Julius Lee Engineering

RE: 308961 - JOHN SMITH - HIP SPEC

1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Site Information:

Project Customer: JOHN & PAM SMITH - O/B Project Name: HIP Model:

Lot/Block:

Subdivision:

Address: 224 SW WISE DRIVE

City: COLUMBIA CTY

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2007/TPI2002

Design Program: MiTek 20/20 7.1

Wind Code: ASCE 7-05 Wind Speed: 110 mph

Floor Load: N/A psf

Roof Load: 32.0 psf

This package includes 37 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	No.	Seal#	Truss Name	Date
1	14054383	CJ1	7/10/09	18	14054400	T02	7/10/09
2	14054384	CJ3	7/10/09	19	14054401	T03	7/10/09
3	14054385	CJ5	7/10/09	20	14054402	T04	7/10/09
4	14054386	EJ5	7/10/09	21	14054403	T05	7/10/09
5	14054387	EJ7	7/10/09	22	14054404	T06	7/10/09
6	14054388	EJ7A	7/10/09	23	14054405	T07	7/10/09
7	14054389	EJ7B	7/10/09	24	14054406	T08	7/10/09
8	14054390	EJ7C	7/10/09	25	14054407	T09	7/10/09
9	14054391	EJ7D	7/10/09	26	14054408	T10	7/10/09
10	14054392	EJ7E	7/10/09	27	14054409	T12	7/10/09
11	14054393	EJ7F	7/10/09	28	14054410	T13	7/10/09
12	14054394	EJ7G	7/10/09	29	14054411	T14	7/10/09
13	14054395	EJ7H	7/10/09	30	14054412	T15	7/10/09
14	14054396	HJ7	7/10/09	31	14054413	T16	7/10/09
15	14054397	HJ9	7/10/09	32	14054414	T17	7/10/09
16	14054398	HJ9A	7/10/09	33	14054415	T18	7/10/09
17	14054399	T01	7/10/09	34	14054416	T19	7/10/09

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 (Lake City).

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is

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.

No 34869

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No 34869

RE: 308961 - JOHN SMITH - HIP SPEC

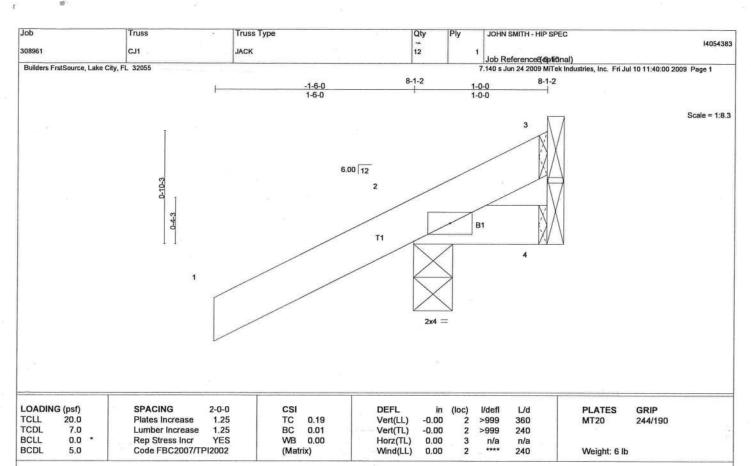
Site Information:

Project Customer: JOHN & PAM SMITH - O/B Project Name: HIP Model: Lot/Block: Subdivision:

Lot/Block: Address: 224 SW WISE DRIVE

City: COLUMBIA CTY State: FL

No.	Seal#	Truss Name	Date
35	14054417	T20	7/10/09
36	14054418	T21	7/10/09
37	14054419	T22	7/10/09



LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=179/0-3-8, 4=5/Mechanical, 3=-40/Mechanical

Max Horz 2=87(LC 6)

Max Uplift 2=-228(LC 6), 3=-40(LC 1)

Max Grav 2=179(LC 1), 4=14(LC 2), 3=76(LC 6)

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

NOTES (8-9)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SYP No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 2 and 40 lb uplift at joint 3
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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No. 34989

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July 10,2009

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

Design valid for use only with Milek 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 frust 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. ARSI/TP1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, SS3 D'Onotrio Drive, Madison, WI 53719.

OADIN	G (psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TF	212002	(Matr	rix)	Wind(LL)	0.00	2	****	240	Weight: 12 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING TOP CHORD

BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=49/Mechanical, 2=204/0-3-8, 4=14/Mechanical Max Horz 2=142(LC 6) Max Uplift 3=-49(LC 6), 2=-194(LC 6)

Max Grav 3=49(LC 1), 2=204(LC 1), 4=42(LC 2)

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

1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ff; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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 SYP No.2

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3 and 194 lb uplift at joint

"Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

b) 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

No 34869

No 34869

STATE OF

FLORIDA

Job Truss Truss Type Qty JOHN SMITH - HIP SPEC 14054385 308961 CJ5 JACK Job Reference (optional) 7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11:40:01 2009 Page 1 Builders FrstSource, Lake City, FL 32055 8-1-2 8-1-2 1-6-0 5-0-0 1-6-0 Scale = 1:18.4 6.00 12 0-4-3 **B**1 LOADING (psf) SPACING 2-0-0 CSI DEFL in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plates Increase 1.25 TC 0.31 Vert(LL) -0.03 >999 360 MT20 244/190 TCDL 7.0 Lumber Increase 1.25 BC -0.05 0.16 Vert(TL) 2-4 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.00 -0.00 Horz(TL) n/a n/a BCDL 5.0 Code FBC2007/TPI2002 (Matrix) Wind(LL) 0.00 2 240 Weight: 18 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=114/Mechanical, 2=257/0-3-8, 4=24/Mechanical

Max Horz 2=198(LC 6)

Max Uplift 3=-128(LC 6), 2=-205(LC 6)

Max Grav 3=114(LC 1), 2=257(LC 1), 4=72(LC 2)

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

NOTES (8-9)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SYP No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 3 and 205 lb uplift at joint 2.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 8) 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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Truss Type Qty Ply JOHN SMITH - HIP SPEC Job Truss 14054386 EJ5 JACK 308961 Job Reference (optional) 7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11:40:02 2009 Page 1 Builders FrstSource, Lake City, FL 32055 8-1-2 8-1-2 1-6-0 5-0-0 Scale = 1:18.4 6.00 12 0-4-3

LOADIN	G (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	V defi	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.31	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
CDL	7.0		Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	240	12,440	
BCLL	0.0	*	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	1	Code FBC2007/TF	212002	(Matr	rix)	Wind(LL)	0.00	2	****	240	Weight: 18 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=114/Mechanical, 2=257/0-3-8, 4=24/Mechanical Max Horz 2=198(LC 6) Max Uplift3=-128(LC 6), 2=-205(LC 6)

Max Grav 3=114(LC 1), 2=257(LC 1), 4=72(LC 2)

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

NOTES

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SYP No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 3 and 205 lb uplift at
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 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) Truss Design Engineer: Julius Lee, PE; Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

No 34859

STATE OF

FLORIDA

N.	JOHN SMITH - HIP SPEC	Ply	Qty		Truss Type	Truss	ob
14	Job Reference (optional)		19		MONO TRUSS	EJ7	08961
Fri Jul 10 11:40:03 2009 Page	7.140 s Jun 24 2009 MiTek Industries, Inc. Fri					ake City, FL 32055	Builders FrstSource
	7.140 s Jun 24 2009 MiTek Industries Inc. Fri 11-6-10 8-1-2		7-0-0		-1-6-0 8-1-2		
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LOADIN	G (psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.09	2-4	>921	360	MT20	244/190	
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.18	2-4	>464	240	VICTOR - 17850V	Delta Military (Tra)	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a			
BCDL	5.0	Code FBC2007/TI	PI2002	(Mati	ix)	Wind(LL)	0.10	2-4	>818	240	Weight: 25 lb		

LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=162/Mechanical, 2=317/0-3-8, 4=45/Mechanical

Max Horz 2=182(LC 6)

Max Uplift3=-118(LC 6), 2=-151(LC 6)

Max Grav 3=162(LC 1), 2=317(LC 1), 4=97(LC 2)

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

NOTES (8-9)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.
- All bearings are assumed to be SYP No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 3 and 151 lb uplift at joint 2.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 8) 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

No 34869

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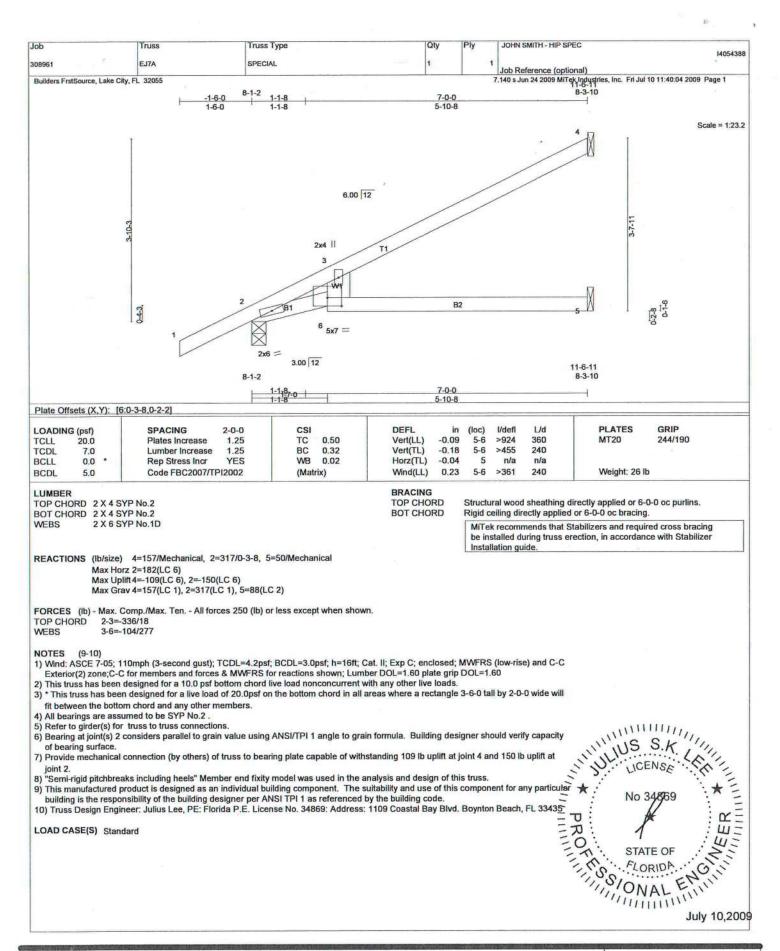
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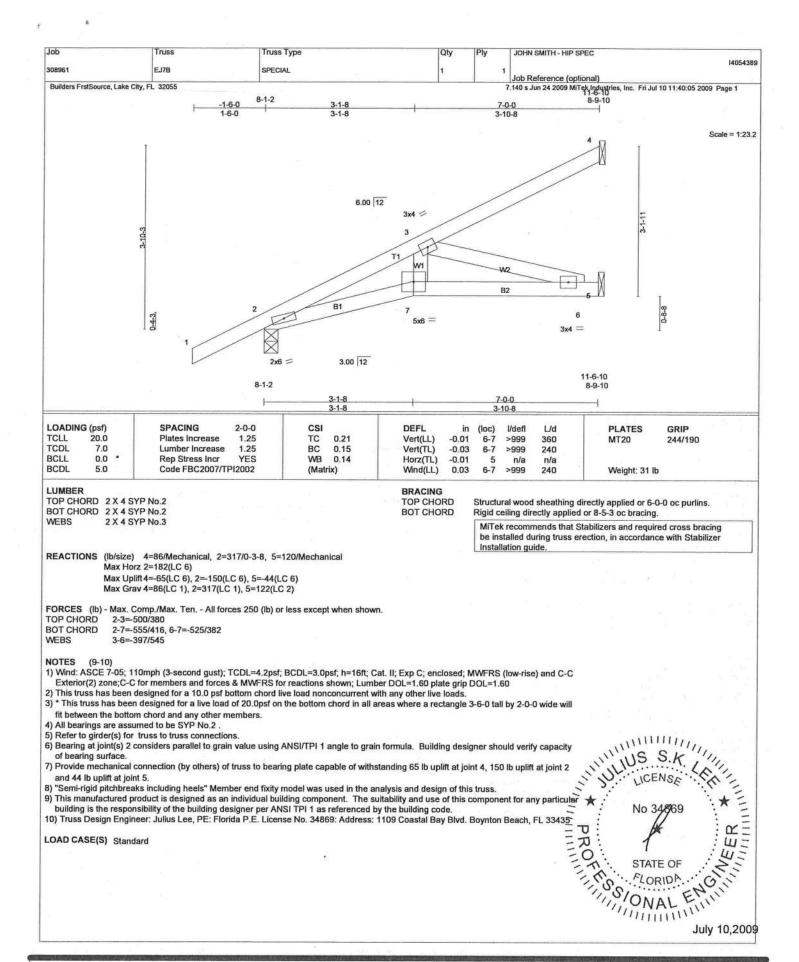
MILITARIA C



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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.

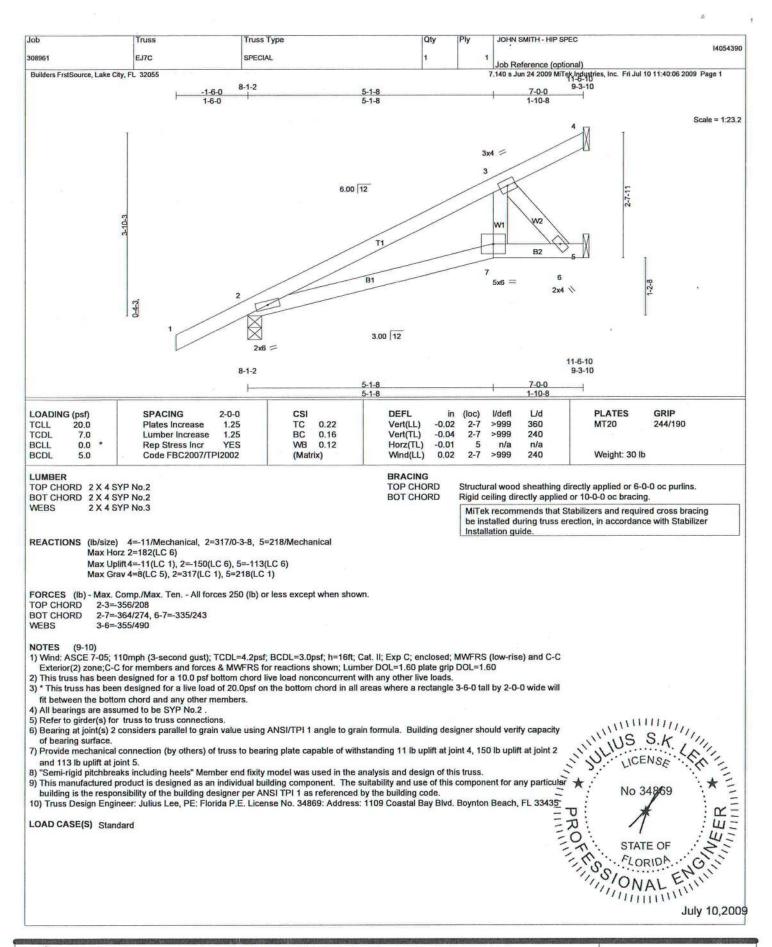
Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding labrication, quality control, storage, delivery, erection and bracing, consult. AMS/ITQ Quality Criteria, DS8-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, S83 D'Onofrio Drive, Madison, WI 53719.



