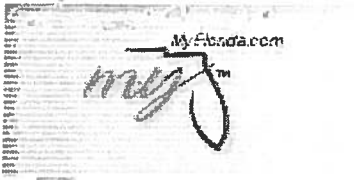


[illegible]


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5:01:18 PM 6/16/2006

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## Licensee Details

### Licensee Information

**Name:** FITZHUGH, JUSTIN M (Primary Name)  
**Main Address:** PRUDENTIAL BUILDERS INC (DBA Name)  
**P.O. BOX 3333**  
**LAKE CITY Florida 32056**  
**County:** COLUMBIA

**License Mailing:**
**LicenseLocation:**

### License Information

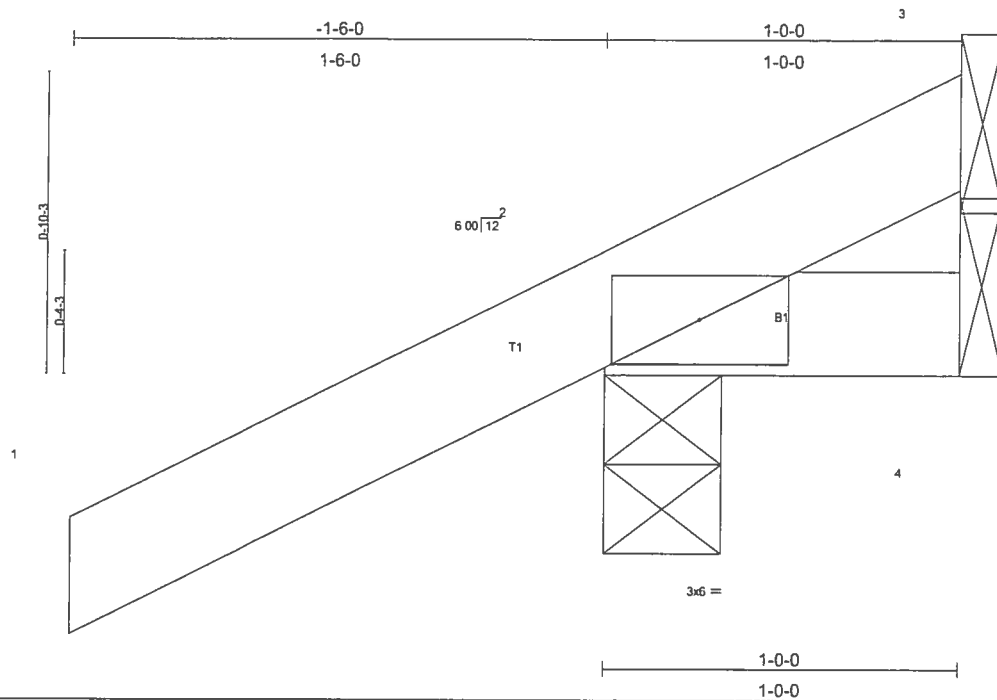
**License Type:** Certified Residential Contractor  
**Rank:** Cert Residential  
**License Number:** CRC1328401  
**Status:** Current,Active  
**Licensure Date:** 12/23/2005  
**Expires:** 08/31/2008

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Job L169928	Truss CJ1	Truss Type JACK	Qty 14	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055					
Job Reference (optional)					

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Scale = 1/8" = 1'-0"

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.15	Vert(LL) -0.00	2	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.01	Vert(TL) -0.00	2	>999	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00	3	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 6 lb

**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 1-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=189/0-4-0, 4=14/Mechanical, 3=41/Mechanical  
 Max Horz 2=70(load case 5)  
 Max Uplift 2=181(load case 5), 3=41(load case 1)  
 Max Grav 2=189(load case 1), 4=14(load case 1), 3=61(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/35, 2-3=45/35  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
 2 = 0.10

**NOTES**

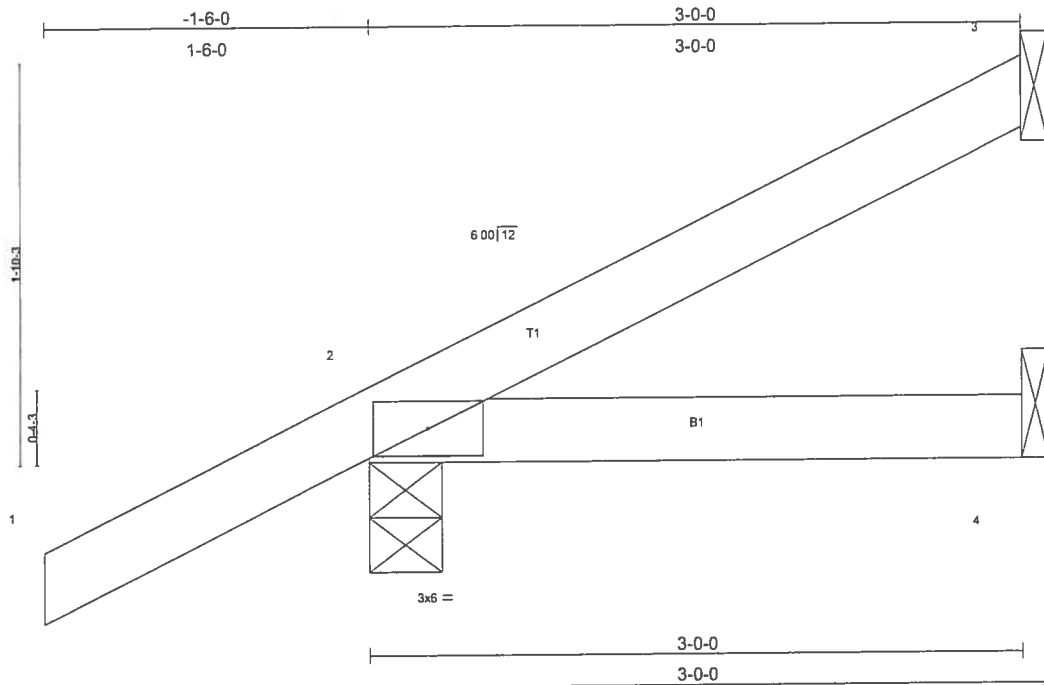
- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 2 and 41 lb uplift at joint 3.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	0 0
L169928	CJ3	JACK	10	1	
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.17	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.05	Vert(TL)	-0.01	2-4	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 12 lb	

**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 3-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=48/Mechanical, 2=233/0-4-0, 4=42/Mechanical  
 Max Horz 2=115(load case 5)  
 Max Uplift 3=-37(load case 5), 2=-153(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-49/16  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

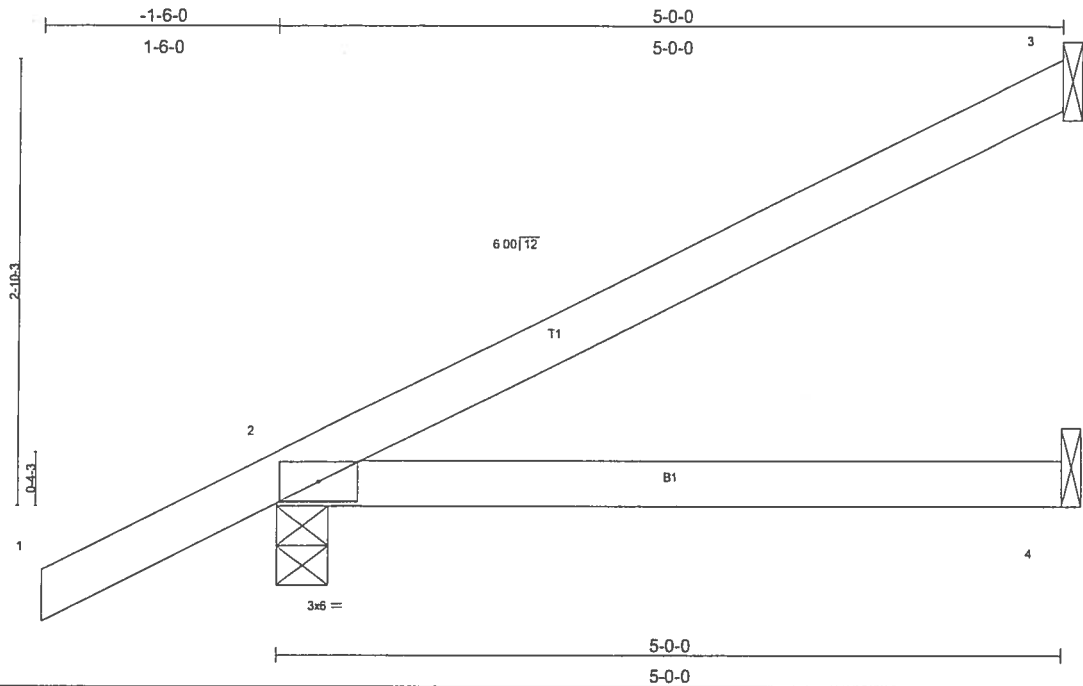
2 = 0.11

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 3 and 153 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L169928	Truss CJ5	Truss Type JACK	Qty 2	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055					Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 19 10:33:02 2006 Page 1



LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.24	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							Weight: 18 lb

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

**REACTIONS** (lb/size) 3=113/Mechanical, 2=306/0-4-0, 4=72/Mechanical  
Max Horz 2=162(load case 5)  
Max Uplift 3=101(load case 5), 2=159(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/35, 2-3=-96/41  
BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
2 = 0.13

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 3 and 159 lb uplift at joint 2.

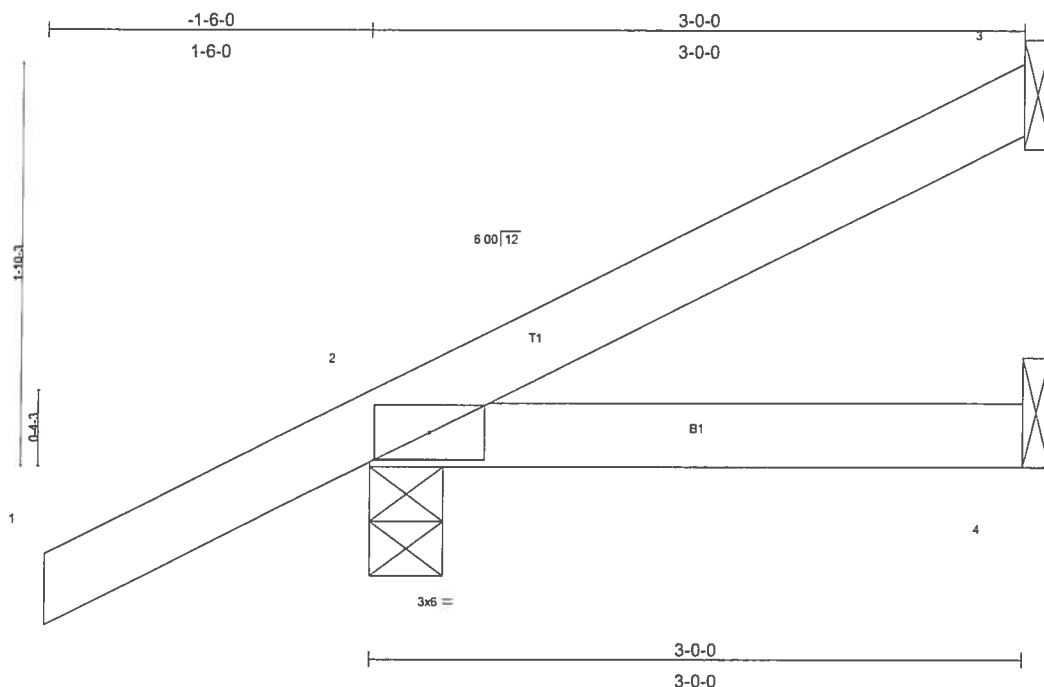
**LOAD CASE(S)** Standard

Job L169928	Truss EJ3	Truss Type MONO TRUSS	Qty 9	Ply 1	0 0
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Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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Scale = 1/10

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.05	Vert(TL)	-0.01	2-4	>999	180		
BCCL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 12 lb	

**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 3-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=48/Mechanical, 2=233/0-4-0, 4=42/Mechanical  
Max Horz 2=115(load case 5)  
Max Uplift 3=37(load case 5), 2=153(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=49/16  
BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

2 = 0.11

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 3 and 153 lb uplift at joint 2.

