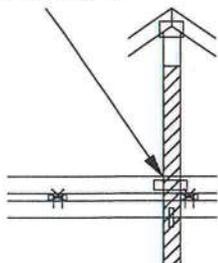


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



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



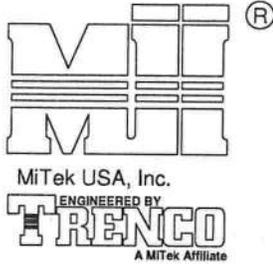
FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 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  $\frac{7}{16}$  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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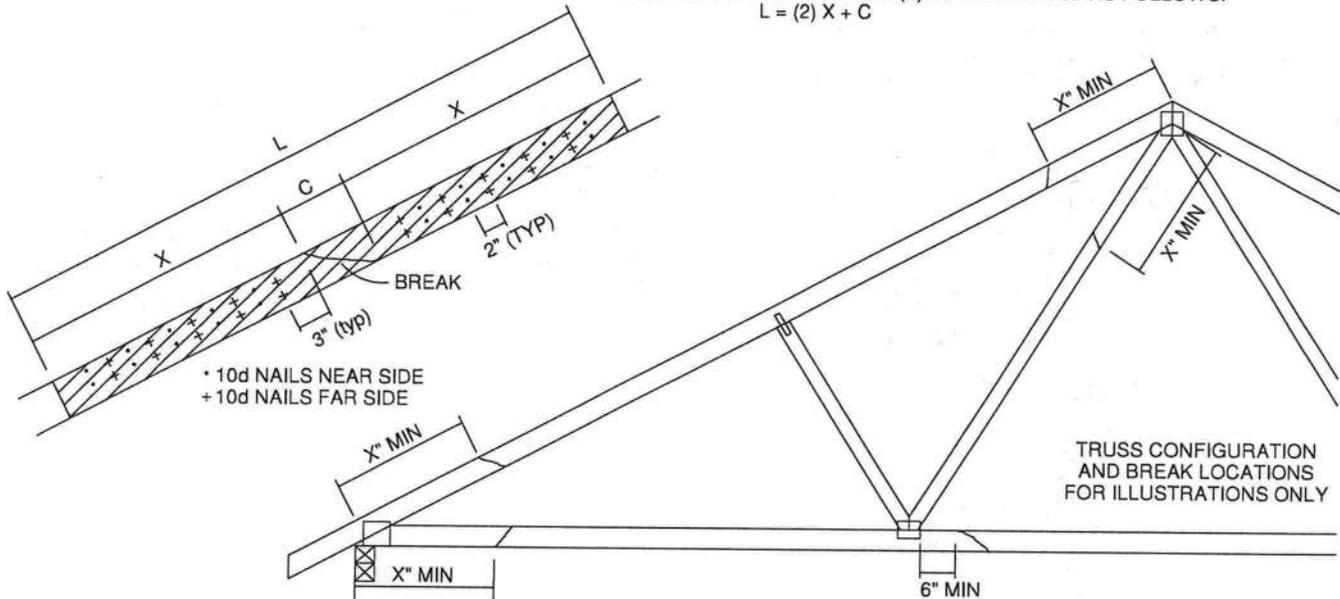


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	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

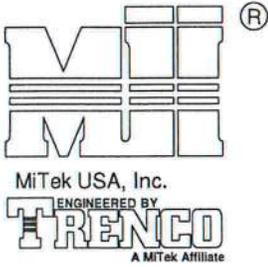
NOTES:

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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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

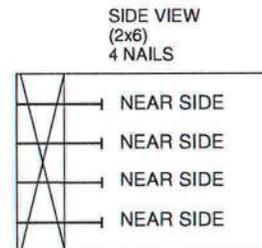
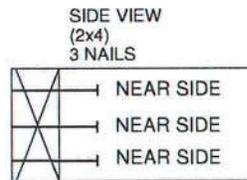
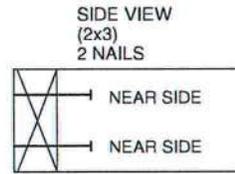
VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

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.

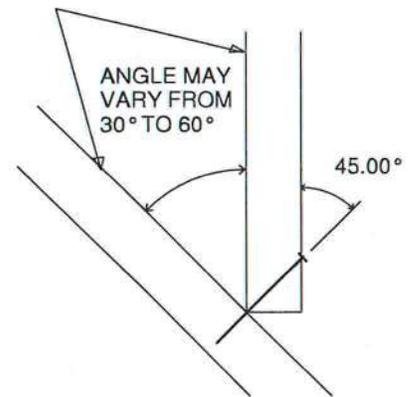
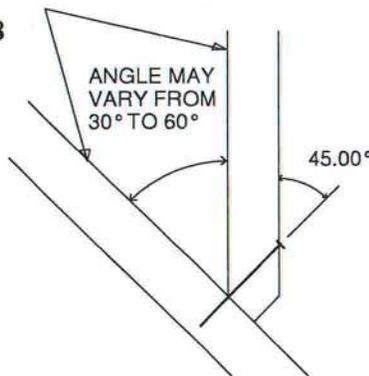
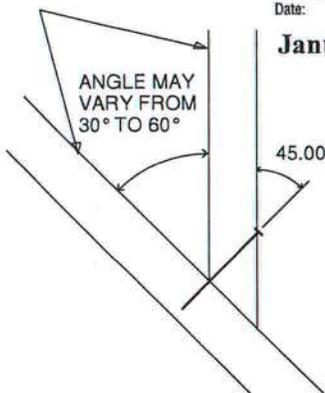
EXAMPLE:  
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