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

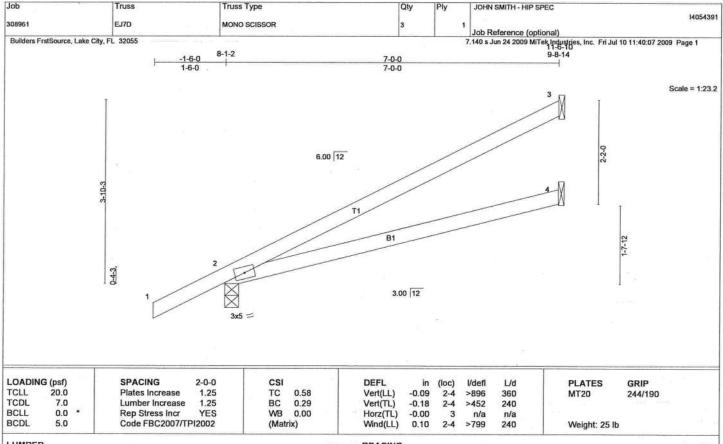
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LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=162/Mechanical, 2=317/0-3-8, 4=44/Mechanical

Max Horz 2=182(LC 6)

Max Uplift3=-118(LC 6), 2=-150(LC 6)

Max Grav 3=162(LC 1), 2=317(LC 1), 4=96(LC 2)

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

NOTES (9-10)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 SYP No.2
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 3 and 150 lb uplift at joint 2.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) 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.
- 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

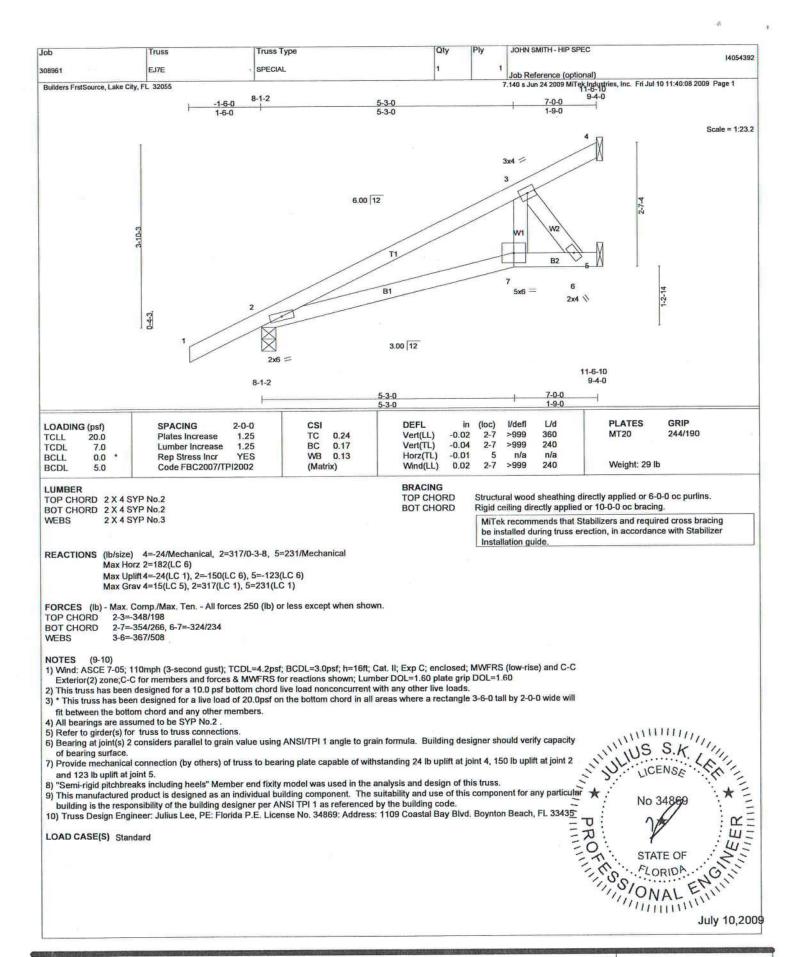
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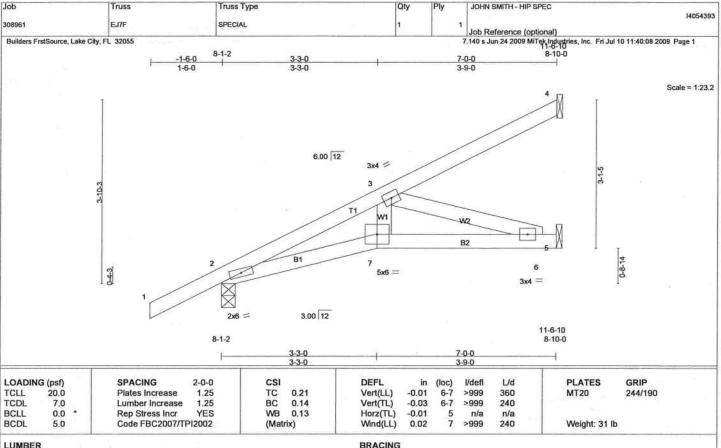
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Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability 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. AMSI/TP1 Quality Criteria, DSB-89 and BCS11 Building Component
Sately Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 2 X 4 SYP No.3 WEBS

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 8-6-11 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=83/Mechanical, 2=317/0-3-8, 5=124/Mechanical

Max Horz 2=182(LC 6)

Max Uplift 4=-62(LC 6), 2=-150(LC 6), 5=-46(LC 6)

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

TOP CHORD 2-3=490/368

BOT CHORD 2-7=541/406, 6-7=511/373

WEBS 3-6=389/534

(9-10)

1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.

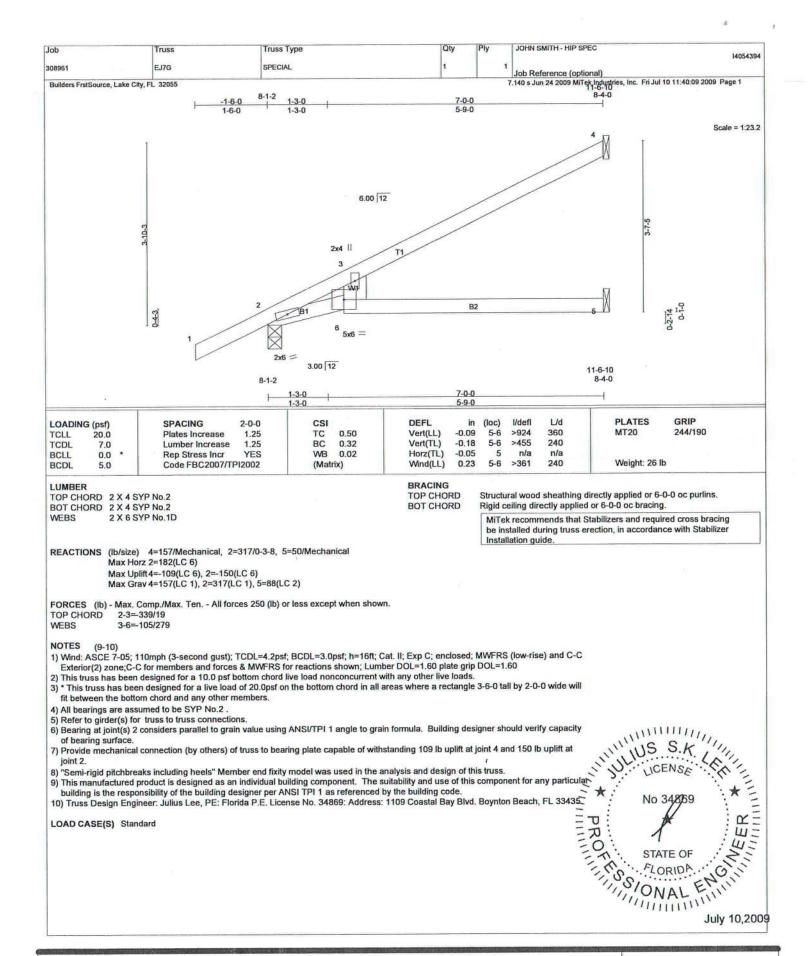
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SYP No.2.
- 5) Refer to girder(s) for truss to truss connections.

8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

9) 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.

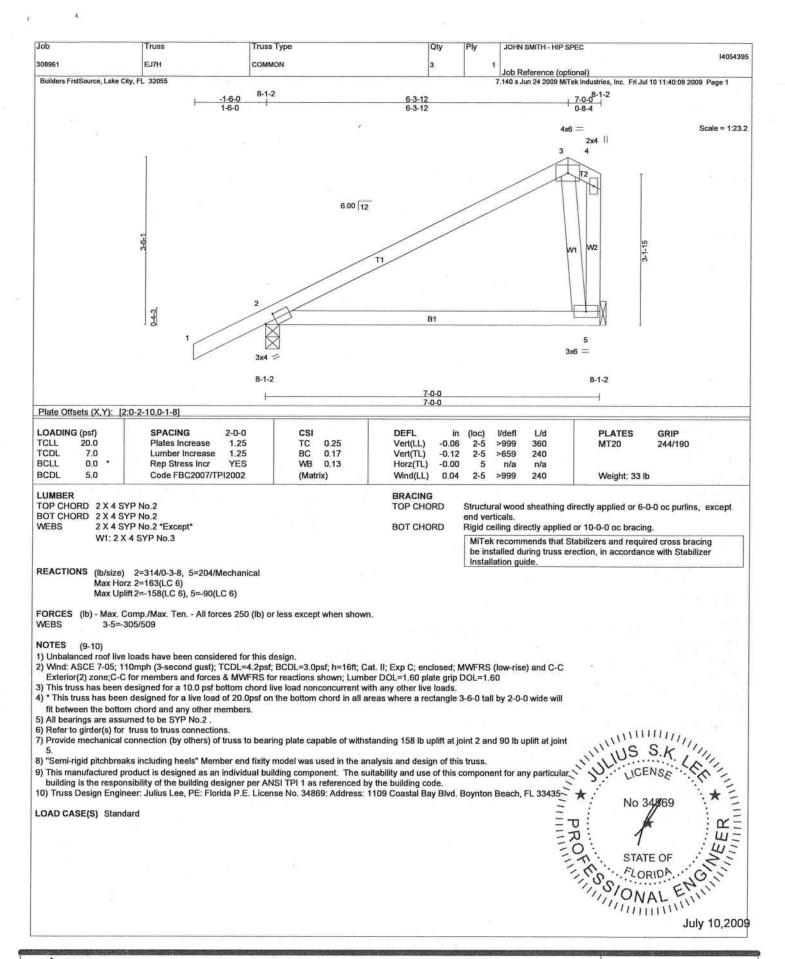
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd Royston S.

LOAD CASE(S) Standard JOIN



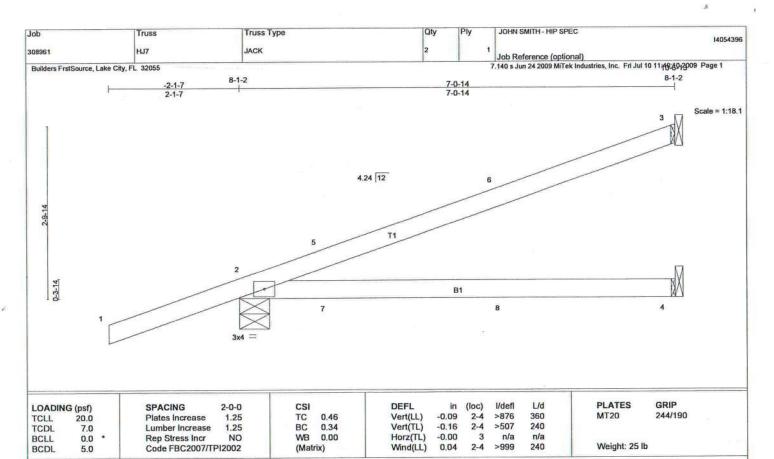
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with Milek connectors. This design is based only upon parameters shown, and is for an individual building component.
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LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING TOP CHORD **BOT CHORD**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS (lb/size) 3=143/Mechanical, 2=317/0-5-11, 4=40/Mechanical Max Horz 2=199(LC 3) Max Uplift 3=-154(LC 3), 2=-344(LC 3)

Max Grav 3=143(LC 1), 2=317(LC 1), 4=101(LC 2)

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

NOTES

1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) All bearings are assumed to be SYP No.2.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 3 and 344 lb uplift at

7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 24 lb up at 1-5-12, 24 lb up at 1-5-12, and 32 lb up at 4-3-11, and 32 lb up at 4-3-11 on top chord, and 16 lb up at 1-5-12, 16 lb up at 1-5-12, and 12 lb down at 4-3-11, and 12 lb down at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 10) 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.

11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 2-4=-10

Concentrated Loads (lb)

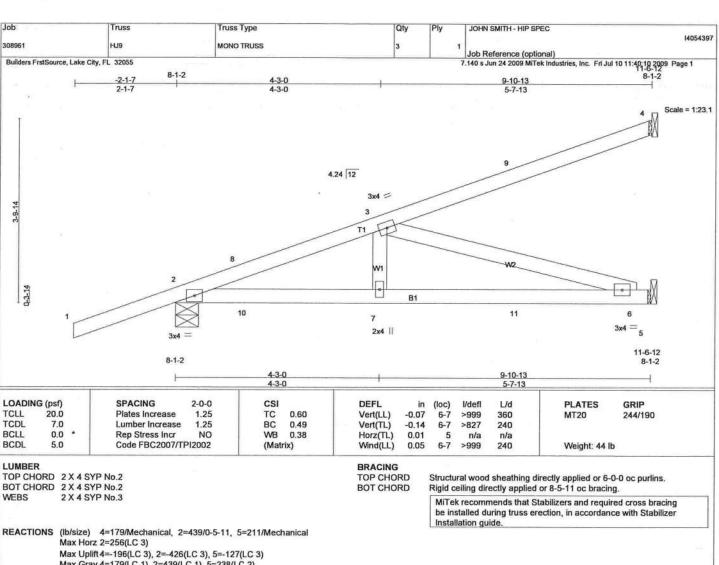
Vert: 5=49(F=24, B=24) 6=10(F=5, B=5) 7=10(F=5, B=5) 8=-8(F=-4, B=-4)

THINING S.K No 34869 RO STATE OF SIONAL INTERNATIONAL

July 10,2009

WARNING · Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 trust 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 building designer. For general guidance regarding fobrication, qualify control, storage, delivery, erection and bracing, consult.

ANSI/TP11 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information.



Max Grav 4=179(LC 1), 2=439(LC 1), 5=238(LC 2)

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

2-8=-692/415, 3-8=-640/415 TOP CHORD

BOT CHORD 2-10=-525/631, 7-10=-525/631, 7-11=-525/631, 6-11=-525/631

3-7=0/253, 3-6=-656/546 WEBS

NOTES (10-11)

1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) All bearings are assumed to be SYP No.2.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 4, 426 lb uplift at joint 2

7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 24 lb up at 1-5-12, 24 lb up at 1-5-12, 32 lb up at 4-3-11, 32 lb up at 4-3-11, and 60 lb down and 112 lb up at 7-1-10, and 60 lb down and 112 lb up at 7-1-10 on bottom chord, and 16 lb up at 1-5-12, 12 lb down at 4-3-11, 12 lb down at 4-3-11, and 42 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

1 This manufactured product is designed as an individual particular building the sufficient to support concentrated load(s) 24 lb up at 1-5-12, 24 lb up at 1-5-12, 24 lb up at 1-5-12, 12 lb down and 112 lb up at 7-1-10, and 40 lb down at 112 lb up at 1-5-12, 12 lb down at 4-3-11, and 40 lb down at 7-1-10, and 42 lb down at 7-1-10, and 42 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

1 This manufactured product is designed as an individual particular building the sufficient to support concentrated load(s) 24 lb up at 1-5-12, 25 lb up at 1-5-12, 32 lb up at 1-8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 24 lb up at 1-5-12, 24 lb up at

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

10) 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.

11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Continued on page 2

1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 2-5=-10

■ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE Design valid for use only with Miles connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer—not trust designer. Bracing shown for lateral support of individual web members only. Additional temporary bracing to inset stability during construction is the responsibility of the exector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, qualify control, storage, delivery, erection and bracing, consult—ANSI/IRI Quality Criteria, DSB-89 and BCS11 Building Component Safety Information—available from Truss Plate Institute, \$83 D'Onofrio Drive, Madison, WI 53719.