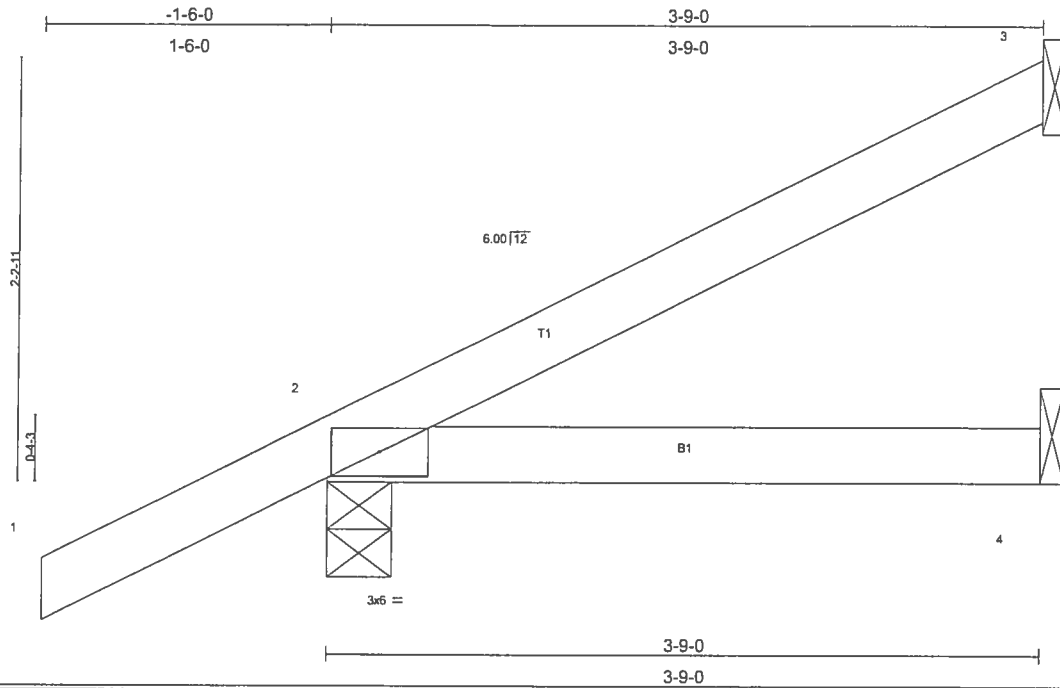
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	0 0
L169928	EJ4	JACK	7	1	

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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Scale = 1/11.6

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.09	Vert(TL)	-0.01	2-4	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002							Weight: 15 lb	

**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 3-9-0 oc purins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=74/Mechanical, 2=259/0-4-0, 4=53/Mechanical  
 Max Horz 2=133(load case 5)  
 Max Uplift 3=63(load case 5), 2=153(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/35, 2-3=65/26  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

2 = 0.11

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3 and 153 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	0 0
L169928	EJ7	MONO TRUSS	19	1	Job Reference (optional)

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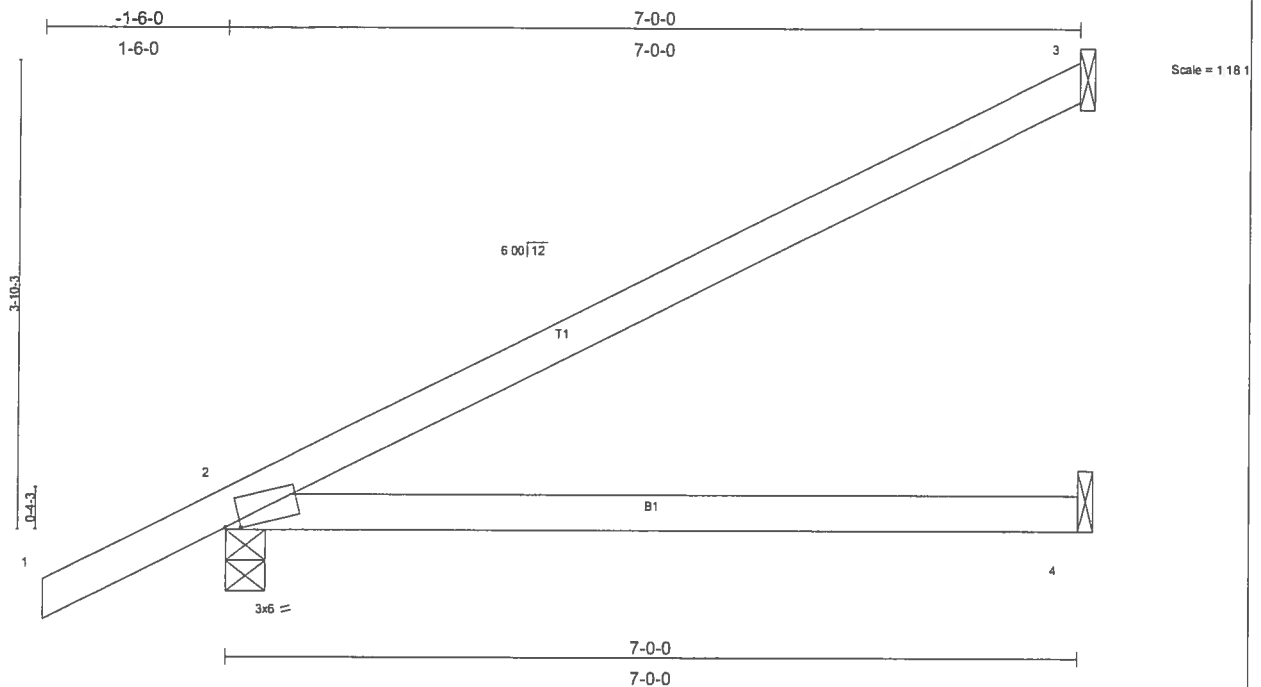


Plate Offsets (X,Y): [2:0-1-9,0-0-7]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.46	Vert(LL) -0.13 2-4 >614 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.37	Vert(TL) -0.22 2-4 >370 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00 3 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)		Weight: 25 lb	

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

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

**REACTIONS** (lb/size) 3=165/Mechanical, 2=385/0-4-0, 4=108/Mechanical  
Max Horz 2=208(load case 5)  
Max Uplift 3=-138(load case 5), 2=-173(load case 5)

**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 1-2=0/35, 2-3=-122/59  
**BOT CHORD** 2-4=0/0

**JOINT STRESS INDEX**  
2 = 0.91

## NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf, BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 3 and 173 lb uplift at joint 2.

LOAD CASE(S) Standard

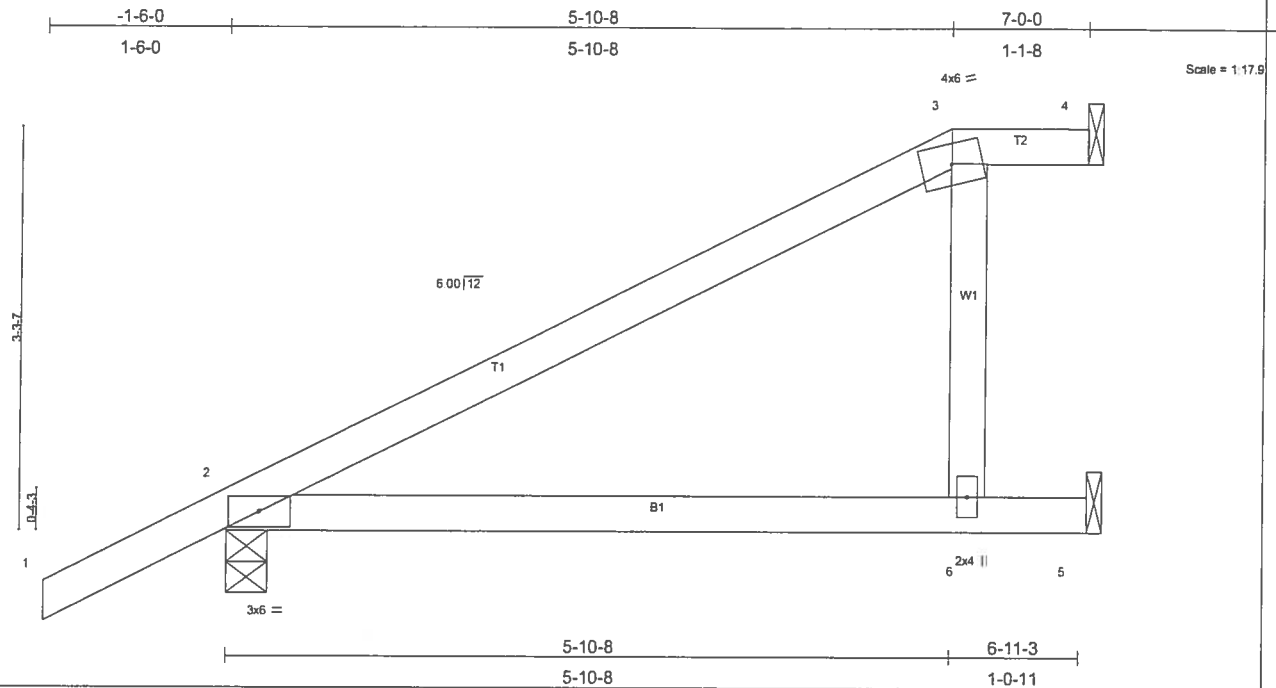
**JUNE 19, 2006 TRUSS DESIGN ENGINEER:**  
**THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987**  
**STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196**  
**16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**





Job	Truss	Truss Type	Qty	Ply	0 0
L169928	EJ7B	SPECIAL	1	1	
					Job Reference (optional)

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<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc)	<b>l/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase 1.25	TC 0.40	Vert(LL) 0.17 2-6	>487	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.42	Vert(TL) -0.25 2-6	>327	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.06	Horz(TL) 0.06 4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)					Weight: 29 lb

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

<b>BRACING</b>	
<b>TOP CHORD</b>	Structural wood sheathing directly applied or 6-0-0 oc purlins.
<b>BOT CHORD</b>	Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size) 4=77/Mechanical, 5=196/Mechanical, 2=385/0-4-0  
 Max Horiz 5=184(load case 5)  
 Max Lift4=-99(load case 3), 5=-128(load case 5), 2=-183(load case 5)  
 Max Grav 4=94(load case 10), 5=196(load case 1), 2=385(load case 1)

**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 3-4=-0/1, 1-2=0/35, 2-3=-97/42  
**BOT CHORD** 2-6=-0/241, 5-6=-0/254  
**WEBS** 3-6=-111/250

**JOINT STRESS INDEX**  
2 = 0.36, 3 = 0.42 and 6 = 0.14

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 11mphp (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate gird DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Refer to girder(s) for truss to truss connections.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 4, 128 lb uplift at joint 5 and 183 lb uplift at joint 2.

LOAD CASE(S) Standard

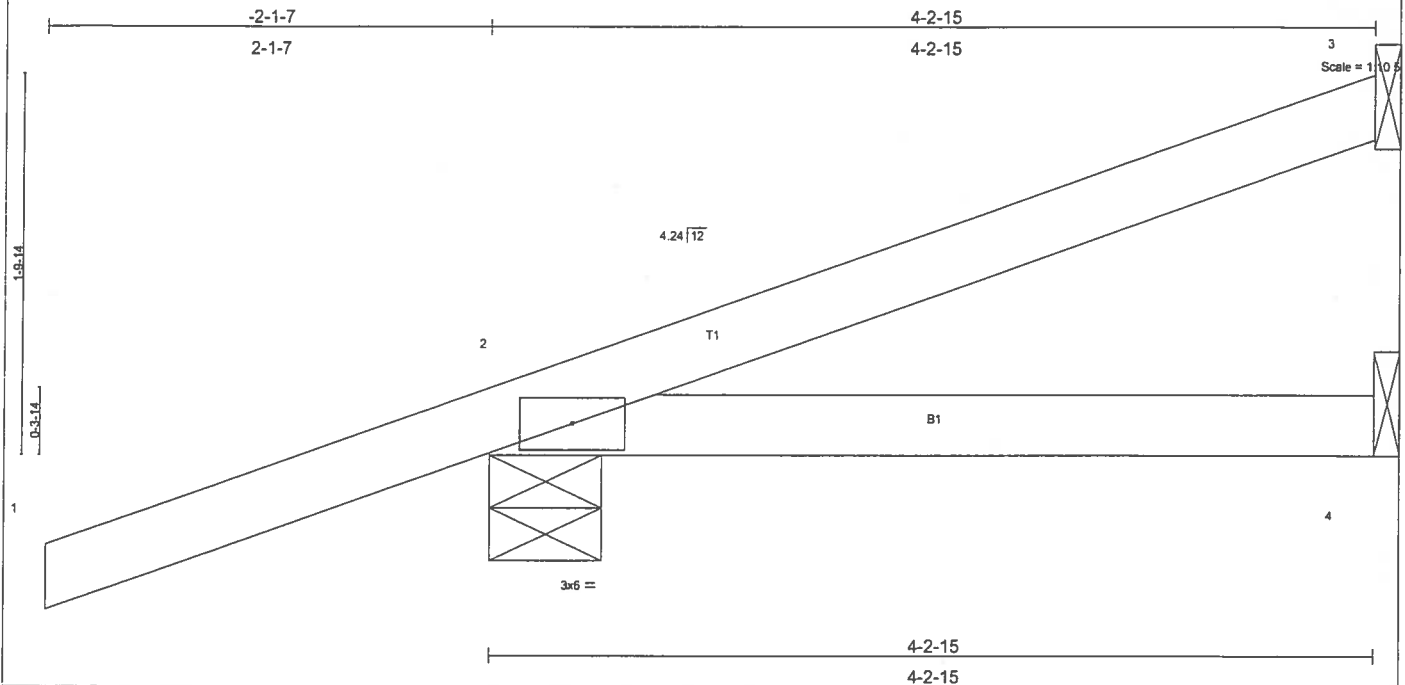
**JUNE 19, 2006 TRUSS DESIGN ENGINEER:**  
**THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987**  
**STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196**  
**16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**