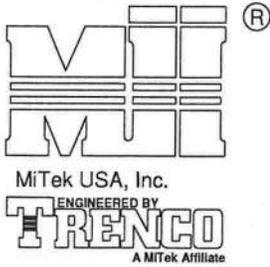
For load duration increase of 1.15:  
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity



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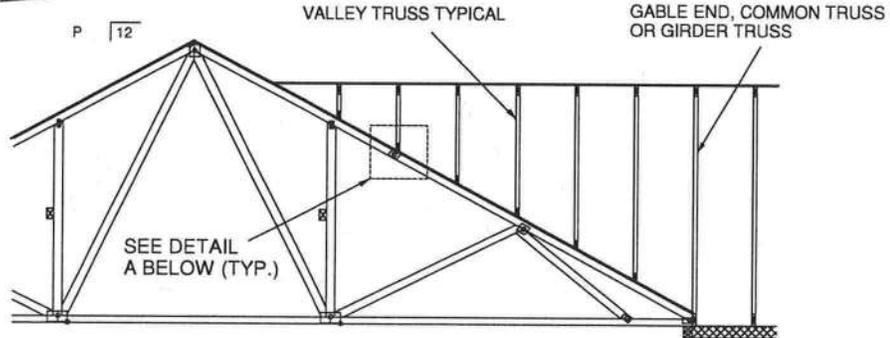
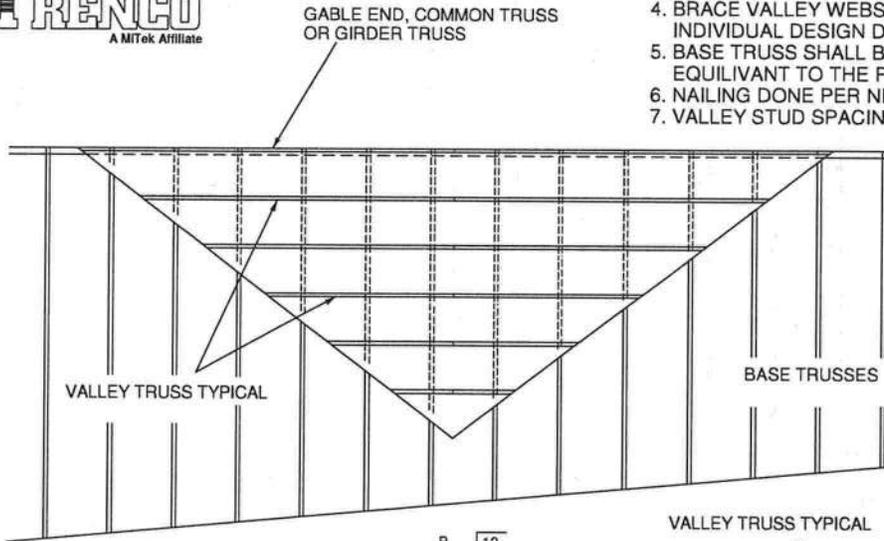
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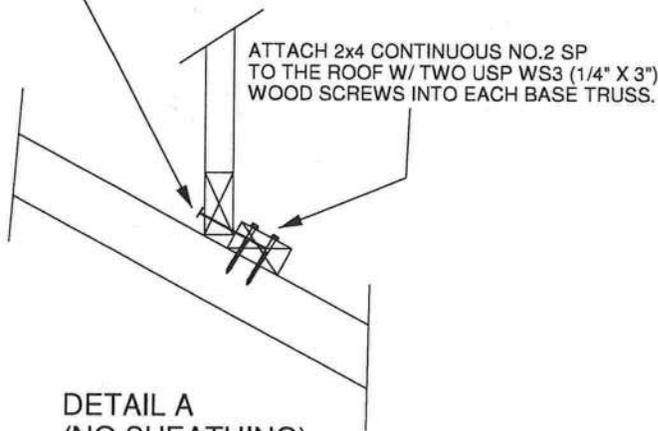


GENERAL SPECIFICATIONS

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 EQUIVALENT 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.



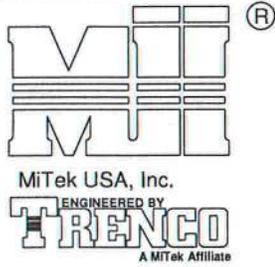
DETAIL A  
(NO SHEATHING)  
N.T.S.