Julius Lee Engineering 1109 Coastal Bay Blvd. Boynton, FL 33435

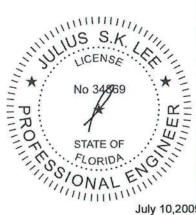
10/4

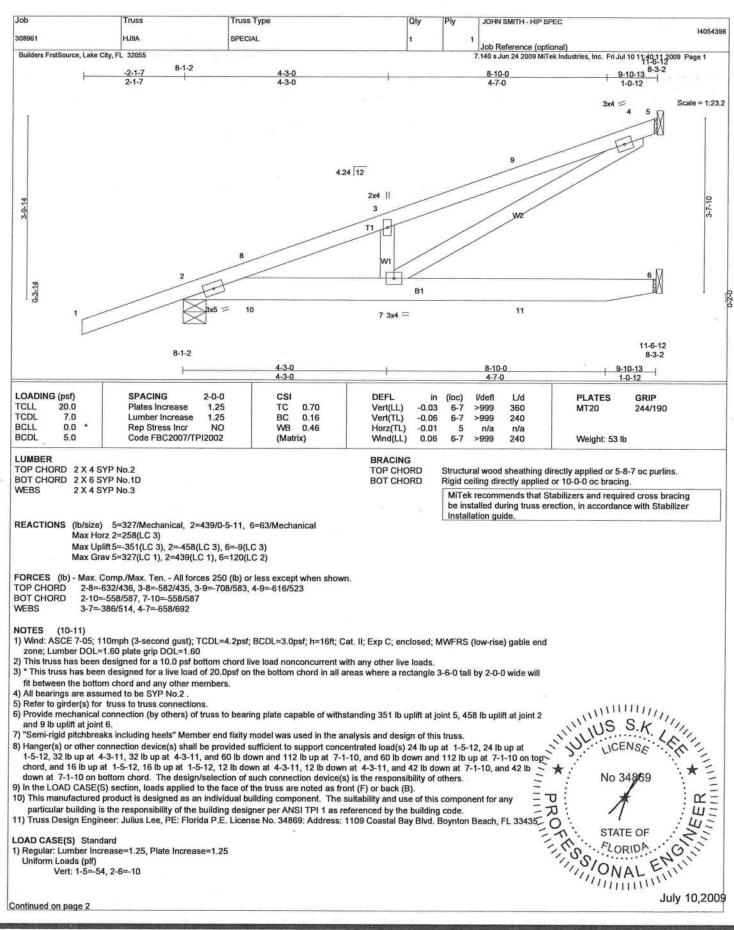
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Job	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC	14054397
308961	нла	MONO TRUSS	3		Job Reference (optional)	THE COMMENSATION
Builders FrstSource Lake Cit	v FI 32055			511/20	7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11	:40:11 2009 Page 2

LOAD CASE(S) Standard

Concentrated Loads (lb)
Vert: 3=10(F=5, B=5) 7=-8(F=-4, B=-4) 8=49(F=24, B=24) 9=-120(F=-60, B=-60) 10=10(F=5, B=5) 11=-28(F=-14, B=-14)





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC	
The state of the s	NAME OF THE PARTY	100000000000000000000000000000000000000	J. 55. W. 1.		ROUND AND AND AND AND AND AND AND AND AND A	1405439
308961	НЈ9А	SPECIAL	1		Job Reference (optional)	
Builders FrstSource, Lake City, F	L 32055				7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11:40:11 2009 Pa	age 2

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=10(F=5, B=5) 7=-8(F=-4, B=-4) 8=49(F=24, B=24) 9=-120(F=-60, B=-60) 10=10(F=5, B=5) 11=-28(F=-14, B=-14)

No 34869

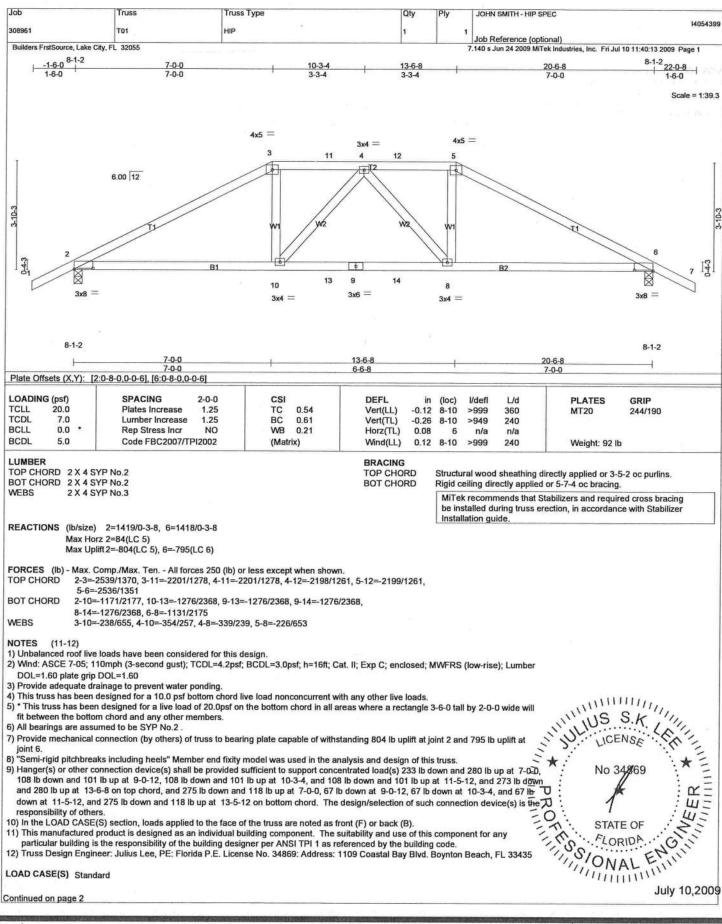
No 34869

No 34869

STATE OF

FLORIDA

July 10,200



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

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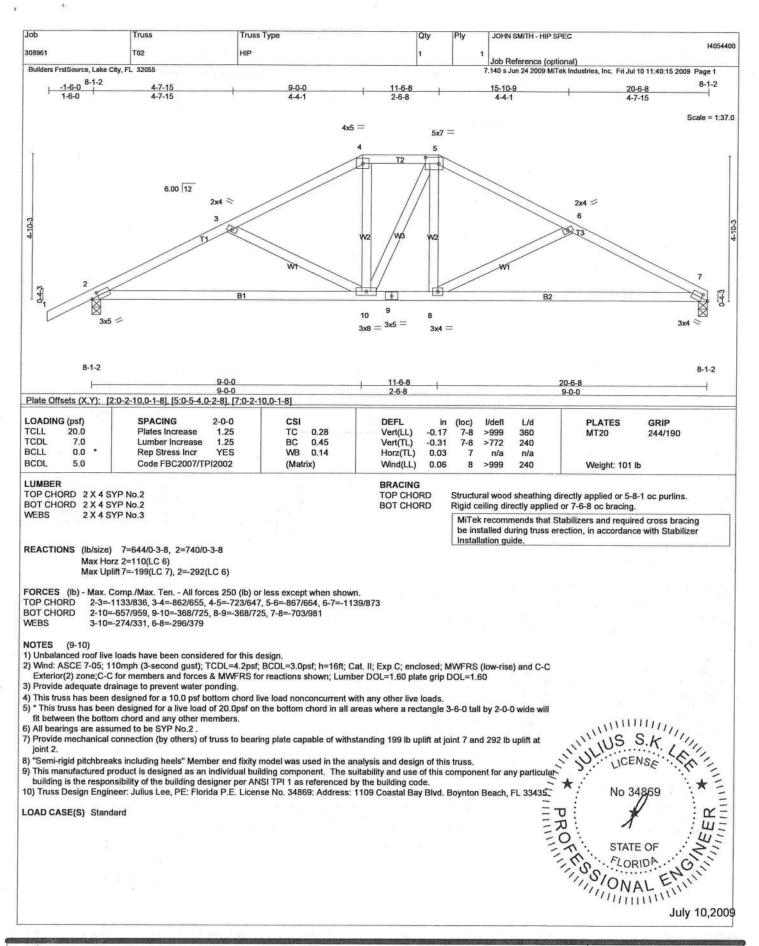
Job	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC
308961	T01	HIP	1		Job Reference (optional)
Builders FrstSource,	Lake City, FL 32055				7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11:40:13 2009 Page 2
	per Increase=1.25, Plate In	crease=1.25			
Uniform Loads					
Concentrated		2-010			

Vert: 3=-233(F) 5=-233(F) 9=-35(F) 10=-236(F) 4=-108(F) 8=-236(F) 11=-108(F) 12=-108(F) 13=-35(F) 14=-35(F)

No 34969

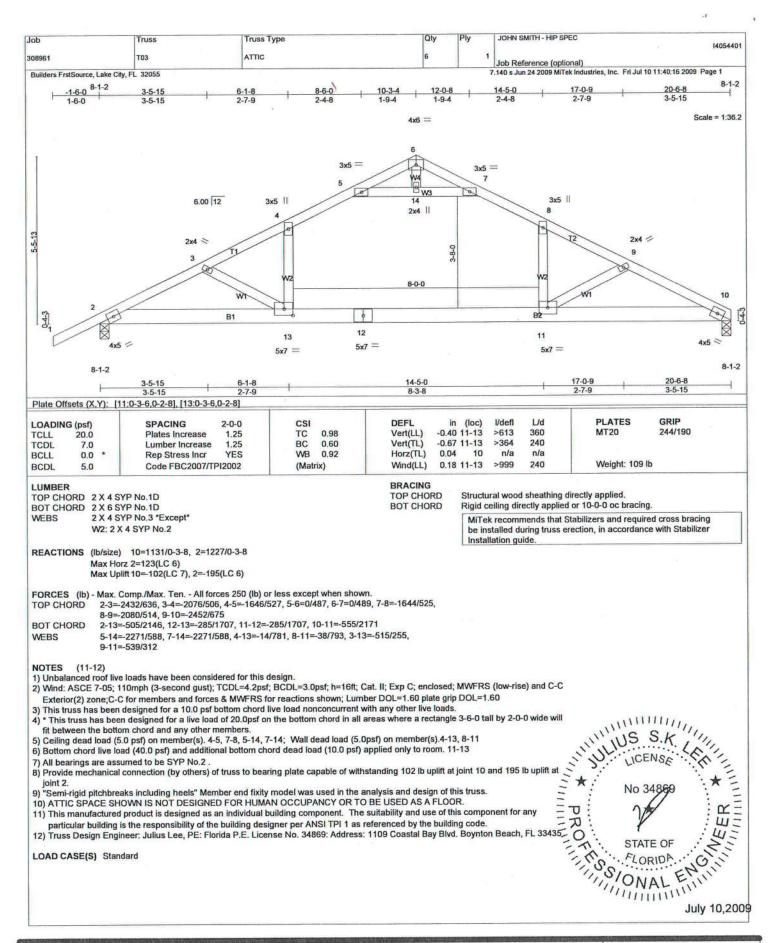
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STATE OF
FLORIDA

July 10,2009



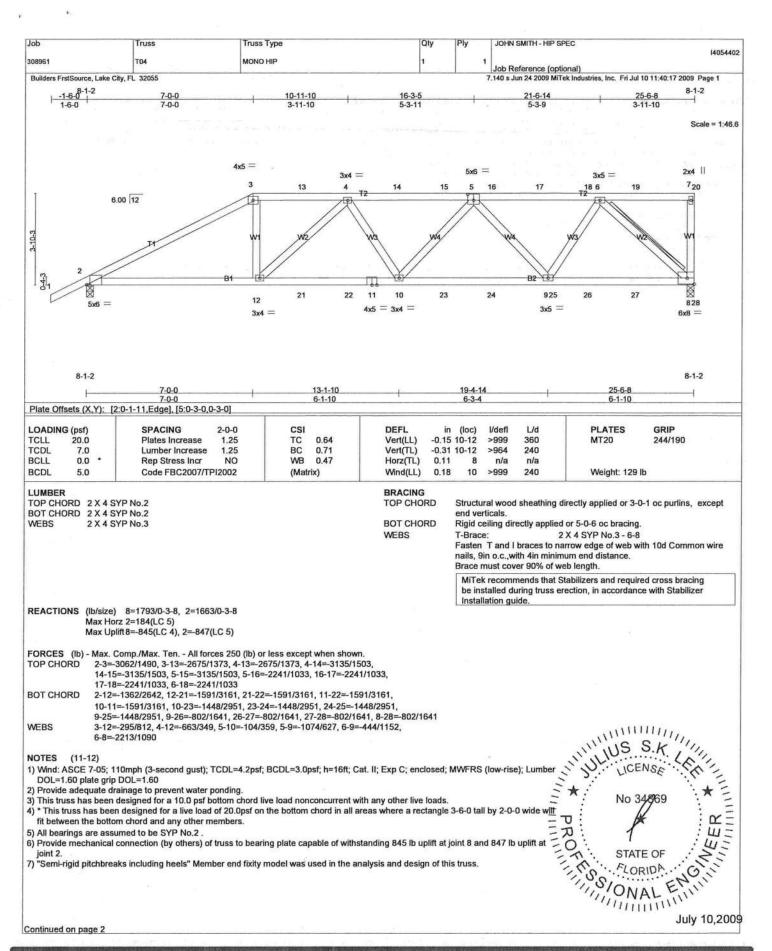
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED BITEK REFERENCE PAGE MII-7473 BEFORE USE.

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

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Job	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC	
308961	T04	MONO HIP	1	1	Job Reference (optional)	14054402
Builders FrstSource, Lake City	FL 32055				7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11:	40:17 2009 Page 2

NOTES (11-12)

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 233 lb down and 280 lb up at 7-0-0, 108 lb down and 101 lb up at 9-0-12, 108 lb down and 101 lb up at 11-0-12, 108 lb down and 101 lb up at 13-0-12, 108 lb down and 101 lb up at 15-0-12, 108 lb down and 101 lb up at 17-0-12, 108 lb down and 101 lb up at 19-0-12, 108 lb down and 101 lb up at 25-0-12 on top chord, and 275 lb down and 118 lb up at 7-0-0, 67 lb down at 9-0-12, 67 lb down at 11-0-12, 67 lb down at 13-0-12, 67 lb down at 15-0-12, 67 lb down at 17-0-12, 67 lb down at 19-0-12, 67 lb down at 21-0-12, and 67 lb down at 23-0-12, and 67 lb down at 25-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

11) 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.