Job	Truss	Truss Type	Qty	Ply	0 0
L169928	HJ4	JACK	2	1	

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.07	Vert(TL)	-0.01	2-4	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 16 lb	

**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 4-2-15 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=38/Mechanical, 2=231/0-6-7, 4=42/Mechanical  
 Max Horz 2=82(load case 2)  
 Max Uplift 3=-15(load case 2), 2=-189(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/38, 2-3=-29/6  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**  
 2 = 0.09

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 3 and 189 lb uplift at joint 2.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

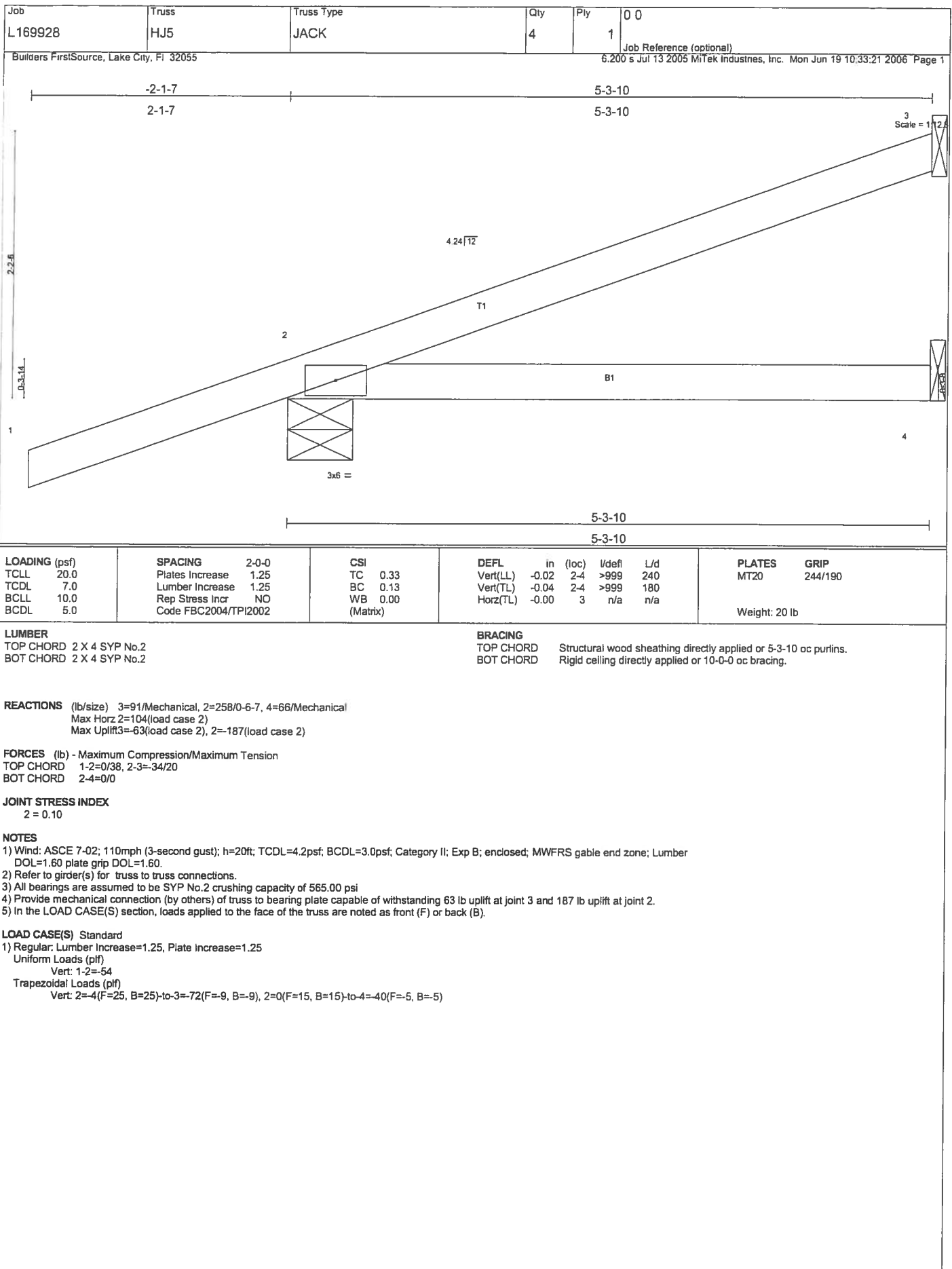
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25

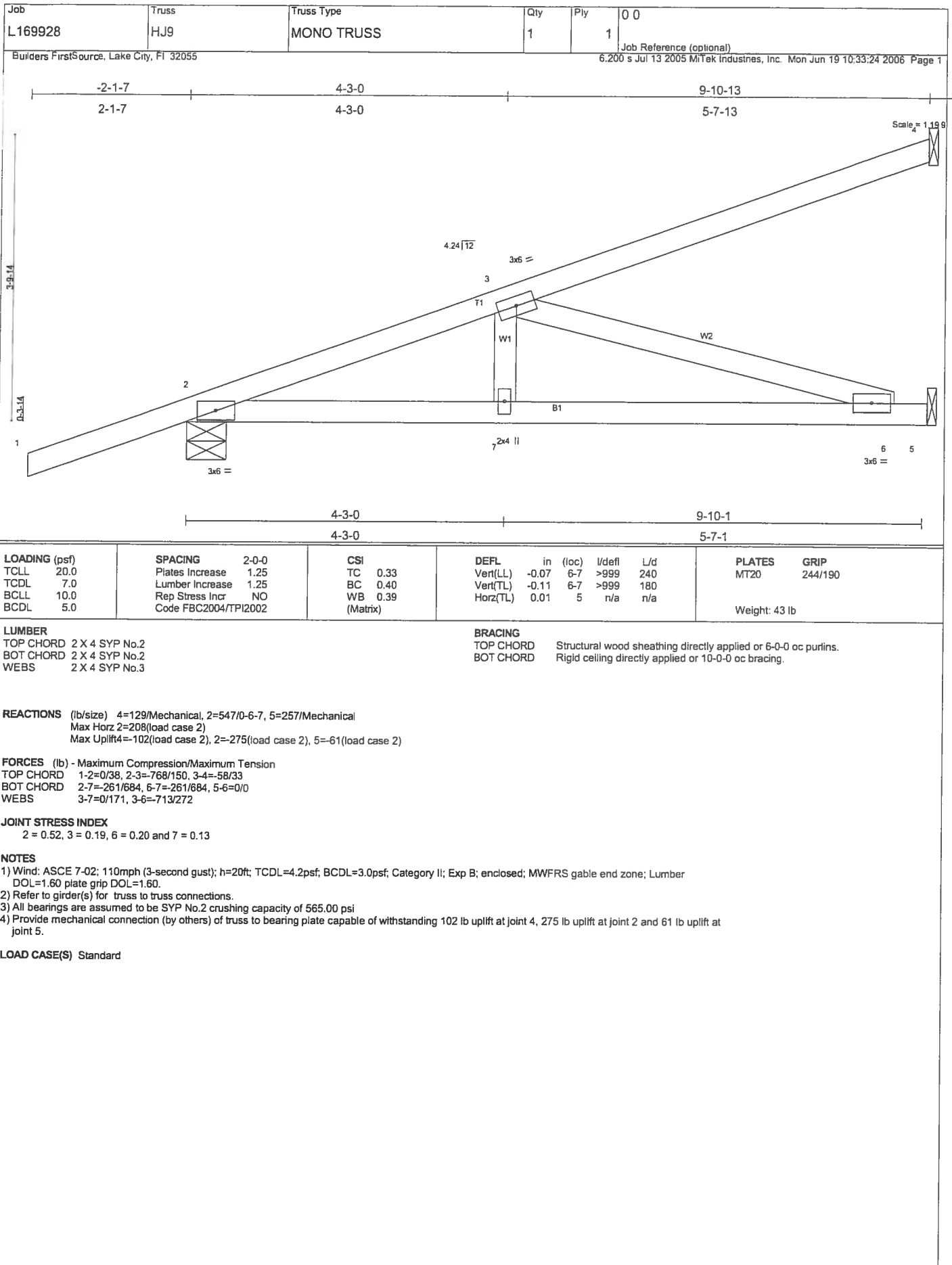
Uniform Loads (plf)

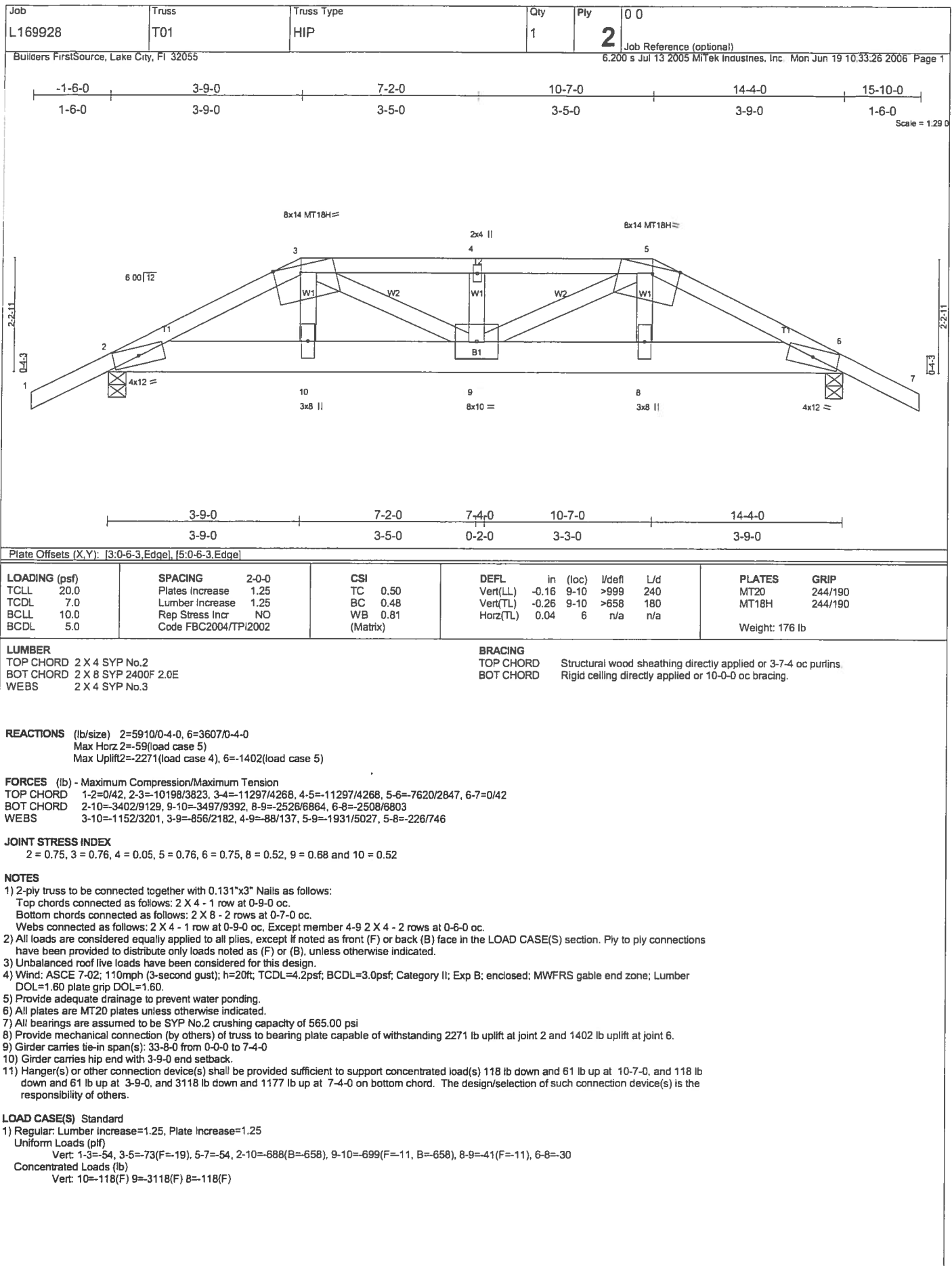
Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-4(F=25, B=25)-to-3=-57(F=-2, B=-2), 2=-0(F=15, B=15)-to-4=-32(F=-1, B=-1)







Job L169928	Truss T02	Truss Type HIP	Qty 1	Ply 1	0 0
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Builders FirstSource, Lake City, FL 32055

