

Julius Lee

RE: 425247 -

**1109 Coastal Bay Blvd.
Boynton Beach, FL 33435**

Site Information:

Project Customer: Dreambuilder Custom Homes Project Name: 425247 Model: Kane Residence
Lot/Block: . Subdivision: .
Address: 7 Ocean Drive
City: Duval State: Florida

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

Name: Pontigo, Luis Antonio, PE License #: 53311
Address: 420 Osceola Ave.
City: Jacksonville Beach State: Florida

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

FBC 2010/TPI 2007 Design Program: MiTek 20/20 7.3
ASCE 7-10 Wind Speed: 130 mph Floor Load: 55.0 psf
Roof Load: 32.0 psf

This package includes 2 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.

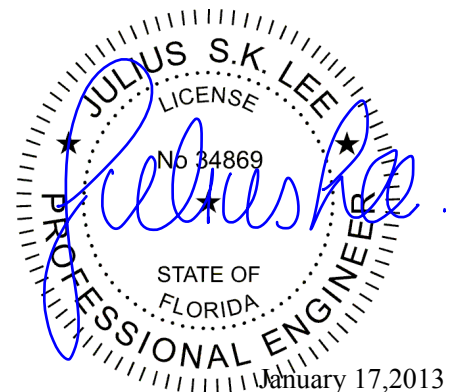
No.	Seal#	Truss Name	Date
1	I6305777	F38	1/17/013
2	I6305778	TG03	1/17/013

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Jax).

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2013.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.



Job 425247	Truss F38	Truss Type Floor Truss	Qty 6	Ply 1	Job Reference (optional)	16305777
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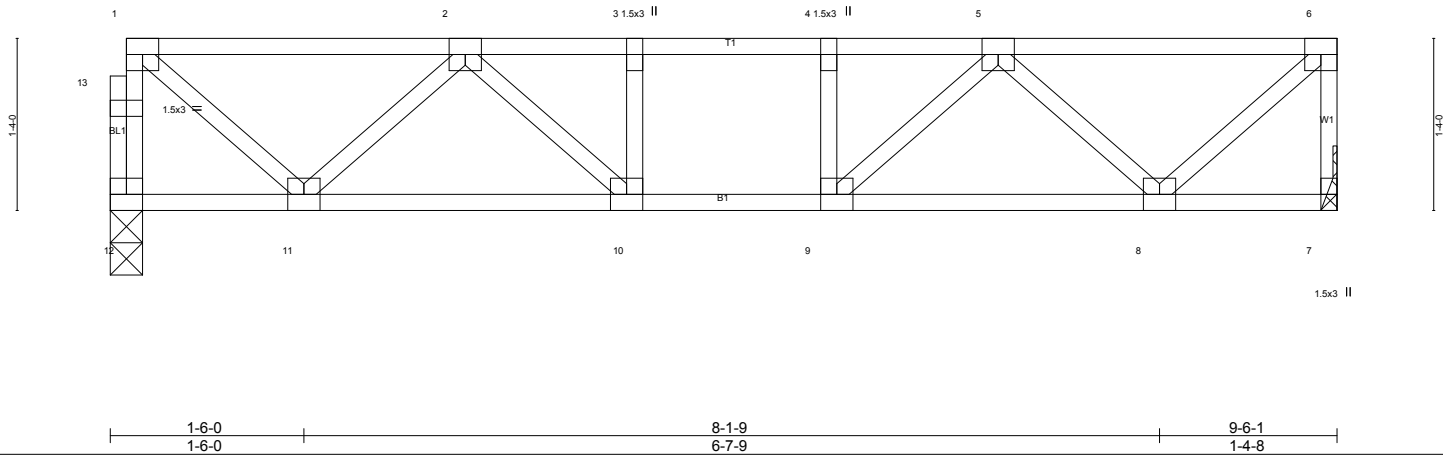
Builders FirstSource, Jacksonville, FL 32244

7.350 s Jul 31 2012 MiTek Industries, Inc. Thu Jan 17 08:59:56 2013 Page 1
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0-1-8



Scale = 1:17.8



LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING 1-4-0 Plates Increase 1.00 Lumber Increase 1.00 Rep Stress Incr YES Code FBC2010/TPI2007	CSI TC 0.26 BC 0.22 WB 0.20 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.02 10-11 >999 360 Vert(TL) -0.03 10-11 >999 240 Horz(TL) 0.01 7 n/a n/a	PLATES GRIP MT20 244/190 Weight: 51 lb FT = 11%F, 11%E
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LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