12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

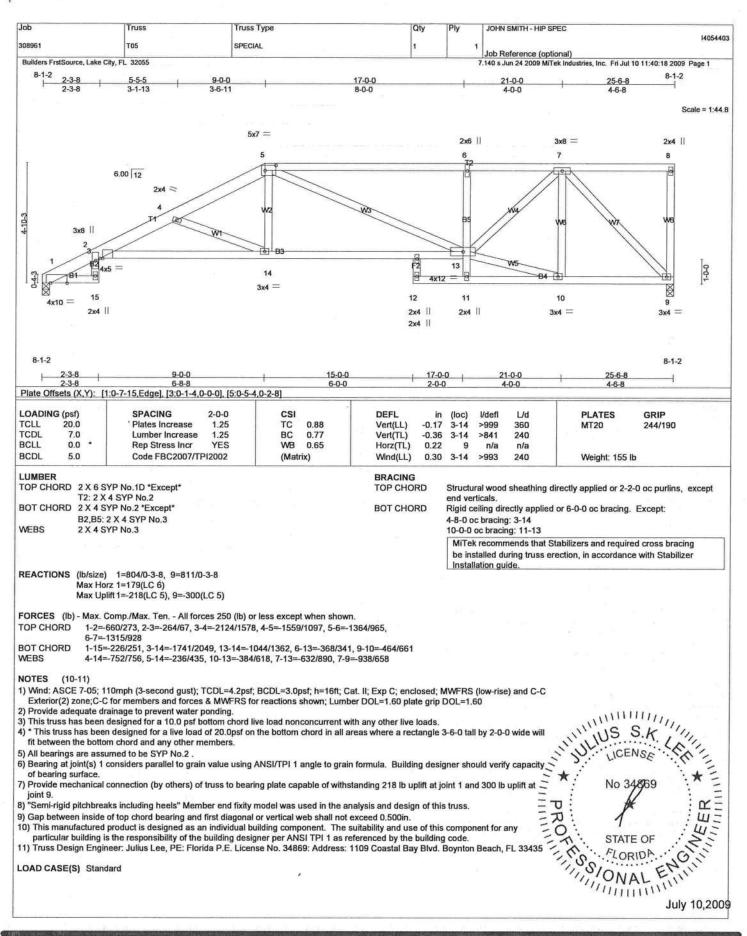
Uniform Loads (plf)

Vert: 1-3=-54, 3-7=-54, 2-8=-10

Concentrated Loads (lb)

Vert: 3=-233(F) 12=-236(F) 4=-108(F) 10=-35(F) 13=-108(F) 14=-108(F) 15=-108(F) 16=-108(F) 17=-108(F) 18=-108(F) 19=-108(F) 20=-108(F) 21=-35(F) 22=-35(F) 23-35(F) 24-35(F) 25-35(F) 26-35(F) 27-35(F) 28-35(F)

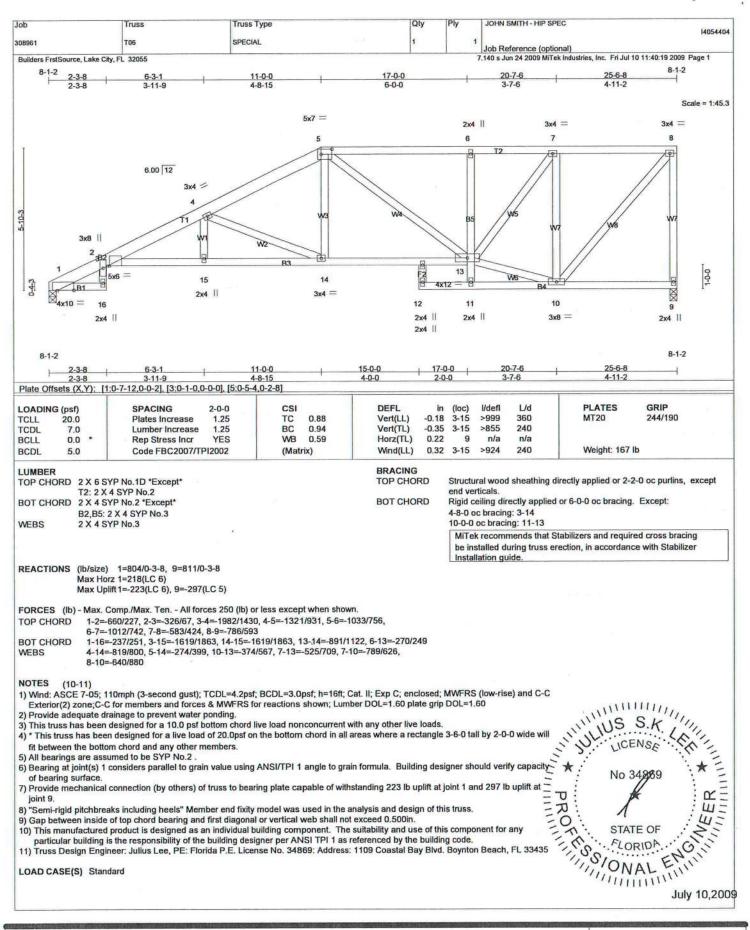
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

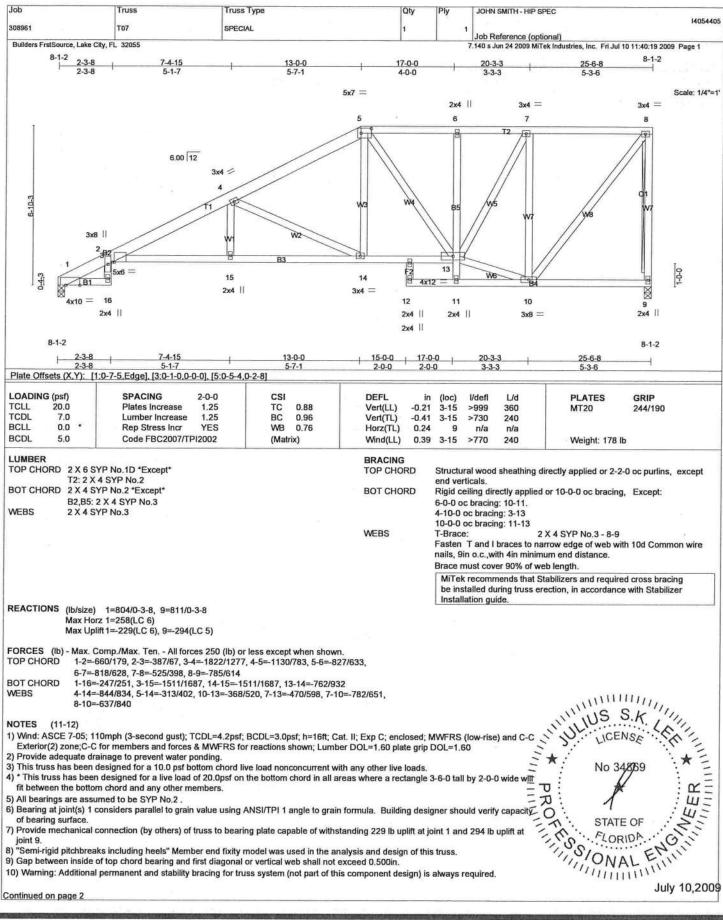
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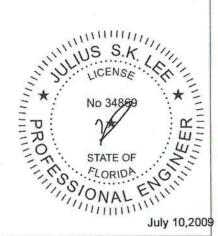
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

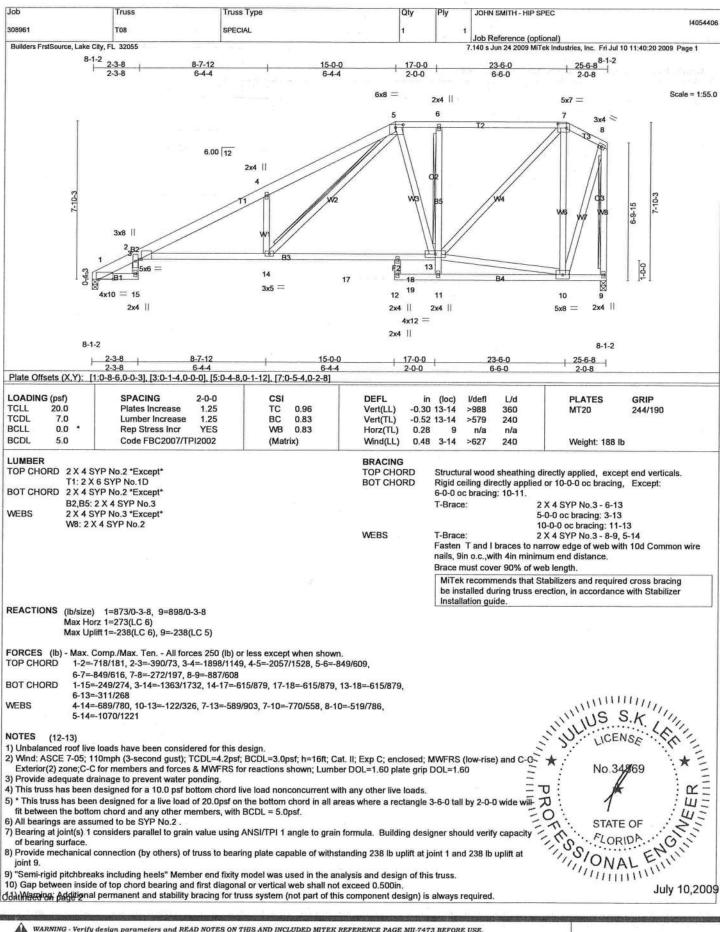
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b	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC	140544
8961	Т07	SPECIAL	1		Job Reference (optional)	
uilders FrstSource,	Lake City, FL 32055				7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul	10 11:40:20 2009 Page 2
This manufac	tured product is designe	d as an individual building comp	onent. The suitability and use	of this com	ponent for any particular building is the res	ponsibility of the
building desig	mer per ANSI TPI 1 as re	eferenced by the building code. E: Florida P.E. License No. 3486				
AD CASE(S)	Standard					





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

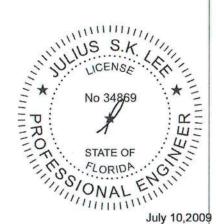
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.

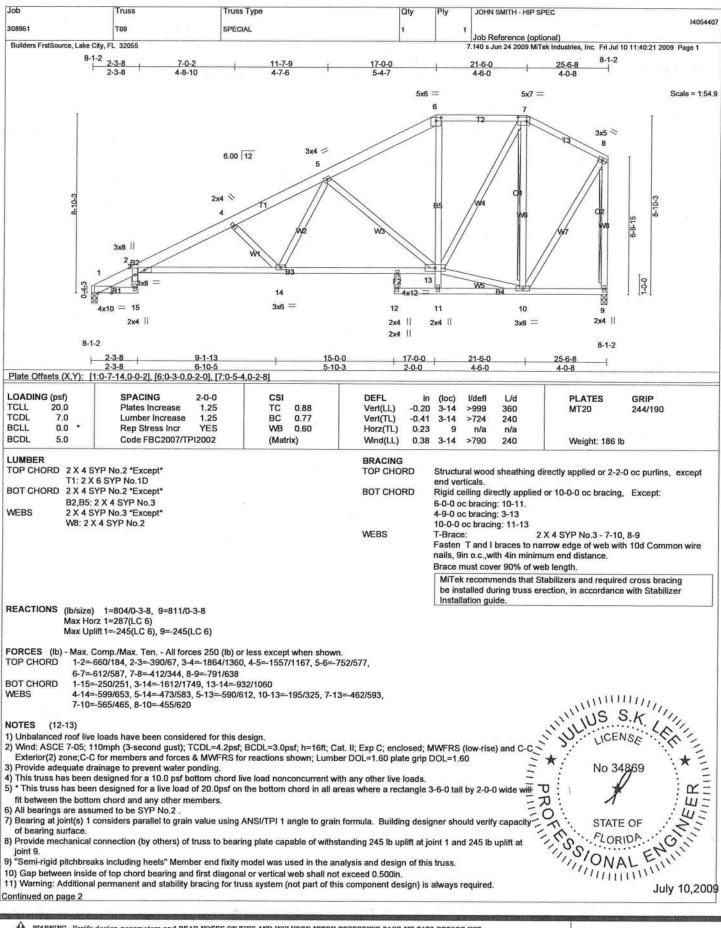
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Job	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC	W.C. William III
308961	T08	SPECIAL	1	1	Job Reference (optional)	14054406
D. 114 F. 10 1 -1- 03-	CI SORE				7 140 a lun 24 2000 MiTak Industrias Inc. Eri Iul 10	11:40:20 2000 Dags 2

12) 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.13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

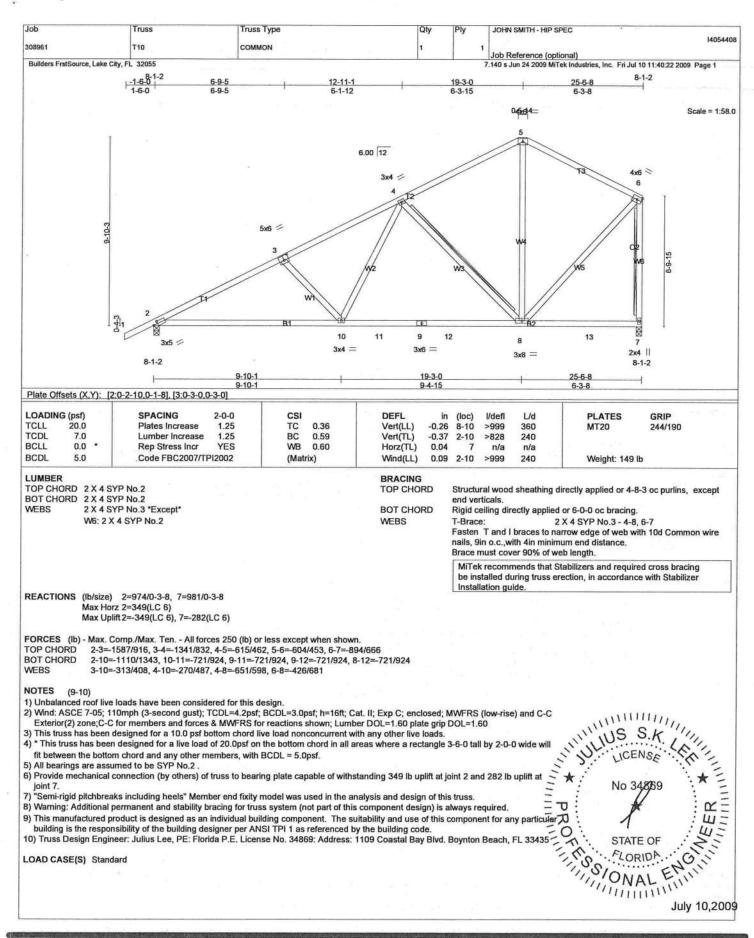




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

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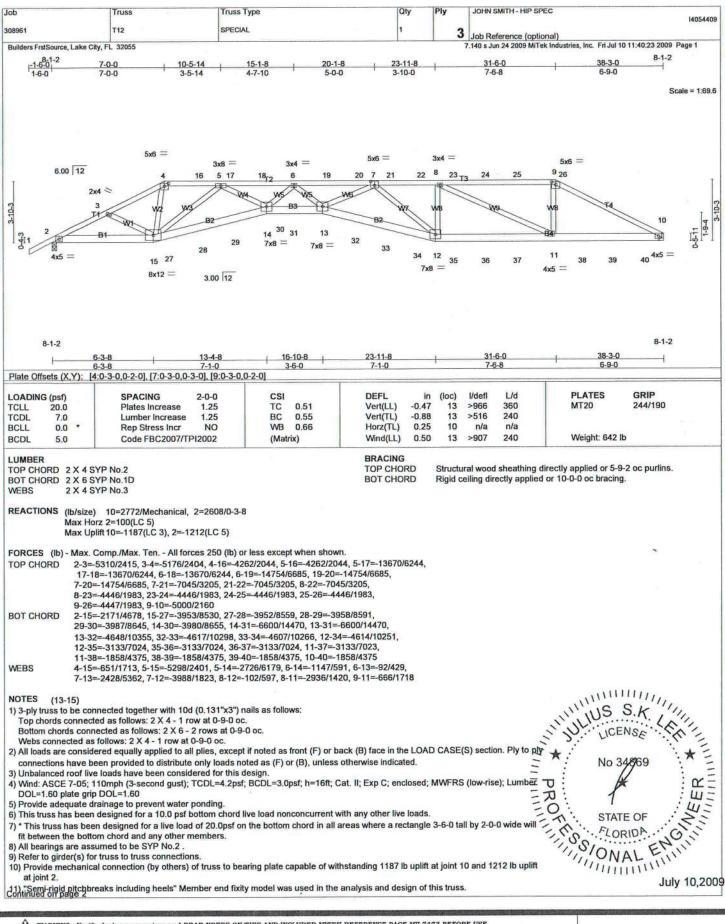
lob	Truss	Truss Type		Qty	Ply	JOHN SMITH - HIP	SPEC		Taka wasan
08961	тоэ	SPECIAL		1	1				14054407
Builders FrstSource, Lake				21-1	1	Job Reference (o	ptional) liTek Industries, Inc. Fri	Jul 10 11:40:21 20	9 Page 2
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building designer	per ANSI TPI 1 as refe	is an individual building com renced by the building code						responsibility of	tne
13) Truss Design En	gineer: Julius Lee, PE: I	Florida P.E. License No. 348	869: Address: 1109 Co	astal Bay Blvd	. Boynton	Beach, FL 33435			
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Job	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC	14054400
308961	T12	SPECIAL	1	3	Job Reference (optional)	14054409