6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 19 10:33:29 2006 Page 1

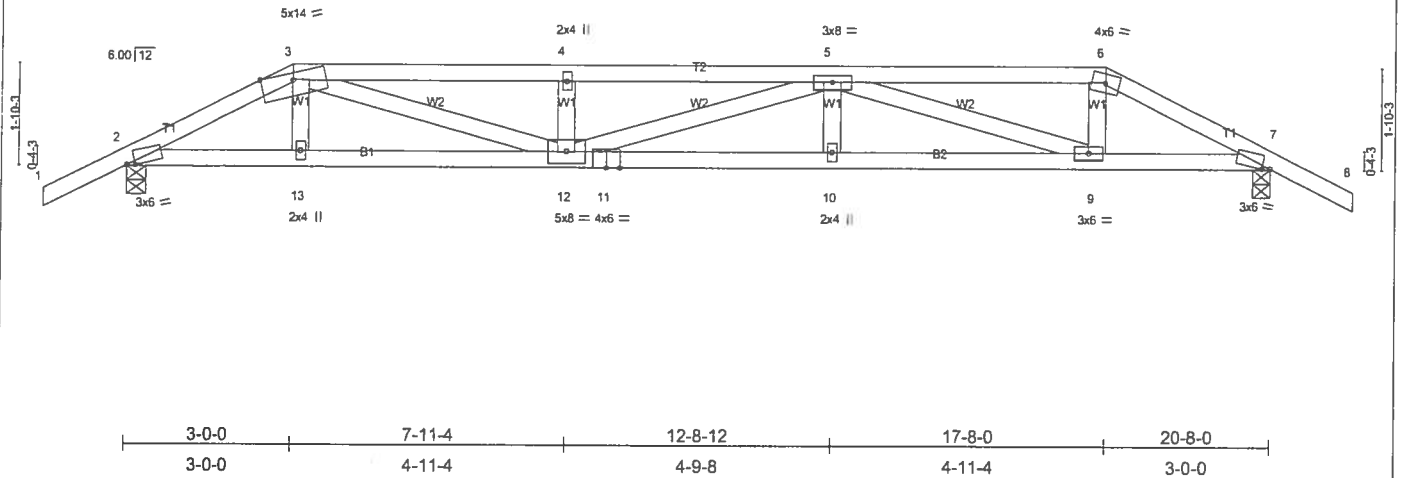
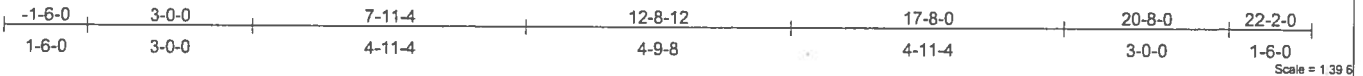


Plate Offsets (X,Y): [2:0-1-13.0-0-7], [7:0-1-13.0-0-7]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	-0.25	10-12	>980	240	MT20
TCDL 7.0	Plates Increase 1.25	BC 0.70	Vert(TL)	-0.40	10-12	>611	180	244/190
BCCL 10.0	Lumber Increase 1.25	WB 0.69	Horz(TL)	0.08	7	n/a	n/a	
BCDL 5.0	Rep Stress Incr NO	(Matrix)						
	Code FBC2004/TPI2002							Weight: 96 lb

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 5-10-0 oc bracing.

**REACTIONS** (lb/size) 2=1109/0-4-0, 7=1109/0-4-0  
 Max Horz 2=50(load case 5)  
 Max Uplift 2=398(load case 4), 7=398(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/35, 2-3=1942/714, 3-4=3182/1232, 4-5=3182/1232, 5-6=1741/667, 6-7=1939/712, 7-8=0/35  
 BOT CHORD 2-13=608/1681, 12-13=608/1699, 11-12=1178/3184, 10-11=1178/3184, 9-10=1178/3184, 7-9=591/1678  
 WEBS 3-13=4/200, 3-12=646/1573, 4-12=301/225, 5-12=19/16, 5-10=0/166, 5-9=1538/635, 6-9=188/675

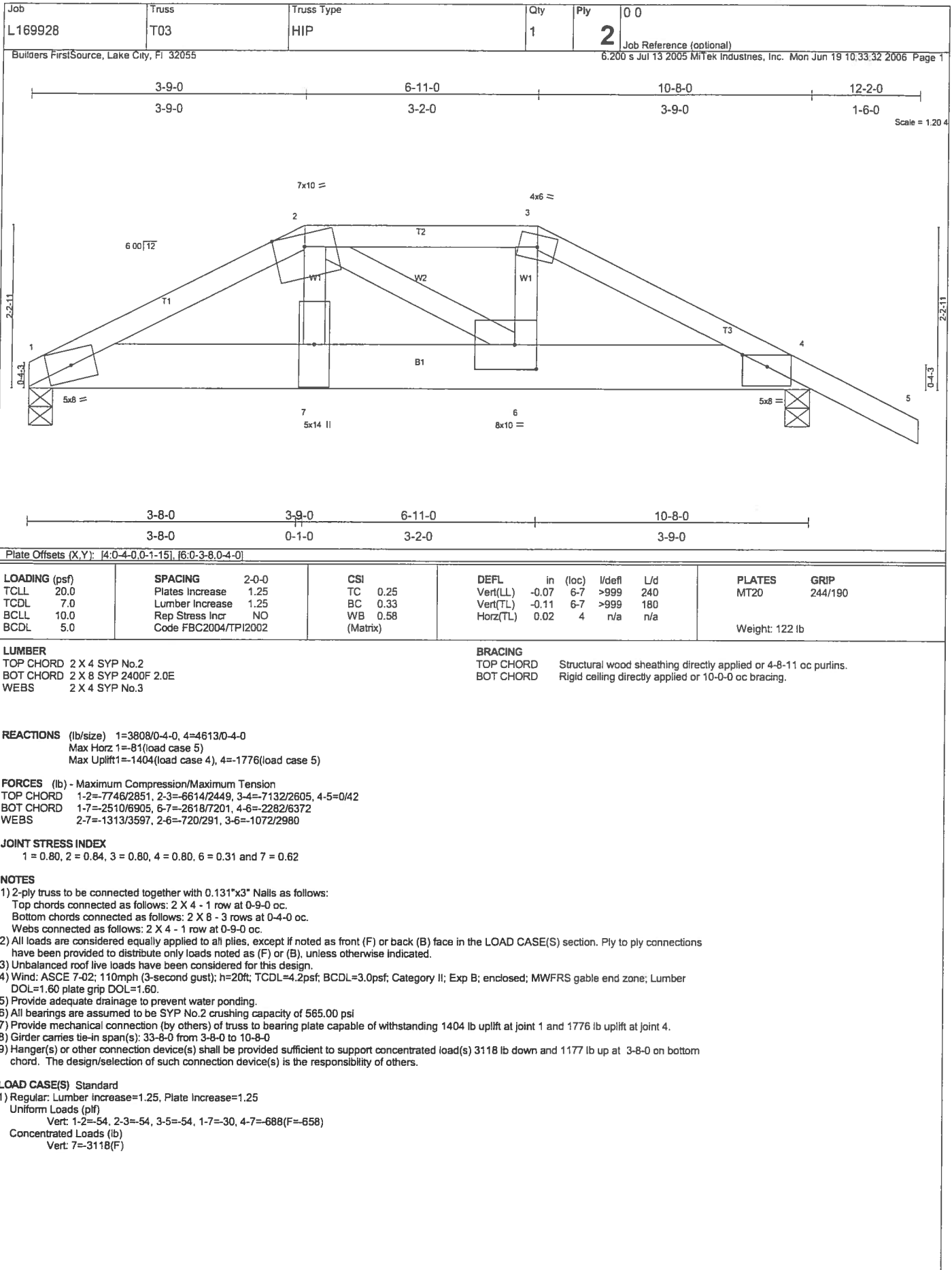
**JOINT STRESS INDEX**  
 2 = 0.81, 3 = 0.49, 4 = 0.34, 5 = 0.70, 6 = 0.50, 7 = 0.81, 9 = 0.44, 10 = 0.34, 11 = 0.93, 12 = 0.74 and 13 = 0.34

**NOTES**

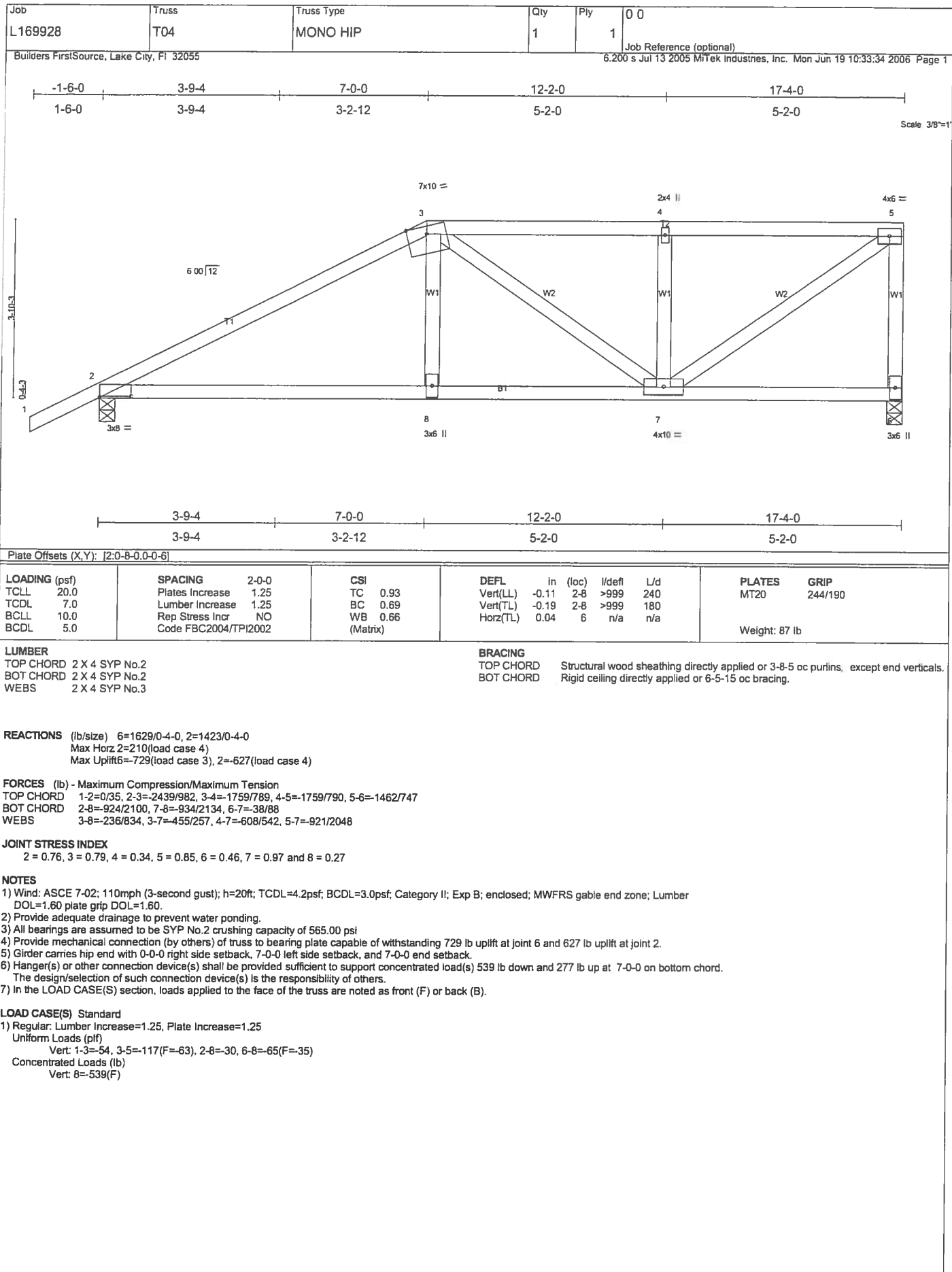
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 398 lb uplift at joint 2 and 398 lb uplift at joint 7.
- Girder carries hip end with 3-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 32 lb up at 17-8-0, and 63 lb down and 32 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-54, 3-6=63(F=-9), 6-8=-54, 2-13=-30, 9-13=-35(F=-5), 7-9=-30  
 Concentrated Loads (lb)  
 Vert: 13=63(F) 9=63(F)







Job	Truss	Truss Type	Qty	Ply	0 0
L169928	T05	MONO HIP	1	1	

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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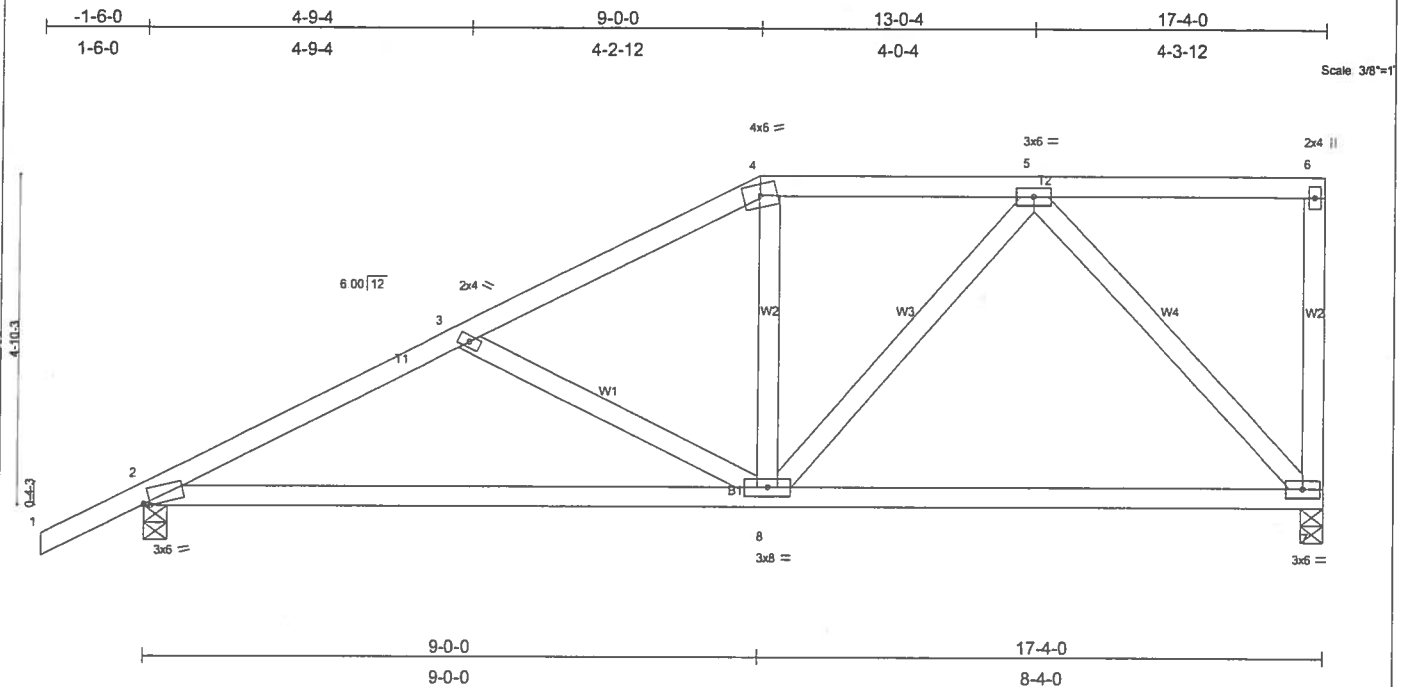


Plate Offsets (X,Y): [2-0-1-1, 0-0-7]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	Ver(LL)	-0.13	2-8	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.45	Ver(TL)	-0.23	2-8	>905	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.45	Horz(TL)	0.02	7	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 93 lb	

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 8-7-1 oc bracing.

