

Job 298682	Truss EJ3	Truss Type MONO TRUSS	Qty 4	Ply 1	SPARKS / THOMAS RES. / ROOF 298682001 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:47 2009 Page 1		

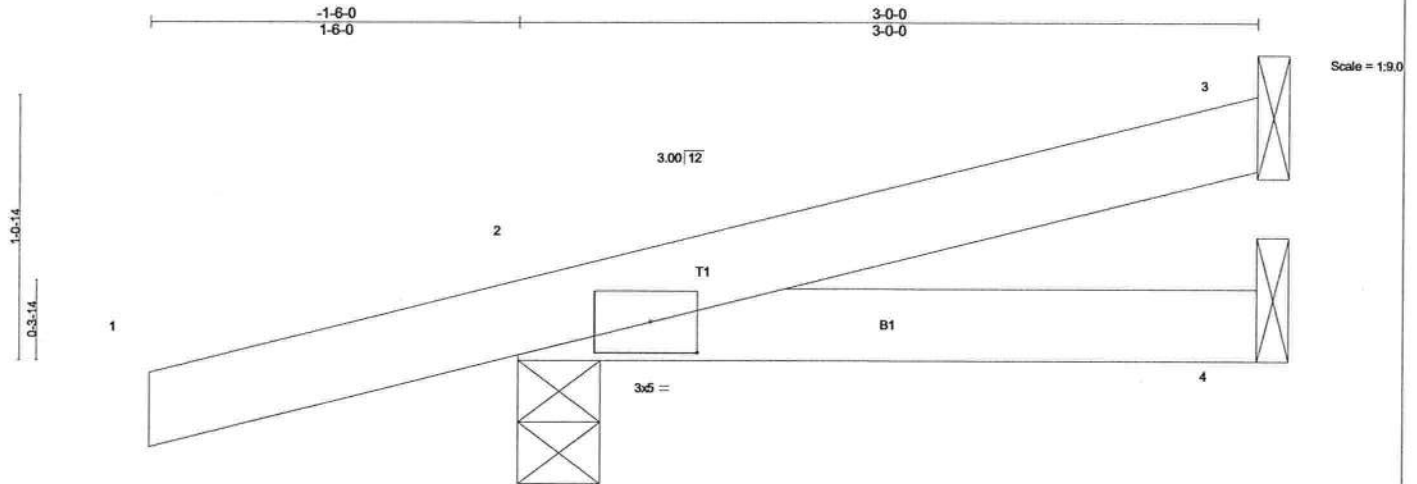


Plate Offsets (X,Y): [2-0-2-5,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.15	Vert(LL) 0.01	2-4	>999	360		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.08	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/TPI2002	(Matrix)							
									Weight: 11 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.

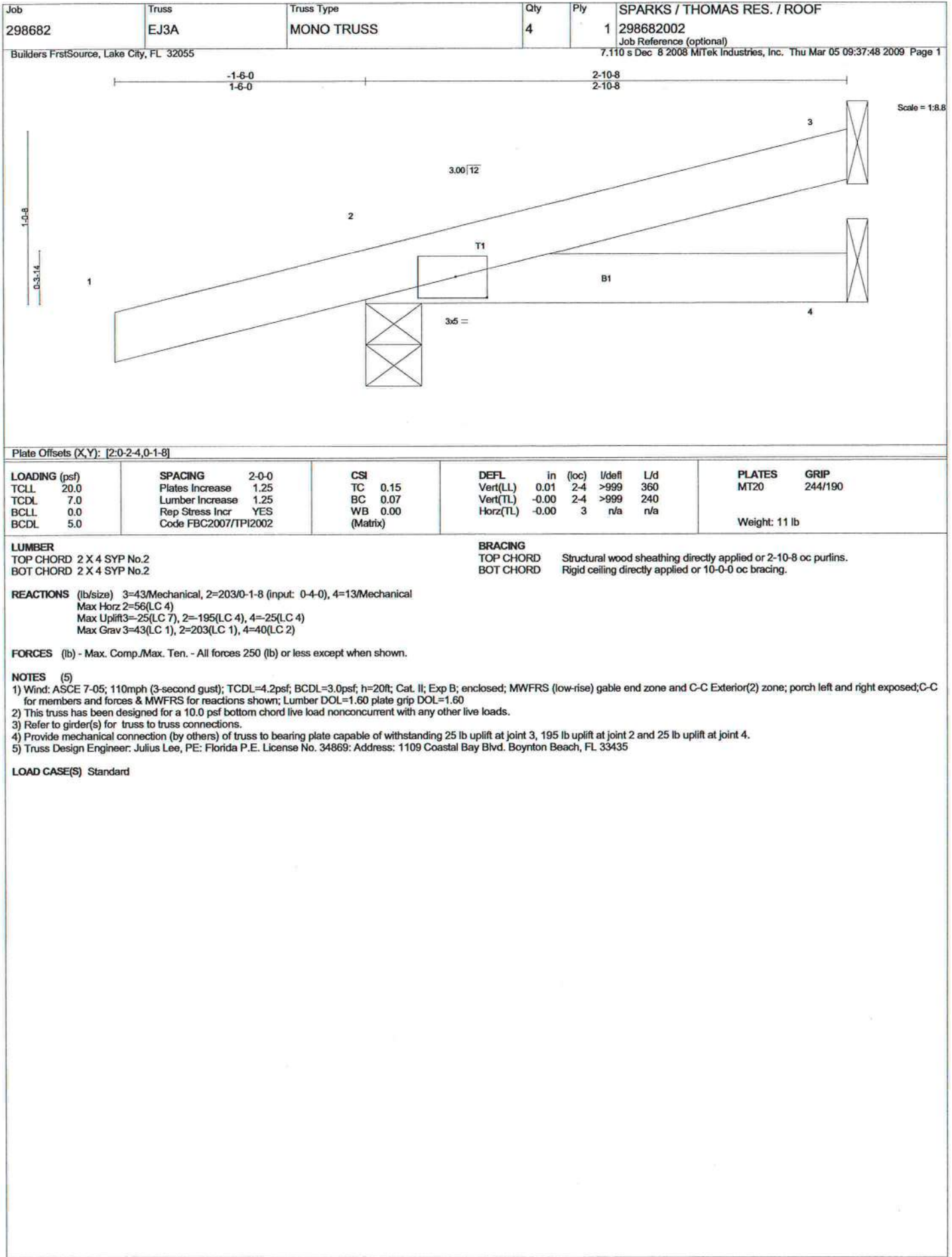
REACTIONS (lb/size) 3=48/Mechanical, 2=206/0-1-8 (input: 0-4-0), 4=14/Mechanical
Max Horz 2=58(LC 4)
Max Uplift 3=28(LC 4), 2=197(LC 4), 4=26(LC 4)
Max Grav 3=48(LC 1), 2=206(LC 1), 4=42(LC 2)

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

NOTES (5)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3, 197 lb uplift at joint 2 and 26 lb uplift at joint 4.
- 5) 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



Job 298682	Truss EJ3B	Truss Type MONO TRUSS	Qty 5	Ply 1	SPARKS / THOMAS RES. / ROOF 298682003 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:49 2009 Page 1		

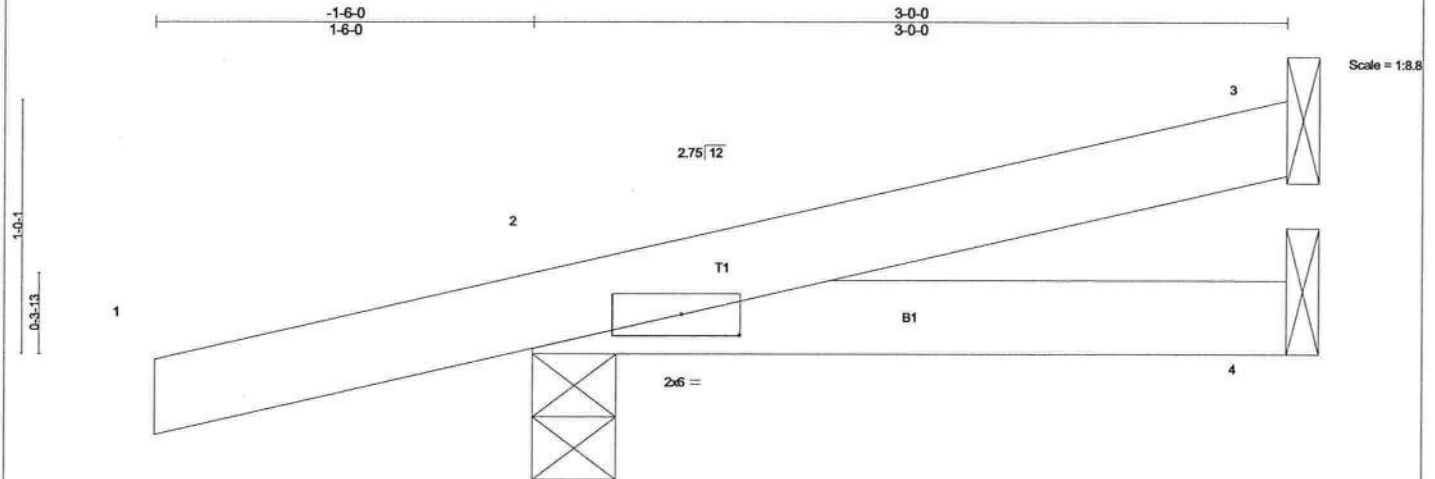


Plate Offsets (X,Y): [2:0-2-12,0-1-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.15	Vert(LL)	0.01	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.08	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/TPI2002		(Matrix)							
Weight: 11 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=206/0-1-8 (input: 0-4-0), 4=14/Mechanical
Max Horz 2=53(LC 4)
Max Uplift 3=27(LC 4), 2=198(LC 4), 4=26(LC 4)
Max Grav 3=48(LC 1), 2=206(LC 1), 4=42(LC 2)

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

NOTES (5)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 198 lb uplift at joint 2 and 26 lb uplift at joint 4.
- 5) 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

Job 298682	Truss HJ4	Truss Type JACK	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682004 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:50 2009 Page 1		

Plate Offsets (X,Y): [2-0-1-12,0-1-8]										
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plates Increase	1.25	TC 0.32	Vert(LL)	0.02	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.10	Vert(TL)	-0.02	2-4	>999	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2007/TP12002		(Matrix)							
						Weight: 16 lb				

LUMBER TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 REACTIONS (lb/size) 3=38/Mechanical, 2=217/0-1-8 (input: 0-6-7), 4=14/Mechanical Max Horz 2=42(LC 3) Max Uplift 3=14(LC 6), 2=246(LC 3), 4=41(LC 3) Max Grav 3=38(LC 1), 2=217(LC 1), 4=53(LC 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.
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FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES (6)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3, 246 lb uplift at joint 2 and 41 lb uplift at joint 4.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 6) 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

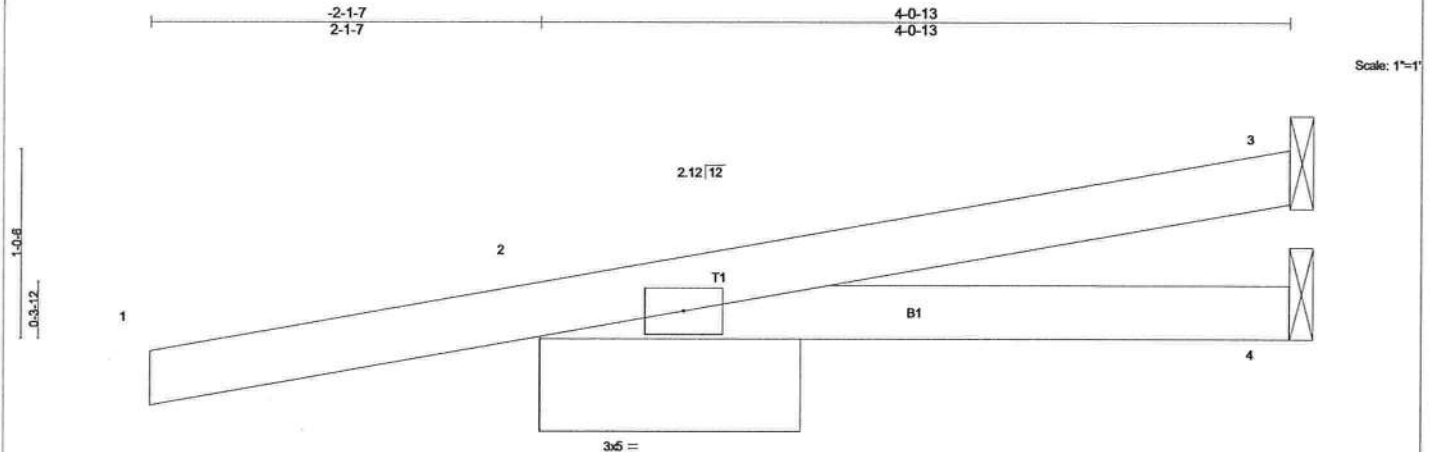
Uniform Loads (plf)

Vert: 1-2=54

Trapezoidal Loads (plf)

Vert: 2=4(F=25, B=25)-to-3=57(F=2, B=2), 2=0(F=5, B=5)-to-4=11(F=0, B=0)

Job 298682	Truss HJ4A	Truss Type JACK	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682005 Job Reference (optional)
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LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.11	Vert(LL) 0.02 2-4 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.00	Vert(TL) -0.02 2-4 >999 240		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
				Weight: 15 lb	

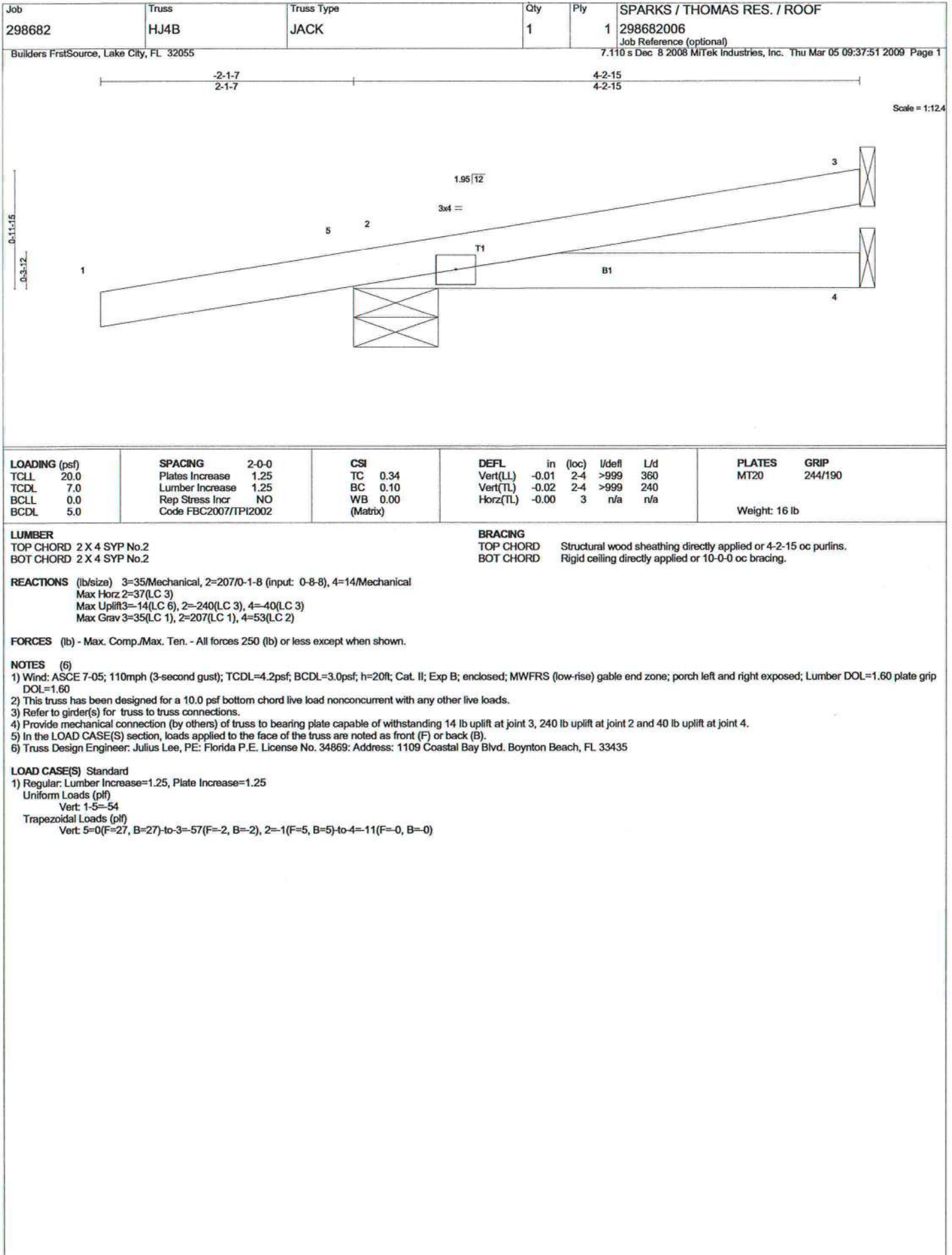
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=43/Mechanical, 2=188/0-1-8 (input: 1-4-15), 4=14/Mechanical
Max Horz 2=40(LC 3)
Max Uplift 3=20(LC 3), 2=220(LC 3), 4=42(LC 3)
Max Grav 3=43(LC 1), 2=188(LC 1), 4=54(LC 2)

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

NOTES (6)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 3, 220 lb uplift at joint 2 and 42 lb uplift at joint 4.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
6) 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: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=0(F=27, B=27)-to-3=-55(F=-0, B=-0), 2=0(F=5, B=5)-to-4=-10(F=-0, B=-0)



Job 298682	Truss PB1	Truss Type PIGGYBACK	Qty 15	Ply 1	SPARKS / THOMAS RES. / ROOF 298682007 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:52 2009 Page 1		

Scale: 3/4"=1'

Plate Offsets (X,Y): [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [6:0-0-0,0-0-0]									
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.06	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	-0.00	2	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.00	5	n/a		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)						
								Weight: 19 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 5-11-15 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS (lb/size) 1=40/0-2-7 (input: 0-3-8), 5=40/0-2-7 (input: 0-3-8), 6=287/0-1-8 (input: 0-3-8)
 Max Horz 1=53(LC 4)
 Max Uplift 1=8(LC 7), 5=22(LC 4), 6=60(LC 6)
 Max Grav 1=56(LC 10), 5=56(LC 11), 6=287(LC 1)

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

NOTES (7)
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 22 lb uplift at joint 5 and 60 lb uplift at joint 6.
 6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
 7) 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

Job 298682	Truss PB1G	Truss Type PIGGYBACK	Qty 2	Ply 1	SPARKS / THOMAS RES. / ROOF 298682008 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:53 2009 Page 1		

Scale = 1:12.1

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.04	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.04	Vert(TL)	-0.00	2	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(TL)	0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)						Weight: 15 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 4-11-5 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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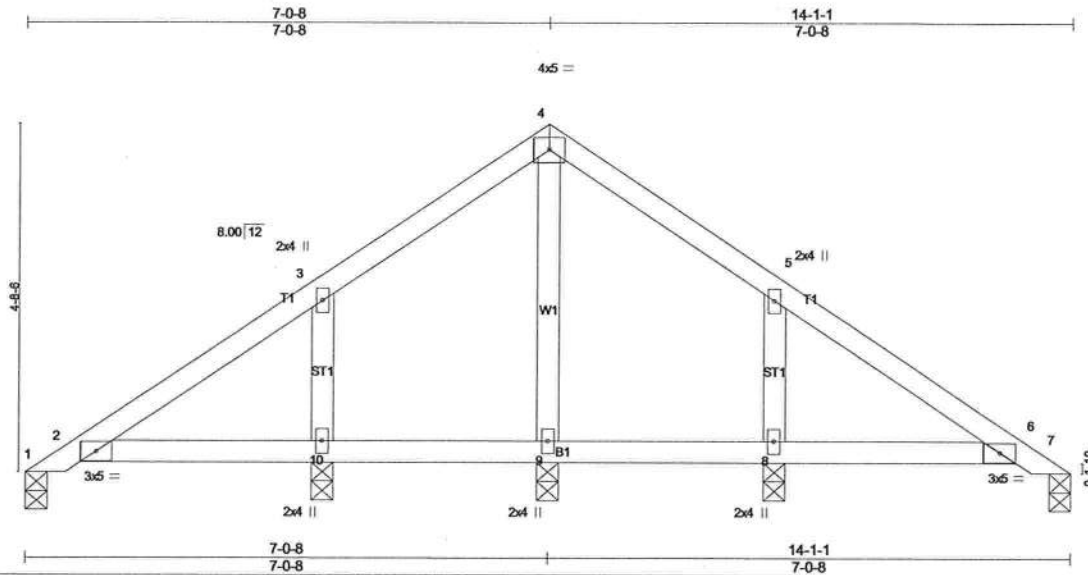
REACTIONS (lb/size) 1=38/0-2-6 (input: 0-3-8), 5=38/0-2-6 (input: 0-3-8), 6=225/0-1-8 (input: 0-3-8)
 Max Horz 1=54(LC 4)
 Max Uplift 1=17(LC 7), 5=26(LC 7), 6=91(LC 6)
 Max Grav 1=49(LC 10), 5=49(LC 11), 6=225(LC 1)

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

NOTES (7)
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 26 lb uplift at joint 5 and 91 lb uplift at joint 6.
 6) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
 7) 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

Job 298682	Truss PB2	Truss Type GABLE	Qty 17	Ply 1	SPARKS / THOMAS RES. / ROOF 298682009 Job Reference (optional)
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Scale = 1:29.8

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.10	Vert(LL)	-0.01	2-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.08	Vert(TL)	-0.01	2-10	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.08	Horz(TL)	0.00	7	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)							
									Weight: 56 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
OTHERS 2 X 4 SYP No.3