Builders FrstSource, Lake City, FL 32055

7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11:40:23 2009 Page 2

NOTES (13-15)

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 375 lb down and 345 lb up at 7-0-0, 32 lb down and 48 lb up at 9-0-12, 28 lb down and 18 lb up at 11-0-12, 108 lb down and 102 lb up at 13-0-12, 108 lb down and 102 lb up at 15-0-12, 108 lb down and 102 lb up at 17-0-12, 29 lb down and 21 lb up at 19-0-12, 29 lb down and 46 lb up at 21-0-12, 103 lb down and 92 lb up at 23-0-12, 108 lb down and 101 lb up at 25-0-12, 108 lb down and 101 lb up at 29-0-12, and 108 lb down and 101 lb up at 31-0-12 on top chord, and 148 lb down at 7-0-0, 110 lb down and 50 lb up at 9-0-12, 208 lb down and 119 lb up at 11-0-12, 66 lb down at 15-0-12, 66 lb down at 15-0-12, 66 lb down at 15-0-12, 67 lb down at 15-0-12, 67 lb down at 23-0-12, 67 lb down at 23-0-12, 67 lb down at 25-0-12, 67 lb down at 25-0-12, 67 lb down at 25-0-12, 67 lb down and 96 lb up at 33-0-12, and 194 lb down and 96 lb up at 37-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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.
- 14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
- 15) Use Simpson HGUS28-3 to attach Truss to Carrying member

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

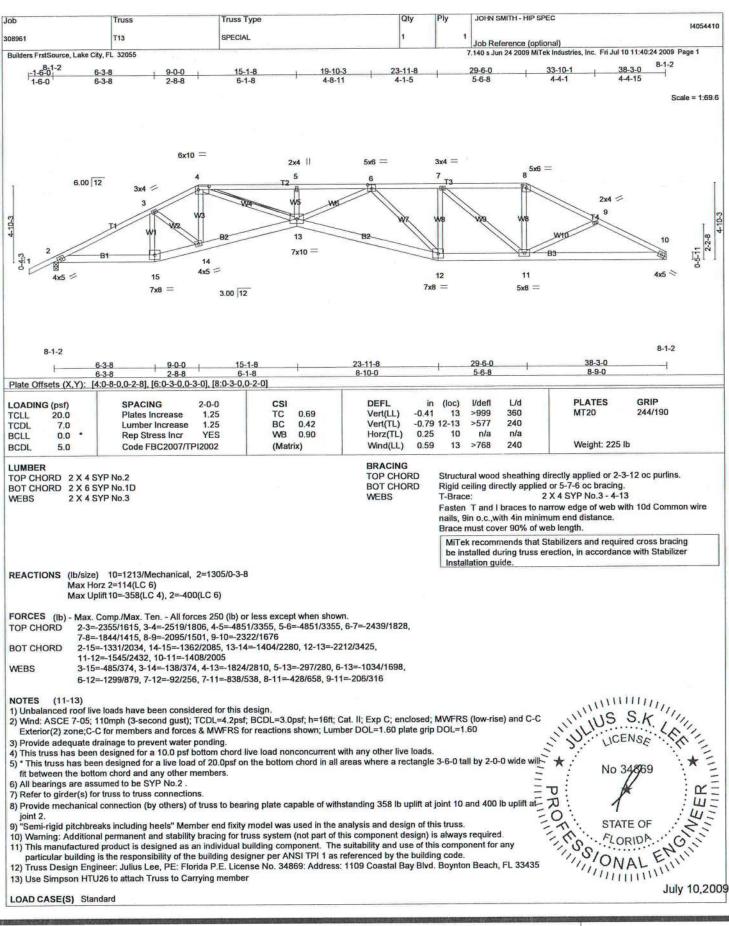
Vert: 1-4=54, 4-9=-54, 9-10=-54, 2-15=-10, 14-15=-10, 13-14=-10, 12-13=-10, 10-12=-10

Concentrated Loads (lb)

Vert: 4-375(B) 13-34(B) 6-108(B) 11-35(B) 16-32(B) 17-18(B) 18-108(B) 19-108(B) 20-21(B) 21-29(B) 22-103(B) 23-108(B) 24-108(B) 25-108(B) 26-108(B) 27-93(B) 28-110(B) 29-208(B) 30-34(B) 31-34(B) 32-221(B) 33-114(B) 34-40(B) 35-35(B) 36-35(B) 37-35(B) 38-194(B) 39-194(B) 40-194(B)



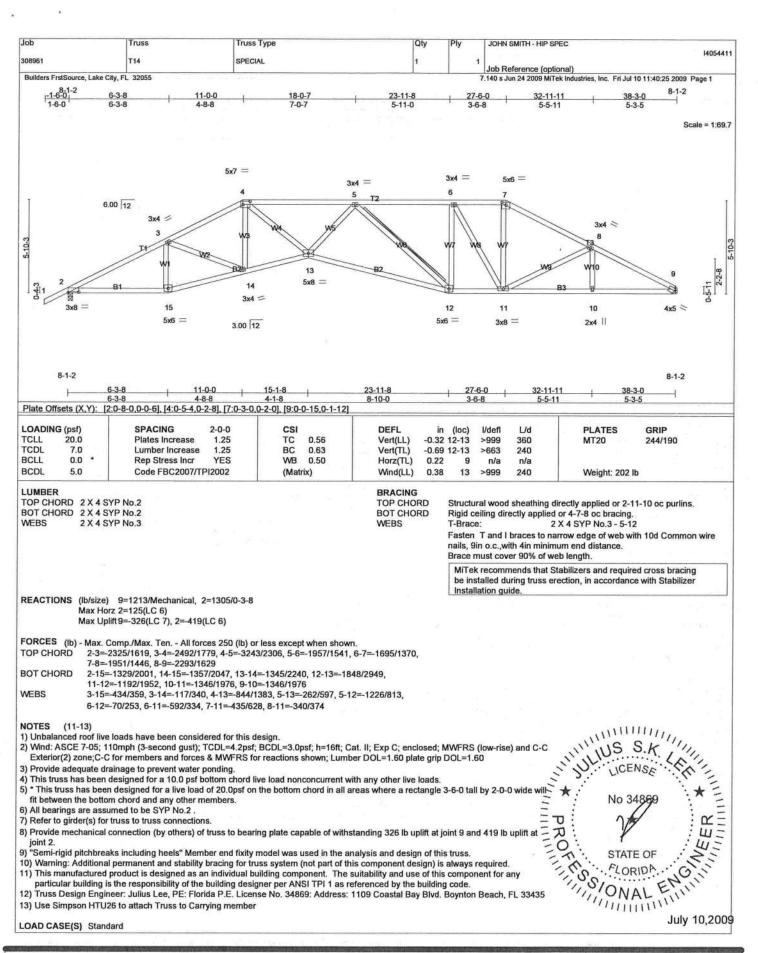
July 10,2009



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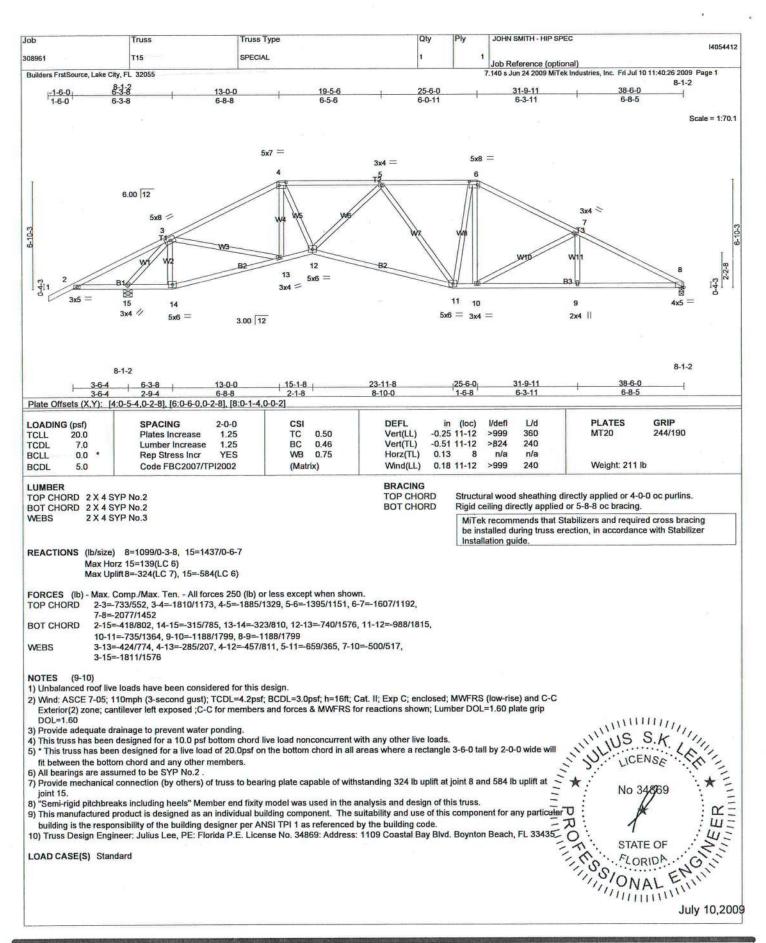
ANSI/P11 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information.



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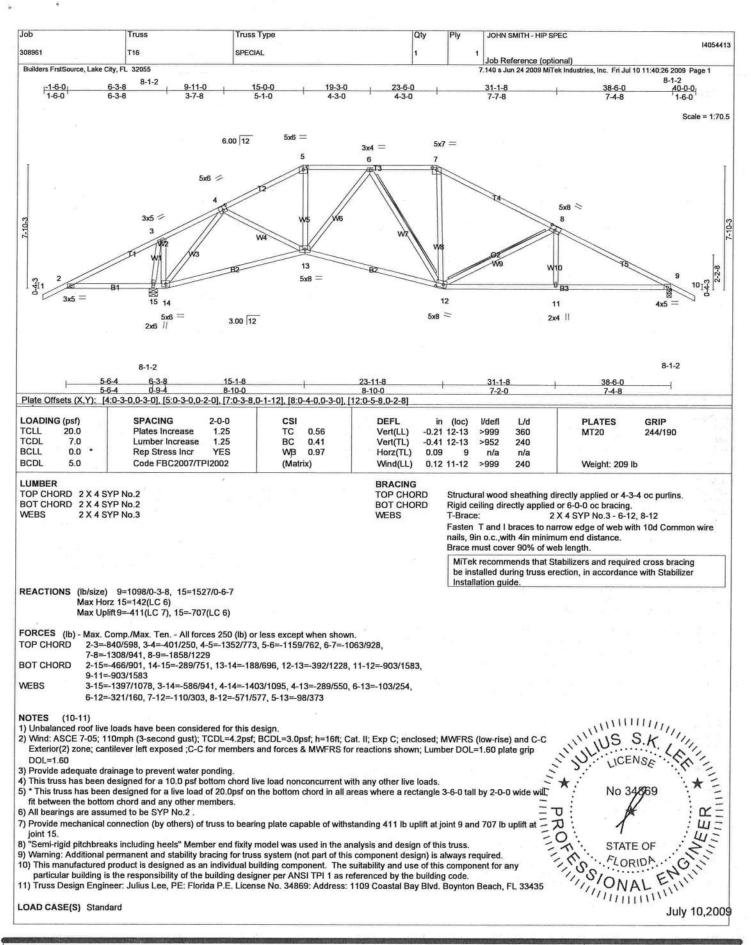
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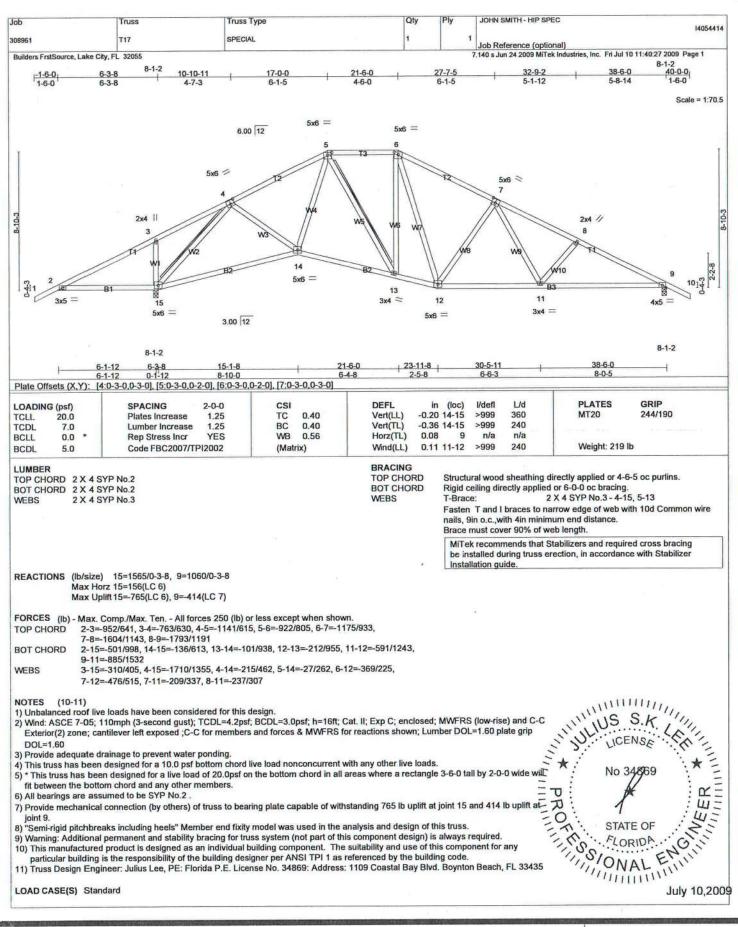
ANSI/TURE Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onotrio Drive, Madison, WI 53719.