**REACTIONS** (lb/size) 7=710/0-4-0, 2=809/0-4-0  
 Max Horz 2=256(load case 5)  
 Max Uplift 7=245(load case 4), 2=313(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/35, 2-3=-1122/431, 3-4=-855/305, 4-5=-718/320, 5-6=-36/4, 6-7=-110/74  
 BOT CHORD 2-8=-540/967, 7-8=-238/487  
 WEBS 3-8=-286/246, 4-8=0/140, 5-8=-126/356, 5-7=-669/348

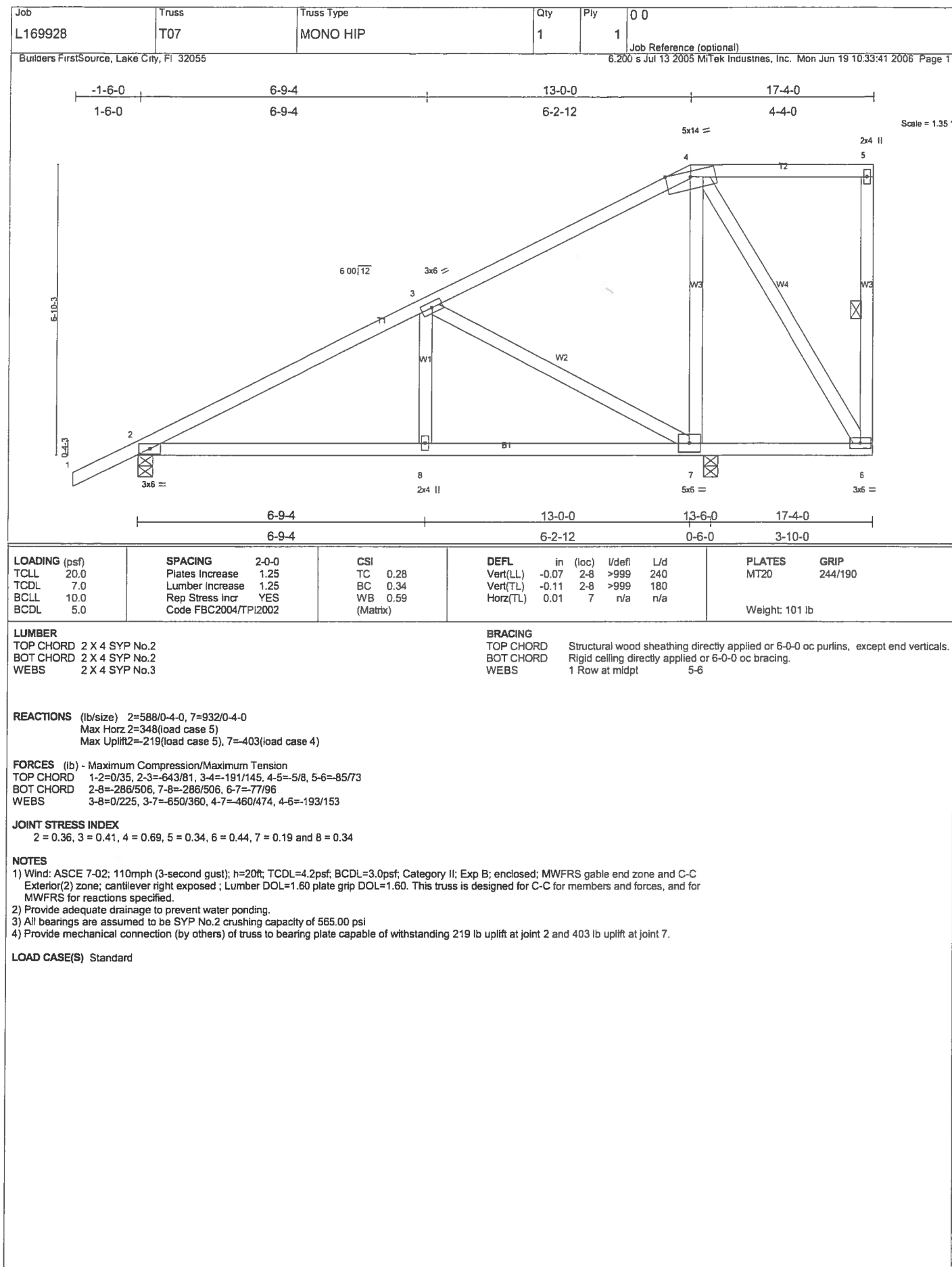
**JOINT STRESS INDEX**  
 2 = 0.80, 3 = 0.34, 4 = 0.39, 5 = 0.39, 6 = 0.66, 7 = 0.48 and 8 = 0.57

**NOTES**

- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 7 and 313 lb uplift at joint 2.

LOAD CASE(S) Standard





Job L169928	Truss T08	Truss Type MONO HIP	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 19 10:33:44 2006 Page 1		

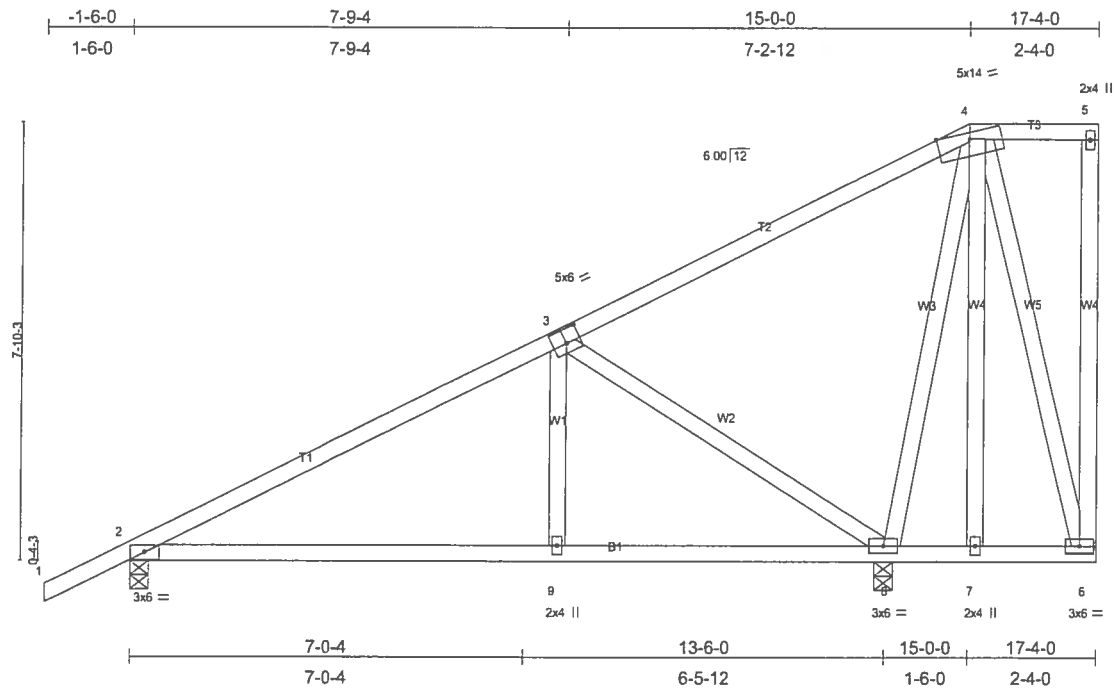


Plate Offsets (X,Y): [3:0-3:0,0-3:0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.11	2-9	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.39	Vert(TL)	-0.19	2-9	>869	180		
BCCL 10.0	Lumber Increase 1.25	WB 0.62	Horz(TL)	0.01	8	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002							Weight: 116 lb	

**LUMBER**

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

**BRACING**

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

**REACTIONS** (lb/size) 2=621/0-4-0, 8=899/0-4-0

Max Horz 2=394(load case 5)

Max Uplift 2=207(load case 5), 8=396(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-663/39, 3-4=-214/162, 4-5=-3/1, 5-6=-55/26

BOT CHORD 2-9=-284/517, 8-9=-285/512, 7-8=-15/6, 6-7=-15/6

WEBS 3-9=0/244, 3-8=-700/416, 4-8=-380/476, 4-7=-95/10, 4-6=-21/63

**JOINT STRESS INDEX**

2 = 0.53, 3 = 0.74, 4 = 0.46, 5 = 0.34, 6 = 0.52, 7 = 0.34, 8 = 0.37 and 9 = 0.34

**NOTES**

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) Provide adequate drainage to prevent water ponding.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

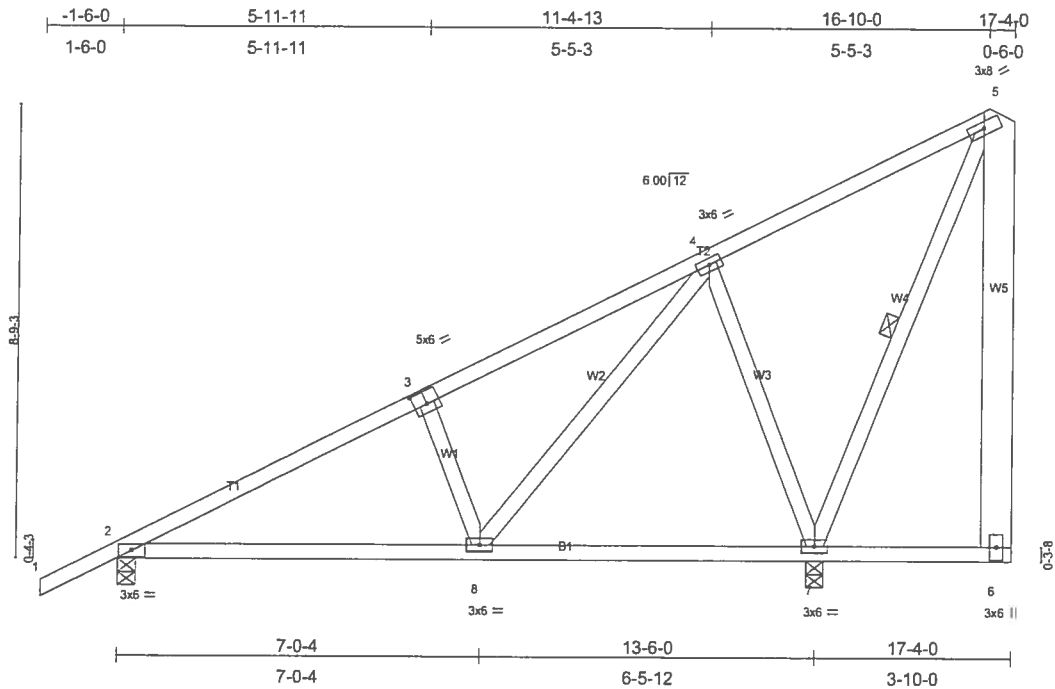
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 2 and 396 lb uplift at joint 8.