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



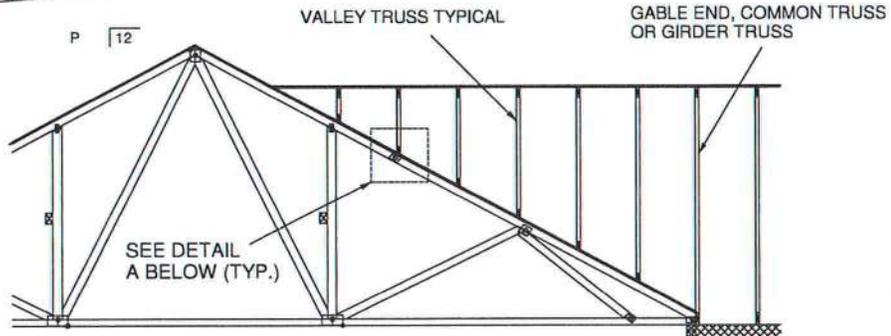
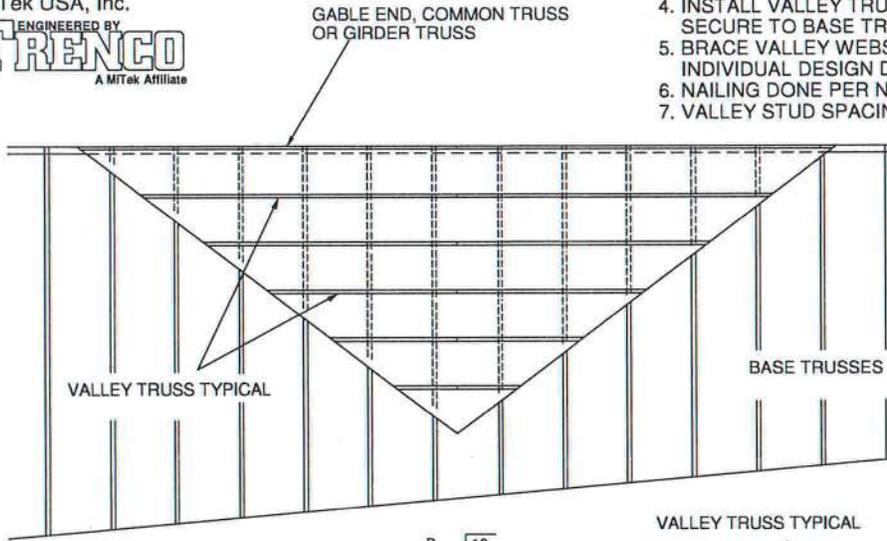
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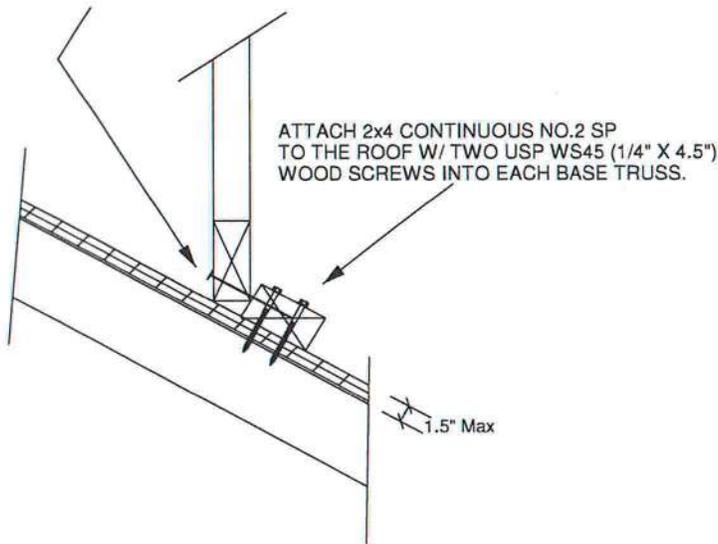


GENERAL SPECIFICATIONS

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.

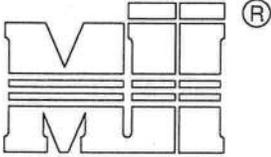


WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH  
 WIND DESIGN PER ASCE 7-10 160 MPH  
 MAX MEAN ROOF HEIGHT = 30 FEET  
 ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12  
 CATEGORY II BUILDING  
 EXPOSURE C  
 WIND DURATION OF LOAD INCREASE : 1.60  
 MAX TOP CHORD TOTAL LOAD = 50 PSF  
 MAX SPACING =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