BRACING

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

REACTIONS

All bearings 0-3-8.
(lb) - Max Horz 1=128(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 8=120(LC 7), 10=125(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=262(LC 1), 8=261(LC 11), 10=261(LC 10)

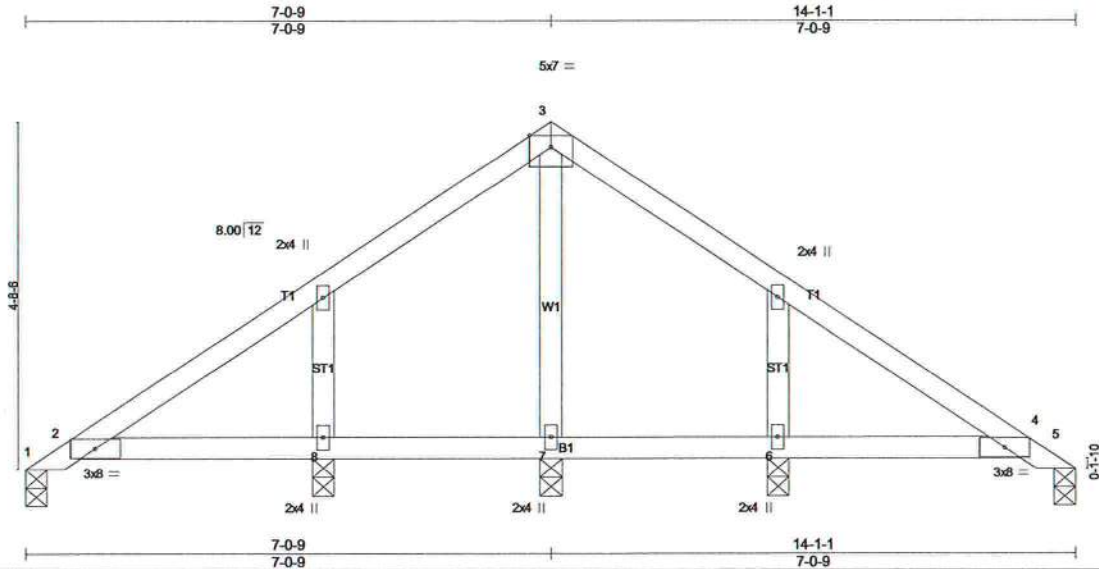
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9 except (it=lb) 8=120, 10=125.
- SEE MITek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
- 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

Job 298682	Truss PB2G	Truss Type GABLE	Qty 2	Ply 1	SPARKS / THOMAS RES. / ROOF 298682010 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:56 2009 Page 1		



LOADING (psf)
TCLL 20.0
TCDL 7.0
BCLL 0.0
BCDL 5.0

SPACING 2-0-0
Plates Increase 1.25
Lumber Increase 1.25
Rep Stress Incr YES
Code FBC2007/TPI2002

CSI
TC 0.33
BC 0.37
WB 0.21
(Matrix)

DEFL in (loc) l/defl L/d
Vert(LL) 0.03 2-8 >999 360
Vert(TL) -0.03 2-8 >999 240
Horz(TL) 0.01 5 n/a n/a

PLATES **GRIP**
MT20 244/190
Weight: 56 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
OTHERS 2 X 4 SYP No.3

BRACING

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

REACTIONS

All bearings 0-3-8.
(lb) - Max Horz 1=160(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 8 except 7=332(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 8 except 7=618(LC 1)

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

TOP CHORD 2-3=188/344, 3-4=184/344
WEBS 3-7=637/440

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6, 8 except (it=lb) 7=332.
- SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
- 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

Job 298682	Truss T01	Truss Type HIP	Qty 3	Ply 1	SPARKS / THOMAS RES. / ROOF 298682011
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:57 2009 Page 1		

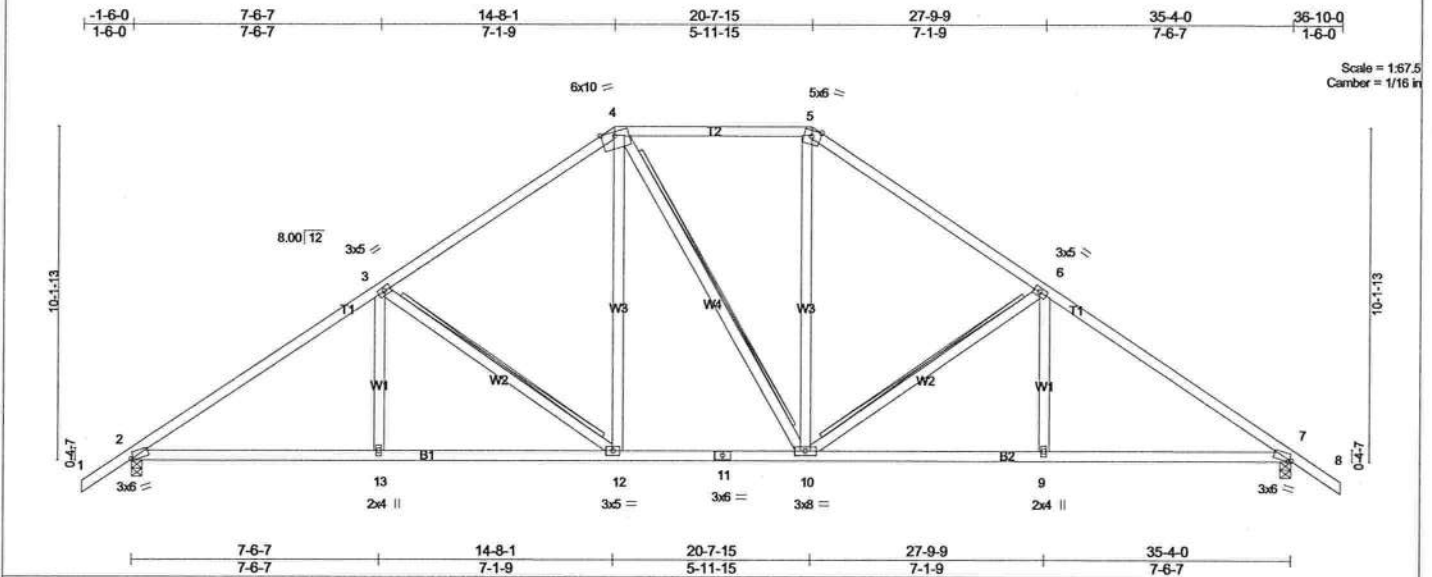


Plate Offsets (X,Y): [2:0-0-12,Edge], [7:0-0-12,Edge]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.39	Vert(LL) 0.09 2-13 >999 360	Weight: 204 lb	
BCLL 0.0	Lumber Increase 1.25	WB 0.26	Vert(TL) -0.17 2-13 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.08 7 n/a n/a		
Code FBC2007/TP12002					

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2 X 4 SYP No.2	Rigid ceiling directly applied or 9-1-3 oc bracing.
WEBS 2 X 4 SYP No.3	T-Brace: 2 X 4 SYP No.3 - 3-12, 4-10, 6-10
	Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS (lb/size) 2=1210/0-1-8 (input: 0-4-0), 7=1210/0-1-8 (input: 0-4-0)
Max Horz 2=272(LC 5)
Max Uplift 2=295(LC 6), 7=295(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1724/775, 3-4=1287/707, 4-5=981/673, 5-6=1288/707, 6-7=1724/775
BOT CHORD 2-13=455/1334, 12-13=455/1334, 11-12=183/981, 10-11=183/981, 9-10=455/1334, 7-9=455/1334
WEBS 3-12=437/336, 4-12=152/362, 5-10=152/362, 6-10=436/336

- NOTES** (8)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 2=295, 7=295.
 - 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 - 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 8) 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

Job 298682	Truss T01A	Truss Type HIP	Qty 4	Ply 1	SPARKS / THOMAS RES. / ROOF 298682012 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:37:58 2009 Page 1		

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

Camber = 1/8" in

Plate Offsets (X,Y): [2:0-0-12,Edge], [7:0-8-3,0-0-14]				
LOADING (psf) TCCL 20.0 TCDL 7.0 BCCL 0.0 BCDL 5.0	SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2007/TP12002	CSI TC 0.39 BC 0.45 WB 0.27 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) 0.12 7-8 >999 360 Vert(TL) -0.19 7-8 >999 240 Horz(TL) 0.08 7 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 202 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 4-3-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 8-1-3 oc bracing. WEBS T-Brace: 2 X 4 SYP No.3 - 3-11, 4-9, 6-9 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance. Brace must cover 90% of web length.
--	--

REACTIONS (lb/size) 7=1118/0-1-8 (input: 0-4-0), 2=1212/0-1-8 (input: 0-4-0)
 Max Horz 2=291(LC 5)
 Max Uplift 7=222(LC 7), 2=295(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1727/780, 3-4=-1291/713, 4-5=-985/679, 5-6=-1293/715, 6-7=-1739/798
 BOT CHORD 2-12=-522/1337, 11-12=-522/1337, 10-11=-249/984, 9-10=-249/984, 8-9=-541/1350, 7-8=-541/1350
 WEBS 3-11=-437/335, 4-11=-153/362, 5-9=-159/363, 6-9=-451/357

NOTES (8)
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-05; 110mph (3-second gust); TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
 3) Provide adequate drainage to prevent water ponding.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=222, 2=295.
 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 8) 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

Job 298682	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682013 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:00 2009 Page 1		

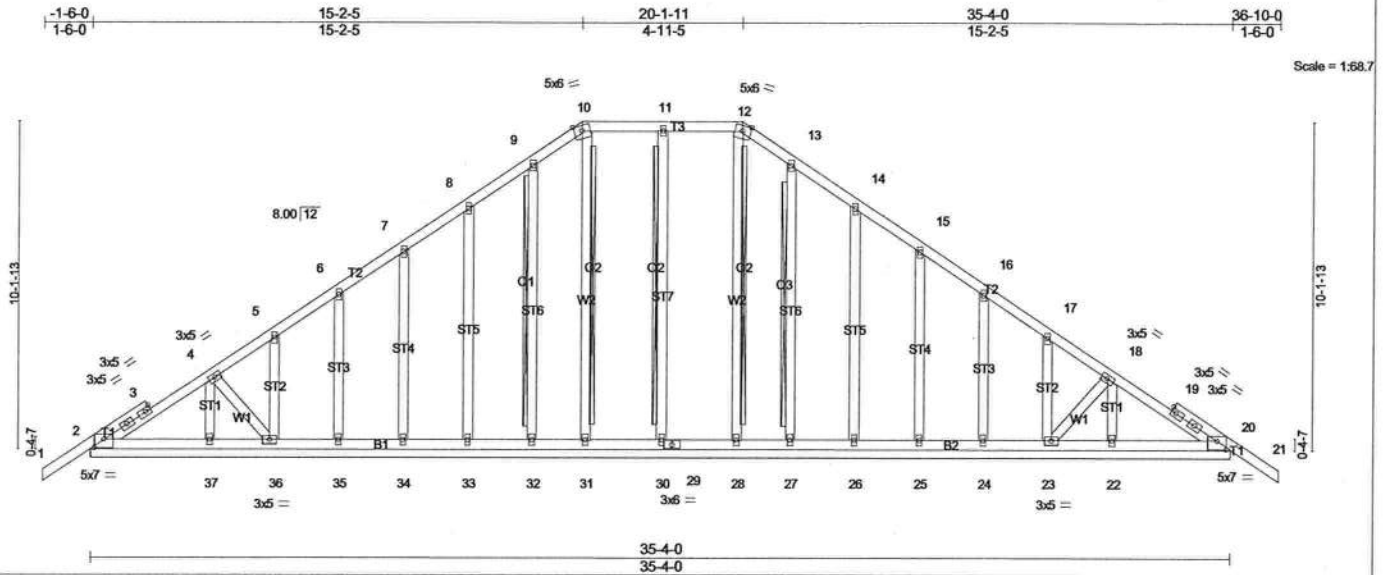


Plate Offsets (X, Y): [2:0-3-8,0-3-2], [20:0-3-8,0-3-2]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.05	Vert(LL) -0.00 21 n/r 120		
BCLL 0.0	Lumber Increase 1.25	WB 0.11	Vert(TL) -0.00 21 n/r 90		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 20 n/a n/a		
	Code FBC2007/TP12002				
				Weight: 269 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-12.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS T-Brace: 2 X 4 SYP No.3 - 11-30, 9-32, 13-27, 10-31, 12-28.
OTHERS 2 X 4 SYP No.3	Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS All bearings 35-4-0.
(lb) - Max Horz 2=347(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 32, 27, 22, 31, 28 except 2=101(LC 4), 20=133(LC 7), 30=107(LC 5), 33=111(LC 6), 34=103(LC 6), 35=106(LC 6), 36=185(LC 6), 26=113(LC 7), 25=103(LC 7), 24=107(LC 7), 23=197(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 30, 32, 33, 34, 35, 36, 37, 27, 26, 25, 24, 23, 22, 31, 28

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=38/259, 9-10=28/295, 10-11=5/272, 11-12=5/272, 12-13=28/295
BOT CHORD 35-36=56/252, 34-35=56/252, 33-34=56/252, 32-33=56/252, 31-32=56/252, 30-31=55/250, 29-30=55/250, 28-29=55/250, 27-28=56/251, 26-27=56/251, 25-26=56/251, 24-25=56/251, 23-24=56/251

- NOTES** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 27, 22, 31, 28 except (it=lb) 2=101, 20=133, 30=107, 33=111, 34=103, 35=106, 36=185, 26=113, 25=103, 24=107, 23=197.
 - Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 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

Job	Truss	Truss Type	Qty	Ply	SPARKS / THOMAS RES. / ROOF
298682	T03	ROOF TRUSS	1	1	298682014 Job Reference (optional)

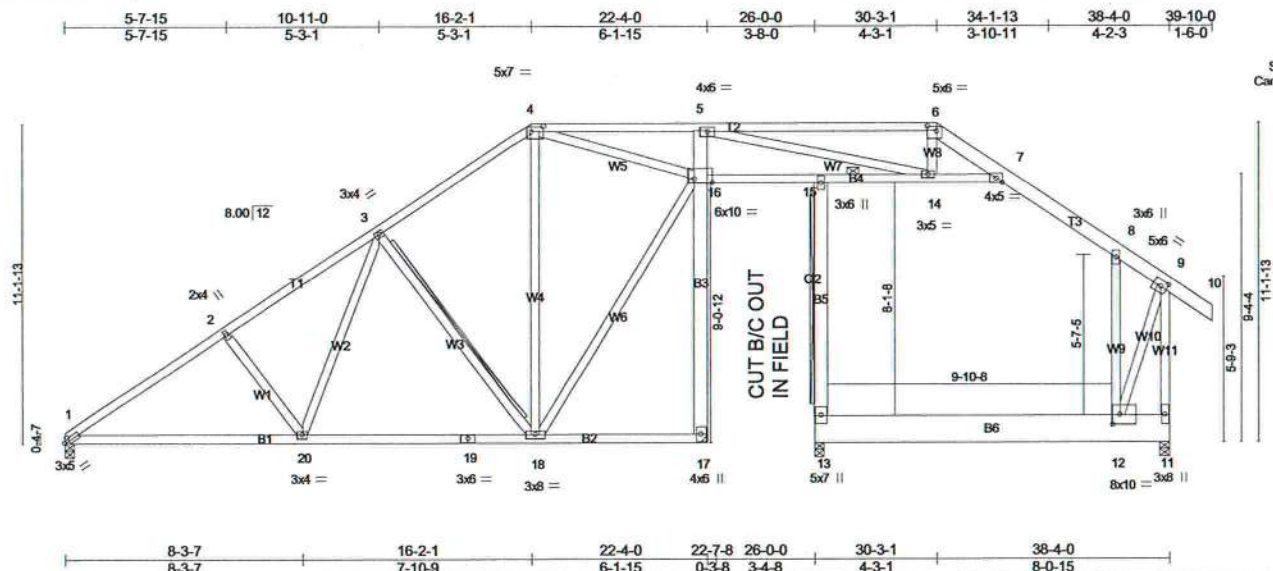


Plate Offsets (X, Y): [1:0-1,15,0-1,8], [4:0-5,4,0,2-4], [6:0-3,12,0,2-0], [9:0-2,9,0,2-8], [12:0-3,4,0,4-0], [16:0-7,8,0-1,8]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.11 12-13 >999	360	MT20
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.19 12-13 >775	240	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.39 11 n/a	n/a	
BCDL	5.0	Code FBC2007/TP12002		(Matrix)		Attic room	-0.09 12-13	1445 360	
								Weight: 335 lb	

REACTIONS All bearings 0-4-0 except (if=length) 17=Mechanical.
(lb) - Max Horz 1=354(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) except 1=219(LC 6), 17=-449(LC 5), 11=-174(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except 1=641(LC 11), 17=1237(LC 1), 13=972(LC 12), 11=975(LC 12)

NOTES (12)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDF=4.2psf; BCDF=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Ceiling dead load (5.0 psf) on member(s). 7-8, 15-16, 14-15, 7-14; Wall dead load (5.0psf) on member(s). 13-15, 8-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 1, 449 lb uplift at joint 17 and 174 lb uplift at joint 11.
- 9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 11) Attic room checked for L/360 deflection.
- 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

Job 298682	Truss T03A	Truss Type ROOF TRUSS	Qty 4	Ply 1	SPARKS / THOMAS RES. / ROOF 298682015 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055					7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:03 2009 Page 1

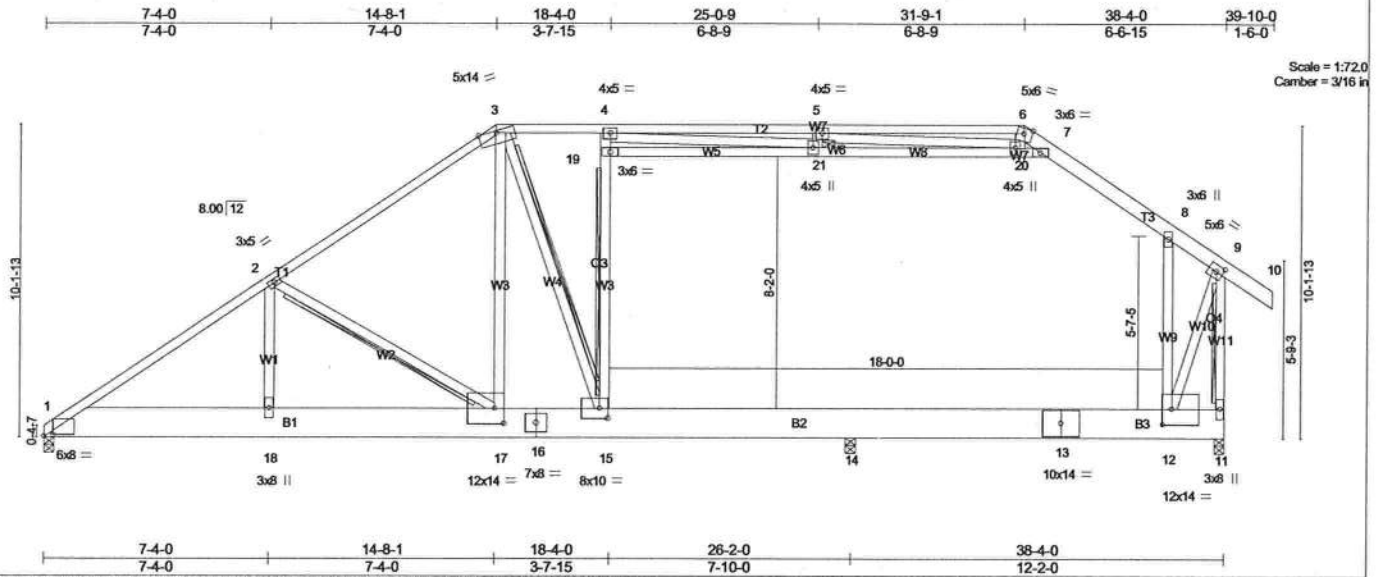
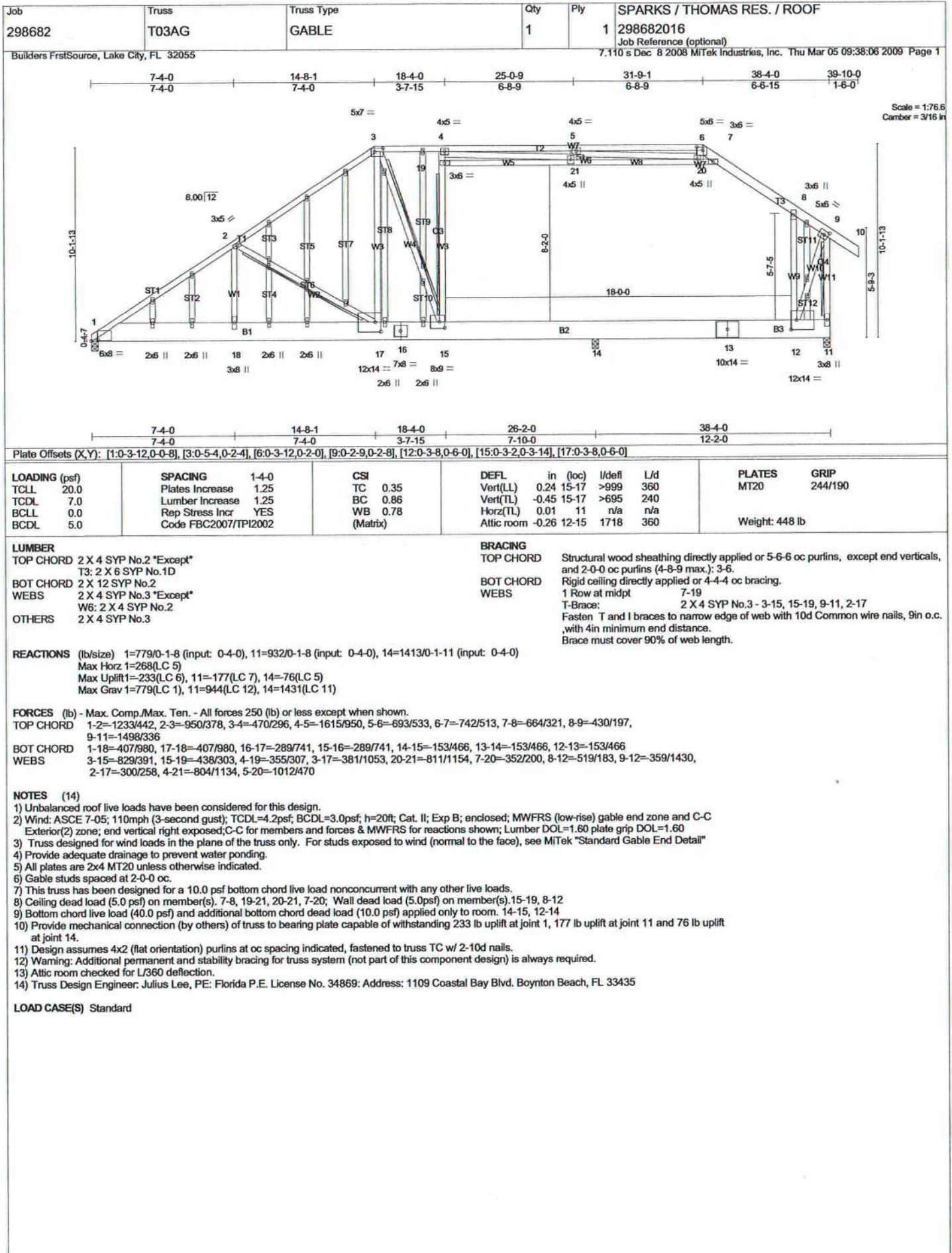