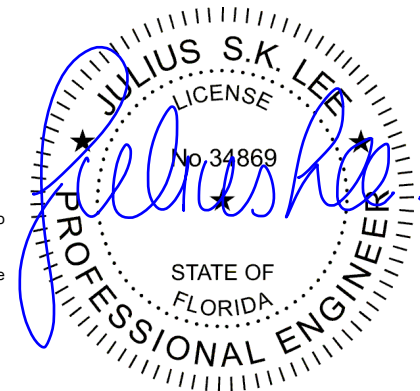
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 12=337/0-3-0 (min. 0-1-8), 7=342/Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-335/0, 1-13=-335/0, 6-7=-338/0, 1-2=-304/0, 2-3=-645/0, 3-4=-645/0, 4-5=-645/0, 5-6=-291/0
BOT CHORD 10-11=0/561, 9-10=0/645, 8-9=0/553
WEBS 6-8=0/396, 1-11=0/390, 5-8=-365/0, 2-11=-357/0

- NOTES** (8-11)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x3 MT20 unless otherwise indicated.
 - 3) All bearings are assumed to be SYP No.2 crushing capacity of 565 psi.
 - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
 - 5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.
 - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
 - 9) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
 - 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
 - 11) Use Simpson LUS46 to attach Truss to Carrying member

LOAD CASE(S) Standard



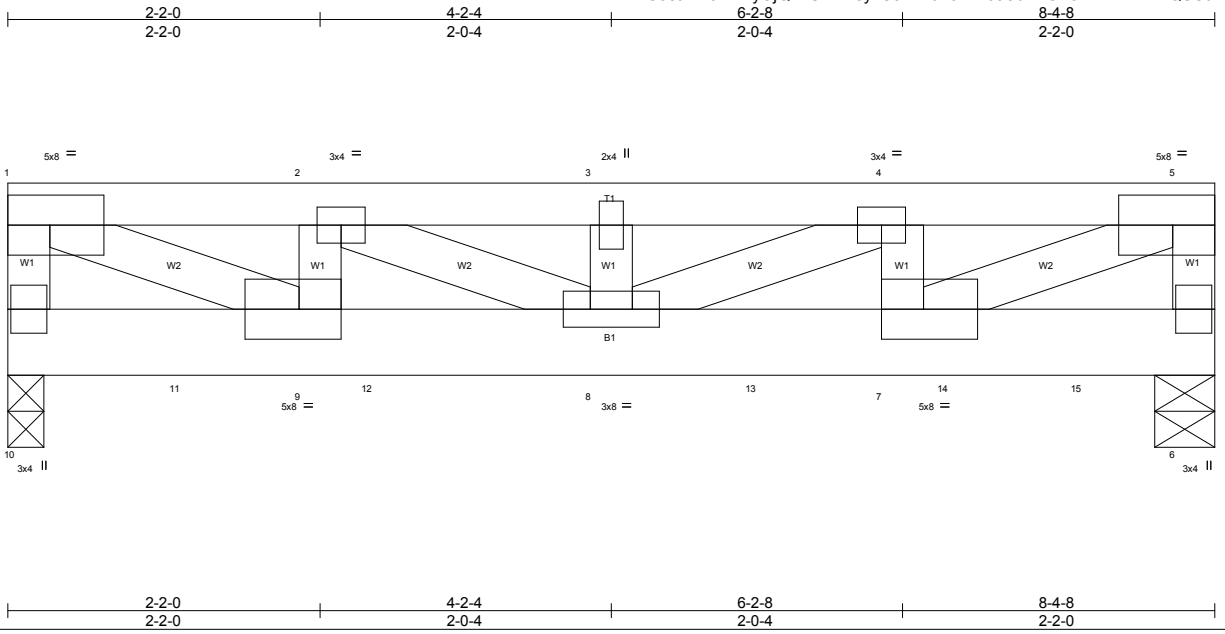
January 17, 2013

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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Job 425247	Truss TG03	Truss Type Flat Truss	Qty 1	Ply 2	Job Reference (optional) 6305778
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Builders FirstSource, Jacksonville, FL 32244 7.350 s Jul 31 2012 MiTek Industries, Inc. Thu Jan 17 08:59:58 2013 Page 1
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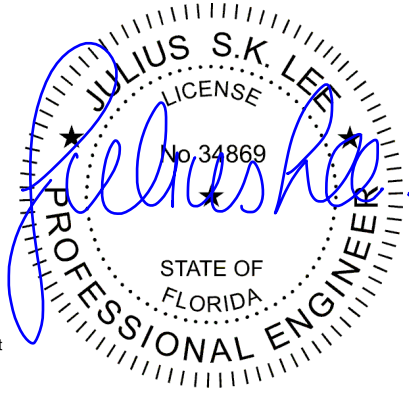


Scale: 3/4"=1'