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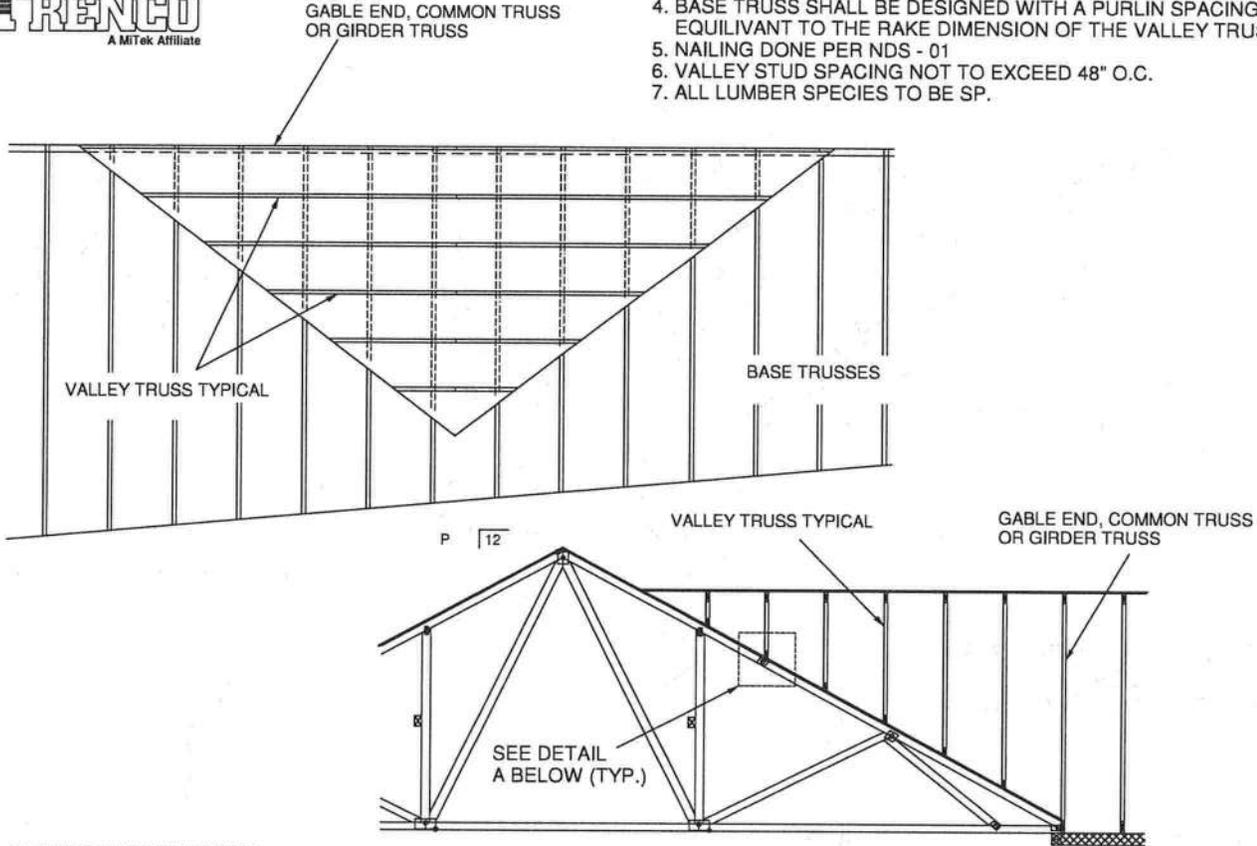


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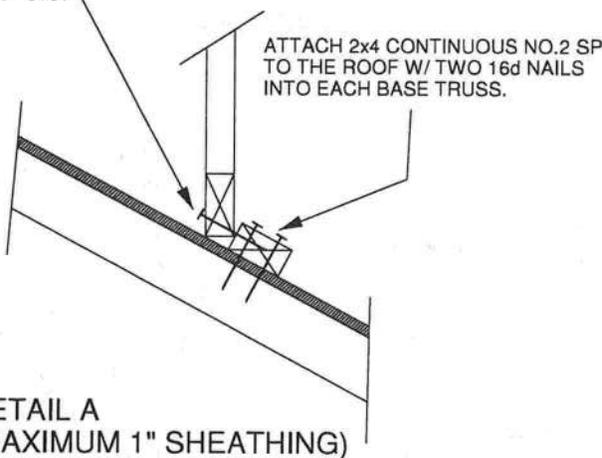


GENERAL SPECIFICATIONS

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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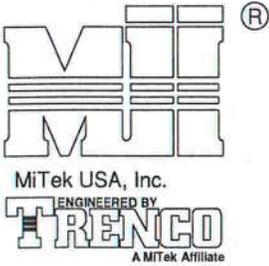
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AUGUST 1, 2016