Plate Offsets (X,Y): [1:0-3-12,0-0-8], [9:0-2-9,0-2-8], [12:0-3-8,0-6-0], [15:0-3-2,0-4-0], [17:0-3-8,0-6-0]					
LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl
TCLL 20.0	Plates Increase 1.25	TC 0.35	Vert(LL)	-0.23 15-17	>999 360
TCDL 7.0	Lumber Increase 1.25	BC 0.86	Vert(TL)	-0.45 15-17	>695 240
BCLL 0.0	Rep Stress Incr YES	WB 0.78	Horz(TL)	0.01 11	n/a n/a
BCDL 5.0	Code FBC2007/TP12002	(Matrix)	Attic room	-0.26 12-15	1718 360
					Weight: 381 lb

LUMBER		BRACING	
TOP CHORD	2 X 4 SYP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): 3-6.
	T3: 2 X 6 SYP No.1D		
BOT CHORD	2 X 12 SYP No.2	BOT CHORD	Rigid ceiling directly applied or 4-4-4 oc bracing.
WEBS	2 X 4 SYP No.3 *Except*	WEBS	1 Row at midpt 7-19
	W6: 2 X 4 SYP No.2		T-Brace: 2 X 4 SYP No.3 - 3-15, 15-19, 9-11, 2-17
			Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. ,with 4in minimum end distance.
			Brace must cover 90% of web length.
REACTIONS (lb/size) 1=779/0-1-8 (input: 0-4-0), 11=932/0-1-8 (input: 0-4-0), 14=1413/0-1-11 (input: 0-4-0)			
Max Horz 1=212(LC 5)			
Max Uplift 1=99(LC 6), 11=76(LC 4)			
Max Grav 1=779(LC 1), 11=944(LC 12), 14=1431(LC 11)			
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD 1-2=1233/442, 2-3=950/378, 3-4=470/296, 4-5=1615/840, 5-6=693/372, 6-7=742/381, 7-8=664/321, 8-9=430/197, 9-11=1498/336			
BOT CHORD 1-18=274/980, 17-18=274/980, 16-17=167/741, 15-16=167/741, 14-15=77/466, 13-14=77/466, 12-13=77/466			
WEBS 3-15=829/259, 15-19=438/187, 4-19=355/194, 3-17=290/1053, 20-21=544/1154, 8-12=519/145, 9-12=188/1430, 2-17=300/237, 4-21=550/1134, 5-20=1012/470			

NOTES (11)	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
3) Provide adequate drainage to prevent water ponding.	
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
5) Ceiling dead load (5.0 psf) on member(s). 7-8, 19-21, 20-21, 7-20; Wall dead load (5.0psf) on member(s).15-19, 8-12	
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15, 12-14	
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 1 and 76 lb uplift at joint 11.	
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.	
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.	
10) Attic room checked for L/360 deflection.	
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	



Job 298682	Truss T03B	Truss Type ROOF TRUSS	Qty 5	Ply 1	SPARKS / THOMAS RES. / ROOF 298682017 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055					7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:08 2009 Page 1

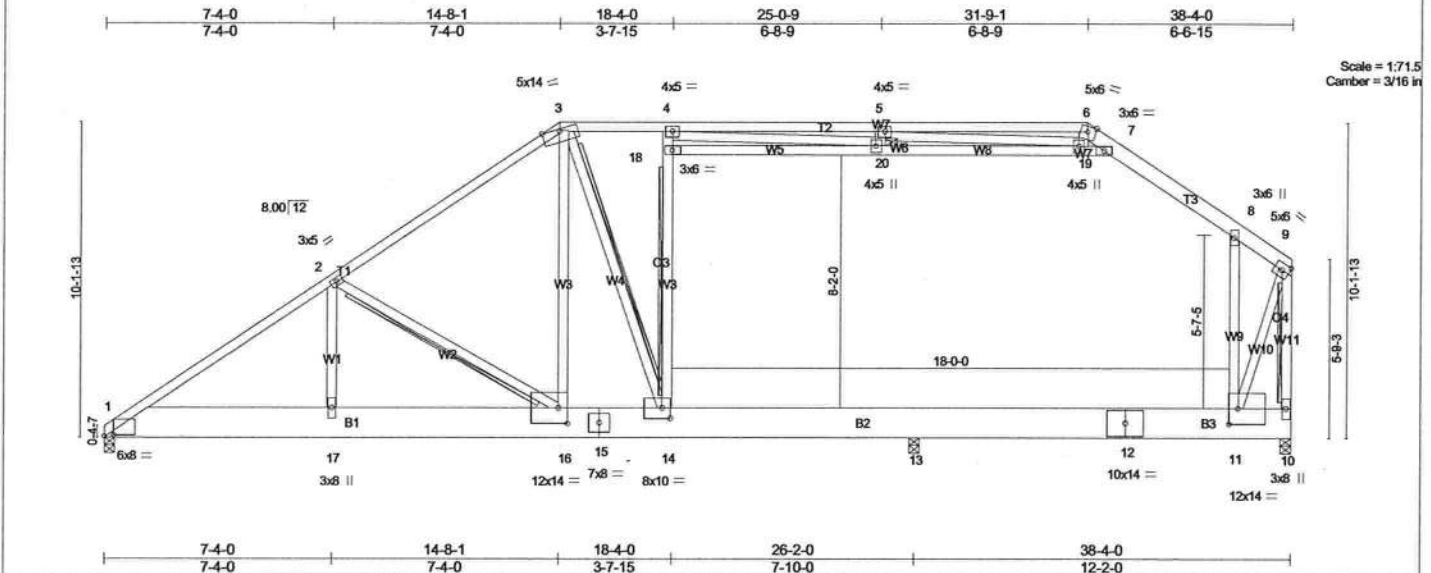
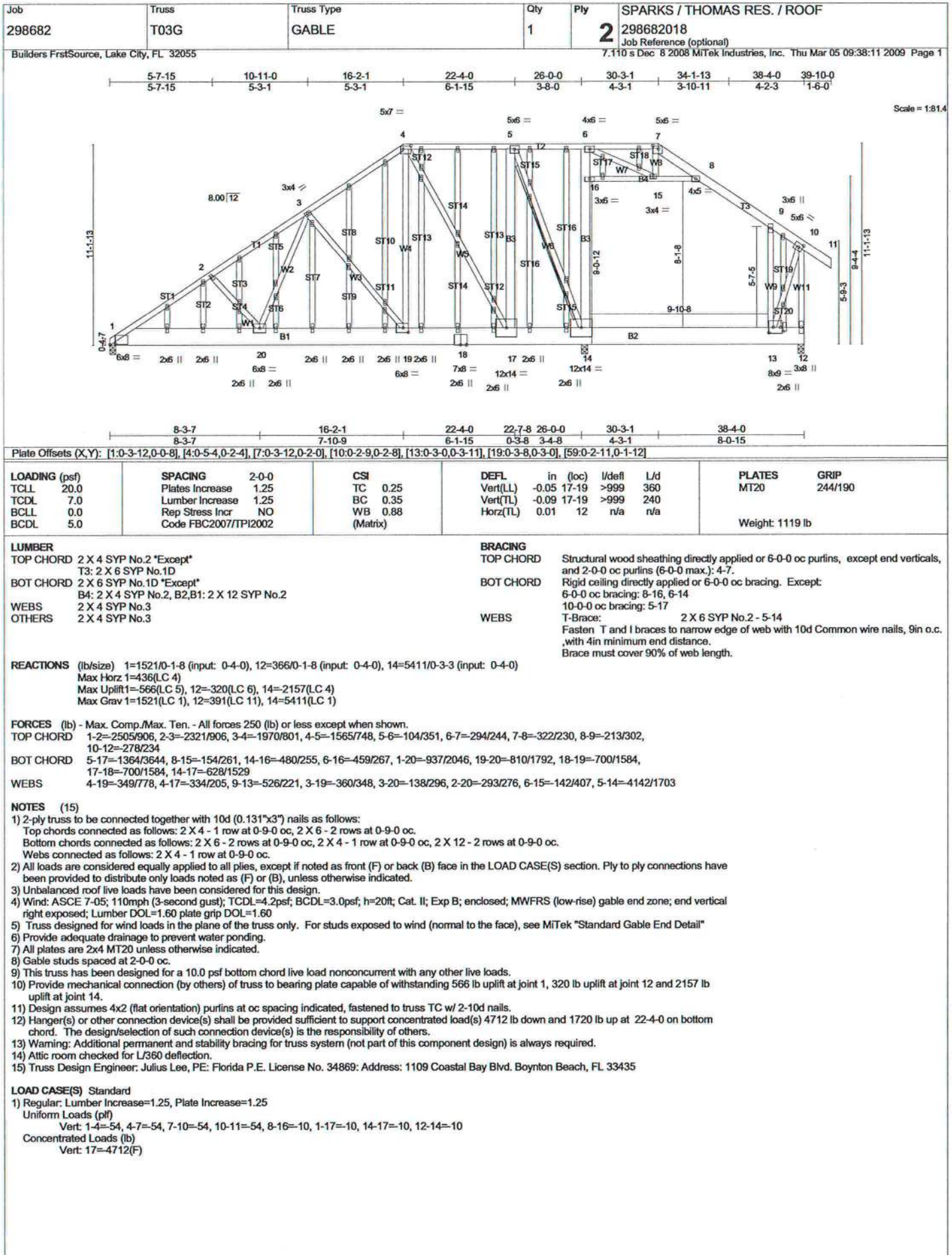


Plate Offsets (X,Y): [1:0-3-12,0-0-8], [11:0-3-8,0-6-0], [14:0-3-2,0-4-0], [16:0-3-8,0-6-0]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1-4-0	TC 0.34	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.85	Vert(LL) -0.23 14-16 >999 360	Weight: 377 lb	
BCLL 0.0	Rep Stress Incr YES	WB 0.78	Vert(TL) -0.45 14-16 >696 240		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Horz(TL) 0.01 10 n/a n/a		
			Attic room -0.26 11-14 1718 360		

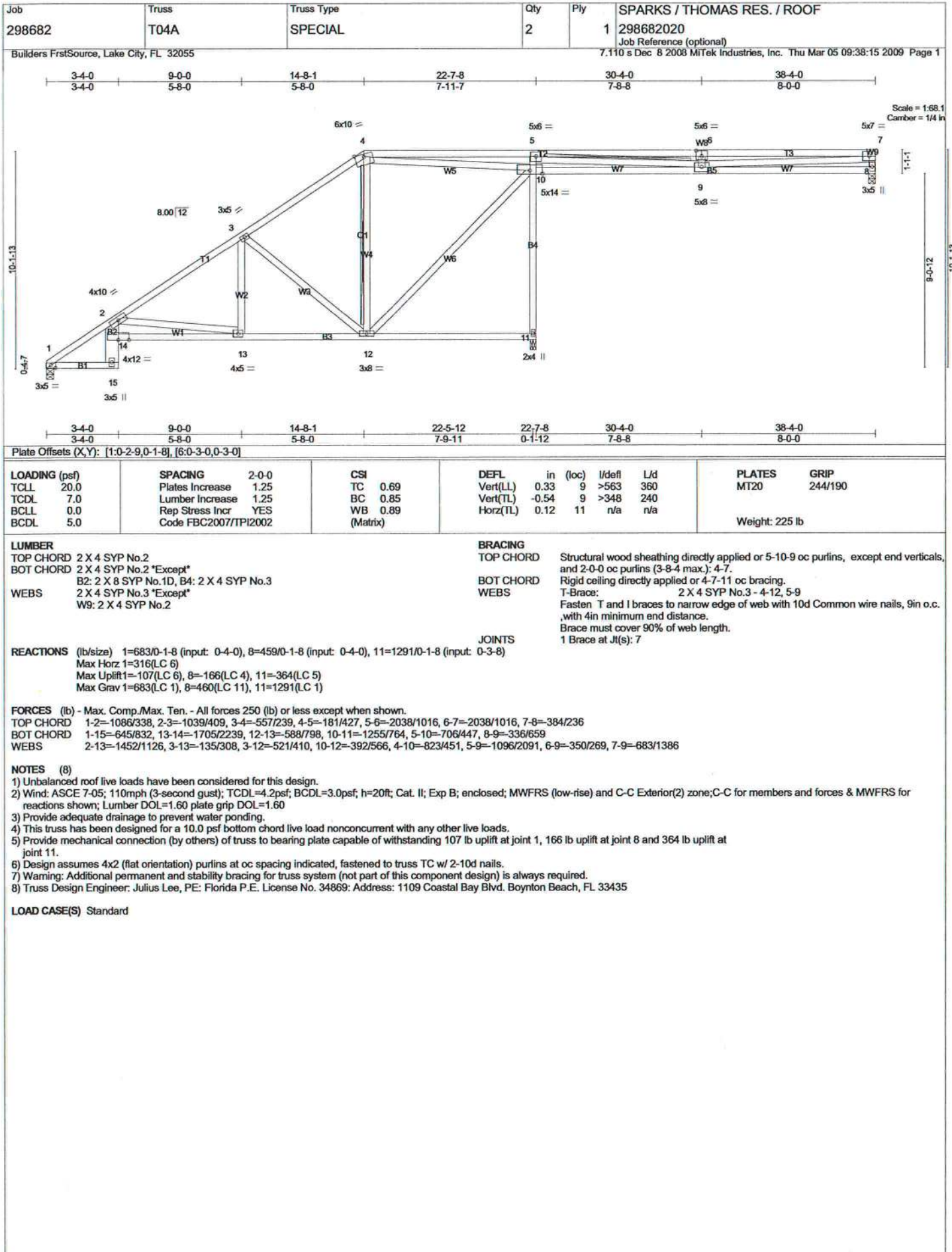
LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-9 max.): 3-6.
T3: 2 X 6 SYP No.1D	BOT CHORD Rigid ceiling directly applied or 4-4-4 oc bracing.
BOT CHORD 2 X 12 SYP No.2	1 Row at midpt 7-18
WEBS 2 X 4 SYP No.3 *Except*	T-Brace: 2 X 4 SYP No.3 - 3-14, 14-18, 9-10, 2-16
W6: 2 X 4 SYP No.2	Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. with 4in minimum end distance.
	Brace must cover 90% of web length.
REACTIONS (lb/size) 1=781/0-1-8 (input: 0-4-0), 10=873/0-1-8 (input: 0-4-0), 13=1409/0-1-11 (input: 0-4-0)	
Max Horz 1=227(LC 5)	
Max Uplift 1=97(LC 6), 10=65(LC 4)	
Max Grav 1=781(LC 1), 10=886(LC 12), 13=1430(LC 11)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 1-2=1237/430, 2-3=954/366, 3-4=476/278, 4-5=1615/839, 5-6=687/384, 6-7=738/389, 7-8=669/306, 8-9=426/145, 9-10=1435/290	
BOT CHORD 1-17=313/983, 16-17=313/983, 15-16=178/744, 14-15=178/744, 13-14=86/472, 12-13=86/472, 11-12=86/472	
WEBS 3-14=827/266, 14-18=437/188, 4-18=354/194, 3-16=304/1051, 19-20=561/1147, 8-11=537/211, 9-11=277/1445, 2-16=300/237, 4-20=566/1128, 5-19=1013/457	

- NOTES** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Ceiling dead load (5.0 psf) on member(s). 7-8, 18-20, 19-20, 7-19; Wall dead load (5.0psf) on member(s).14-18, 8-11
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-14, 11-13
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 1 and 65 lb uplift at joint 10.
 - 8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 - 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 10) Attic room checked for L/360 deflection.
 - 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

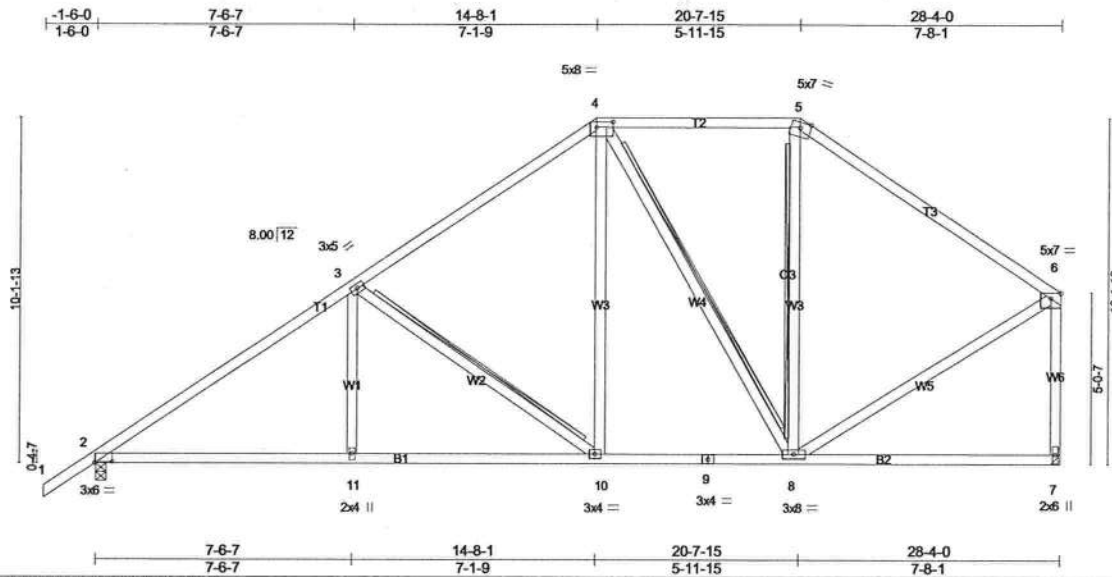
LOAD CASE(S) Standard



Job 298682	Truss T04	Truss Type ROOF TRUSS	Qty 5	Ply 1	SPARKS / THOMAS RES. / ROOF 298682019 Job Reference (optional) 7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:13 2009 Page 1																																										
Builders FrstSource, Lake City, FL 32055																																															
Scale = 1/77.6 Camber = 3/16 in																																															
Plate Offsets (X,Y): [1:0-2-9,0-1-8], [4:0-5-4,0-2-4], [6:0-3-12,0-2-0], [9:0-2-9,0-2-8], [12:0-3-3,0-3-12], [16:0-7-8,0-1-8]																																															
<table> <tr> <th>LOADING (psf)</th><th>SPACING</th><th>CSI</th><th>DEFL</th><th>PLATES</th><th>GRIP</th></tr> <tr> <td>TCLL 20.0</td><td>2-0-0</td><td>TC 0.50</td><td>in (loc)</td><td></td><td></td></tr> <tr> <td>TCDL 7.0</td><td>Plates Increase 1.25</td><td>BC 0.56</td><td>Vert(LL) 0.18 20-21 >999 360</td><td>MT20</td><td>244/190</td></tr> <tr> <td>BCLL 0.0</td><td>Lumber Increase 1.25</td><td>WB 0.91</td><td>Vert(TL) -0.26 20 11 >999 240</td><td></td><td></td></tr> <tr> <td>BCDL 5.0</td><td>Rep Stress Incr YES</td><td>(Matrix)</td><td>Horz(TL) 0.40 11 n/a n/a</td><td></td><td></td></tr> <tr> <td></td><td>Code FBC2007/TP12002</td><td></td><td>Attic room -0.08 12-13 1451 360</td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td colspan="2" rowspan="2">Weight: 332 lb</td></tr> </table>						LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP	TCLL 20.0	2-0-0	TC 0.50	in (loc)			TCDL 7.0	Plates Increase 1.25	BC 0.56	Vert(LL) 0.18 20-21 >999 360	MT20	244/190	BCLL 0.0	Lumber Increase 1.25	WB 0.91	Vert(TL) -0.26 20 11 >999 240			BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.40 11 n/a n/a				Code FBC2007/TP12002		Attic room -0.08 12-13 1451 360							Weight: 332 lb	
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP																																										
TCLL 20.0	2-0-0	TC 0.50	in (loc)																																												
TCDL 7.0	Plates Increase 1.25	BC 0.56	Vert(LL) 0.18 20-21 >999 360	MT20	244/190																																										
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<table> <tr> <th>LUMBER</th><th>BRACING</th></tr> <tr> <td>TOP CHORD 2 X 4 SYP No.2 "Except"</td><td>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.</td></tr> <tr> <td>T3: 2 X 6 SYP No.1D</td><td></td></tr> <tr> <td>BOT CHORD 2 X 4 SYP No.2 "Except"</td><td>BOT CHORD Rigid ceiling directly applied or 5-3-11 oc bracing. Except:</td></tr> <tr> <td>B2: 2 X 8 SYP No.1D, B5,B7: 2 X 6 SYP No.1D, B8: 2 X 12 SYP No.2</td><td>6-0-0 oc bracing: 13-15</td></tr> <tr> <td>WEBS 2 X 4 SYP No.3</td><td>1 Row at midpt 7-16</td></tr> <tr> <td></td><td>T-Brace: 2 X 4 SYP No.3 - 2-20, 3-18</td></tr> <tr> <td></td><td>Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. with 4in minimum end distance.</td></tr> <tr> <td></td><td>Brace must cover 90% of web length.</td></tr> </table>						LUMBER	BRACING	TOP CHORD 2 X 4 SYP No.2 "Except"	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.	T3: 2 X 6 SYP No.1D		BOT CHORD 2 X 4 SYP No.2 "Except"	BOT CHORD Rigid ceiling directly applied or 5-3-11 oc bracing. Except:	B2: 2 X 8 SYP No.1D, B5,B7: 2 X 6 SYP No.1D, B8: 2 X 12 SYP No.2	6-0-0 oc bracing: 13-15	WEBS 2 X 4 SYP No.3	1 Row at midpt 7-16		T-Brace: 2 X 4 SYP No.3 - 2-20, 3-18		Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. with 4in minimum end distance.		Brace must cover 90% of web length.																								
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	Brace must cover 90% of web length.																																														
REACTIONS All bearings 0-4-0 except (if=length) 17=0-3-8. (lb) - Max Horz 1=354(LC 5) Max Uplift All uplift 100 lb or less at joint(s) except 1=214(LC 6), 17=466(LC 5), 11=171(LC 7) Max Grav All reactions 250 lb or less at joint(s) except 1=635(LC 11), 17=1282(LC 1), 13=964(LC 12), 11=960(LC 12)																																															
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=1005/679, 2-3=885/685, 3-4=368/541, 4-5=130/1094, 5-6=222/303, 6-7=190/307, 7-8=209/436, 8-9=121/345, 9-11=344/575 BOT CHORD 1-22=474/768, 20-21=1328/2119, 19-20=354/661, 18-19=354/661, 16-17=1251/481, 5-16=694/293 WEBS 15-16=1080/288, 14-15=1140/273, 2-20=1467/980, 3-20=87/335, 3-18=562/410, 16-18=221/368, 4-16=1327/385, 6-14=362/82, 9-12=250/187, 8-12=381/71, 5-14=228/1276																																															
NOTES (11) 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) Ceiling dead load (5.0 psf) on member(s). 7-8, 15-16, 14-15, 7-14; Wall dead load (5.0psf) on member(s). 13-15, 8-12 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 1, 466 lb uplift at joint 17 and 171 lb uplift at joint 11. 8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails. 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required. 10) Attic room checked for L/360 deflection. 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																																															