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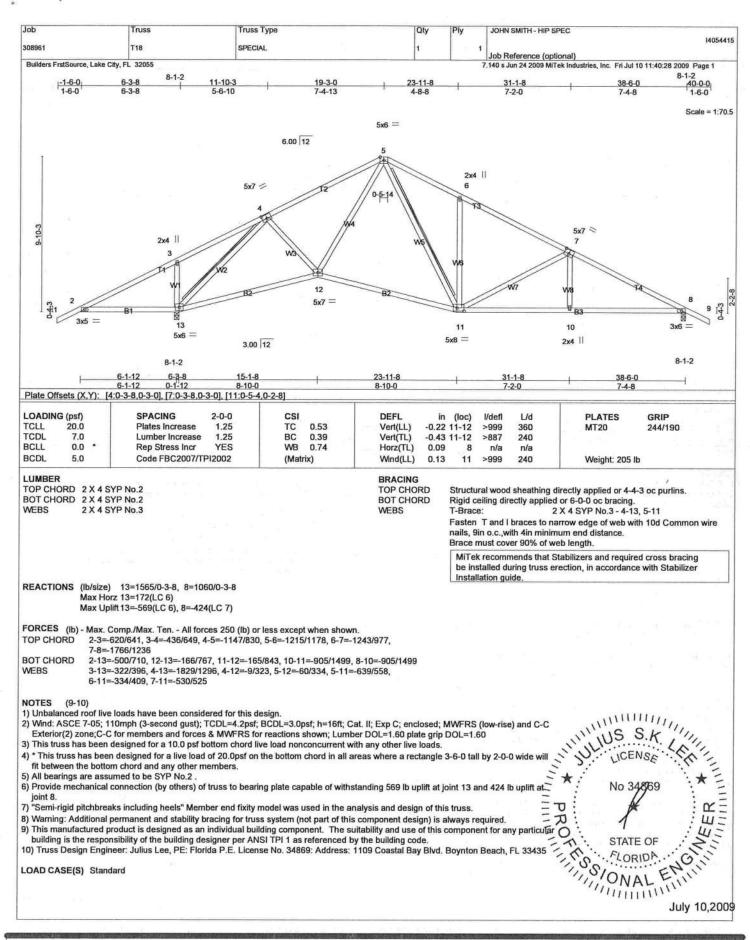
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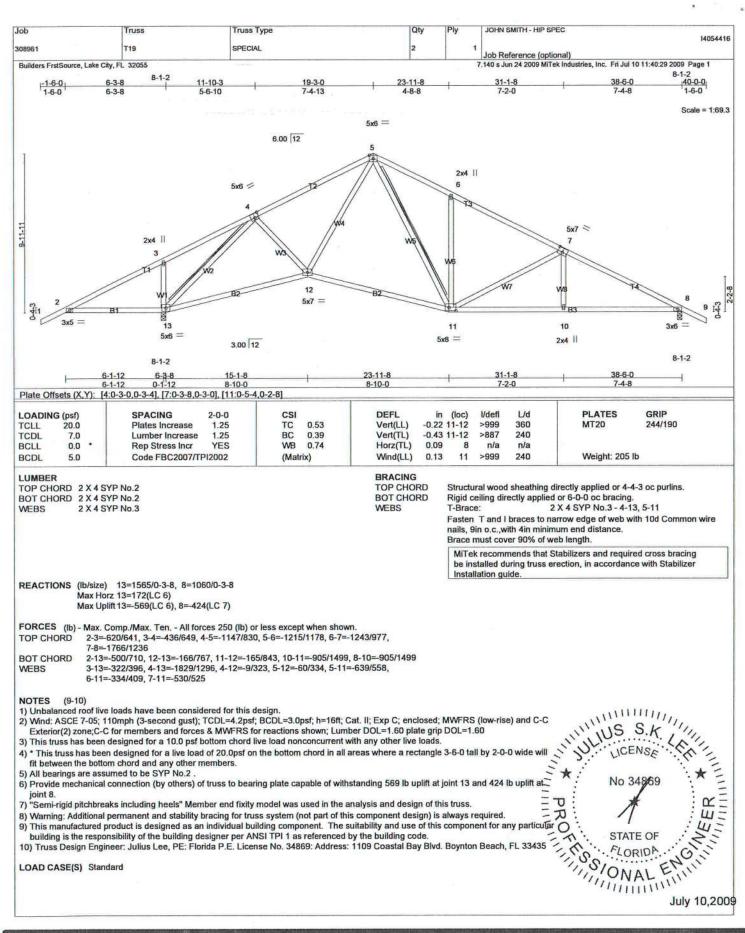
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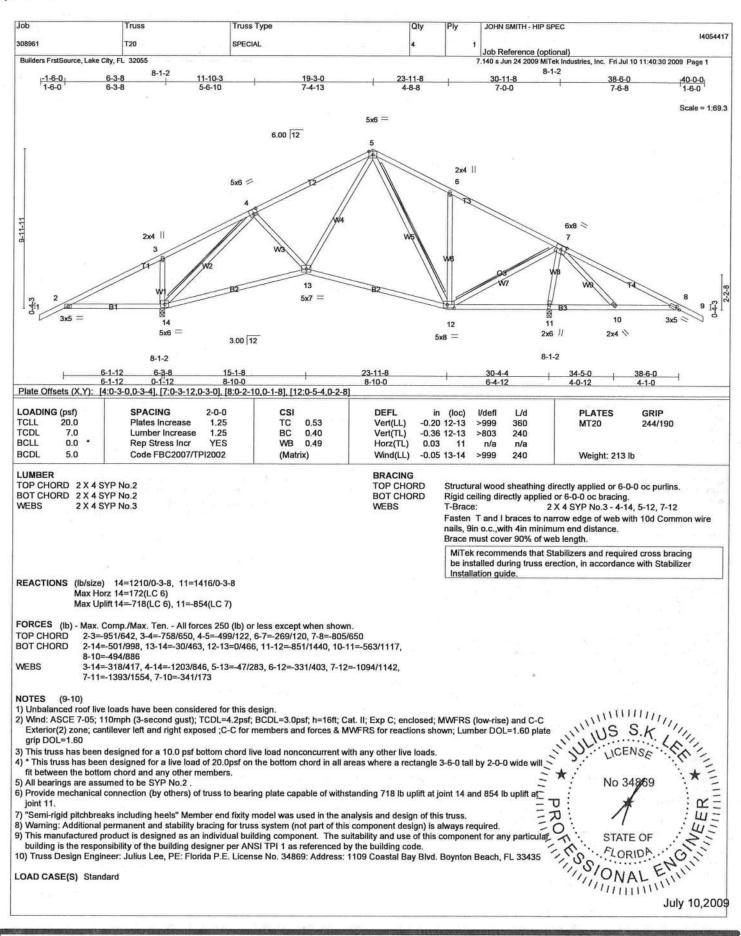
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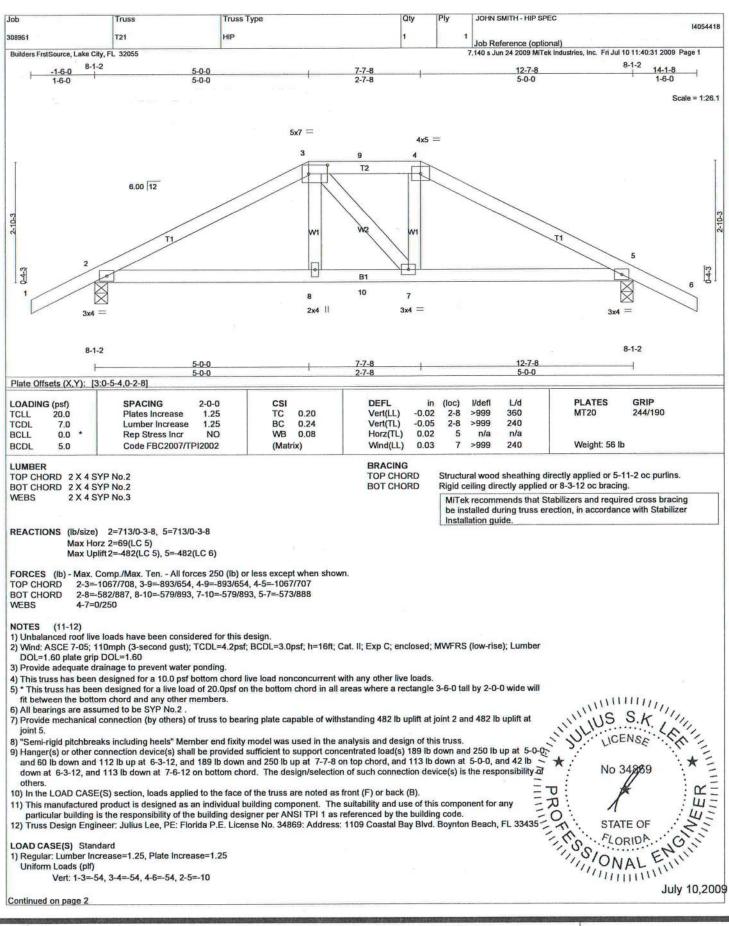
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Job	Truss	Truss Type	Qty	Ply	JOHN SMITH - HIP SPEC	
308961	T21	HIP	1	1	1	14054418
					Job Reference (optional)	
Builders FrstSource, Lake City	FL 32055				7.140 s Jun 24 2009 MiTek Industries, Inc. Fri Jul 10 11:4	0:31 2009 Page 2

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 3=-149(B) 4=-149(B) 8=-43(B) 7=-43(B) 9=-60(B) 10=-14(B)

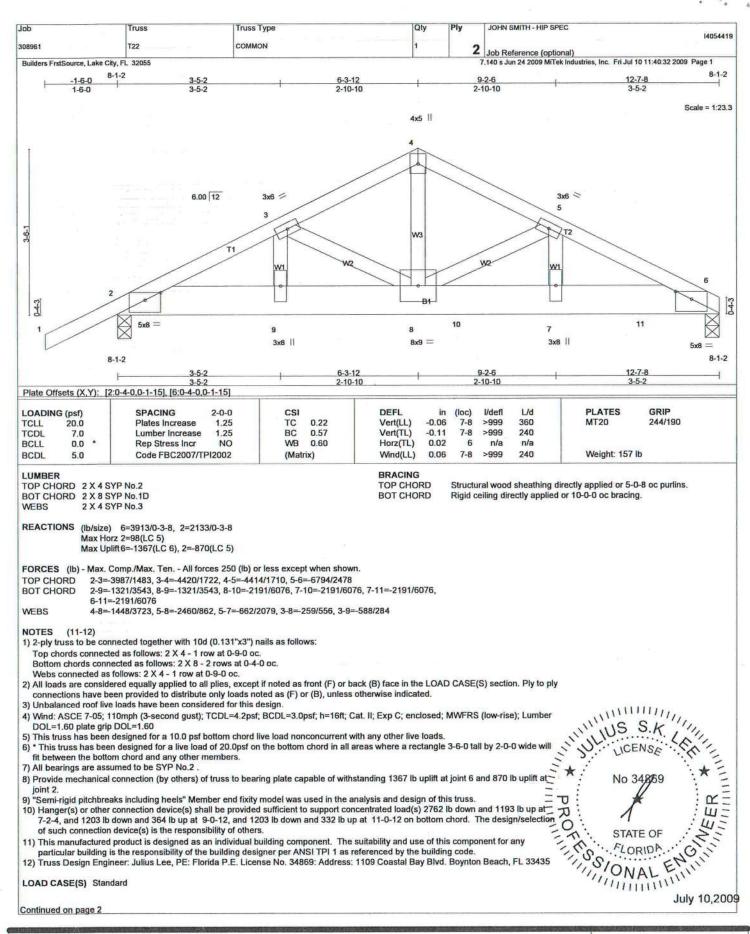
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July 10,2009



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Job	Truss	Truss Type	Otv	Plv	JOHN SMITH - HIP SPEC	
			۵.,	,	Marchan 1.00 and 1976 (1.00 and 1976 and 1977	14054419
308961	T22	COMMON	1	2	Joh Deference (antique)	
Buildage EretSource Lake City El	33055				Job Reference (optional)	- 0

LOAD CASE(S) Standard 1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-4=-54, 4-6=-54, 2-6=-10 Concentrated Loads (lb) Vert: 7=-1203(F) 10=-2762(F) 11=-1203(F)



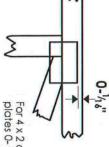
July 10,2009

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 4×2 orientation, locate plates $0^{-1}h_{\delta}^{n}$ from outside edge of truss.

11

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

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

PLATE SIZE

4 × 4

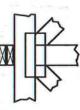
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, 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/TPI1:

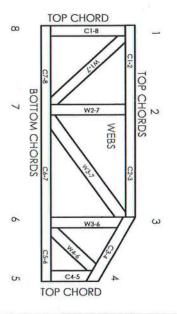
National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

BCSI1: Design

Design Standard for Bracing,
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing & Bracing of Metal Plate
Connected Wood Trusses.

Numbering System





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

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

PRODUCT CODE APPROVALS

CC-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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Julius Lee Engineering 1109 Coastal Bay Blvd. Boynton, FL 33435

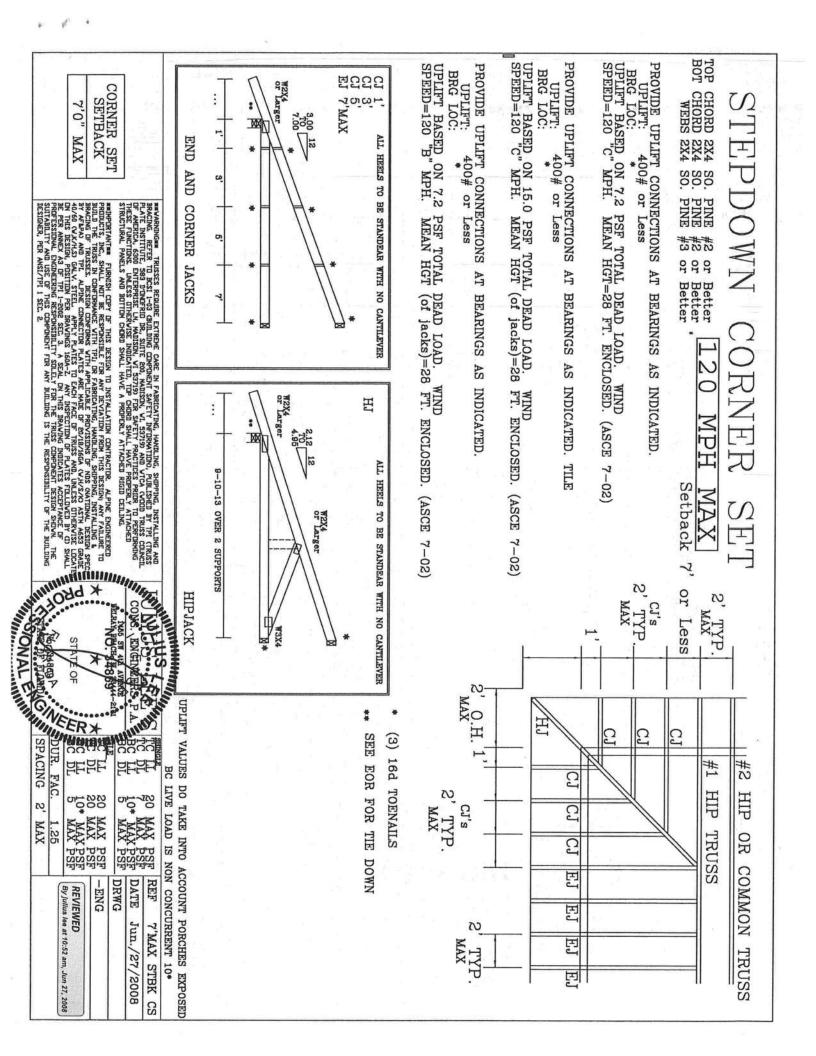


General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
- Truss bracing must be designed by an englineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T. I, or Elminator bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, properly owner and all other interested parties.
- Cut members to bear tightly against each other
- Place plakes on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- shall not exceed 19% at time of tabrication.

 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 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.
- Connections not shown are the responsibility of others
- Do not cut or after truss member or plate without prior approval of an engineer.
- 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.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.



ASCE 7-02: 130 MPH WIND SPEED, 15 MEAN HEIGHT, ENCLOSED, H 11 1.00, EXPOSURE 0

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4' 3"	4' 4'	4' 4"	4' 7"	4' 8"	4, 5,	4. 2"	4, 2,	4. 3.	9' 10"	4' 0"	4. 0.	4. 2"	4' 3"	3' 8'	3' 8"	3' 8"	a, 10.	3' 4"	3' 6"	3. 6.	3' 7"	3' 8"	3. 3.	3' 3"	3' 3"	3. 4.	BRACES	5
6' 1"	7' 1"	7. 5.	7° 4°	7' 40	6' 11"	6' 11"	6' 11"	7' 4"	5" 3"	6' 1°	B. 23	B' B"		5. 2.	B' 0"	6' 0"	8. 8.	4' 3"	5. 0,		6° 10"			4' 11"	4' 11"	6' 10"	GROUP A	"I" 1X4 "I"
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B' 0"	8' 9"	8, 8,			7' 10"	B, 8,	ଶ' ୫"		6' 11°		7' 11"	7' 11"	7' 11"	6' 10"	7' 11"	7' 11"		5' 8*		6. 8.	6' 11"	8' 11"	5' 8"	6' 5"	8. 6.	6' 11"	GROUP	(1) 2X4 "L"
	ю. 201	8, 5,		8, 2,	7' 10"	8º 8º	8 B	1	8' 11°	B' 1°	8. 22	B' 8*		6' 10"	7' 11"	7' 11"	8 1"	5' 8"	6, 2,	8. B.	7' 6"	7' 50	5' 6"	6' 5"	6, 6,	7' 1"	A GROUP B	BRACE *
10' 5"	10' 6"	10′ 5°			10' 6"			10' 6"			9. 6.			8° 23							B, 8,			100	8 3		GROUP A	(2) 2X4 "L"
10' 8"		10' 11"		11. 27	10' 6"		10' 5"	TO. 8			8' 11"	10' 2"	10' 2"	8, 5,	9' 5"	9, 5,		7' B"	8' 8"	8' 8"		B' 11°			8 3		GROUP B	BRACE **
12. 6.		13 6					13' 8"	13' 8"	10' 10"	12' 5"	12. 6.		12' 5"	10' 7"		12' 4"		8' 10°	10' 3"	10' 4"		10' 10"	8 8	10' D"	10, 1,		GROUP A	(1) 2X0 T
12' 6"	14' 0"	14' 0"	14' 0"	14 0	12, 3,	13' 6"	13 8	14 0	10' 10"	12 8	18.8	18' 5"	13. 5.	10. 7.	12' 4°	12' 4"	12. 8.	B' 10"	10' 3"	10' 4'	11' 8"	11' 8"	8, 8,	10' 0"	10, 1,	11. 2.	GROUP	BRACE .
14' 0"	14. 0	14' 0"	14. 0	14. 0	14' 0"	14' 0"	14. 0	14.0	14. 0	14. 0	14 0	14' 0"	14. 0	14' 0"	14' 0"	14' 0"	14. Q-	12' 0°	12' 11"	12, 11,	12' 11"	12' 11"	11' 8"	12' 11"	12' 11"	12 11	B CHOUP A CROUP	(2) ZXB "L"
14' 0"	14. 0"	14' 0"	14' 0"	14 0	14' 0"	14' 0"	14 0	14 0	14' 0"	14. 0	14 0	14" 0"	14 0	14 0"	14' 0"	14' 0"	14. 0	12' 0"	13' 7"	13' 7"	13' 11"	13' 11"	11. 8"	12' 11"	12' 11"	13, 3,	GROUP B	BRACE .