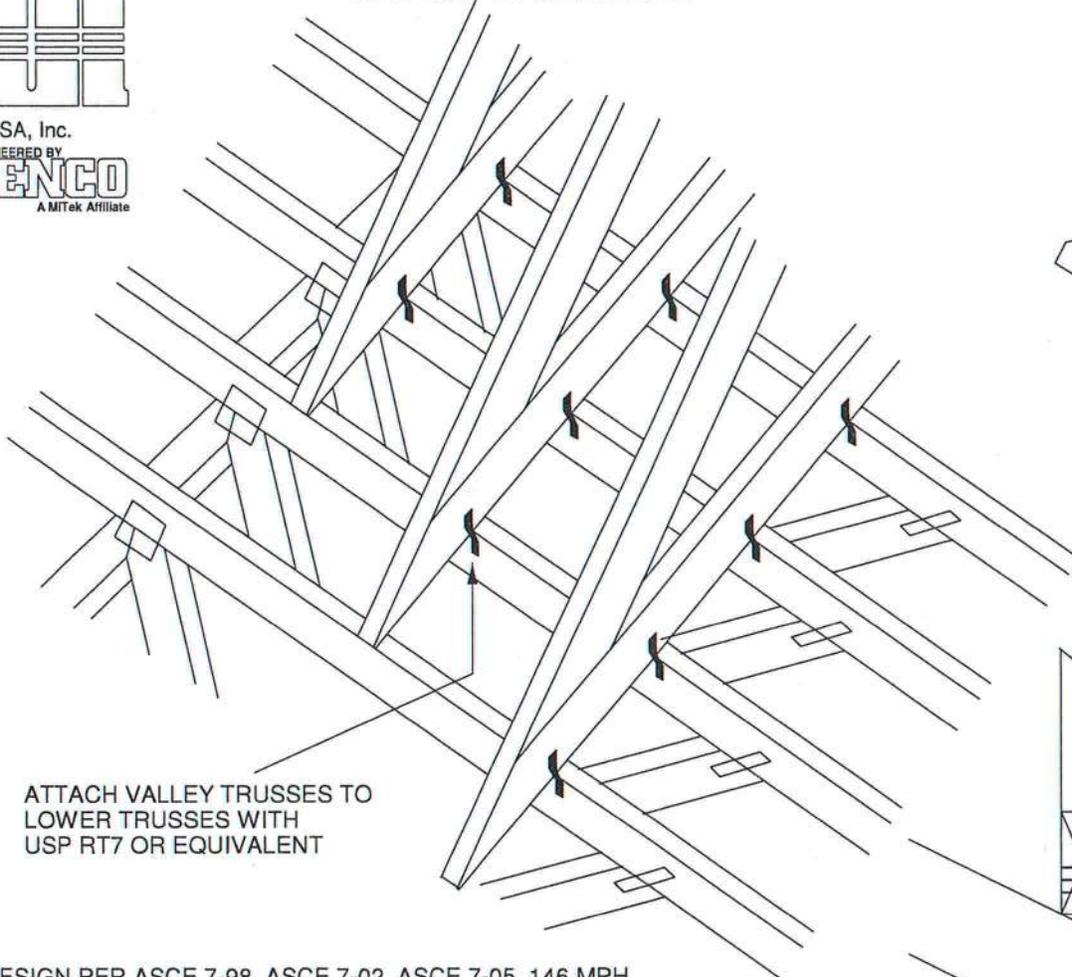
TRUSSED VALLEY SET DETAIL  
(HIGH WIND VELOCITY)

MII-VALLEY

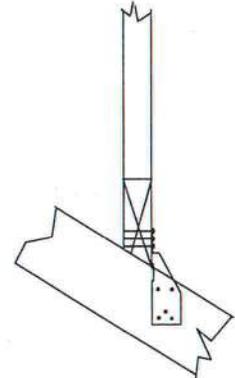
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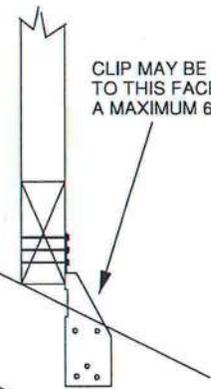
NOTE: VALLEY STUD SPACING NOT TO EXCEED 48" O.C. SPACING



ATTACH VALLEY TRUSSES TO LOWER TRUSSES WITH USP RT7 OR EQUIVALENT



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



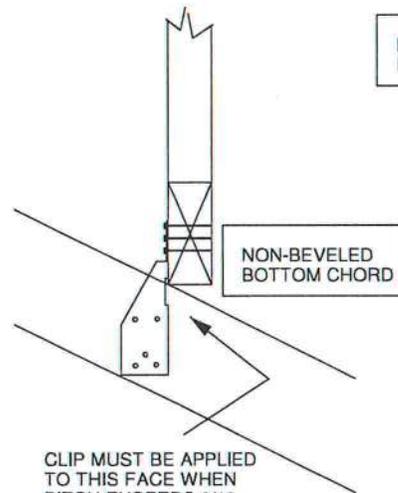
CLIP MAY BE APPLIED TO THIS FACE UP TO A MAXIMUM 6/12 PITCH

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)

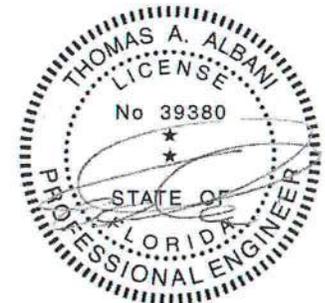
SUPPORTING TRUSSES DIRECTLY UNDER VALLEY TRUSSES MUST BE DESIGNED WITH A MAXIMUM UNBRACED LENGTH OF 2'-10" ON AFFECTED TOP CHORDS.