Job 298682	Truss T05	Truss Type HIP	Qty 4	Ply 1	SPARKS / THOMAS RES. / ROOF 298682021 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			7,110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:16 2009 Page 1		



Scale = 1/65.0
Camber = 1/16 in

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.97	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.34	Vert(LL) -0.08 7-8 >999 360		
BCLL 0.0	Lumber Increase 1.25	WB 0.29	Vert(TL) -0.15 2-11 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 7 n/a n/a		
	Code FBC2007/TPI2002				
				Weight: 179 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 5-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 8-3-1 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-10, 4-8, 5-8
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
Brace must cover 90% of web length.

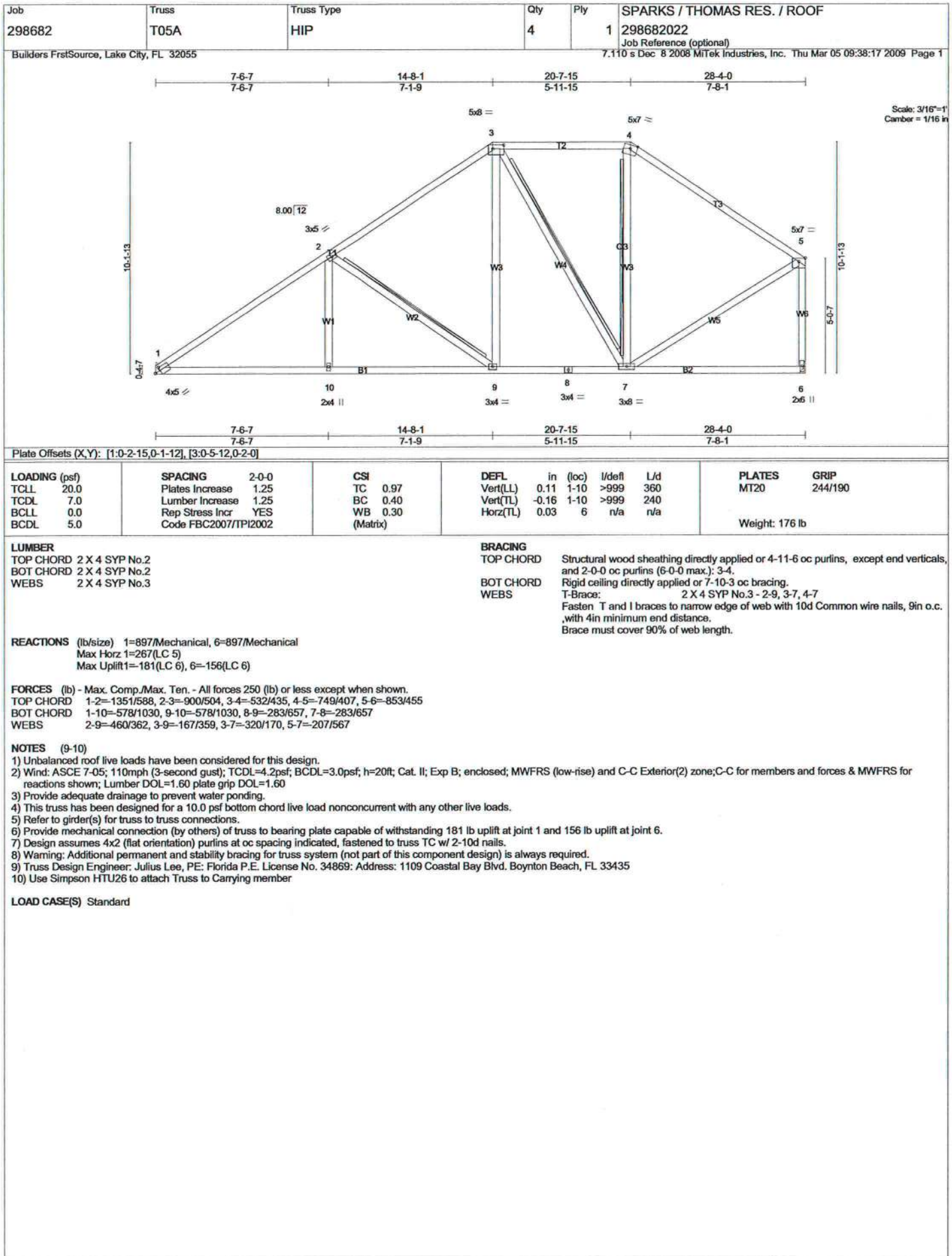
REACTIONS (lb/size) 2=989/0-1-8 (input: 0-4-0), 7=894/Mechanical
Max Horz 2=285(LC 5)
Max Uplift 2=254(LC 6), 7=153(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1336/566, 3-4=896/497, 4-5=530/432, 5-6=747/403, 6-7=850/451
BOT CHORD 2-11=556/1015, 10-11=556/1015, 9-10=279/654, 8-9=279/654
WEBS 3-10=446/341, 4-10=159/358, 4-8=319/169, 6-8=203/564

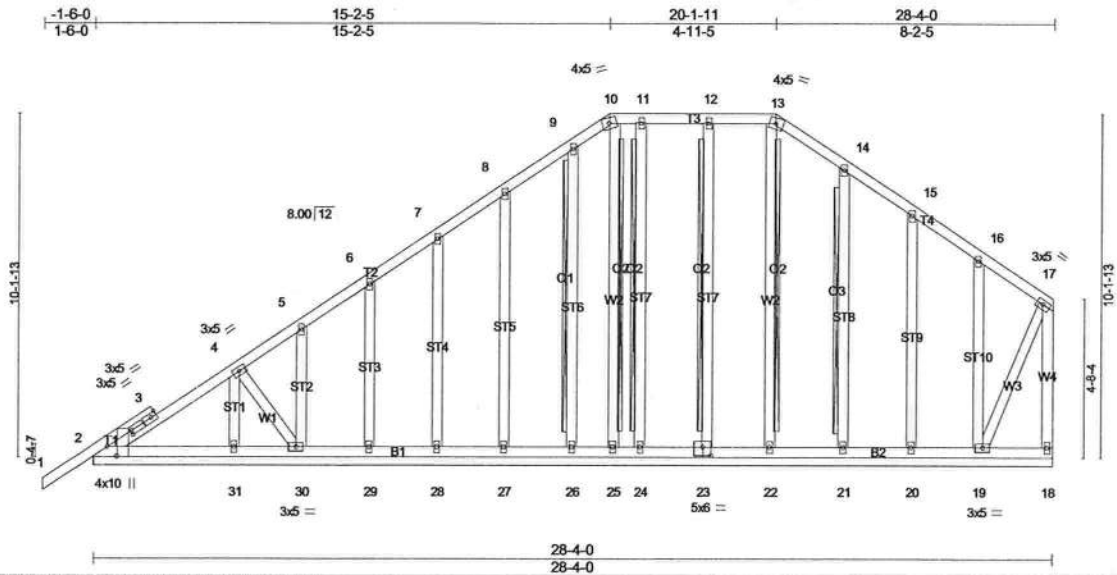
NOTES (9-10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 2 and 153 lb uplift at joint 7.
- Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
- Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



Job 298682	Truss T05G	Truss Type GABLE	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682023 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:19 2009 Page 1		



Scale = 1:65.5

Plate Offsets (X,Y): [2-0-3-8, Edge], [3-0-0-5, 0-1-8], [23-0-3-0, 0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.07	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0	Lumber Increase 1.25	WB 0.12	Vert(TL) 0.00 1 n/r 90		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 19 n/a n/a		
	Code FBC2007/TPI2002			Weight: 252 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
OTHERS 2 X 4 SYP No.3

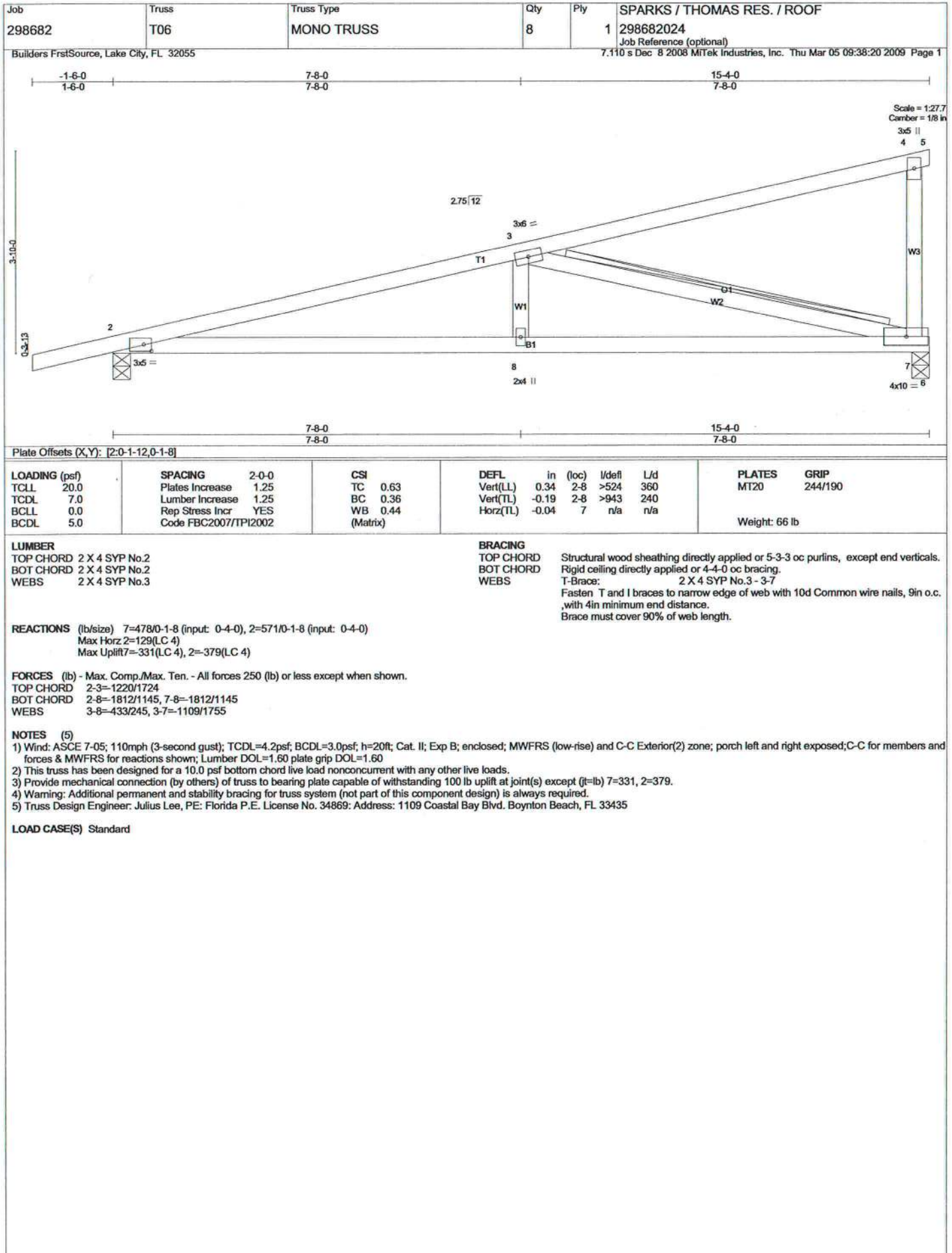
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max): 10-13.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 18-19.
WEBS T-Brace: 2 X 4 SYP No.3 - 12-23, 11-24, 9-26, 14-21, 13-22, 10-25
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS All bearings 28-4-0.
(lb) - Max Horz 2=346(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 23, 24, 26, 31, 21, 22, 25 except 27=112(LC 6), 28=103(LC 6), 29=107(LC 6), 30=161(LC 6), 20=107(LC 7), 19=229(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 23, 24, 26, 27, 28, 29, 30, 31, 21, 20, 19, 22, 25

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=259/159

NOTES (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 23, 24, 26, 31, 21, 22, 25 except (it=lb) 27=112, 28=103, 29=107, 30=161, 20=107, 19=229.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
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



Job 298682	Truss T07	Truss Type MONO HIP	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682025 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7,110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:21 2009 Page 1		

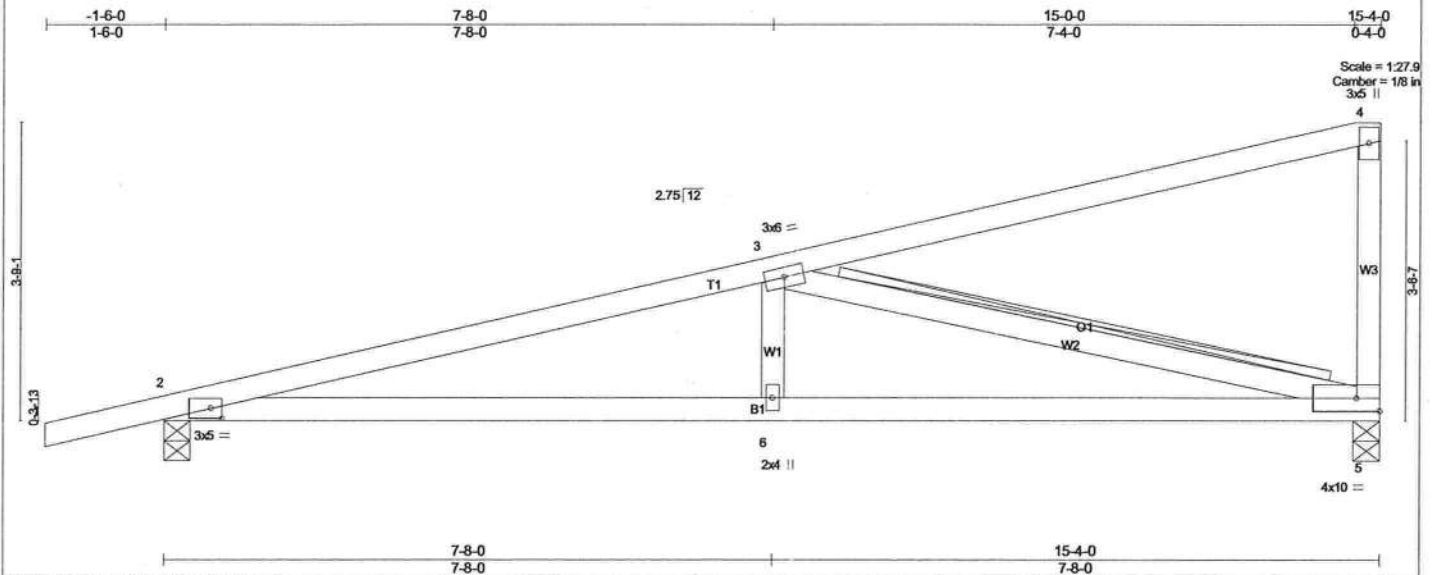


Plate Offsets (X,Y): [2-0-1-12,0-1-8]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.37	Vert(LL) 0.34 2-6 >527 360		
BCLL 0.0	Lumber Increase 1.25	WB 0.45	Vert(TL) -0.19 2-6 >942 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.05 5 n/a n/a		
	Code FBC2007/TPI2002				
				Weight: 67 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 5-2-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-9 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-5
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=476/0-1-8 (input: 0-4-0), 2=576/0-1-8 (input: 0-4-0)
Max Horz 2=129(LC 4)
Max Uplift 5=330(LC 4), 2=383(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1242/1757
BOT CHORD 2-6=1846/1168, 5-6=1846/1168
WEBS 3-6=436/247, 3-5=1127/1784

NOTES (5)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 5=330, 2=383.
4) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
5) 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

Job

298682

Truss

T07A

Truss Type

MONO HIP

Qty

1

Ply

1

SPARKS / THOMAS RES. / ROOF

298682026

Job Reference (optional)

Builders FrstSource, Lake City, FL 32055

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-1-6-0

1-6-0

7-8-0

7-8-0

13-0-0

5-4-0

15-4-0

2-4-0

Scale = 1/28.6

Camber = 1/8 in

Job 298682	Truss T08	Truss Type MONO HIP	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682027 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:22 2009 Page 1		

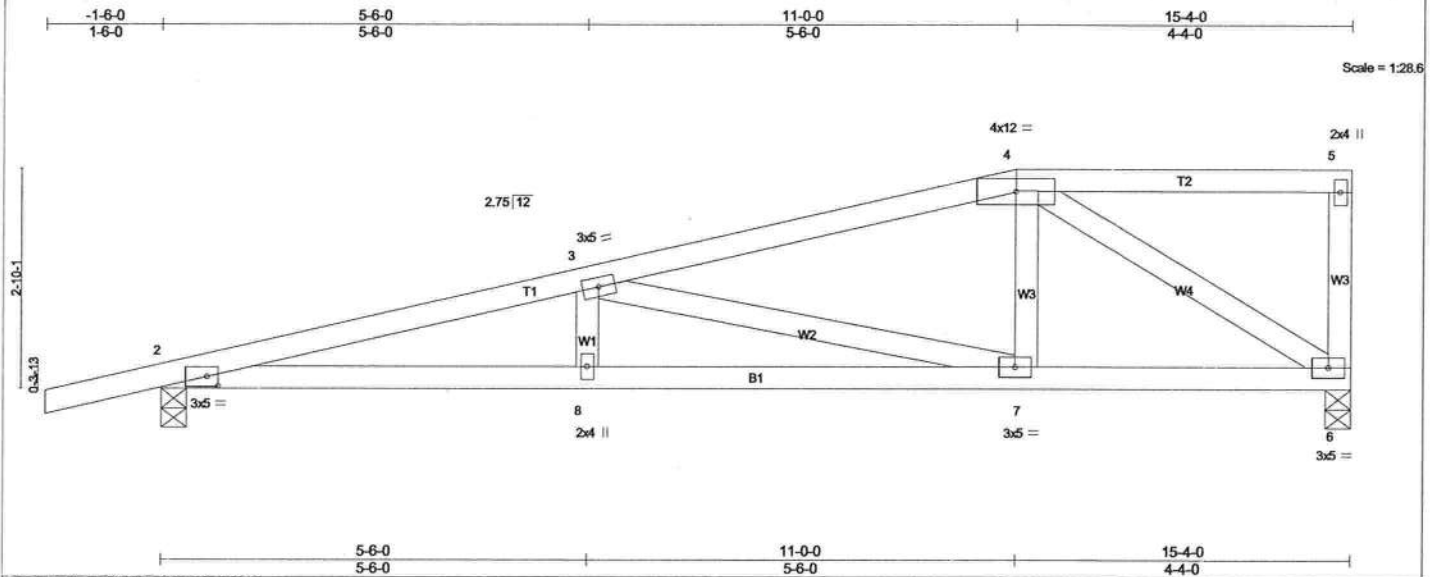


Plate Offsets (X,Y): [2-0-1-12,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.38	Vert(LL)	0.20	7-8	>889	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.23	Vert(TL)	-0.13	7-8	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.44	Horz(TL)	-0.04	6	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)							
									Weight: 71 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.