**LOAD CASE(S)** Standard



Job L169928	Truss T10	Truss Type COMMON	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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Scale = 1/4\"/&gt;

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

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.21	Vert(LL) -0.07	2-8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.28	Vert(TL) -0.11	2-8	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.36	Horz(TL) 0.01	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						
Weight: 119 lb								

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 W5 2 X 8 SYP No.1D

**BRACING**

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

**REACTIONS**

(lb/size) 2=616/0-4-0, 7=890/0-4-0  
 Max Horz 2=440(load case 5)  
 Max Uplift 2=171(load case 5), 7=458(load case 5)

**FORCES (lb) - Maximum Compression/Maximum Tension**

TOP CHORD 1-2=0/35, 2-3=-718/0, 3-4=-608/41, 4-5=-209/151, 5-6=-110/35  
 BOT CHORD 2-8=-308/581, 7-8=-72/110, 6-7=-23/17  
 WEBS 3-8=-281/280, 4-8=-271/614, 4-7=-541/399, 5-7=-241/342

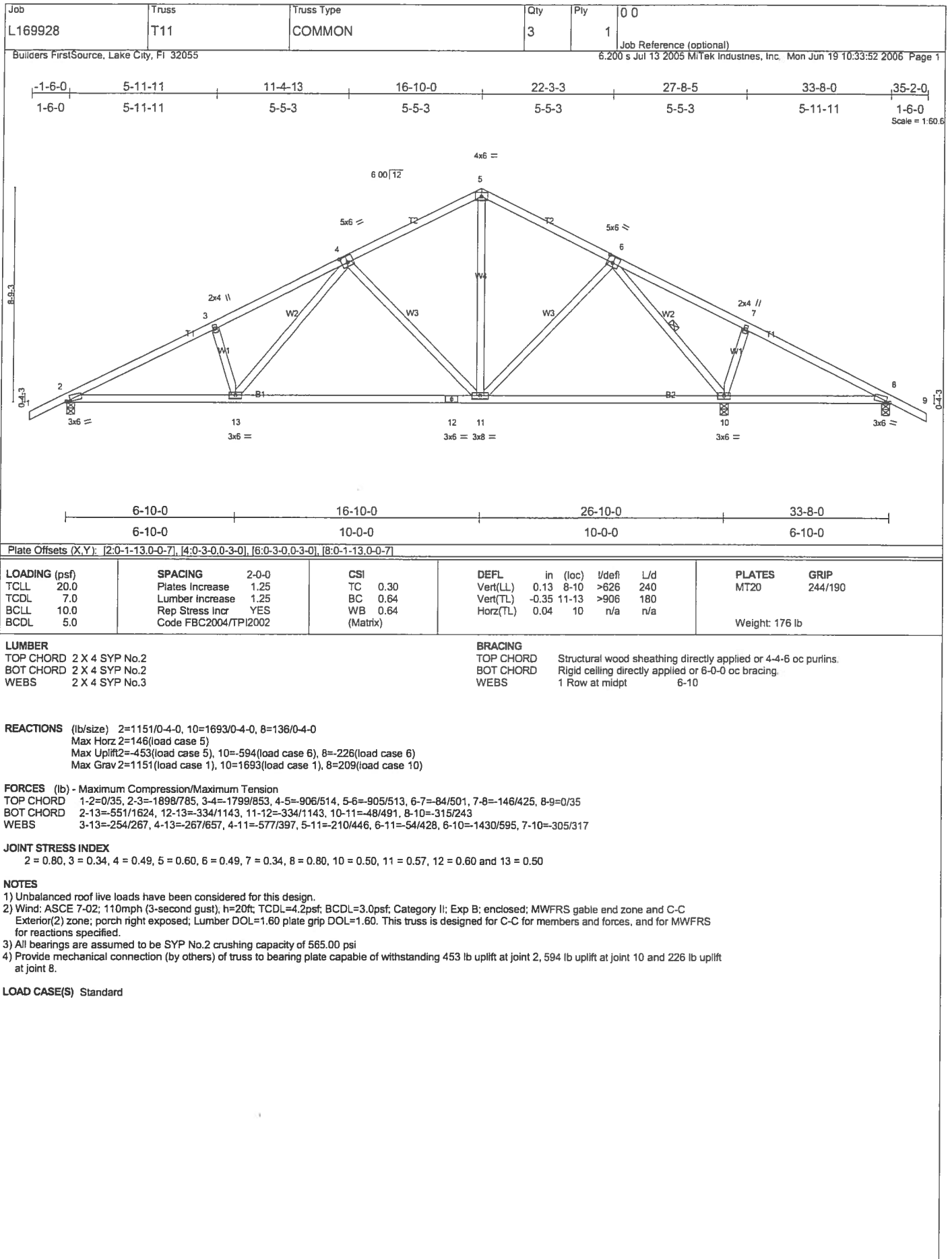
**JOINT STRESS INDEX**

2 = 0.35, 3 = 0.38, 4 = 0.46, 5 = 0.78, 6 = 0.16, 7 = 0.49 and 8 = 0.49

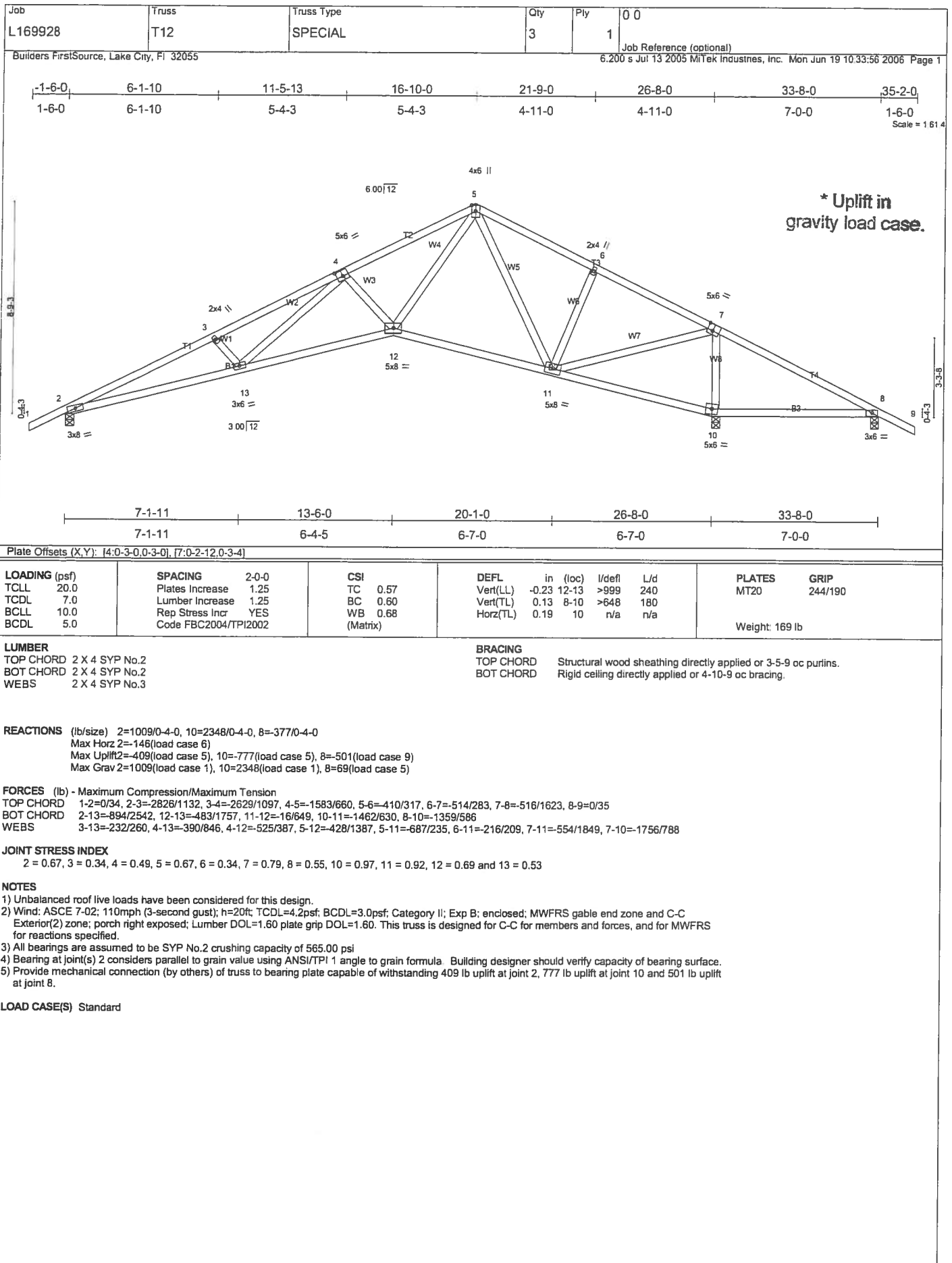
**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2 and 458 lb uplift at joint 7.

LOAD CASE(S) Standard







Job L169928	Truss T13	Truss Type MONO HIP	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Jun 19 10:33:58 2006 Page 1		

3-9-4	7-0-0	12-5-1	17-8-6	22-11-10	28-2-15	33-8-0
3-9-4	3-2-12	5-5-1	5-3-5	5-3-5	5-3-5	5-5-1

Scale = 1/58

3-9-4	7-0-0	12-5-1	17-8-6	22-11-10	28-2-15	33-8-0
3-9-4	3-2-12	5-5-1	5-3-5	5-3-5	5-3-5	5-5-1

Plate Offsets (X,Y): [1:0-0-0,0-0-4], [1:0-10-11,0-0-3], [3:0-6-3,Edge], [6:0-3-0,0-3-0], [12:0-7-0,0-4-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.92	Vert(LL) -0.56 12-13 >722 240	MT20H	187/143
BCLL 10.0	Lumber Increase 1.25	WB 0.96	Vert(TL) -0.89 12-13 >451 180	MT18H	244/190
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.17 9 n/a n/a		
	Code FBC2004/TPI2002				Weight: 210 lb

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-0 oc purlins, except end verticals.
BOT CHORD 2 X 6 SYP No.1D	BOT CHORD Rigid ceiling directly applied or 4-11-13 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 2 Rows at 1/3 pts 7-9
WEDGE	
Left: 2 X 4 SYP No.3	

**REACTIONS** (lb/size) 1=3118/Mechanical, 9=3118/Mechanical  
 Max Horz 1=160(load case 4)  
 Max Uplift 1=1061(load case 3), 9=-1169(load case 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-6117/2114, 2-3=-5664/2039, 3-4=-7053/2616, 4-5=-7052/2616, 5-6=-6549/2448, 6-7=-6551/2450, 7-8=-93/41, 8-9=-149/97  
 BOT CHORD 1-15=-1957/5442, 14-15=-1957/5442, 13-14=-1861/5094, 12-13=-2832/7593, 11-12=-2830/7587, 10-11=-1535/4099, 9-10=-1535/4099  
 WEBS 2-15=-64/249, 2-14=-444/240, 3-14=-319/987, 3-13=-923/2324, 4-13=-263/198, 5-13=-647/281, 5-12=-190/742, 5-11=-1243/457, 6-11=-275/194, 7-11=-1095/2936, 7-10=-183/740, 7-9=-4795/1788

**JOINT STRESS INDEX**  
 1 = 0.81, 1 = 0.85, 2 = 0.41, 3 = 0.82, 4 = 0.34, 5 = 0.59, 6 = 0.79, 7 = 0.81, 8 = 0.42, 9 = 0.82, 10 = 0.54, 11 = 0.83, 12 = 0.89, 13 = 0.96, 14 = 0.64 and 15 = 0.34

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1061 lb uplift at joint 1 and 1169 lb uplift at joint 9.
- 7) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 33-8-0
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)  
 Vert: 1-3=-54, 3-8=-54, 1-9=-132(F=-102)

Job <b>L169928</b>	Truss <b>T14</b>	Truss Type <b>HIP</b>	Qty <b>1</b>	Ply <b>1</b>	<b>0 0</b>
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Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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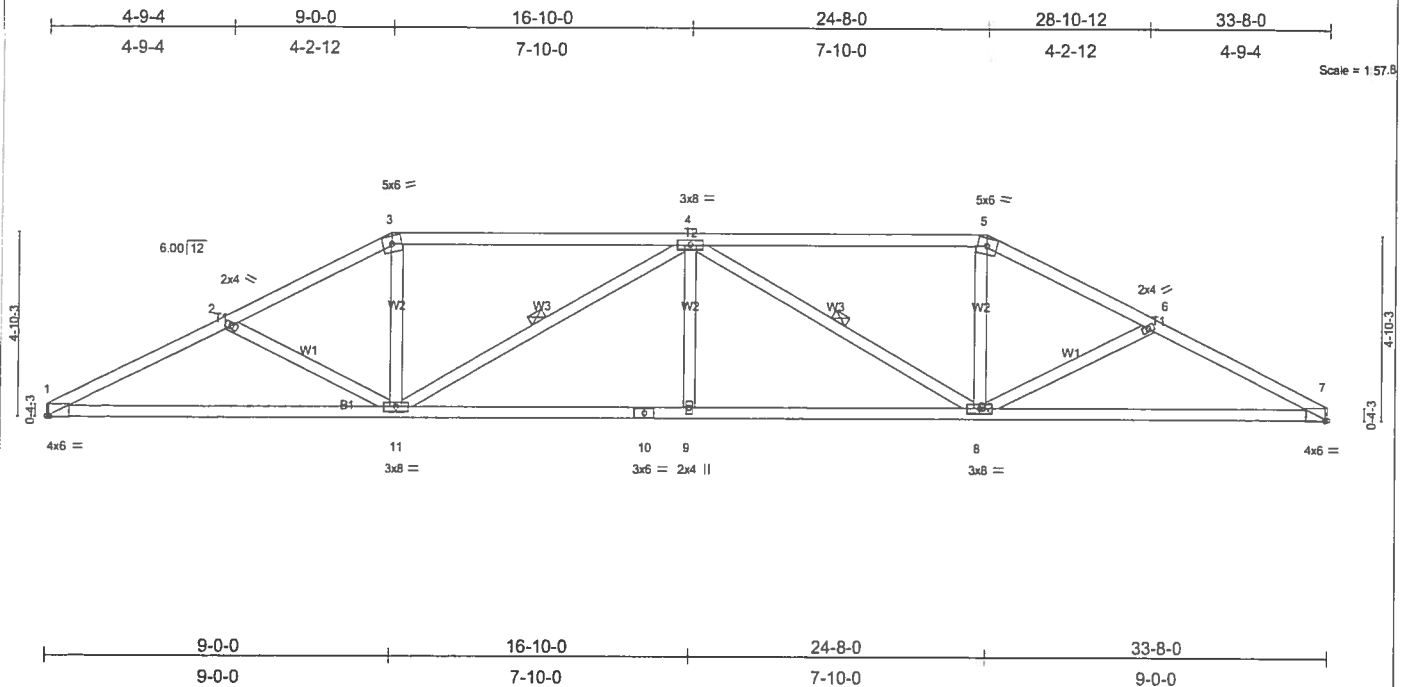