NOTES:

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

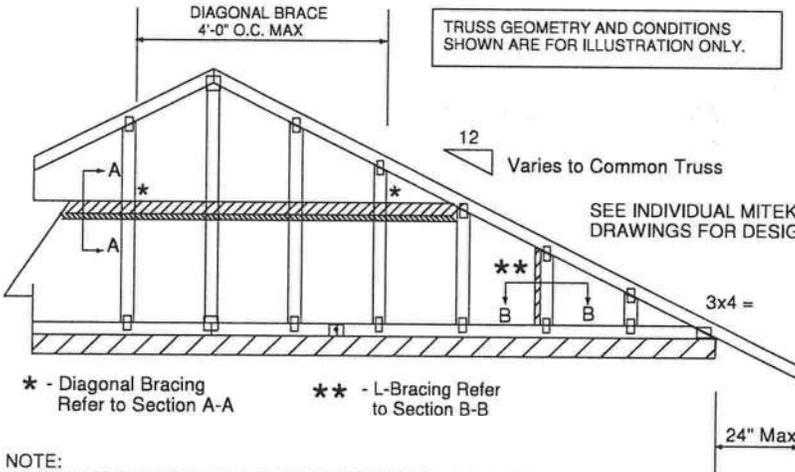
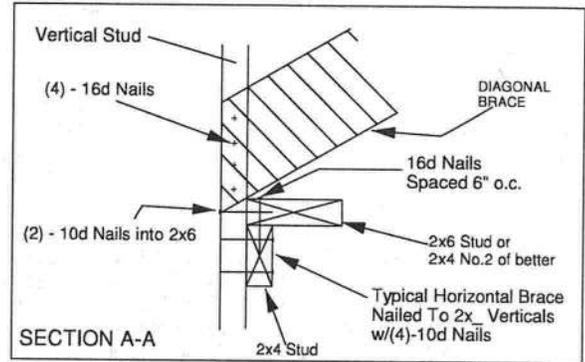
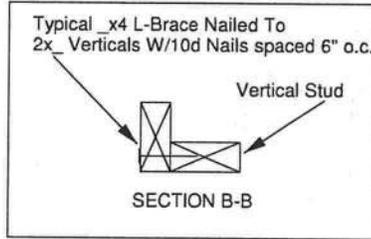


CLIP MUST BE APPLIED TO THIS FACE WHEN PITCH EXCEEDS 6/12. (MAXIMUM 12/12 PITCH)



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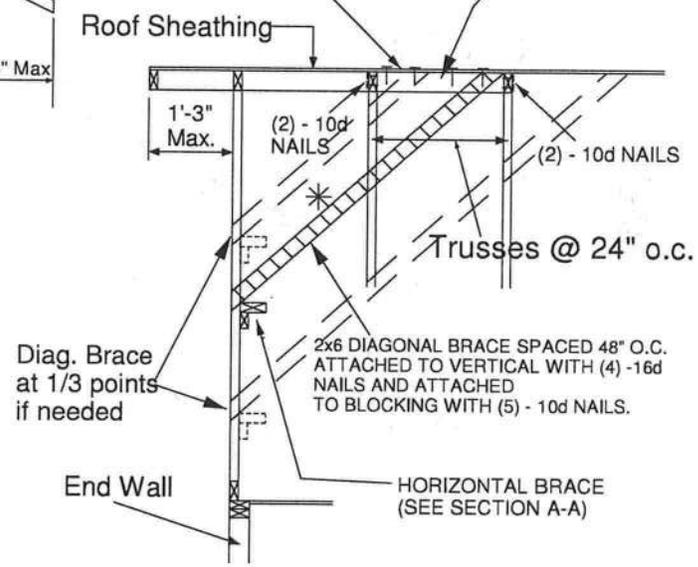
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PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

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

- 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")



Minimum Stud Size Species and Grade	Stud Spacing	Maximum Stud Length			
		Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
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.

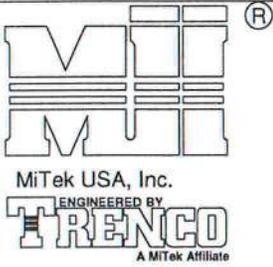
MAXIMUM WIND SPEED = 146 MPH  
 MAX MEAN ROOF HEIGHT = 30 FEET  
 CATEGORY II BUILDING  
 EXPOSURE B or C  
 ASCE 7-98, ASCE 7-02, ASCE 7-05  
 DURATION OF LOAD INCREASE : 1.60

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



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 Date:

January 19, 2018

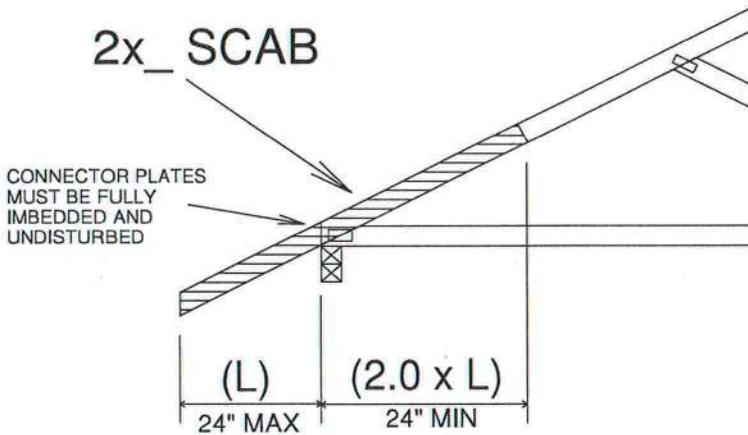


TRUSS CRITERIA:

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.