REACTIONS

(lb/size) 6=476/0-1-8 (input: 0-4-0), 2=576/0-1-8 (input: 0-4-0)
Max Horz 2=98(LC 4)
Max Uplift 6=324(LC 4), 2=389(LC 4)

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

TOP CHORD 2-3=1396/2049, 3-4=657/932
BOT CHORD 2-8=2089/1325, 7-8=2089/1325, 6-7=970/621
WEBS 3-8=293/169, 3-7=735/1180, 4-7=548/276, 4-6=698/1096

NOTES (5)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 6=324, 2=389.
- 5) 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

Job Reference (optional)

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Weight: 70 lb

TOP CHORD	Structural wood sheathing directly applied or 5-2-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-3-7 oc bracing.

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 6=322, 2=391.
- 5) 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

Job 298682	Truss T10	Truss Type MONO HIP	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682029 Job Reference (optional)
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Builders FirstSource, Lake City, FL 32055

7.110 s Dec 8 2008 Mitek Industries, Inc. Thu Mar 05 09:38:24 2009 Page 1

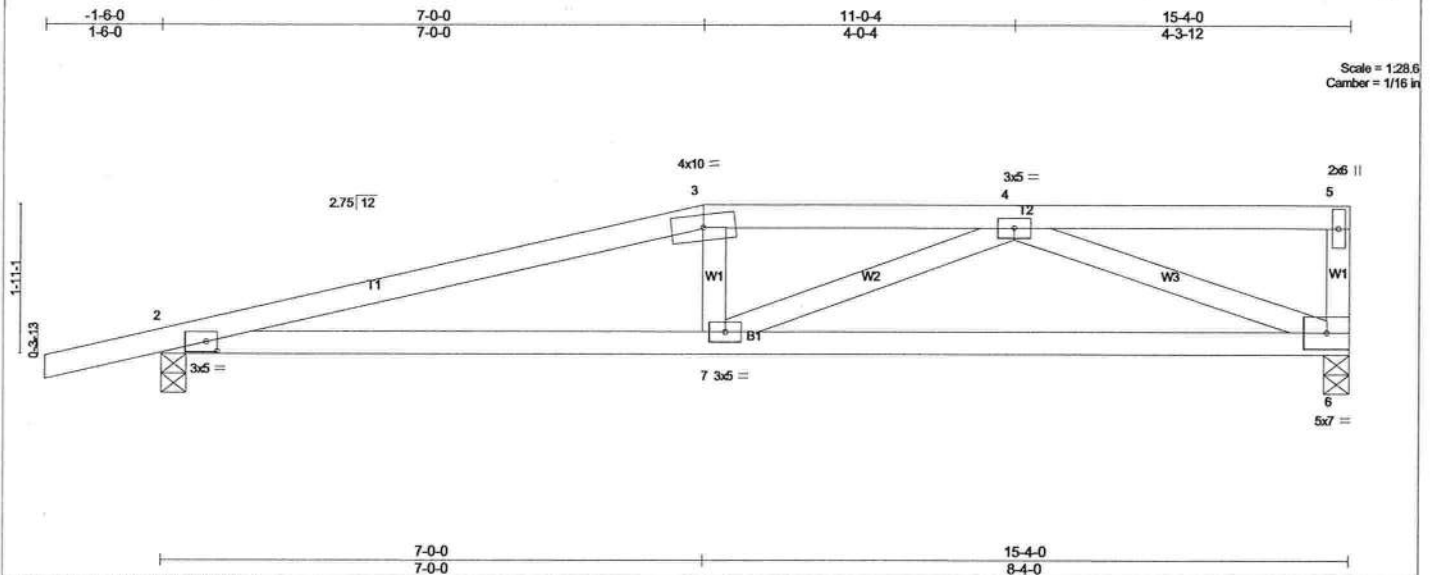


Plate Offsets (X,Y): [2.0-1-12,0-1-8]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.68	Vert(LL) 0.27 6-7 >669 360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.35	Vert(TL) -0.15 6-7 >999 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.32	Horz(TL) -0.04 6 n/a n/a		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)			
				Weight: 64 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 4-4-6 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 6=476/0-1-8 (input: 0-4-0), 2=576/0-1-8 (input: 0-4-0)
Max Horz 2=69(LC 4)
Max Uplift 6=320(LC 4), 2=393(LC 4)

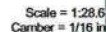
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1272/1885, 3-4=1193/1886
BOT CHORD 2-7=1873/1197, 6-7=1218/877
WEBS 4-7=725/352, 4-6=849/1070

NOTES (5)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 6=320, 2=393.
5) 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

Job Reference (optional)

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Weight: 66 lb

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

TOP CHORD	Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-2-15 oc bracing.

(lb/size) 6=476/0-1-8 (input: 0-4-0), 2=576/0-1-8 (input: 0-4-0)
Max Horz 2=54(LC 4)
Max Uplift 6=319(LC 4), 2=394(LC 4)

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

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCFL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 6=319, 2=394.
- 5) 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

Job 298682	Truss T12	Truss Type MONO HIP	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682031 Job Reference (optional)
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Builders FrstSource, Lake City, FL 32055

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Scale = 1:28.6
Camber = 3/16 in

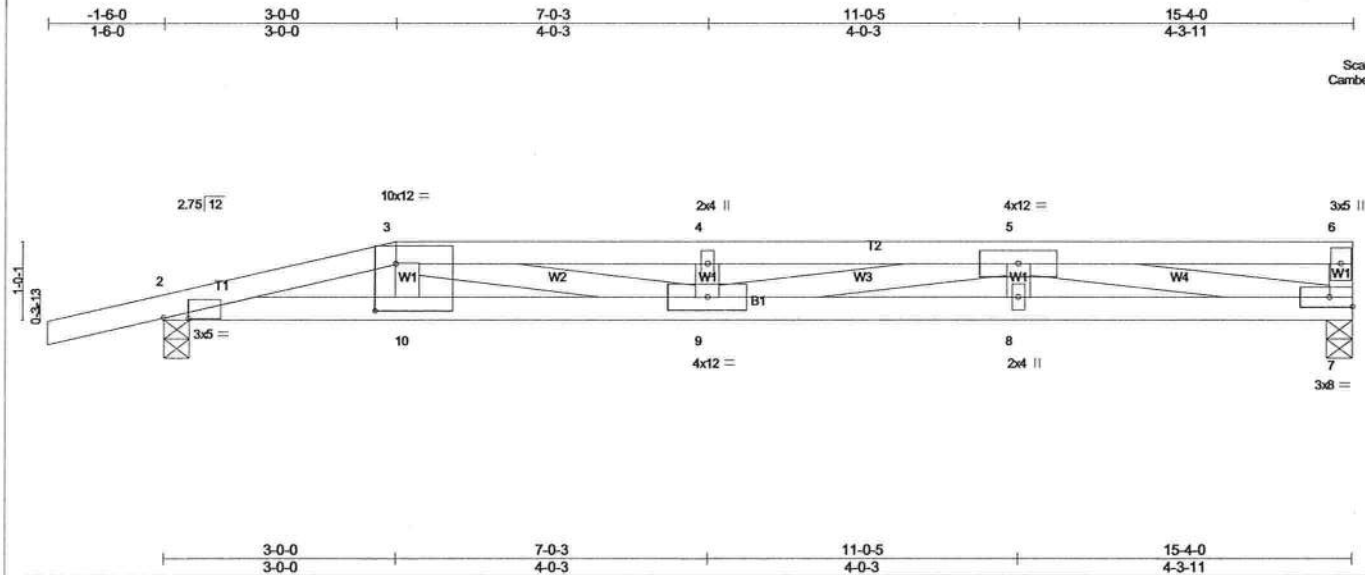


Plate Offsets (X,Y): [2:0-3-13,0-0-2], [3:0-3-4,0-7-4]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	Vert(LL) 0.31	8-9	>580	360		MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.65	Vert(TL) -0.44	8-9	>411	240			
BCLL 0.0	Lumber Increase 1.25	WB 0.62	Horz(TL) 0.05	7	n/a	n/a			
BCDL 5.0	Rep Stress Incr NO	(Matrix)							
	Code FBC2007/TP12002								
									Weight: 67 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 3-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-7 oc bracing.

REACTIONS

(lb/size) 7=561/0-1-8 (input: 0-4-0), 2=666/0-1-8 (input: 0-4-0)
Max Horz 2=39(LC 3)
Max Uplift 7=345(LC 4), 2=424(LC 3)

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

TOP CHORD 2-3=1893/1139, 3-4=2839/1741, 4-5=2839/1741, 5-6=394/242
BOT CHORD 2-10=1110/1816, 9-10=1123/1822, 8-9=1380/2245, 7-8=1380/2245
WEBS 3-9=639/1032, 5-9=366/603, 5-7=1879/1155

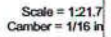
NOTES (8)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 7=345, 2=424.
- 5) Girder carries hip end with 0-0-0 right side setback, 3-0-0 left side setback, and 3-0-0 end setback.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 19 lb up at 3-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) 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, 3-6=63(F=9), 2-7=12(F=2)
Concentrated Loads (lb)
Vert: 3=41(F)

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LOAD CASE(S) Standard
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 3-5=-63(F=9), 2-8=-10, 6-8=-12(F=-2)
 Concentrated Loads (lb)
 Vert: 8=-48(F)

Job 298682	Truss T14	Truss Type MONO HIP	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682033 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7,110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:27 2009 Page 1		

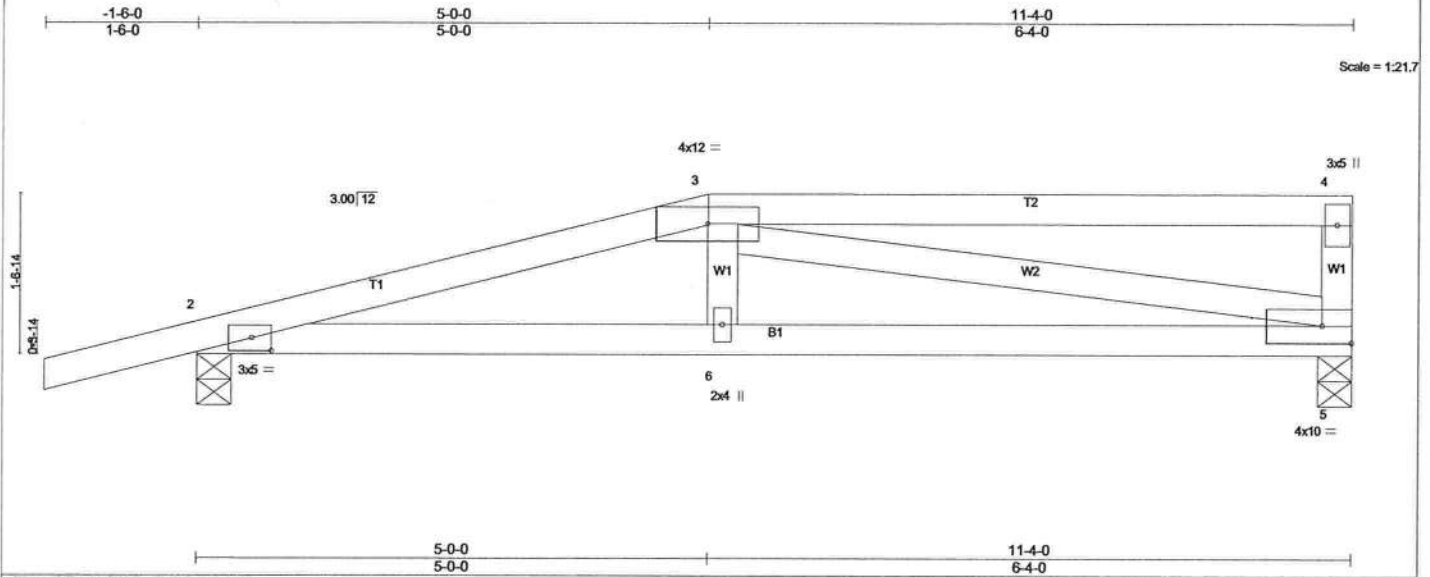


Plate Offsets (X,Y): [2-0-2-4,0-1-8]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.26	Vert(LL) 0.12 5-6 >999 360	Weight: 48 lb	
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Vert(TL) -0.07 6 >999 240		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Horz(TL) -0.02 5 n/a n/a		

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 5-3-11 oc bracing.

REACTIONS (lb/size) 5=346/0-1-8 (input: 0-4-0), 2=449/0-1-8 (input: 0-4-0)
Max Horz 2=59(LC 6)
Max Uplift 5=233(LC 4), 2=309(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=862/1326, 3-4=189/291
BOT CHORD 2-6=1316/804, 5-6=1350/809
WEBS 3-6=296/170, 3-5=636/1082

NOTES (6)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=233, 2=309.
6) 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

Job 298682	Truss T15	Truss Type MONO HIP	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682034 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7:110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:28 2009 Page 1		

Diagram Labels: T1, T2, W1, W2, B1, D4S-14, 3x5 =, 4x12 =, 2x4 ||, 6, 2x4 ||, 5, 3x5 =.

Dimensions:
 Horizontal: -1-6-0 / 1-6-0, 7-0-0 / 7-0-0, 11-4-0 / 4-4-0.
 Vertical: 2-0-14, 7-0-0 / 7-0-0, 11-4-0 / 4-4-0.

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.30	Vert(LL) 0.23 2-6 >569 360		
BCLL 0.0	Lumber Increase 1.25	WB 0.28	Vert(TL) -0.12 2-6 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.02 5 n/a n/a		
	Code FBC2007/TPI2002			Weight: 47 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 5-9-5 oc bracing.
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REACTIONS (lb/size) 5=346/0-1-8 (input: 0-4-0), 2=449/0-1-8 (input: 0-4-0)
 Max Horz 2=75(LC 4)
 Max Uplift 5=235(LC 4), 2=307(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=687/1013
 BOT CHORD 2-6=-1030/622, 5-6=-1060/628
 WEBS 3-6=-364/199, 3-5=-659/1121

NOTES (5)
 1) Wind: ASCE 7-05; 110mph (3-second gust); TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Provide adequate drainage to prevent water ponding.
 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 5=235, 2=307.
 5) 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

Job 298682	Truss T16	Truss Type MONO TRUSS	Qty 16	Ply 1	SPARKS / THOMAS RES. / ROOF 298682035 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7,110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:29 2009 Page 1		

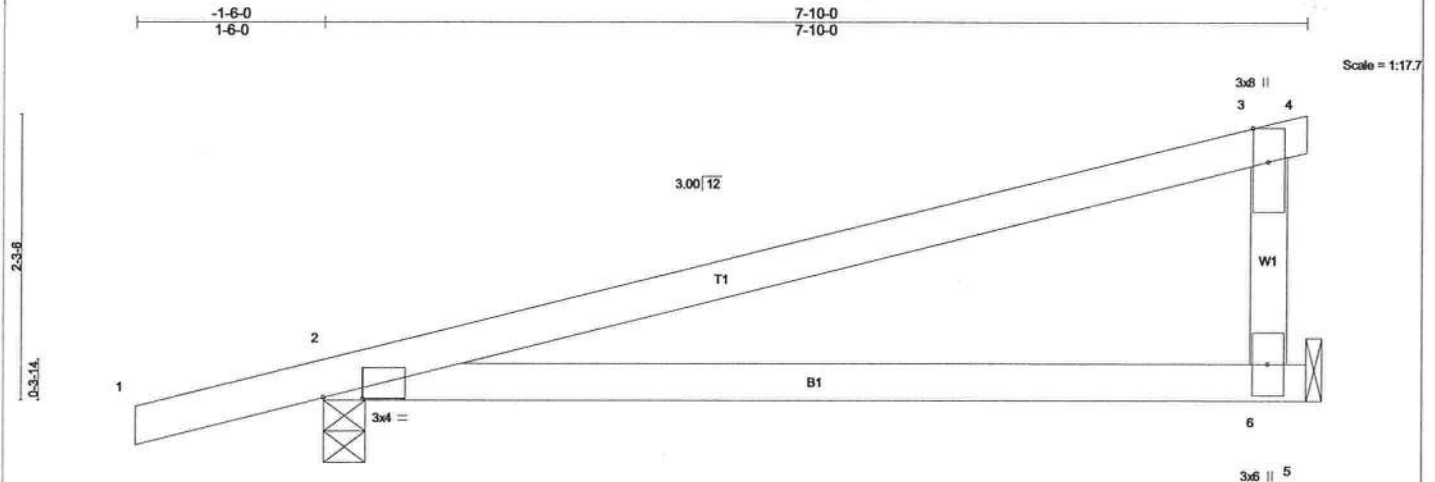


Plate Offsets (X,Y): [2:0-3-12,0-0-2]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.87	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.33	Vert(LL) 0.22 2-6 >402 360		
BCLL 0.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.12 2-6 >756 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 6 n/a n/a		
	Code FBC2007/TP12002			Weight: 29 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 6=233/Mechanical, 2=336/0-1-8 (input: 0-4-0)
Max Horz 2=81(LC 4)
Max Uplift 6=161(LC 4), 2=228(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=231/275
BOT CHORD 2-6=327/178

- NOTES** (5)
- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 6=161, 2=228.
 - 5) 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

Job 298682	Truss T18	Truss Type MONO HIP	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682037 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7,110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:30 2009 Page 1		

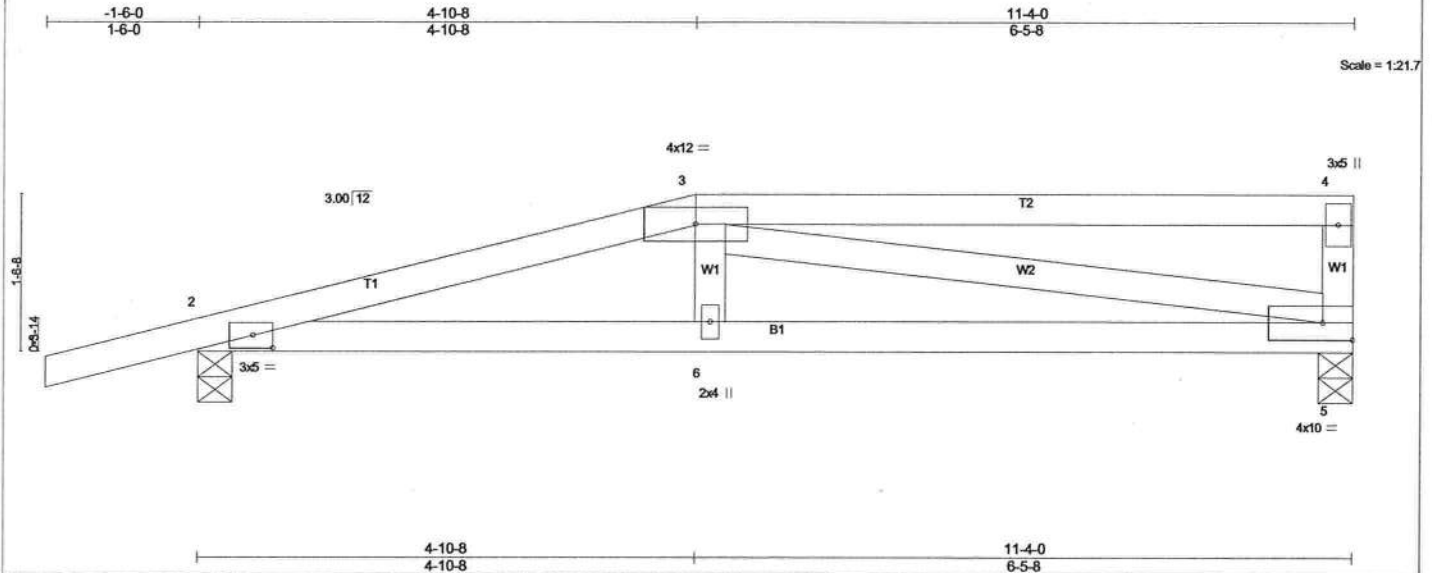


Plate Offsets (X,Y): [2-0-2-4,0-1-8]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.64	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.27	Vert(LL) 0.13 5-6 >998 360	Weight: 48 lb	
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Vert(TL) -0.07 5-6 >999 240		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Horz(TL) -0.02 5 n/a n/a		

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 5-3-1 oc bracing.