Plate Offsets (X,Y):	[7:0-3-8,0-2-8], [9:0-3-8,0-2-8]				
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 40.0	Plates Increase 1.00	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.51	Vert(LL) -0.05 8 >999 360		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.86	Vert(TL) -0.08 8 >999 240		
BCDL 5.0	Code FBC2010/TPI2007	(Matrix)	Horz(TL) 0.01 6 n/a n/a		
			Wind(LL) 0.02 8 >999 240	Weight: 94 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
REACTIONS (lb/size) 10=2083/0-3-0 (min. 0-1-8), 6=2245/0-5-0 (min. 0-1-8)	
Max Uplift 10=439(LC 4), 6=439(LC 4)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-10=-1768/397, 1-2=-3228/652, 2-3=-4266/848, 3-4=-4266/848, 4-5=-3330/652, 5-6=-1813/397	
BOT CHORD 10-11=-57/257, 9-11=-57/257, 9-12=-652/3228, 8-12=-652/3228, 8-13=-652/3330, 7-13=-652/3330, 7-14=-57/273, 14-15=-57/273, 6-15=-57/273	
WEBS 1-9=-659/3287, 2-9=-1233/331, 2-8=-217/1149, 3-8=-769/220, 4-8=-217/1035, 4-7=-1216/331, 5-7=-659/3384	

- NOTES** (13-15)
- 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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=26ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Concentrated loads from layout are not present in Load Case(s): #3 IBC BC Live; #4 MWFRS Wind Left; #5 MWFRS Wind Right; #6 MWFRS Wind Left Positive; #7 MWFRS Wind Right Positive; #8 MWFRS 1st Wind Parallel; #9 MWFRS 2nd Wind Parallel; #10 MWFRS 3rd Wind Parallel; #11 MWFRS 4th Wind Parallel; #12 MWFRS 1st Wind Parallel Positive; #13 MWFRS 2nd Wind Parallel Positive; #14 MWFRS Wind Left Positive + Regular; #15 MWFRS Wind Right Positive + Regular; #16 MWFRS 1st Wind Parallel Positive + Regular; #17 MWFRS 2nd Wind Parallel Positive + Regular.
 - 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 at joint(s) 10.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 10 and 439 lb uplift at joint 6.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 332 lb down at 1-3-8, 332 lb down at 2-7-8, 332 lb down at 3-11-8, 332 lb down at 5-3-8, and 332 lb down at 6-7-8, and 332 lb down at 7-6-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
 - Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.
 - Truss Design Engineer: Julius Lee, PE, Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



Continued on page 2
LOAD CASE(S) Standard

January 17, 2013

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Job 425247	Truss TG03	Truss Type Flat Truss	Qty 1	Ply 2	Job Reference (optional) i6305778
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7.350 s Jul 31 2012 MiTek Industries, Inc. Thu Jan 17 08:59:58 2013 Page 2
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LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.00, Plate Increase=1.00

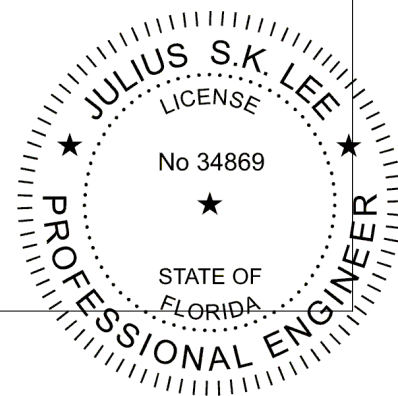
Uniform Loads (plf)

Vert: 1-5=-325, 6-10=-10

Concentrated Loads (lb)

Vert: 8=-269(B) 11=-269(B) 12=-269(B) 13=-269(B) 14=-269(B) 15=-269(B)

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January 17, 2013

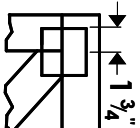
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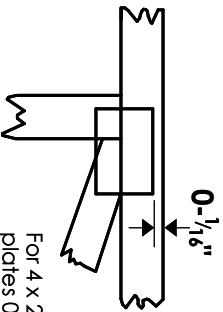
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Symbols

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- $\frac{1}{8}$ " from outside edge of truss.



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

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

PLATE SIZE



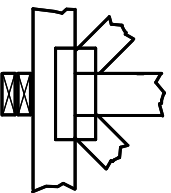
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

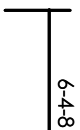


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

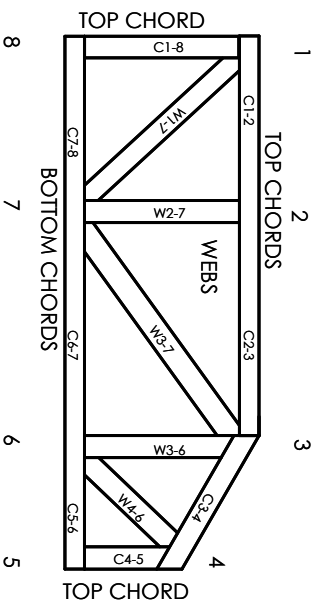
Industry Standards:

ANSI/FP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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



JOINTS ARE GENERALLY NUMBERED/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, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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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 BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware of joint locations are regulated by ANSI/FP11.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/FP11.
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/FP11 Quality Criteria.