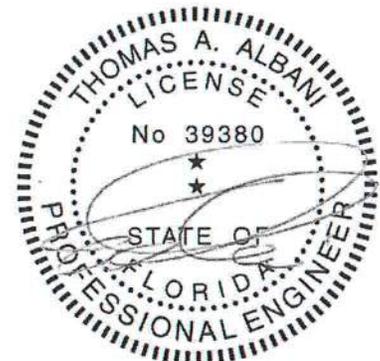


IMPORTANT

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.

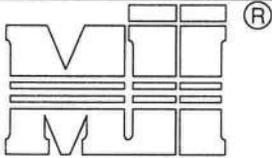
Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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February 12, 2018



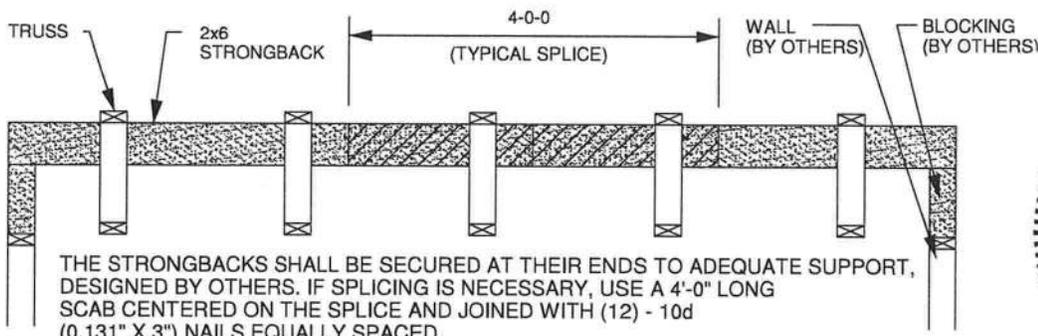
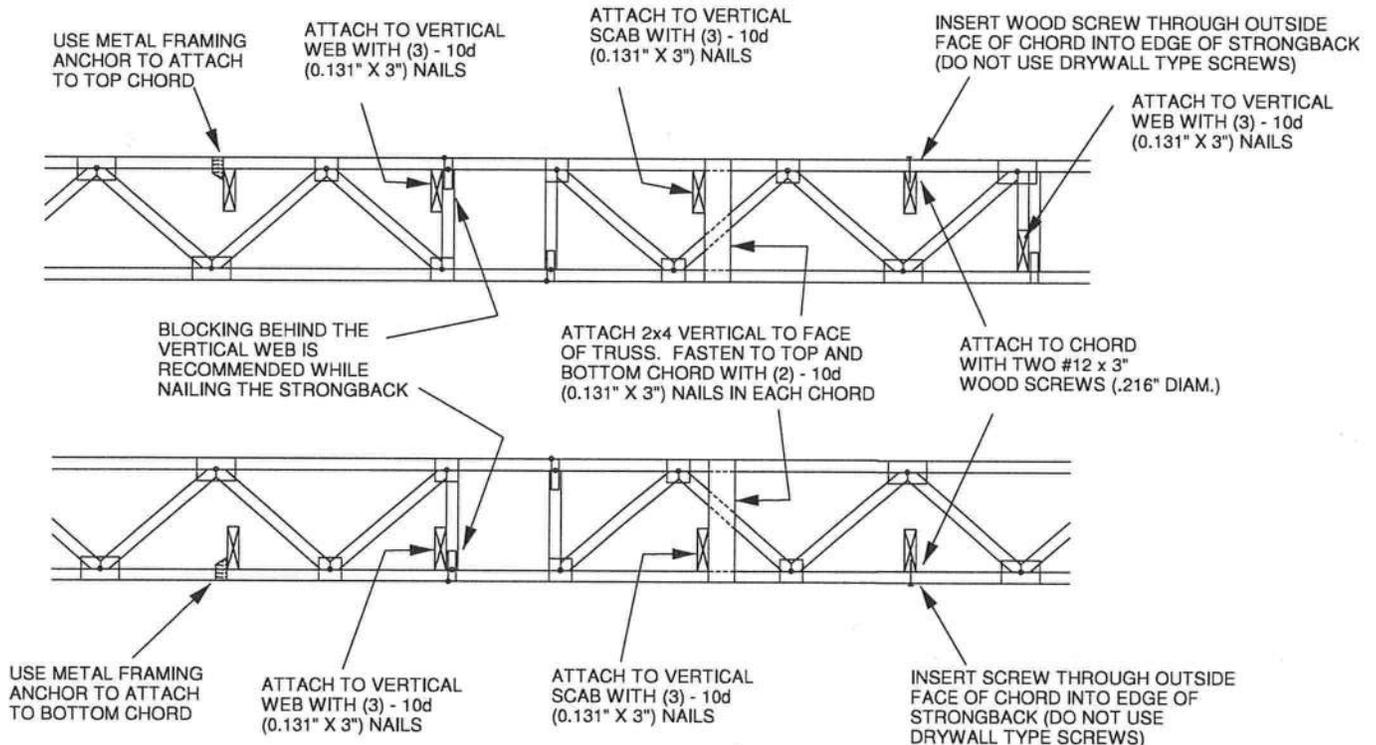
MiTek USA, Inc.