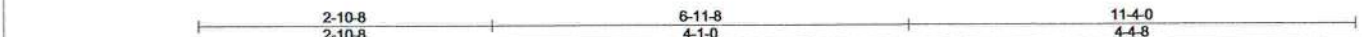
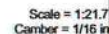
REACTIONS (lb/size) 5=346/0-1-8 (input: 0-4-0), 2=449/0-1-8 (input: 0-4-0)
Max Horz 2=58(LC 6)
Max Uplift 5=232(LC 4), 2=309(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=875/1348, 3-4=203/315
BOT CHORD 2-6=1336/817, 5-6=1371/822
WEBS 3-6=294/169, 3-5=633/1076

NOTES (6)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 5=232, 2=309.
6) 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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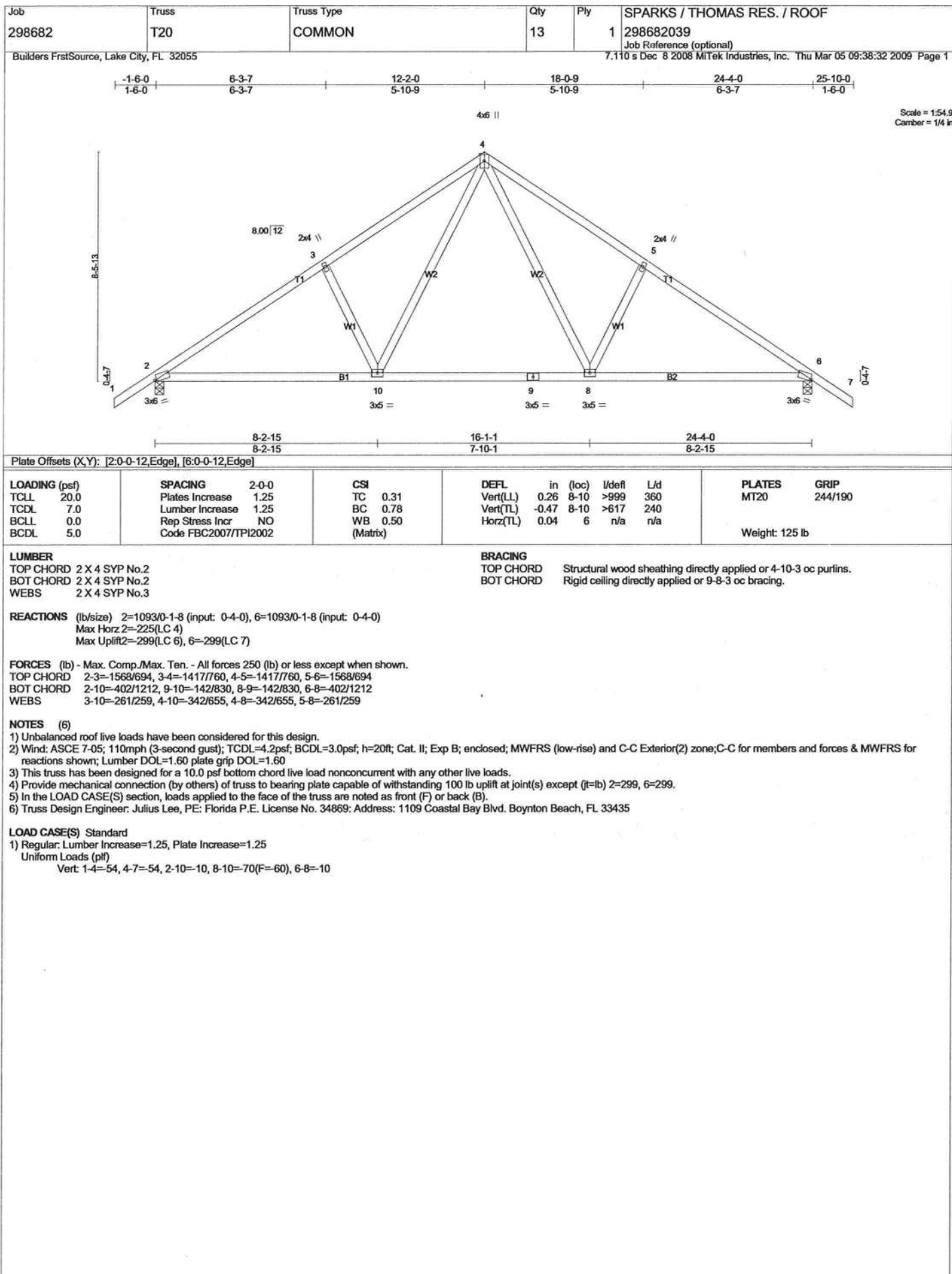
LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl l/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.46	Vert(LL) 0.10 7-8 >999 360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.41	Vert(TL) -0.14 7-8 >950 240		
BCLL 0.0	Rep Stress Incr NO	WB 0.35	Horz(TL) 0.02 6 n/a n/a		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)			
				Weight: 50 lb	

TOP CHORD	Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-10-7 oc bracing.

NOTES (9)

- 1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDF=4.2psf, h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=249, 2=329.
6) Girder carries hip end with 0-0-0 right side setback, 2-10-8 left side setback, and 2-10-8 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 42 lb down and 13 lb up at 2-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) Truss Design Engineer: Julius Lee, PE; Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=54, 3-5=61(F=7), 2-8=10, 6-8=11(F=1)
Concentrated Loads (lb)
Vert: 8=42(F)



Job 298682	Truss T20G	Truss Type GABLE	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682040 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:33 2009 Page 1		

Scale = 1:54.3

LOADING (psf)		SPACING		CSI	DEFL.				PLATES		GRIP
						in	(loc)	I/defl	L/d		
TCLL	20.0	Plates Increase	1.25	TC	0.00	14	n/r	120	MT20	244/190	
TCDL	7.0	Lumber Increase	1.25	BC	0.00	15	n/r	90			
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	14	n/a	n/a			
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)							
Weight: 160 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 OTHERS 2 X 4 SYP No.3	BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
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REACTIONS All bearings 24-4-0.
 (lb) - Max Horz 2=276(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 22, 25, 19, 16 except 2=102(LC 6), 14=132(LC 7), 23=112(LC 6), 24=160(LC 6), 18=114(LC 7), 17=172(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 23, 24, 25, 19, 18, 17, 16

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

NOTES (9)

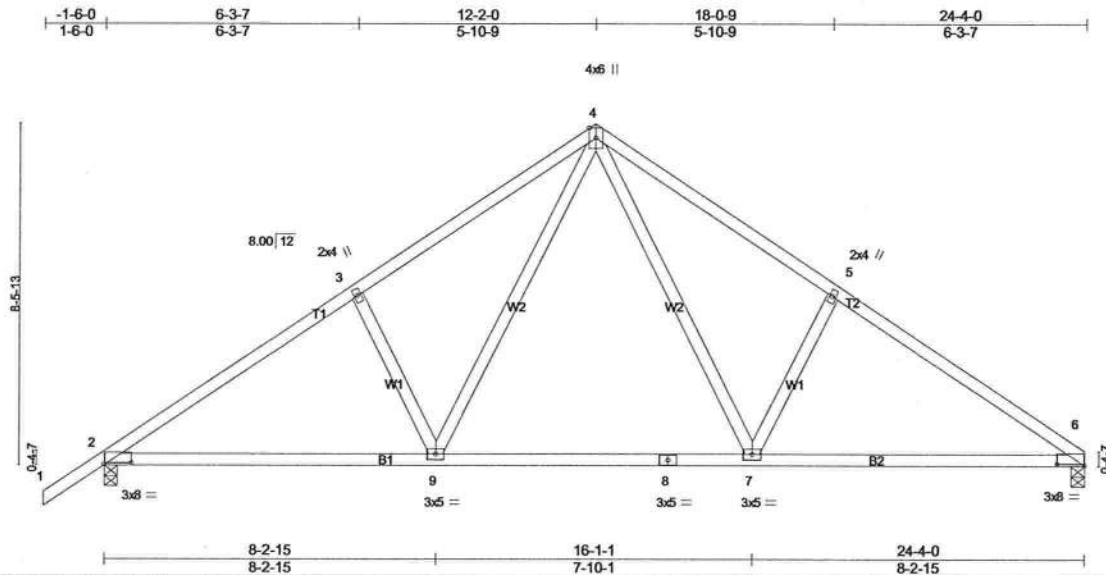
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 25, 19, 16 except (it=lb) 2=102, 14=132, 23=112, 24=160, 18=114, 17=172.
- 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

Job 298682	Truss T21	Truss Type COMMON	Qty 3	Ply 1	SPARKS / THOMAS RES. / ROOF 298682041 Job Reference (optional)
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Builders FrstSource, Lake City, FL 32055

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Scale = 1:55.0
Camber = 1/4 in

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

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.79	Vert(LL) 0.25 7-9 >999 360		
BCLL 0.0	Lumber Increase 1.25	WB 0.53	Vert(TL) -0.46 7-9 >624 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.04 6 n/a n/a		
	Code FBC2007/TPI2002			Weight: 122 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 4-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-8-0 oc bracing.

REACTIONS

(lb/size) 6=1000/0-1-8 (input: 0-4-0), 2=1096/0-1-8 (input: 0-4-0)
Max Horz 2=244(LC 5)
Max Uplift 6=225(LC 7), 2=299(LC 6)

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

TOP CHORD 2-3=1573/702, 3-4=1422/768, 4-5=1433/783, 5-6=1582/715
BOT CHORD 2-9=471/1217, 8-9=212/835, 7-8=212/835, 6-7=488/1228
WEBS 3-9=262/260, 4-9=340/655, 4-7=366/671, 5-7=270/271

NOTES (6)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 6=225, 2=299.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 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: 1-4=54, 4-6=54, 2-9=10, 7-9=70(F=60), 6-7=10

Job 298682	Truss T21G	Truss Type GABLE	Qty 1	Ply 1	SPARKS / THOMAS RES. / ROOF 298682042 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:36 2009 Page 1		

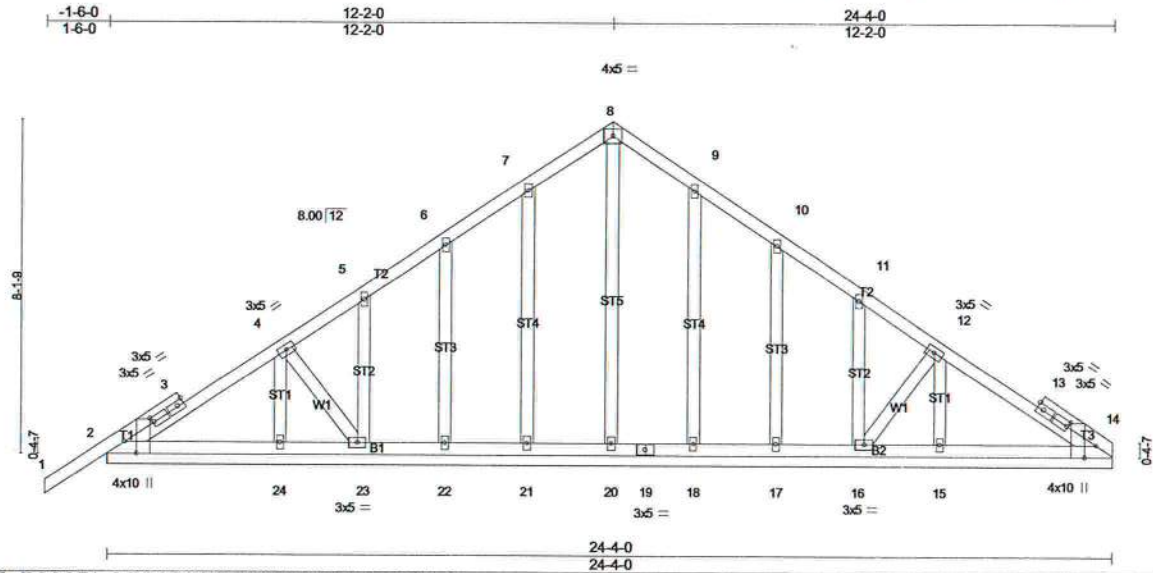


Plate Offsets (X,Y): [2:0-3-8,Edge], [3:0-0-5,0-1-8], [13:0-0-5,0-1-8], [14:0-3-8,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.14	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.07	Vert(TL)	0.00	1	n/r	90		
BCLL 0.0	Rep Stress Incr	YES	WB 0.14	Horz(TL)	0.01	14	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)							
										Weight: 158 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
OTHERS 2 X 4 SYP No.3

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

REACTIONS All bearings 24-4-0.
(lb) - Max Horz 2=293(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 24, 18, 15 except 22=112(LC 6), 23=160(LC 6), 17=118(LC 7), 16=135(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 18, 17, 16 except 15=286(LC 11)

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

NOTES (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 24, 18, 15 except (t=lb) 22=112, 23=160, 17=118, 16=135.
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

Job 298682	Truss T22	Truss Type SPECIAL	Qty 5	Ply 1	SPARKS / THOMAS RES. / ROOF 298682043 Job Reference (optional)
Builders FrstSource, Lake City, FL 32055			7.110 s Dec 8 2008 MiTek Industries, Inc. Thu Mar 05 09:38:37 2009 Page 1		

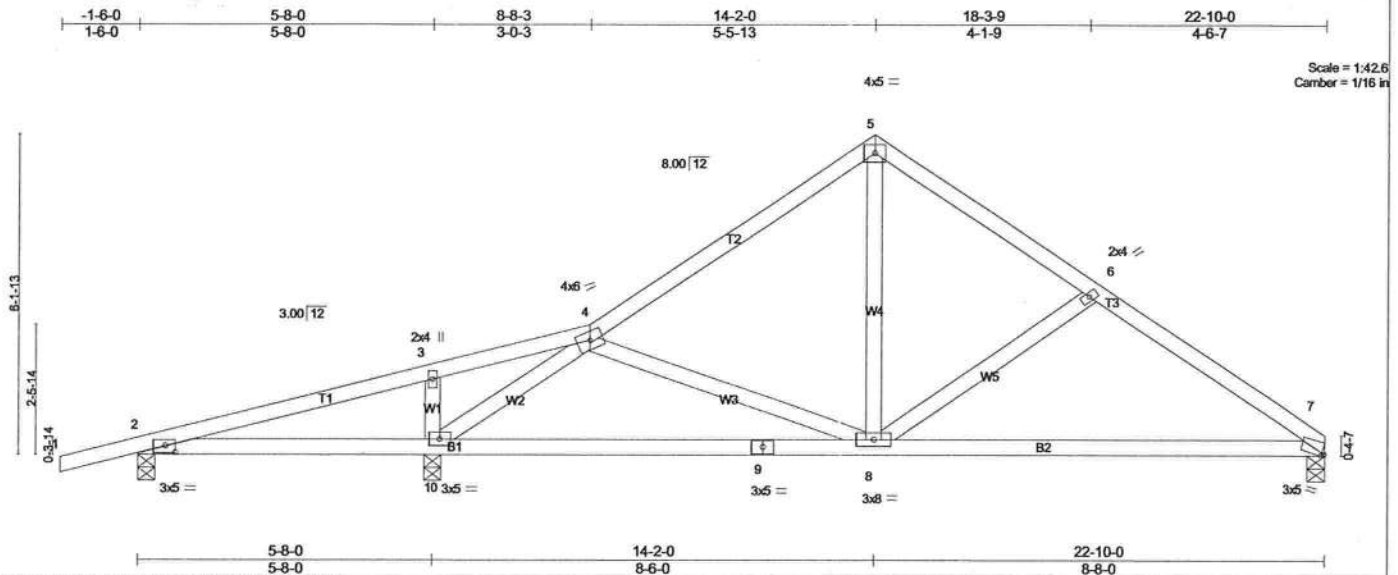


Plate Offsets (X,Y): [2-0-2-4,0-1-8], [7-0-0-12,Edge]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.34	Vert(LL) 0.07 2-10 >898 360		
BCLL 0.0	Lumber Increase 1.25	WB 0.23	Vert(TL) -0.17 7-8 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2007/TPI2002			Weight: 106 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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 7=518/0-1-8 (input: 0-4-0), 2=200/0-1-8 (input: 0-4-0), 10=811/0-1-8 (input: 0-4-0)
Max Horz 2=169(LC 5)
Max Uplift 7=110(LC 7), 2=238(LC 4), 10=263(LC 6)
Max Grav 7=518(LC 1), 2=214(LC 10), 10=811(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=550/272, 5-6=530/288, 6-7=717/336
BOT CHORD 9-10=205/484, 8-9=205/484, 7-8=204/553
WEBS 4-10=822/411, 5-8=113/311

NOTES (5)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 7=110, 2=238, 10=263.
5) 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

Job: 298682 Truss: T22G Truss Type: GABLE Qty: 1 Ply: 2 SPARKS / THOMAS RES. / ROOF

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Scale = 1/43.5 Camber = 3/16 in

Plate Offsets (X,Y): [2-0-5-8,Edge], [9-0-3-6,0-1-8], [9-0-0-4,0-9-6], [13-0-3-8,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.78	TC (LL)	0.23	9-11	>877	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.97	Vert(TL)	-0.33	9-11	>610	240		
BCLL 0.0	Rep Stress Incr	NO	WB 0.71	Horz(TL)	0.03	9	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002		(Matrix)							
									Weight: 266 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 "Except"
T4: 2 X 4 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=202/0-1-8 (input: 0-4-0), 9=4019/0-2-6 (input: 0-4-0), 13=4876/0-2-14 (input: 0-4-0)
Max Horz 2=188(LC 4)
Max Uplift 2=362(LC 10), 9=2440(LC 6), 13=2966(LC 5)
Max Grav 2=175(LC 8), 9=4019(LC 1), 13=4876(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=556/809, 3-4=550/859, 4-5=523/865, 5-6=4281/2563, 6-7=4318/2594, 7-8=4733/2814, 8-9=4830/2815
BOT CHORD 2-13=826/605, 12-13=2218/3733, 11-12=2218/3733, 9-11=2428/4246
WEBS 5-13=5278/3172, 6-11=2703/4458, 7-11=864/599

NOTES (10)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=362, 9=2440, 13=2966.
9) Girder carries tie-in span(s): 28-4-0 from 5-8-0 to 22-10-0
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
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=54, 5-6=54, 6-10=54, 2-13=10, 9-13=426(F=416)

STEPPDOWN CORNER SET

TOP CHORD 2X4 SO. PINE #2 or Better
BOT CHORD 2X4 SO. PINE #2 or Better
WEBS 2X4 SO. PINE #3 or Better

120 MPH MAX

Setback 7' or Less

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.

UPLIFT: 400# or Less

BRG LOC: *

UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED. TILE

UPLIFT: 400# or Less

BRG LOC: *

UPLIFT BASED ON 15.0 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.

UPLIFT: 400# or Less

BRG LOC: *

UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "B" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

2' TYP. MAX

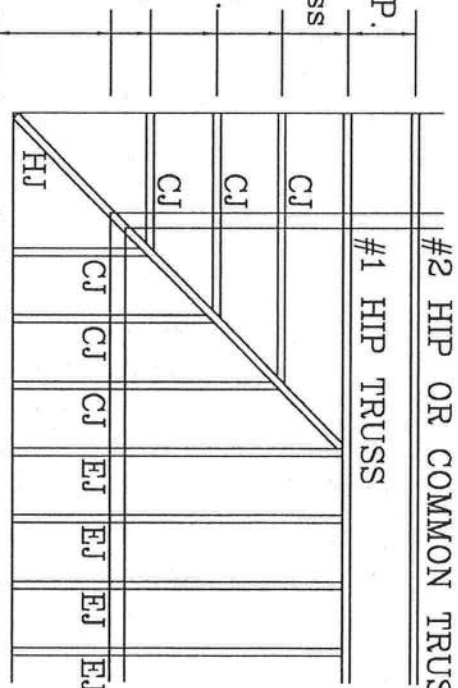
#2 HIP OR COMMON TRUSS

#1 HIP TRUSS

CJ's
2' TYP. MAX

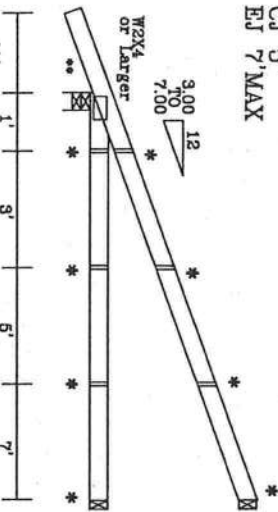
1'

2' O.H. 1' MAX
CJ's
2' TYP. MAX



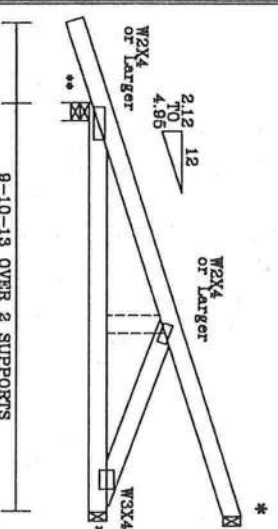
CJ 1'
CJ 3'
CJ 5'
EJ 7' MAX

ALL HEELS TO BE STANDEAR WITH NO CANTILEVER



END AND CORNER JACKS

HJ ALL HEELS TO BE STANDEAR WITH NO CANTILEVER



HIPJACK

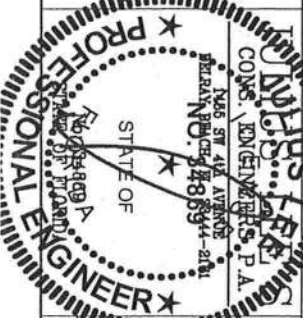
(3) 16d TOENAILS
** SEE FOR FOR THE DOWN

UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED
BC LIVE LOAD IS NON CONCURRENT 10*

CORNER SET
SETBACK
7'0" MAX

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31-1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 DUNFORD DR., SUITE 200, HANOVER, VA 22060, FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. ALL TRUSSES SHALL BE PROPERLY ATTACHED TO THE BUILDING STRUCTURE. PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. ALL TRUSSES SHALL BE SPEC BY ALPINE AND THE ALPINE CONNECTIONS SHALL BE MADE OF 6061 T6 ALUMINUM. THE DESIGN SPEC 40/60 GY/ALUM GUY STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY CD SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



ITEM	QTY	UNIT	PSF	REF
1	20	MAX PSF	7' MAX STBK CS	
2	20	MAX PSF		
3	10	MAX PSF		
4	5	MAX PSF		
5	10	MAX PSF		
6	5	MAX PSF		
7	1.25	MAX PSF		
8	1.25	MAX PSF		
9	1.25	MAX PSF		
10	1.25	MAX PSF		
11	1.25	MAX PSF		
12	1.25	MAX PSF		
13	1.25	MAX PSF		
14	1.25	MAX PSF		
15	1.25	MAX PSF		
16	1.25	MAX PSF		
17	1.25	MAX PSF		
18	1.25	MAX PSF		
19	1.25	MAX PSF		
20	1.25	MAX PSF		

REVIEWED
By Julius Lee at 10:52 am, Jun 27, 2008

MAX GABLE VERTICAL LENGTH															
CABLE VERTICAL SPACING	2X4 SPECIES	BRACE	NO BRACED	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X8 "L" BRACE **			
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B		
24" O.C.	SPF	#1 / #2	3' 4"	6' 10"	8' 0"	6' 11"	7' 1"	8' 3"	8' 8"	10' 10"	11' 2"	12' 11"	13' 3"		
			#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"	
			STUD	3' 3"	4' 11"	4' 11"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"	
		HF	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"		
			STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"	
			#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"	
	SP	#2	3' 7"	6' 10"	6' 3"	6' 11"	7' 6"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"		
			#3	3' 6"	5' 0"	6' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 4"	10' 4"	12' 11"	13' 7"	
			STUD	3' 6"	5' 0"	6' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 3"	10' 3"	12' 11"	13' 7"	
		DFL	STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 8"	7' 8"	8' 10"	8' 10"	12' 0"	12' 0"	
			#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	8' 6"	8' 8"	12' 6"	12' 6"	14' 0"	14' 0"	
			#3	3' 8"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"	
16" O.C.	SPF	STUD	3' 9"	5' 8"	6' 2"	7' 11"	7' 11"	9' 6"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
			STANDARD	3' 9"	5' 8"	6' 2"	7' 11"	7' 11"	9' 6"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"	
			#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	
		HF	STUD	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	
			STANDARD	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	
			#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	
	SP	STUD	4' 0"	6' 8"	6' 2"	7' 11"	8' 1"	8' 6"	9' 6"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"	
			STANDARD	4' 0"	6' 8"	6' 2"	7' 11"	8' 1"	8' 6"	9' 6"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"
			#1	4' 0"	6' 8"	6' 2"	7' 11"	8' 1"	8' 6"	9' 6"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"
		DFL	STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	8' 11"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"	
			#1 / #2	4' 8"	7' 4"	7' 4"	8' 9"	8' 11"	10' 6"	10' 6"	13' 8"	14' 0"	14' 0"	14' 0"	
			#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 6"	13' 6"	14' 0"	14' 0"	
HF	STUD	4' 2"	6' 11"	6' 11"	8' 10"	7' 10"	8' 10"	10' 6"	10' 6"	12' 3"	12' 3"	14' 0"	14' 0"		
		STANDARD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	14' 0"	14' 0"	14' 0"		
		#1	4' 8"	7' 4"	7' 4"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	14' 0"	14' 0"	14' 0"		
	SP	#2	4' 7"	7' 4"	7' 4"	8' 9"	8' 9"	10' 6"	1						

GROUP A:	
SPRINGER-PINE-TBR	NECK-TBR
#1 / #2	#1 / #2
STANDARD	STANDARD
#3	#3
STUD	STUD
DOLGAS FIR-LARGE	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:	
RED-PIR	
PI & BIR	
#1	
DOUGLAS FIR-LARGE	
#1	
#2	
SOUTHERN PINE	
#1	
#2	

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
 PROVIDE V-LET CONNECTIONS FOR 136 PLF OVER
 CONTINUOUS BEARING (6 PER VC DEAD LOAD).
 CABLE END SUPPORTS LOAD FROM 4" O"
 OUTLOGGERS WITH 2" O" OVERHANG, OR 12"
 PLYWOOD OVERHANG.