DOUGLAS FIR-LARCH
43
STUD
STANDARD

SOUTHERN PORE

GROUP B:

FLEW-PDR

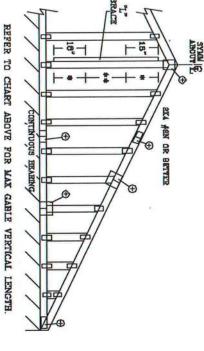
SPRUCE - PINI - IVB

HTM-FIR
AZ STUD
\$3 STANDARD

BRACING GROUP SPECIES AND GRADES:

GROUP

A:



DIAGONAL BEACE OFTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
HEACE IS USED. CONNECT
IMACONAL BEACE THE SAGE
AT EACH IND. MAX WEB
TOTAL LINGTH IS 14.

GABLE THUSS

VERTICAL LENGTH SHOWN IN TABLE ABOVE.

ZIA SP #2N, DF-L #2, SPF #/#E, DR SETTER DIAGONAL BRACE; SINCLE OR DOUBLE CUY (AS SECURN) AT UPPER END.

ğ	M	_
	IVE LOAD	CABLE
1	DE	=
T GNNE	PLECTION	TRUSS
PROVIDE HEIST CONNECTIONS THE 136 PLS OVER	DEPLECTION CHITERIA IS L/240.	DETAIL NOTES
2	23	H
ė	5	NO
4	8	H
OVER		ζŽ

PROVIDE DELLET CONNECTIONS IN THE THE PROVIDE DELLE DATE (& PER TO DELLE DALE).

CARLE END SUPPORTS DALE FROM 4: 0"

OUTLIDINGES WITH 2" 0" OVERHANG, OR 12"

PLYWOOD OVERHANG.

* POR (1) "L" BRACE: SPACE NAILS AT 8" 0.C.

ATTACE EAGH "L" BRACE WITH 104 NAILS AT 8" O.C. # FOR (1) "L" BRACE, SPACE NAILS AT 8" O.C. # FOR (2) "L" BRACES; SPACE NAILS AT 3" O.C. IN 18" INTO ZONES AND 4" O.C. BETWINN ZONES. "L" BRACING MUST BE A MINIMUM OF 80% OF WEBMILDER LENGTH.

PEAK, SPLICE, AND HEEL PI	GREATER THAN 11' 6"	CREATER THAN 11' 8"	LESS THAN 4' 0"	VERTICAL LENGTH
PLATES.	2.5X4	2004	X4 OR EXS	NO SPLICE

III	1988	OS MI	inni inni		•••	1111	'Ma	
WILLIAM THE	CAR CO	> VE	STATEOF	X 1005)	CENG	OL 00 168 11	CONNECT DIAGONAL AT
	-4/	By		HINE	AN AND	BRACING.		左
		By julius lee at 12:00 pm, Jun 11, 2008	REVIEWED	AL PANELS AND BOTTON C	NCTIONS UNLESS OTHERY	GHE TRUSSES REQUIRE D		5
		lun 11, 2008		DRO SHALL HAVE A PROP	MADISON, VI SATIS) FOR THE CHOICE INDICATED, TOP CHOICE	E EXTREME CARE IN FABRICAT (BUILDING CONFIDENT SAFETY		£
		4)		ELS AND BOTTON CHIRD SHALL HAVE A PROPERT ATTACHED KIGGO CELLING	FOR SAFETY PRACTICES PRINT TO PERFURNING CHORD SHALL HAVE PROPERLY ATTACHED	TO SATIST AND VICA CADO TRUSS COUNCIL		REFER TO CHART ABOVE I
	STATE OF FLORIDA	No. 34880			DELEVA BEYCH' EC 20444-8161	CONS. ENGINEERS P.A.		REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH
	MAX. SPACING 24.0"		MAX. TOT. LD. 60 PSF					CTH.
				-ENG	DRWG MILE SID GABLE 15 E HT	DATE 11/26/09	REF ASCET-02-GAB13015	à

NO. 4869

NO. 48 DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
HRACE IS USED, CONTECT
HIACONAL BRACE FOR SHOP
AT EACH END. MAX WEB **GABLE** LENGTH MAX VERTICAL LENGTH IS 14". TABLE ABOVE. SPACING SPECIES S COMMENT AT THE REAL THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PAR 12" 24" 16 O.C. O.C. O.C. GABLE VERTICAL SPF DFL SPF DFL SPF DFL SP H ASCE STANDARD #1 STANDARD STANDARD GRADE STANDARD STANDARD STUD TANDARD 打 / #2 STUD STUD CUIS 7-02: SEDEL TRUSS BRACES 130 ZK SP OR

DT-L #2 OB

BETTE DIAGONAL

BRACE, SHOELE

OR DOUBLE

CUT (AS SHOWN)

AT UPPER END GROUP A MPH 1X4 "L" BRACE • (1) 2X4 "L" BRACE • (2) 2X4 "L" BRACE •• (1) 2X6 "L" BRACE • (2) 2X5 GROUP H WIND GROUP A GROUP B SPEED, 30 GROUP A MEAN TX2 ABOVE FOR MAX GABLE CONTINUOUS GROUP B HEIGHT, MEN OR BETTER CONS. SNEWER GROUP A DELEGAY BEACH, FL 33444-2161 No: 34869 STATE OF FLORIDA US LEE'S 0 ENCLOSED, GROUP B VERTICAL LENGTH GROUP A S r. MAX MAX. GROUP B HRACE . 11 12' 6' 19' 2" 13' 2" 10 SPACING TOT. 1.00, E PROVIDE UPLIFT CONNECTIONS FOR 180 FLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD). ATLACE EAGH "L" BRACE WITE 10d NAILS AT 8" O.C.

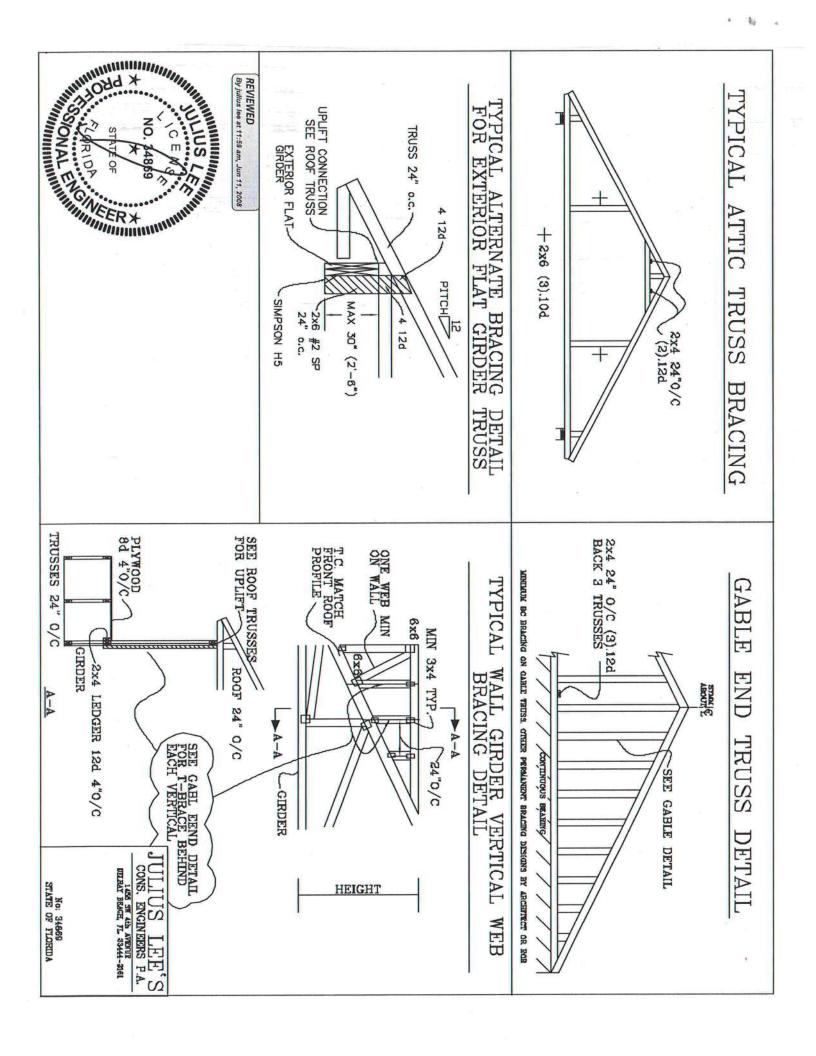
* FOR (1) "L" BRACE: SPACE NAILS AT 8" O.C.

* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.

IN 18" END ZONES AND 6" O.C. BETTEEN ZONES. CABLE END SUPPORTS LOAD FROM 4' 0" LIVE LOAD DEPLECTION CHITERIA IS L/240 T." BRACING MUST BE A MINIMUM OF BOX OF WEB MEMBER LENGTH. PLYWOOD OVERHAMG. BRACING GROUP SPECIES DOUGLAS FIR-LARCE #1 / #2 STANDARD
#3 SIUD CREATES THAN 4' 0" SUT

LESS THAN 4' 0" 11

ENGINE TRAN 11' 8" CABLE TRUSS DETAIL EXPOSURE 60 GREATER THAN 11' 8' 24.0 PEAK, SPLICE, AND HEEL PLATES. STANDARD CILITS EAT GABLE VERTICAL PLATE SIZES PSF DATE DWC MAKE SAD CYBITS 30, E 141 M W BLE GROUP GROUP 11/26/09 ASCE7-02-CAB13030 ä A: SOUTHERN PINE 1X4 OR EXS A STANDARD 2.5X4 NOTES 200 STANDARD GRADES:



BOT CHORD 284 200 999 BETTER BETTER

PIGGYBACK DETAIL

NE SEC

SPANS

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34

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58,

REFER TO SEALED DESIGN FOR DASHED PLATES

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPIJCES MUST BE STAGGERED SO THAT ONE SPIJCE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTION CHORD MAY BE OMITED. TRUSS TOP CHORD WITH 1.5X3 PLATE. ATTACH VERTICAL WEBS TO

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PICCYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY HE APPLIED HERMATH THE TOP CHORD OF SUPPORTING TRUSS

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:
110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG,
LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST
CAT L EXP C, WIND TO DL=5 PSF, WIND BC DL=5 PSF

MIND TO DL-5 PSF, WIND BC DL-5 PSF

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C. WIND TC DL=6 PSF

Ħ 0

9X9

53

9XG

AX B 584

OR SX6 TRULOX AT 4' HOTATED VEHTICALLY

20

1.5X9

1.6X4

1.6X4

1.5X4

H >

428

9X9

933

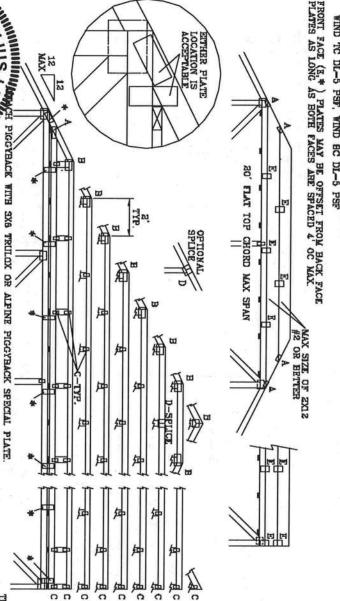
9XG

284 30

2.5X4

2.6X4

3XE



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E T
QUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO
PLY
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6 4
NAI 2
S 0
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H25
MAN
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HISNET GEA	REQUIRED BRACING
o' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES I MEMBER, OR BETTER, AND 80% LENGTH (MEMBER. ATTACH WITH 8d NAICS AT 4"
10' TO 14'	ZX4 "T" BRACE, SAME GRADE, SPECIES AS MEMBER, OR BETTER, AND BOX LENGTH OF MEMBER. ATTACH WITH 16d NAILS AT 4" (

	0	TTACH TEETH TO THE PIGGYBACK AT THABRICATION. ATTACH TO SUPPORTING TO 4) 0.120 X 1.375" NAILS PER FACE PER TIGGYBACK SPECIAL PLATE TO EACH TRUS PACE 4" OC OR LESS.	* PIGGYBACK SPECIAL PLATE
4 4	•	E TIME OF RUSS WITH PLY, APPLY SS FACE AND	TE

THIS DRAWING REPLACES DRAWINGS 634,016 834,017 & 847,045

ULIUS LEE'S CONS. ENGINEERS P.A. 1972 - PFFSC "II "ECPTSG AVERGO 55 PSF AT 1.33 DUR. FAC ..25 DUR. MAX LOADING 50 PSF AT 25 DUR. FAC DATE REF -ENG DRWGMITEK STD PIGGY 1L 09/12/07 PIGGYBACK

1.15 DUR. AT FAC.

No: 34869 STATE OF FLORIDA

SPACING

47 PSF

24.0

NO. 44869

NO. 44869

STATE OF

STATE OF

STATE OF

REVIEWED

By julius lee at 11 By julius lee at 11:59 am, Jun 11, 2008

MARKINGA TRUSSS REQUIRE DOTRIDE EME IN FABRICATING, HANGLING, SHIPPI POUR REFER TO ESSI 1-25 GUICLING COMPINIOT SMETE PERIMATION, PIEMS TE DASTITUTE, SEG OFFICIERO SE, SUITE EM, MAISSM, VI. 53759 MG NOTO, A MERICA, SOM ENTERPRISE U., NAISSM, VI. 53759 FIR SAFETY FRACTICES PRICES PR

VALLEY TRUSS DETAIL

HOP CHORD CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
2X4 SP #3 OR BETTER.