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)



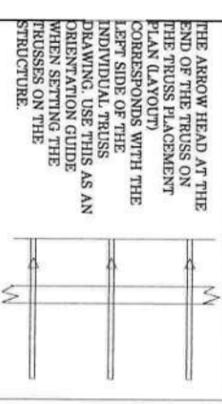
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Date:

February 12, 2018









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

**Notes:**

No back charges will be accepted by Builders FirstSource unless approved in writing first.  
850-836-4541

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

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

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

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

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

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

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

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



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

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

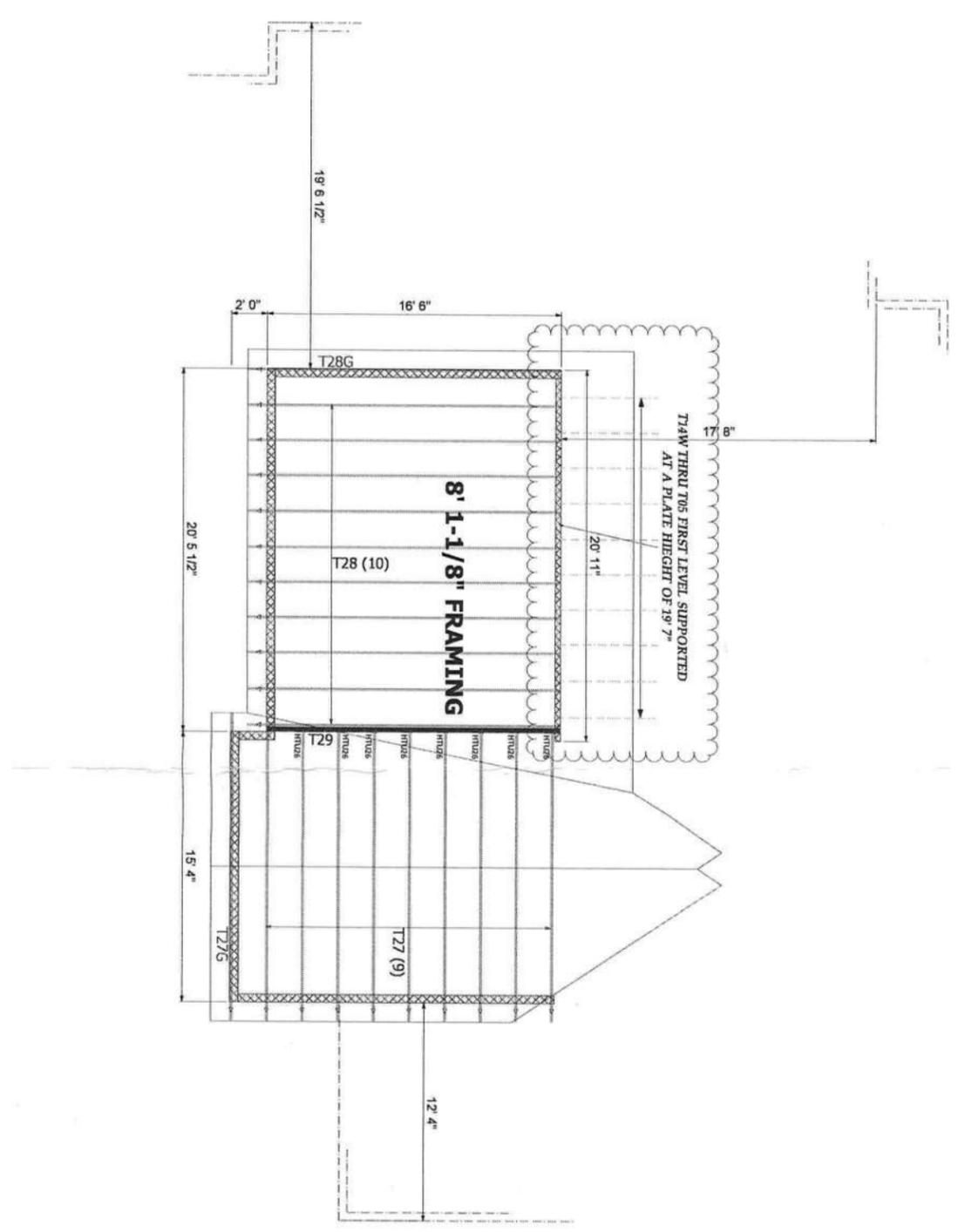
**Tallahassee**  
 PHONE: 850-576-5177

**Builder:**  
 IC Construction

**Legal Address:**  
 Lot 49 The Oaks, Lake City FL

**Model:**  
 Waller

Date:	4-11-19	Drawn By:	BPC	Original Ref #:	
Floor 1 Job#	1745857	Floor 2 Job#		Floor Job #	1719993



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