T- BRACING MUST BE A MINIMUM OF 80% OF THE MEMBER LENGTH.

CARBIDE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO STYLUS
LESS THAN 4" 0"	1XL OR 2XS
GREATHER THAN 4" 0", BUT LESS THAN 11" 8"	2XL
GREATHER THAN 11" 8"	2.5XL

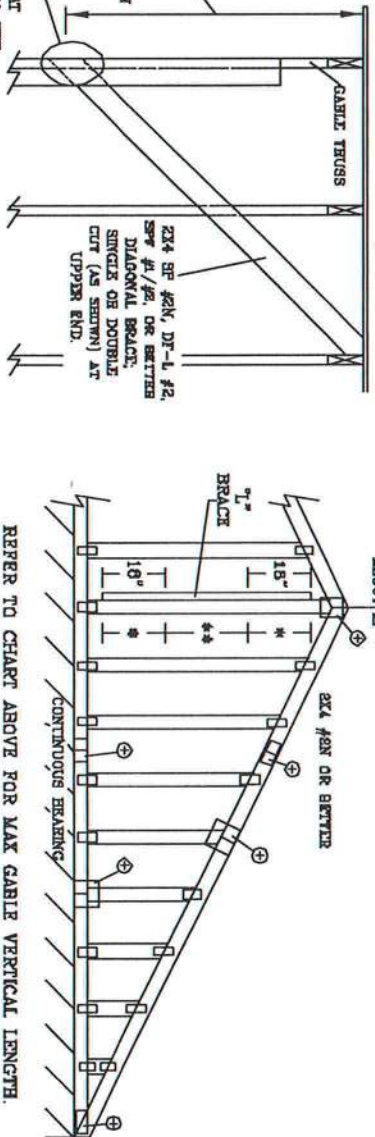
+ REFERS TO COMBON THRUSS DESIGN FOR
PEAK, SPLICE, AND BEEL PLATES.

CONNECT DIAGONAL AT

VERTICAL LENGTH SHOWN
IN TABLE ABOVE.

VERTICAL WEB.

DIAGONAL BRACE:
SINGLE OR DOUBLE
CUT (AS SHOWN) AT
UPPER END.



DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR EACH
AT EACH END. MAX WEB
TOTAL LENGTH IS 14".

[illegible]

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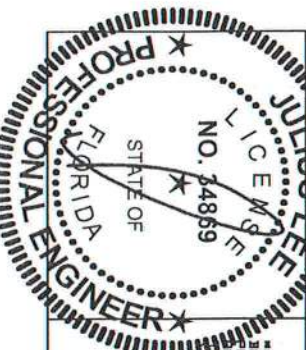
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

REF	ASCE7-02-CAB13015
DATE	11/26/03
DRWG	MTDX STD CABLS 15 E HT
-ENG	

MAX. TOT. LD. 60 PSF

No. 34869
STATE OF FLORIDA

REVIEWED
By julius lee at 12:00 pm, Jun 11, 2008



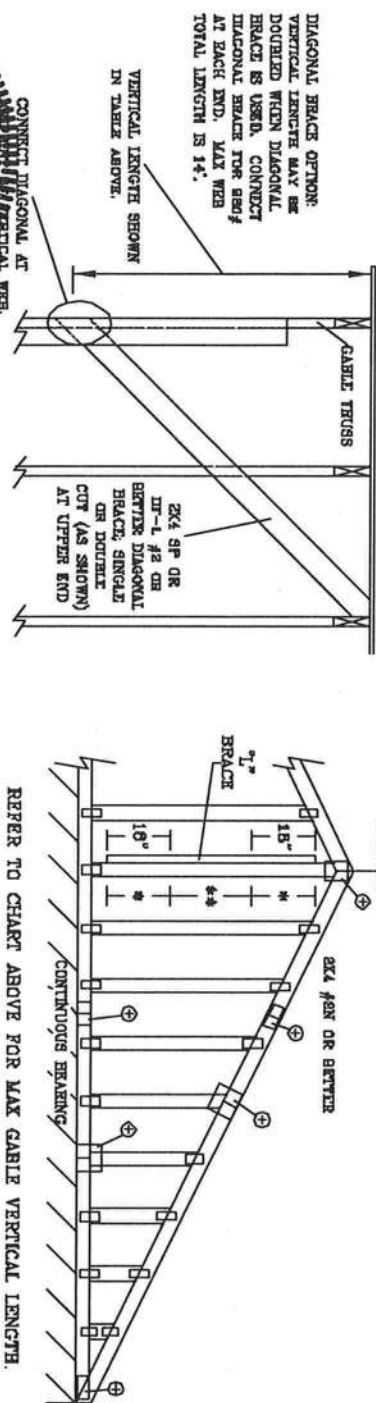
MAX GABLE VERTICAL LENGTH																	
CABLE VERTICAL SPACING	BRACE SPECIES	BRACE GRADE	NO. BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE *		(2) 2X8 "L" BRACE *			
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B				
24" O.C.	SPF	#1 / #2	#1	3' 2"	5' 6"	6' 8"	6' 6"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"	12' 3"	12' 7"	
			#3	3' 1"	4' 5"	4' 5"	6' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"	12' 3"	
		HF	STUD	3' 1"	4' 6"	4' 5"	5' 10"	6' 10"	6' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"	12' 3"
			STANDARD	2' 11"	3' 9"	3' 9"	6' 0"	5' 0"	6' 9"	6' 9"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	12' 3"
		SP	#1	3' 6"	5' 6"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	11' 1"	12' 3"	13' 2"	13' 2"	13' 2"
			#2	3' 6"	5' 6"	5' 11"	6' 6"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	11' 1"	12' 3"	13' 2"	13' 2"	13' 2"
	DFL	#3	STUD	3' 3"	4' 6"	4' 6"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 3"	12' 3"	12' 3"	
			STANDARD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 3"	12' 3"	12' 3"	
		SPF	#1 / #2	STUD	3' 0"	3' 10"	3' 10"	6' 1"	5' 1"	6' 11"	8' 0"	8' 0"	10' 10"	10' 10"	14' 0"	14' 0"	
			#3	3' 8"	6' 4"	6' 6"	7' 6"	7' 6"	8' 11"	9' 2"	11' 9"	12' 1"	12' 1"	14' 0"	14' 0"		
		HF	STUD	3' 7"	5' 6"	5' 5"	7' 2"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"		
			STANDARD	3' 7"	5' 6"	5' 5"	7' 2"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"		
16" O.C.	SPF	#1	STUD	4' 0"	6' 4"	4' 8"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	8' 7"	13' 1"	12' 11"	14' 0"	14' 0"	
			STANDARD	4' 0"	6' 4"	6' 10"	7' 6"	6' 1"	8' 11"	8' 7"	11' 9"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
		SP	#2	3' 11"	8' 4"	8' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
			#3	3' 8"	5' 7"	6' 7"	7' 3"	7' 4"	7' 3"	8' 11"	9' 6"	11' 5"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		DFL	STUD	3' 8"	5' 6"	5' 6"	7' 3"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
			STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	6' 3"	8' 5"	9' 5"	9' 9"	9' 9"	13' 3"	13' 3"	13' 3"	13' 3"
	SPF	#1 / #2	STUD	4' 0"	6' 11"	6' 11"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"	
			STANDARD	4' 0"	6' 11"	7' 2"	6' 3"	6' 6"	8' 6"	9' 10"	10' 1"	12' 11"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		HF	#3	3' 11"	8' 3"	6' 3"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"	
			STUD	3' 11"	8' 3"	6' 3"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"	
		DFL	STUD	3' 11"	8' 3"	6' 3"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"	
			STANDARD	3' 11"													

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
 PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER
 CONTINUOUS BEARING (6 PSF TC DEAD LOAD).
 CABLE END SUPPORTS LOAD FROM 4" 0"
 OUTLOOKERS WITH 3" 0" OVERHANG, OR 12"
 PLYWOOD OVERHANG.

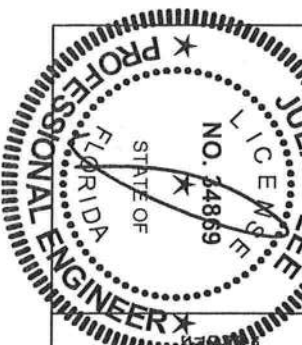
ATTACH EACH T¹ BRACE WITH 104 NAILS.
* FOR (1) T¹ BRACE, SPACE NAILS AT 8" O.C.
IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) T¹ BRACES: SPACE NAILS AT 3" O.C.
IN 18" END ZONES AND 8" O.C. BETWEEN ZONES.
T¹ BRACING MUST BE A MINIMUM OF 60% OF THE
MEMBER LENGTH.

GALE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICING
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COLUMN TIE-UP DESIGN FOR
FRAM, SPLICE, AND HEEL PLATES.



AWARDING#4. TESSIS RECEIVED EXTENSIVE CARE IN FACTORYING, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. REFER TO BOST 1-43 QUALITY CONTROL CONTRACTS INTERNATIONAL, PUBLISHED BY THE TESSIS RESEARCH INSTITUTE, 318 JOURNALIST RD, SUITE 200, WARREN, MI 48091 AND VICA (400) TRUSS CONSULTING, 6600 ENTERPRISE LAY, MADISON, WI 53719 FOR SPECIFIC PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP COATS SHALL HAVE PLASTERED AND PAINTED SURFACES. MULTIPLE PANELS AND BATTON COATS SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.



REVIEWED
By Julius Lee at 12:00 pm, Jun 11, 2008

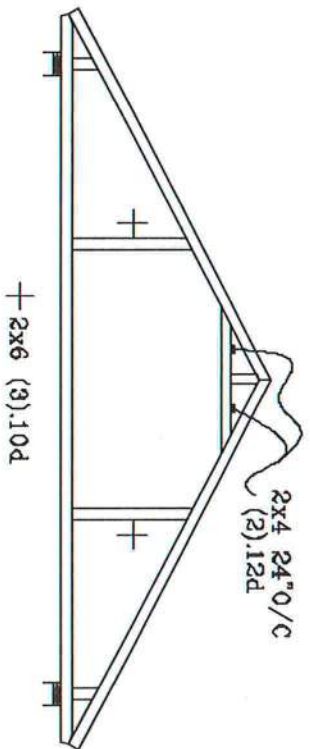
JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELBAY BEACH, FL. 33444-2101

No: 34869
STATE OF FLORIDA

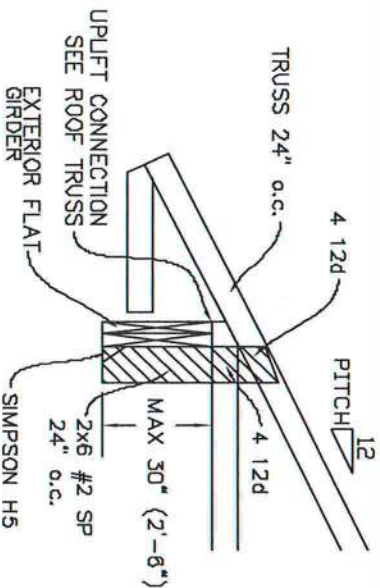
MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF	ASC87-02-GAH130300
DATE	11/26/03
DWG	MATK STD GAHLE 30' E HT
-ENG	

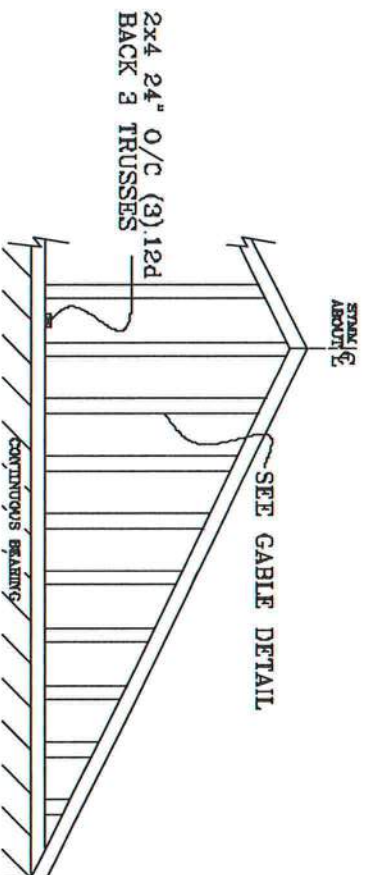
TYPICAL ATTIC TRUSS BRACING



TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

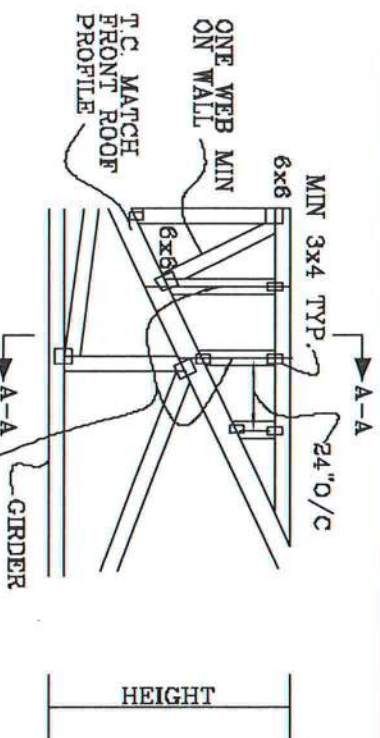


GABLE END TRUSS DETAIL



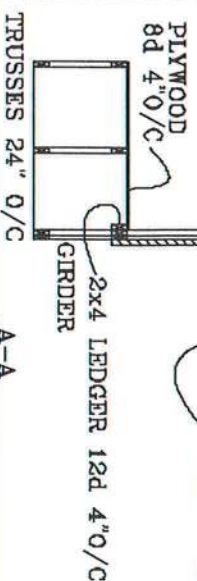
MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOB

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL

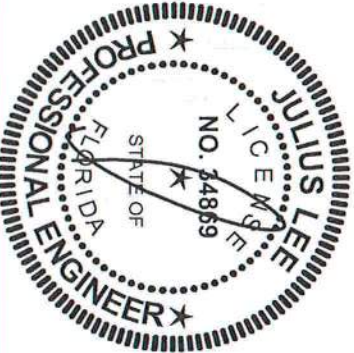


A-A

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STATE OF FLORIDA

JULIUS LEE'S
CONS. ENGINEERS P.A.

1405 SW 41st AVENUE
DIKRA BEACH, FL 33444-2161



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.
TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

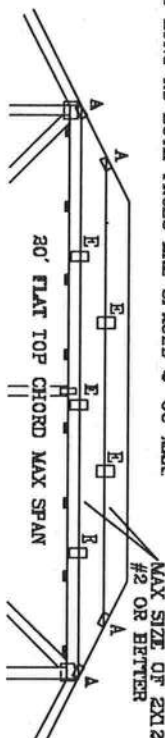
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT I, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

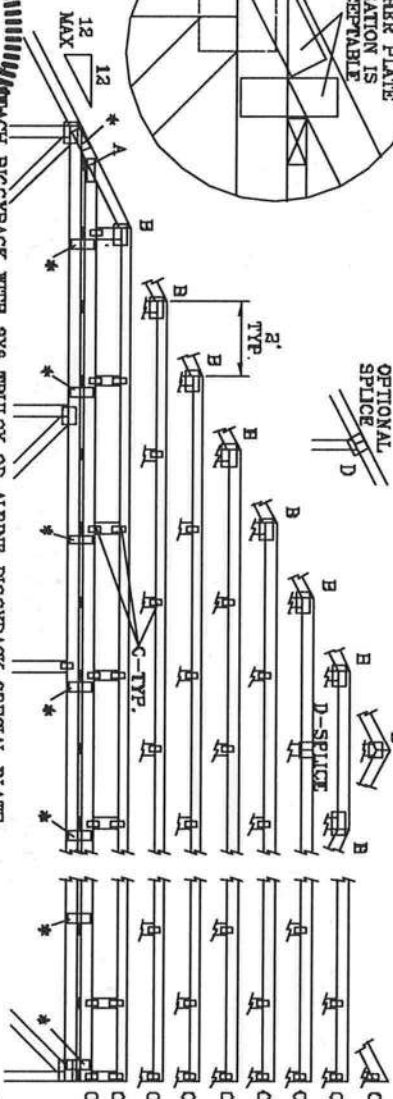
110 MPH WIND, 30' MEAN HGT, ENCLOSURE BLDG, LOCATED ANYWHERE IN ROOF, CAT I, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

FRONT FACE (E*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

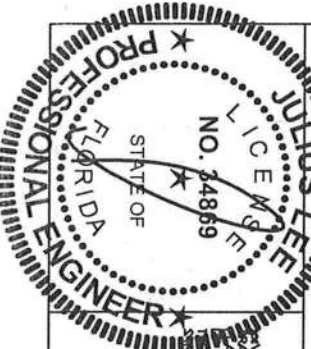


OPTIONAL
SPLICE
D



PIGGYBACK WITH 3X6 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

OVERLAPPING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN, FABRICATION, AND BRACING OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN, FABRICATION, AND BRACING OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN, FABRICATION, AND BRACING OF THE TRUSS.