Plate Offsets (X,Y): [1:0-0-12,0-0-2], [7:0-0-12,0-0-2]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.43	Vert(LL) -0.25	1-11	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.73	Vert(TL) -0.42	1-11	>965	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.28	Horz(TL) 0.14	7	n/a	n/a			
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							

Weight: 162 lb

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

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-5-0 oc bracing.  
 WEBS 1 Row at midpt 4-11, 4-8

**REACTIONS** (lb/size) 1=1409/Mechanical, 7=1409/Mechanical  
 Max Horz 1=66(load case 3)  
 Max Uplift 1=401(load case 5), 7=401(load case 6)

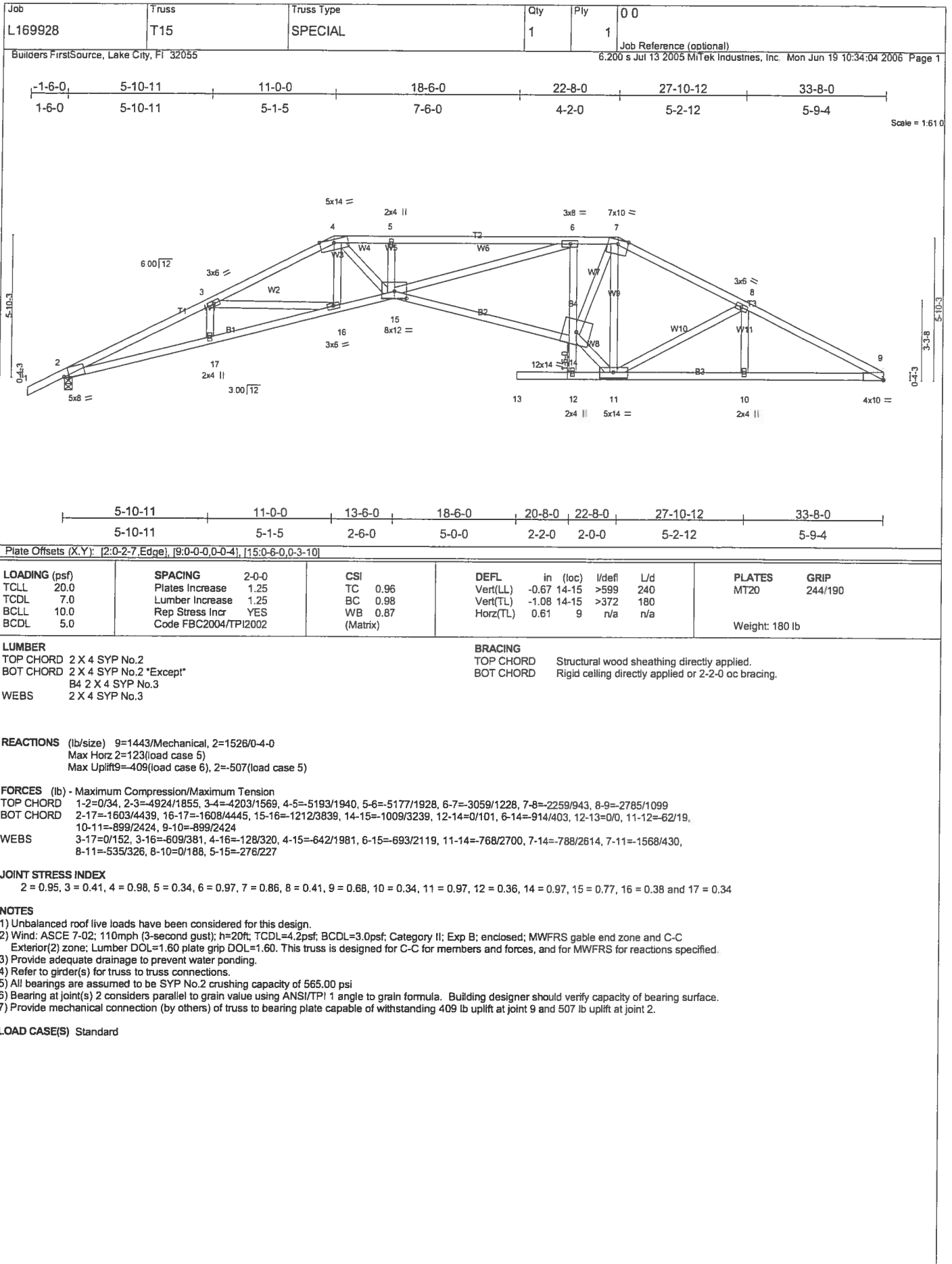
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-2645/1139, 2-3=-2403/1017, 3-4=-2135/972, 4-5=-2135/972, 5-6=-2403/1017, 6-7=-2645/1139  
 BOT CHORD 1-11=-944/2325, 10-11=-969/2681, 9-10=-969/2681, 8-9=-969/2681, 7-8=-944/2325  
 WEBS 2-11=-244/236, 3-11=-198/713, 4-11=-739/313, 4-9=0/204, 4-8=-739/312, 5-8=-198/713, 6-8=-244/236

**JOINT STRESS INDEX**  
 1 = 0.82, 2 = 0.34, 3 = 0.67, 4 = 0.57, 5 = 0.67, 6 = 0.34, 7 = 0.82, 8 = 0.57, 9 = 0.34, 10 = 0.88 and 11 = 0.57

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Refer to girder(s) for truss to truss connections.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 1 and 401 lb uplift at joint 7.

**LOAD CASE(S)** Standard



Job L169928	Truss T16	Truss Type SPECIAL	Qty 1	Ply 1	0 0
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Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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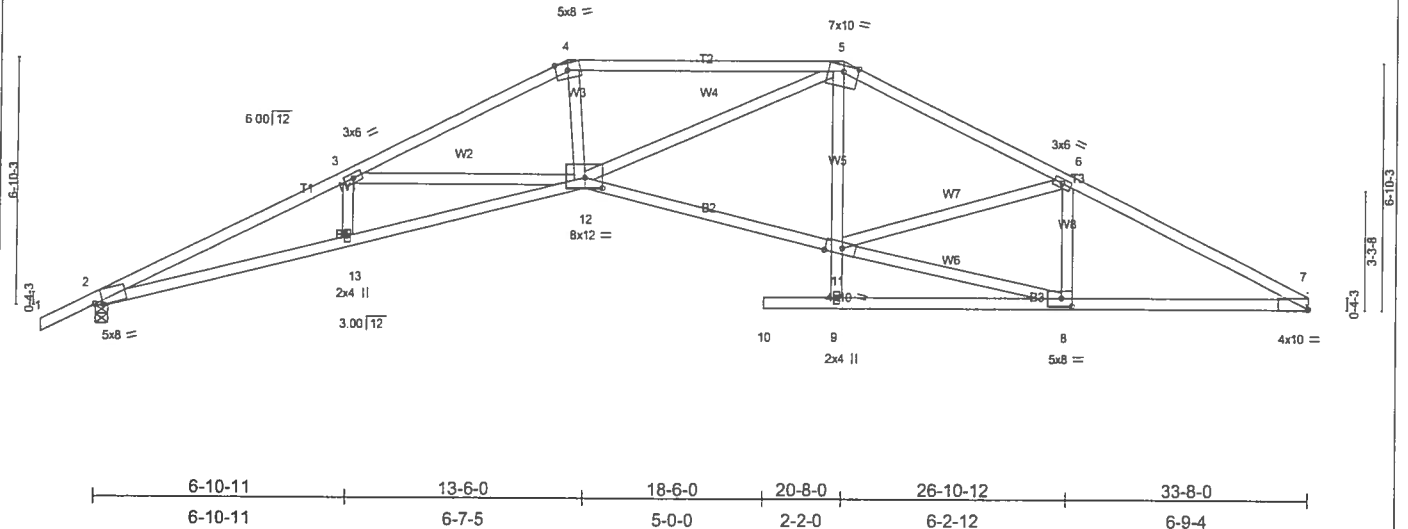
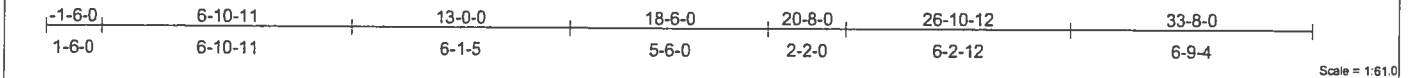


Plate Offsets (X,Y): [2:0-2-7,Edge], [7:0-0-0,0-0-4], [8:0-3-8,0-2-8], [11:0-5-8,Edge], [12:0-6-0,0-3-10]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	In (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.78	Vert(LL) -0.49 11-12 >811 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.77	Vert(TL) -0.80 11-12 >500 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.45 7 n/a n/a		
	Code FBC2004/TPI2002			Weight: 172 lb	

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 B1 2 X 4 SYP No.1D  
 WEBS 2 X 4 SYP No.3

**BRACING**

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

**REACTIONS**

(lb/size) 7=1437/Mechanical, 2=1522/0-4-0  
 Max Horz 2=137/load case 5)  
 Max Uplift 7=425(load case 6), 2=523(load case 5)

**FORCES (lb) - Maximum Compression/Maximum Tension**

TOP CHORD 1-2=0/34, 2-3=4881/1872, 3-4=3901/1453, 4-5=3632/1424, 5-6=2728/1102, 6-7=2722/1092  
 BOT CHORD 2-13=1611/4408, 12-13=-1611/4409, 11-12=747/2487, 9-10=0/0, 8-9=-10/28, 7-8=-879/2359  
 WEBS 3-13=0/198, 3-12=-839/524, 4-12=-371/1347, 5-12=-403/1383, 9-11=0/147, 5-11=-66/274, 6-11=-100/214, 6-8=-354/241, 8-11=-896/2405