- ZX3 MAY BE RIPPED FROM A ZX6 (PITCHED OR SQUARE).
- * ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCI-BUILDING, EXP. C. RESIDENTIAL, WIND TC DL=5 PSF. FBC 2004 110 MPH, ASCE 7-02 110 NPH WIND ASCE 7-02 130 MPH WIND. 15' MEAN HEICHT, 18d HOX (0.135" X 3.5") NAILS TOE-NAILED FOR OR (3) 16d ENCLOSED FOR

EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9" WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80%

MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH: PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION

ENGINEERS' SEALED DESIGN. BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN

*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

LARGER AS REQ'D

4-0-0

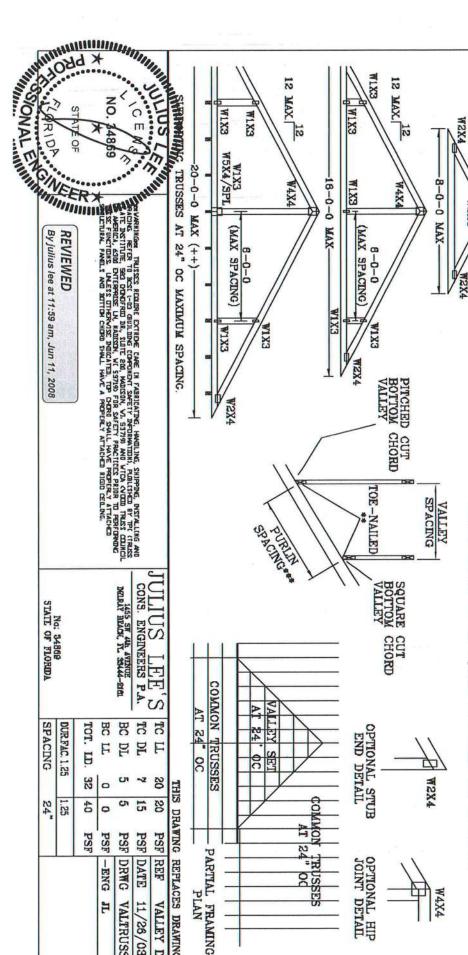
MAX

IZ MAX.

W2X4

++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN



THIS DRAWING REPLACES DRAWING ALOS

					00		
No. SARAG				DELRAY BEACH, IL SSA44-SICI	Z.	S, HH'I SIII'II	
Control of the Contro	DUI	TO	BC	BC	TC	TC	
	DUR.FAC. 1.25	TOT. LD.	F	PL	DL	F	
	25	32	0	U	~2	20	
	1.25	40	0	0	15	20	
		PSF	PSF	PSF	PSF	PSF	
			PSF -ENG JL	PSF DRWG	DATE	PSF REF	
			JL.	VALTRUSS1103	11/28/09	VALLEY DETAIL	STATE STATE SALES SELECTION SALES STATE ST

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 — EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

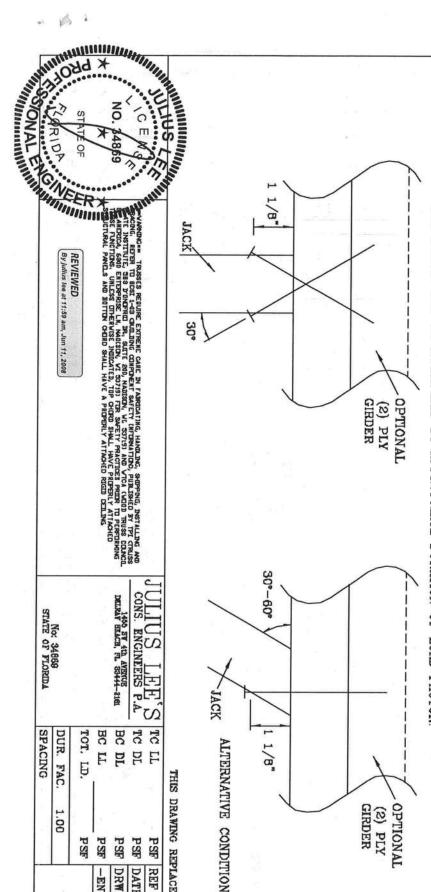
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF		SOUTHERN PINE	DOUGLAS	DOUGLAS FIR-LARCH		HEM-FIR	SPRUCE PINE FIR	PII
TOE-NAILS	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLES	1 PLY	2 PLIES
ผ	197#	256#	181#	234#	156#	203#	154#	189#
ယ	298#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#
Tr Witten State of the state of								

TIME INTERIOR MOTUNION 5 LOAD PACTOR



THIS DRAWING REPLACES DRAWING 784040

		FARCIATING, HANDLING, SHEPENG, INSTALLING AND TEAFFITY (METENATION), PUBLISHED BY TPE CITCUSS DISCH, VL. 207191 AND VICA (AUDID THUSS EDLANCE). UP CHOED SHALL HAVE PROPERLY ATTACHED OF A PROPERLY ATTACHED FOR A PROPERLY ATTACHED FOR A PROPERLY ATTACHED.					
STATE OF FLORIDA	No: 34869			DELICAY BLACH, FL 83444-2161	CONS. ENGINEERS P.A.	JULIUS LEE'S	
SPACING	DUR. FAC.	TOT. LD.	BC LL	BC DL	TC DL	TC LL	
	1.00	PSF	PSF	PSF	PSF	PSF	
	ari ari		-ENG JL	DRWG	DATE	REF	
			IL	CNTONAIL1103	09/12/07	TOE-NAIL	

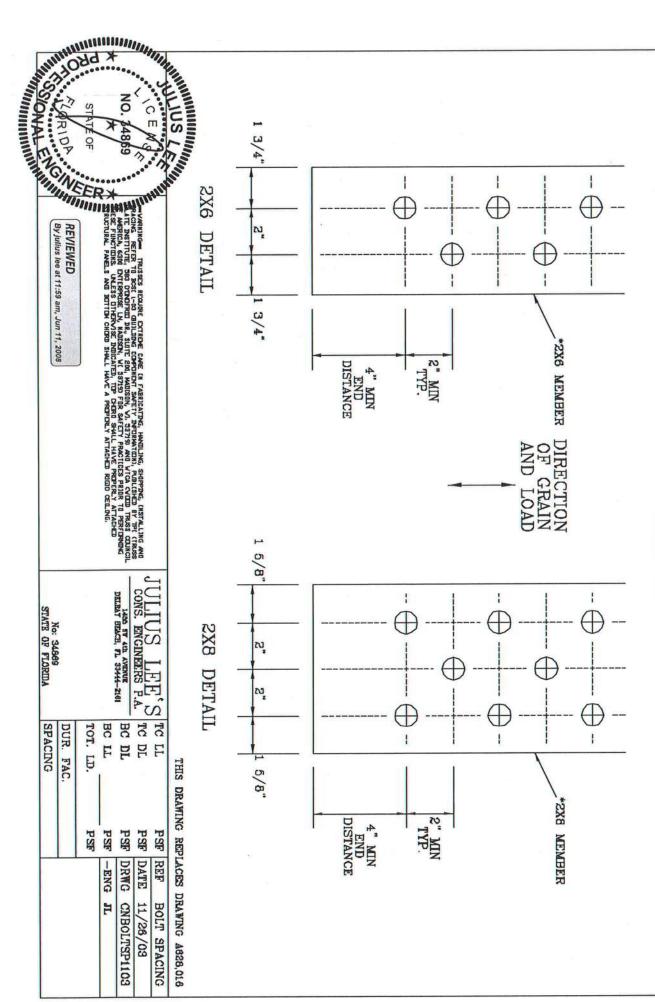
DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN

BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. QUANTITIES AS NOTED ON SEALED DESIGN MUST BE IN ONE OF THE PAITERNS SHOWN BELOW. APPLIED

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



No: 34869 STATE OF FLORIDA

DUR. FAC.

SPACING

BC LL

TOT. LD

PSF PSF

-ENG

H

TRULOX CONNECTION D)ETAT

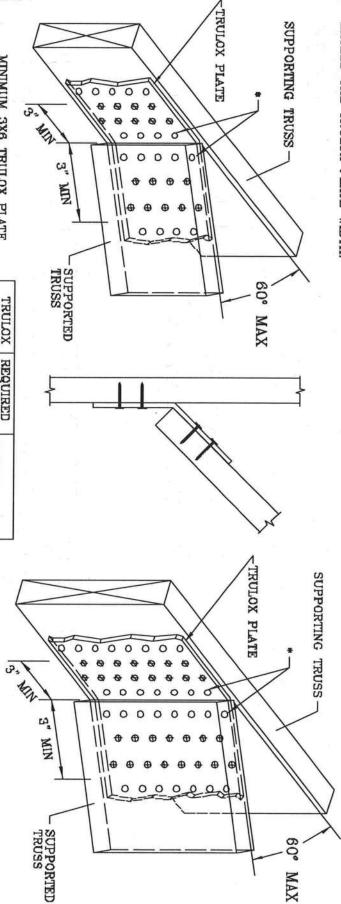
SHOWN (+). 11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE

NAILS MAY BE OMITTED FROM THESE ROWS

THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

INFORMATION NOT SHOWN THIS DETAIL FOR LUMBER, PLATES, AND OTHER REFER TO ENGINEER'S SEALED DESIGN REFERENCING





1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524 THIS DRAWING REPLACES DRAWINGS 1,158,969 1,158,989/R

CONS. ENGINEERS P.A. DELEVAL BEYOR' IL SOUNDE No: 34869 STATE OF FLORIDA S, HHT DATE DRWG REF -ENG Ħ CNTRULOX1103 11/28/09 TRULOX

NO. 34889

RAL PANELS AND BOTTO

REVIEWED

MINIMUM 3X6 TRULOX PLATE

TRULOX PLATE SIZE

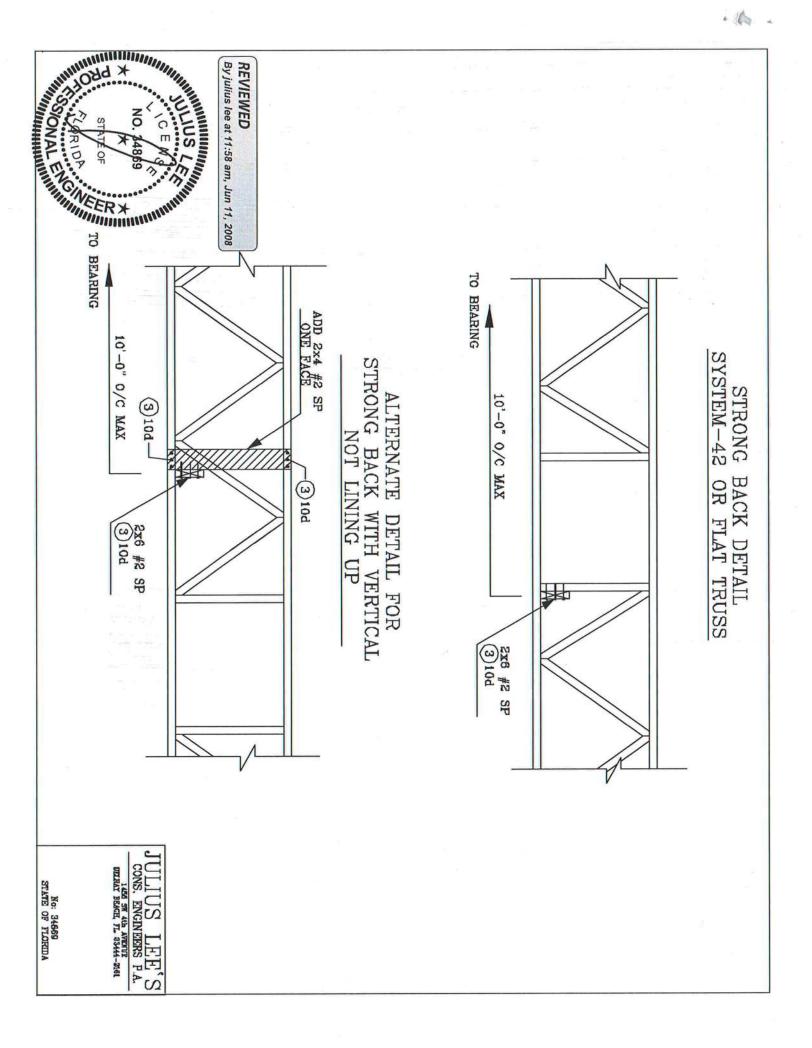
REQUIRED NAILS PER TRUSS

MAXIMUM LOAD UP OR DOWN

3X6

15 9

#088 350#



MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern						
			Assembly A 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F	
			3½" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply	
10d (0.128" x 3") Nail ⁽¹⁾	2	12"	370	280	280	245			
	3	12"	555	415	415	370			
½" A307 Through Bolts ⁽²⁾⁽⁴⁾	2	24"	505	380	520	465	860	340	
		19.2"	635	475	655	580	1,075	425	
		16"	760	570	785	695	1,290	505	
SDS 1/4" x 31/2"(4)	2	24"	680	510	510	455		Established	
		19.2"	850	640	640	565			
		16"	1,020	765	765	680			
	2	24"	7/			455	465	455	
SDS 1/4" x 6"(3)(4)		19.2"				565	580	565	
		16"				680	695	680	
USP WS35 (4)	2	24"	480	360	360	320			
		19.2"	600	450	450	400		11 3	
		16"	715	540	540	480		Salaman, Franch	
USP WS6 (3)(4)	2	24"				350	525	350	
		19.2"				440	660	440	
		16"		6		525	790	525	
33/8" TrussLok ⁽⁴⁾	2	24"	635	475	475	425			
		19.2"	795	595	595	530	2	21 4	
		16"	955	715	715	635		MARKET A	
5" TrussLok ⁽⁴⁾	2	24"		500	500	445	480	445	
		19.2"		625	625	555	600	555	
		16"		750	750	665	725	665	
63/4" TrussLok ⁽⁴⁾	2	24"		THE PROPERTY.	THE PARTY OF THE PARTY	445	620	445	
		19.2"		1		555	770	555	
		16"			NEW THE PARTY	665	925	665	

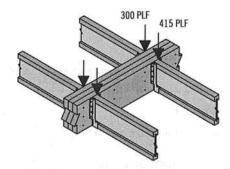
Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

General Notes

- 100 i

- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- Bold Italic cells indicate Connector Pattern must be installed on both sides.
 Stagger fasteners on opposite side of beam by ½ the required Connector Spacing.
- Verify adequacy of beam in allowable load tables on pages 16-33.
- 7" wide beams should be side-loaded only when loads are applied to both sides
 of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example



First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply $1\frac{3}{4}$ " assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:

Two rows of 1/2" bolts or SDS 1/4" x 31/2" screws at 19.2" on-center.

⁽²⁾ Washers required. Bolt holes to be 9/16" maximum.

^{(3) 6&}quot; SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

^{(4) 24°} on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

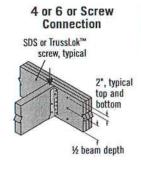
Activities and the second	Control of	Connector Pattern							
Connector Type	Number of Connectors	Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F		
		2"	51/4" 3-ply	13/4" 31/2" 51/4" 2-ply	7" 3-ply	2"	7" 4-ply		
10d (0.128" x 3") Nail	6	1,110	835	835	740				
	12	2,225	1,670	1,670	1,485		la de la companya de		
	18	3,335	2,505	2,505	2,225				
	24	4,450	3,335	3,335	2,965				
SDS Screws 1/4" x 31/2" or WS35 1/4" x 6" or WS6(1)	4	1,915	1,435(4)	1,435	1,275	1,860(2)	1,405(2)		
	6	2,870	2,150 (4)	2,150	1,915	2,785(2)	2,110(2)		
	8	3,825	2,870 (4)	2,870	2,550	3,715(2)	2,810(2)		
3¾" or 5" TrussLok™	4	2,545	1,910 (4)	1,910	1,695	1,925(3)	1,775(3)		
	6	3,815	2,860 (4)	2,860	2,545	2,890(3)	2,665(3)		
	8	5,090	3,815 (4)	3,815	3,390	3,855(3)	3,550(3)		

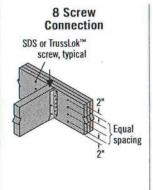
(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

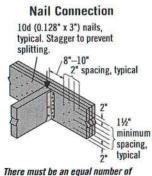
See General Notes on page 38

- (2) 6" long screws required.
- (3) 5" long screws required.
- (4) 31/2" and 35/2" long screws must be installed on both sides.

Connections

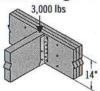






nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply 1¾" x 14" beam is capable of supporting the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply 1¾" assembly, eight 3¾" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

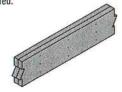
MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

13/4" Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d-16d (0.148"-0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3¾" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed
- on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

31/2" Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.
- Minimum of two rows of ½" bolts at 24" on-center staggered.





Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