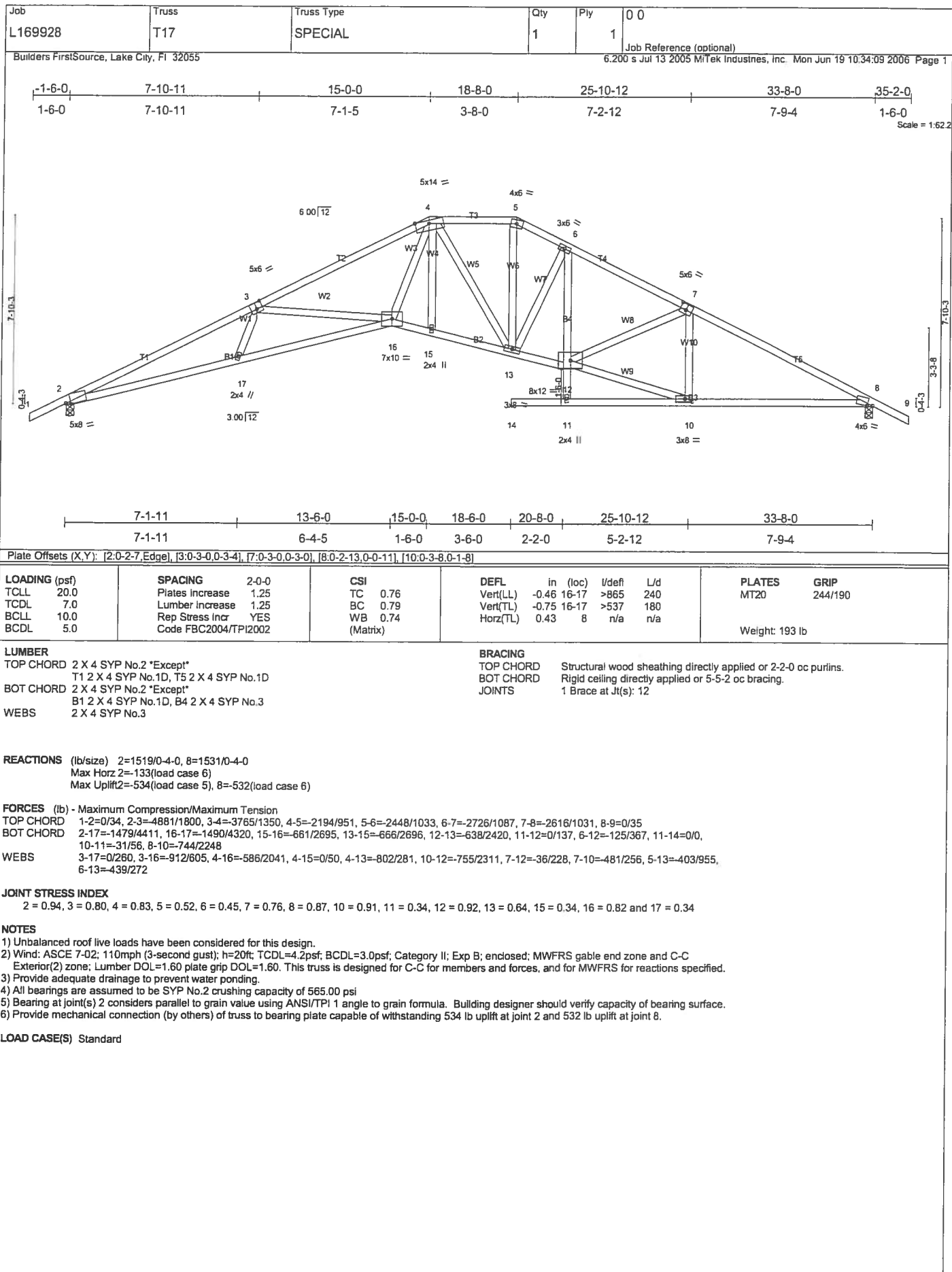
**JOINT STRESS INDEX**

2 = 0.94, 3 = 0.41, 4 = 0.73, 5 = 0.75, 6 = 0.41, 7 = 0.66, 8 = 0.55, 9 = 0.34, 11 = 0.98, 12 = 0.81 and 13 = 0.34

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Refer to girder(s) for truss to truss connections.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 425 lb uplift at joint 7 and 523 lb uplift at joint 2.

LOAD CASE(S) Standard



Job L169928	Truss T18	Truss Type SPECIAL	Qty 4	Ply 1	0 0
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Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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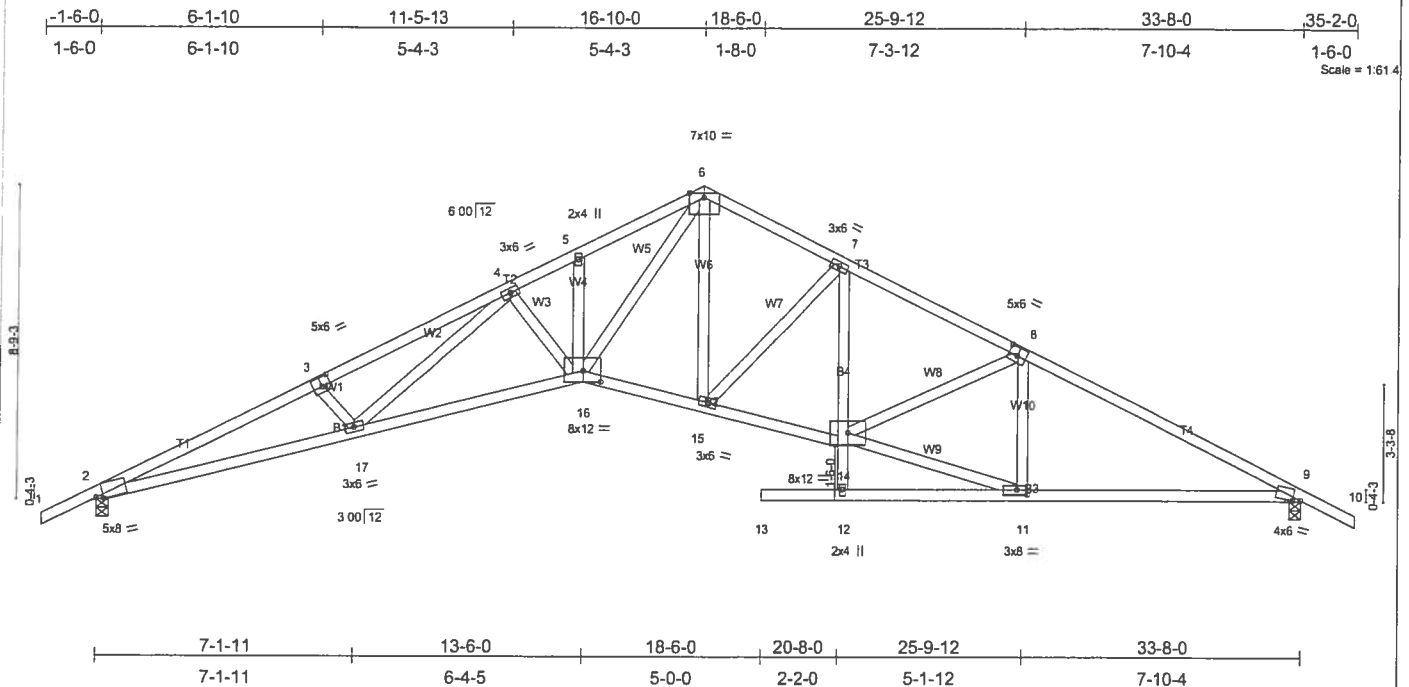


Plate Offsets (X,Y): [2:0-2-7,Edge], [3:0-3-0,0-3-0], [8:0-3-0,0-3-0], [9:0-2-13,0-0-11], [11:0-3-8,0-1-8], [16:0-6-0,0-3-10]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.93	Vert(LL) -0.51 16-17 >787 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.75	Vert(TL) -0.82 16-17 >489 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.45 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 190 lb	

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 "Except"  
 B4 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-4-11 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 14

**REACTIONS** (lb/size) 2=1519/0-4-0, 9=1531/0-4-0  
 Max Horz 2=-146(load case 6)  
 Max Uplift 2=-545(load case 5), 9=-542(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/34, 2-3=4870/1872, 3-4=4696/1860, 4-5=-3739/1434, 5-6=-3696/1475, 6-7=-2323/985, 7-8=-2735/1108, 8-9=-2615/1047, 9-10=0/35  
 BOT CHORD 2-17=-1558/4401, 16-17=-1134/3723, 15-16=-454/2116, 14-15=-666/2453, 12-14=0/132, 7-14=-109/374, 12-13=0/0, 11-12=-32/31,  
 9-11=-758/2247  
 WEBS 3-17=-194/244, 4-17=-376/799, 4-16=-470/336, 6-15=-228/523, 7-15=-539/293, 11-14=-763/2330, 8-14=-4/215, 8-11=-493/262, 5-16=-54/70,  
 6-16=-810/2306

**JOINT STRESS INDEX**

2 = 0.94, 3 = 0.62, 4 = 0.52, 5 = 0.34, 6 = 0.81, 7 = 0.41, 8 = 0.76, 9 = 0.87, 11 = 0.92, 12 = 0.34, 14 = 0.77, 15 = 0.41, 16 = 0.69 and 17 = 0.50

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 545 lb uplift at joint 2 and 542 lb uplift at joint 9.

LOAD CASE(S) Standard

Job L169928	Truss T19	Truss Type COMMON	Qty 9	Ply 1	0 0
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Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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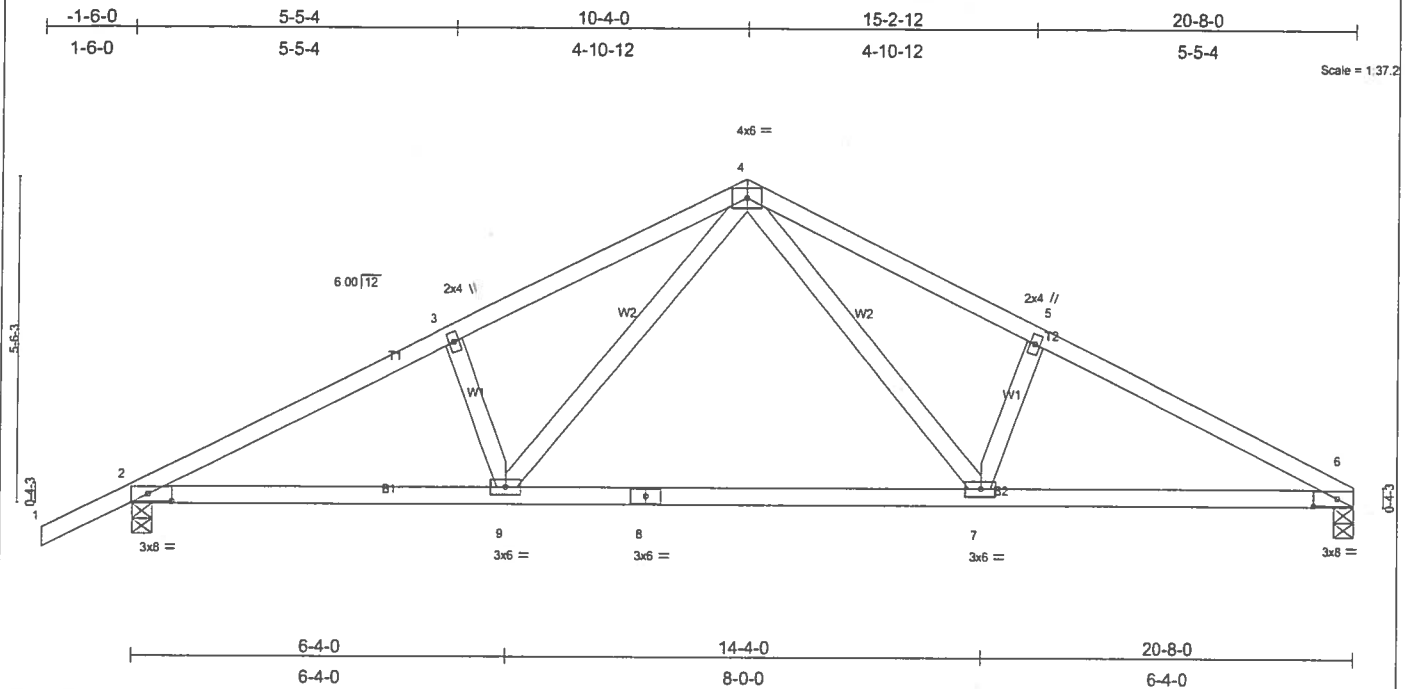


Plate Offsets (X,Y): [2:0-4-12,0-1-8], [6:0-4-12,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 1.00	Vert(LL) -0.31 7-9 >775 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.29	Vert(TL) -0.51 7-9 >475 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.05 6 n/a n/a		
	Code FBC2004/TP12002			Weight: 95 lb	

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 7-6-1 oc bracing.

**REACTIONS**

(lb/size) 6=1050/0-4-0, 2=1148/0-4-0  
 Max Horz 2=119(load case 5)  
 Max Uplift 6=352(load case 6), 2=451(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=1961/821, 3-4=1858/871, 4-5=1876/899, 5-6=1977/847  
 BOT CHORD 2-9=644/1677, 8-9=363/1104, 7-8=363/1104, 6-7=673/1696  
 WEBS 3-9=218/227, 4-9=340/853, 4-7=379/877, 5-7=228/242

**JOINT STRESS INDEX**

2 = 0.73, 3 = 0.34, 4 = 0.69, 5 = 0.34, 6 = 0.71, 7 = 0.61, 8 = 0.81 and 9 = 0.61

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 6 and 451 lb uplift at joint 2.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

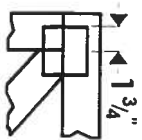
**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=54, 4-6=54, 2-9=30, 7-9=80(F=50), 6-7=30

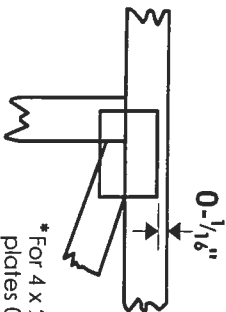


# Symbols

## 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 securely seal.



\* 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

4 X 4

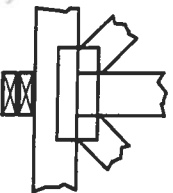
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



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

## BEARING

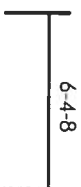


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

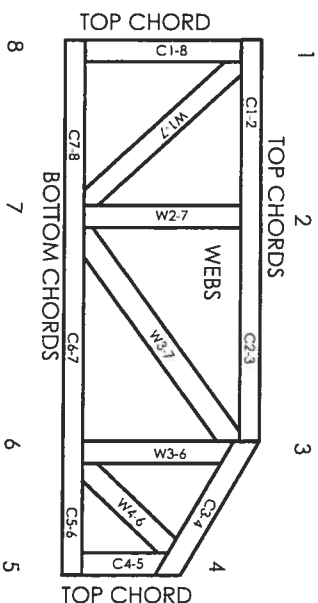
## Industry Standards:

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



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.

## CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A



## 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. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/FP11.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/FP11.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.



Mitek Engineering Reference Sheet: MII-7473

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