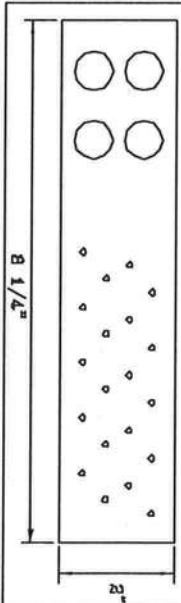
REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JOINT TYPE	SPANS UP TO		
	30'	36'	62'
A	2X4	2.6X4	3X6
B	4X6	6X6	6X6
C	1.5X3	1.6X4	1.5X4
D	5X4	6X6	6X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY		

ATTACH TRUSS PLATES WITH (B) 0.120" X 1.375" NAILS OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d NAILS AT 4' OC.
10' TO 14'	2X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

* PIGGYBACK SPECIAL PLATE
ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045

JULIUS LEE'S
CONS. ENGINEERS P.A.
1490 SW 4TH AVENUE
DEALY BEACH, FL 33441-2161

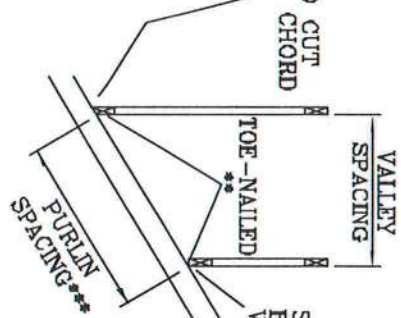
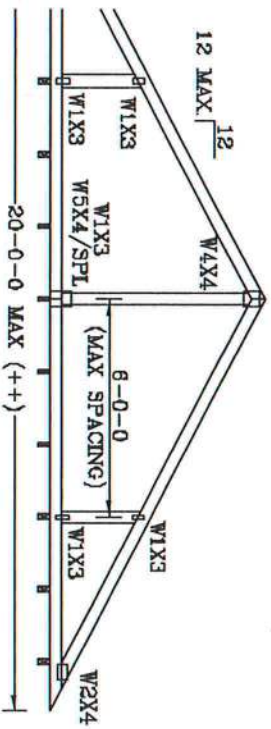
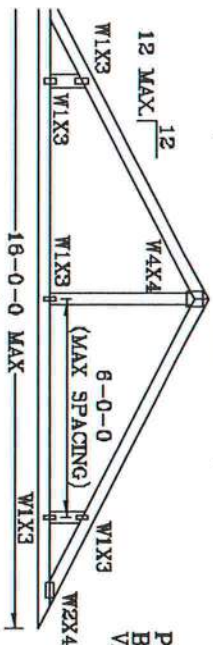
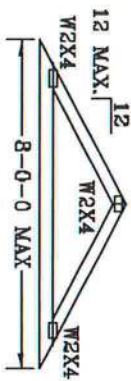
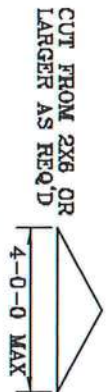
No. 34869
STATE OF FLORIDA

MAX LOADING	55 PSF AT 1.33 DUR. FAC. 50 PSF AT 1.25 DUR. FAC. 47 PSF AT 1.15 DUR. FAC.	REF PIGGYBACK
SPACING	24.0"	DATE 09/12/07 DRWG/ITEK STD PIGGY-ENG JL

VALLEY TRUSS DETAIL

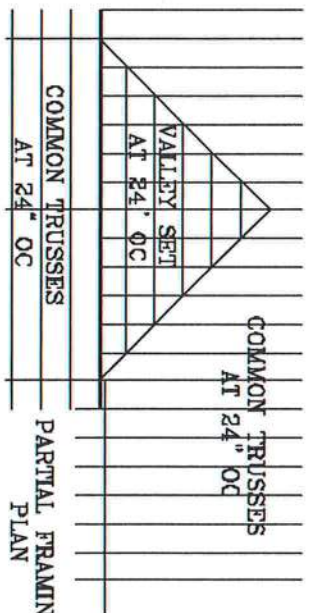
TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
 BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
 WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).
 ** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:
 (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR
 FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR
 ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED
 BUILDING. EXP. C. RESIDENTIAL, WIND TC D1-6 PSF.



SQUARE CUT
 BOTTOM CHORD
 VALLEY

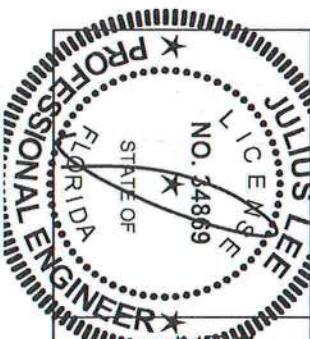
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS
 BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.
 ++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES
 NOT EXCEED 12'0".
 BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



OPTIONAL STUB
 END DETAIL

OPTIONAL HIP
 JOINT DETAIL

PARTIAL FRAMING
 PLAN



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
 BRACING. REFER TO DETAIL 1-10 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS
 ATE INSTITUTE, 580 DOWNSIDE DR., SUITE 200, MADISON, WI 53799 AND WTCI CIVIL TRUST COUNCIL
 AMERICA, 4200 ENTERPRISE LN, MADISON, WI 53799 FOR SAFETY PRACTICES PRIOR TO PERFORMING
 THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED
 STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
 By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
 CONS. ENGINEERS P.A.
 1455 SW 4TH AVENUE
 MIAMI BEACH, FL 33140-0901

No. 34869
 STATE OF FLORIDA

THIS DRAWING REPLACES DRAWING A105

TC IL	20	20	PSF	REF	VALLEY DETAIL
TC DL	7	15	PSF	DATE	11/26/03
BC DL	5	5	PSF	DRWG	VALTRUSS1103
BC IL	0	0	PSF	-ENG	JL
TOT. LD.	32	40	PSF		

DUR.FAC.1.25	1.25
SPACING	24"

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."

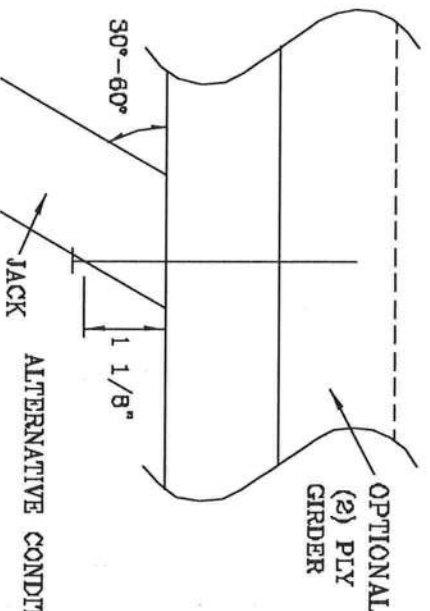
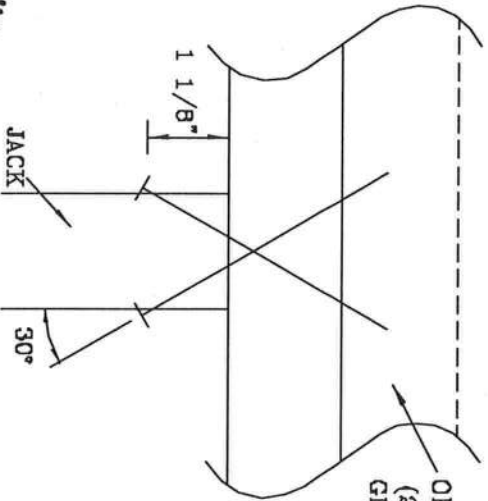
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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

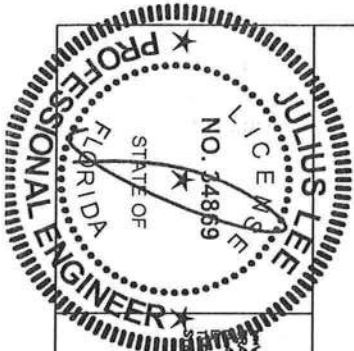
MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PILES	1 PLY	2 PILES	1 PLY	2 PILES	1 PLY	2 PILES
2	197#	256#	181#	234#	166#	203#	154#	189#
3	296#	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#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



THIS DRAWING REPLACES DRAWING 784040



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, STORING, DETAILING AND SPACING. REFER TO BEST PRACTICES FOR TRUSS CONSTRUCTION. PUBLISHED BY THE TRUSS STATE INSTITUTE, 788 PINEAPPLE RD., SUITE 200, NATION, VA 22079 AND VITA (WOOD TRUSS COUNCIL) 1800 N. 10TH AVE., SUITE 100, NATION, VA 22079. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TIP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BATTEN CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
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1490 ST 4TH AVENUE
DELRAY BEACH, FL 33444-2161

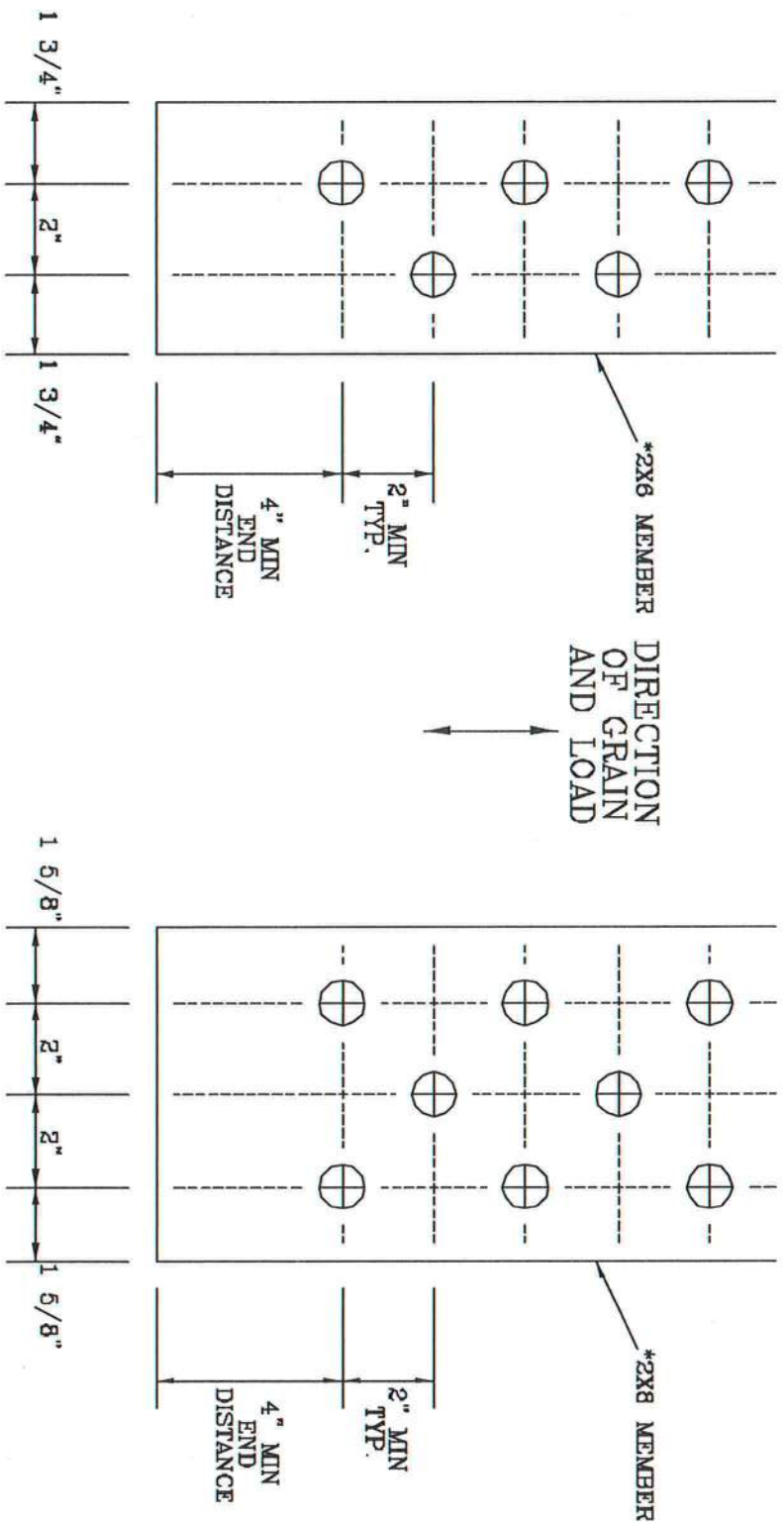
No. 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

1/2" 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.

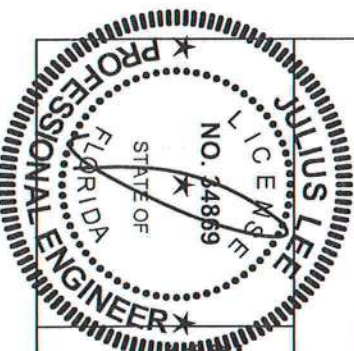
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A828.016



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND RIGGING. REFER TO BEST PRACTICES FOR TRUSS CONSTRUCTION, PUBLISHED BY THE TRUSS ASSOCIATION OF AMERICA, 6500 ENTERPRISE DR., SUITE 200, WOODBRIDGE, VA 22191 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PATTERN 1 AND BOTTOM CHORD SHALL HAVE A PATTERN 2 ATTACHED TO THE CHORD.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 SW 4TH AVENUE
DELRAY BEACH, FL 33444-2181

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLSP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

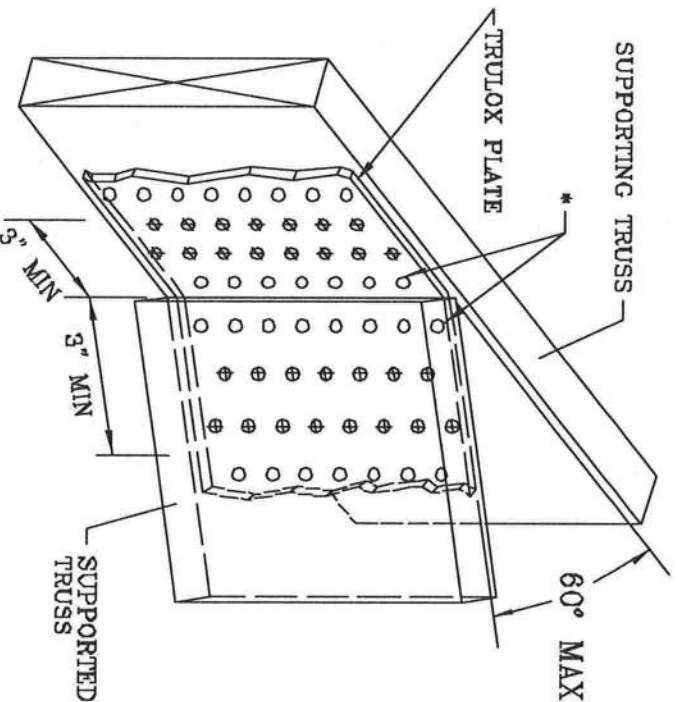
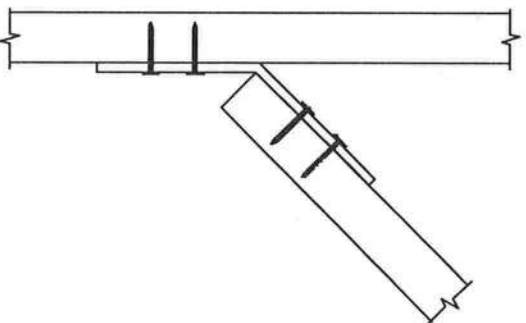
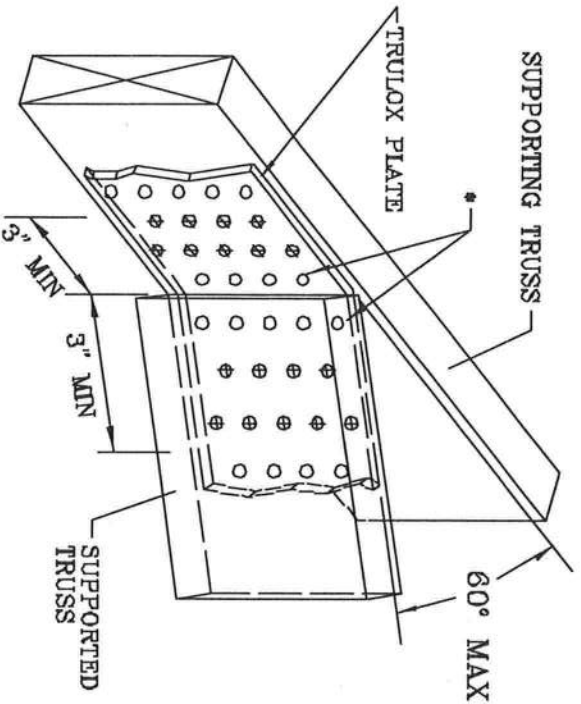
TRULOX CONNECTION DETAIL

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

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



MINIMUM 3X6 TRULOX PLATE

MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350 #
6X6	15	990 #

REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008

THIS DRAWING REPLACES DRAWINGS 1.158,988 1.158,988/R
1.154,844 1.152,217 1.152,017 1.159,154 & 1.151,524

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 2021 I-20 BUILDING CONSTRUCTION SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 385 JENNIFER DR., SUITE 201, WATSON, VT 55715 AND VITA CYCLO TRUSS COUNCIL, 6300 ENTERPRISE LN, WATSON, VT 55715 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2181

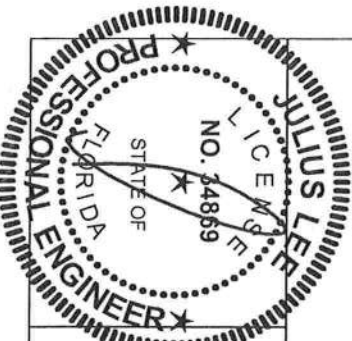
REF TRULOX

DATE 11/26/03

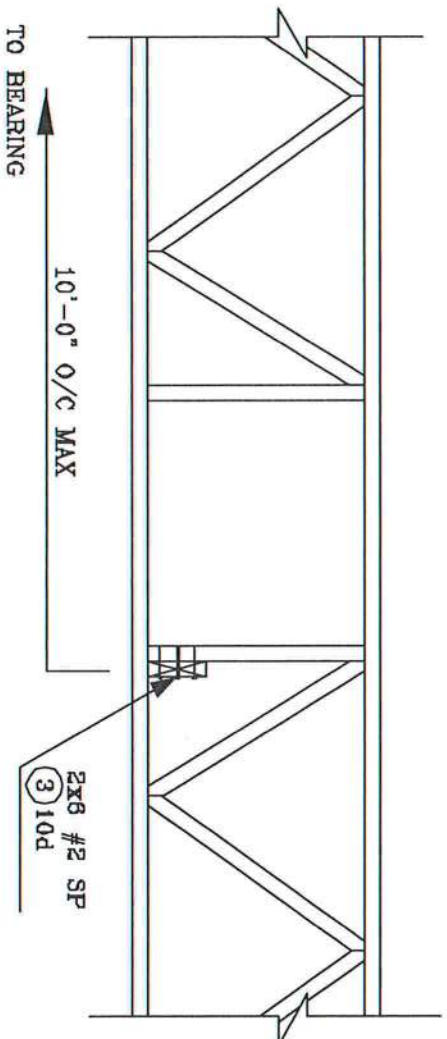
DRWG CNTRULOX1103

-ENG JL

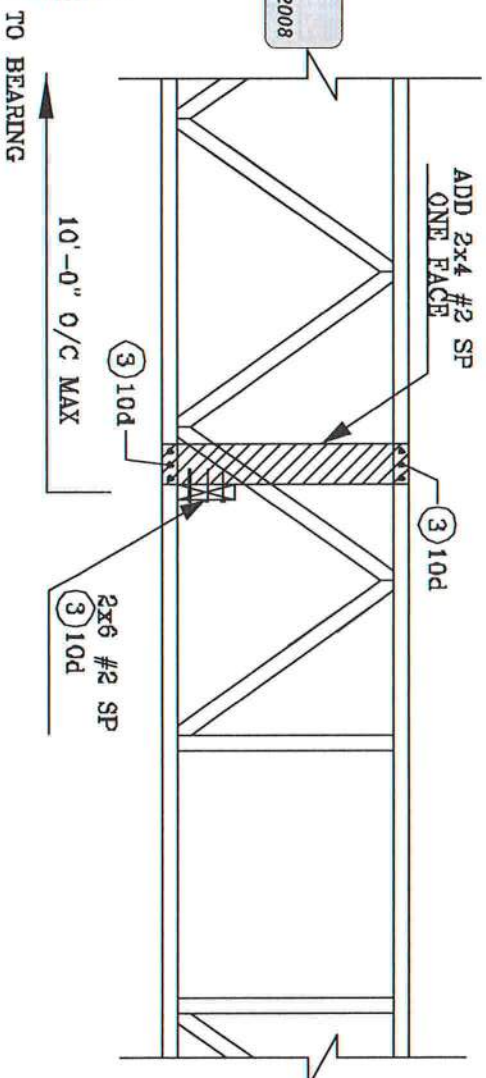
No: 34889
STATE OF FLORIDA



STRONG BACK DETAIL. SYSTEM-42 OR FLAT TRUSS

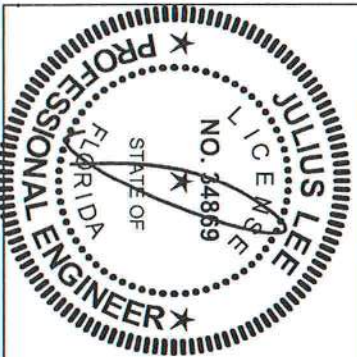


ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



REVIEWED

By Julius Lee at 11:58 am, Jun 11, 2008



JULIUS LEE'S
CONS. ENGINEERS P.A.
1434 SW 4th AVENUE
DIIRAT BEACH, FL 33441-2611

No. 34869
STATE OF FLORIDA

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	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
			3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 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		
1/2" 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 3 1/2" ⁽⁴⁾	2	24"	680	510	510	455		
		19.2"	850	640	640	565		
		16"	1,020	765	765	680		
SDS 1/4" x 6" ⁽³⁾⁽⁴⁾	2	24"				455	465	455
		19.2"				565	580	565
		16"				680	695	680
USP WS35 ⁽⁴⁾	2	24"	480	360	360	320		
		19.2"	600	450	450	400		
		16"	715	540	540	480		
USP WS6 ⁽³⁾⁽⁴⁾	2	24"				350	525	350
		19.2"				440	660	440
		16"				525	790	525
3 3/4" TrussLok ⁽⁴⁾	2	24"	635	475	475	425		
		19.2"	795	595	595	530		
		16"	955	715	715	635		
5" TrussLok ⁽⁴⁾	2	24"		500	500	445	480	445
		19.2"		625	625	555	600	555
		16"		750	750	665	725	665
6 3/4" TrussLok ⁽⁴⁾	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665

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

(2) Washers required. Bolt holes to be 1/16" maximum.

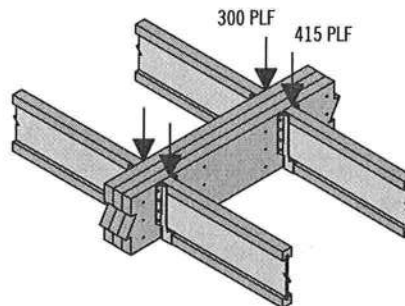
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

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

General Notes

- 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 1/2 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



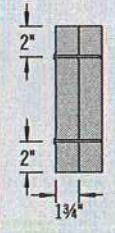
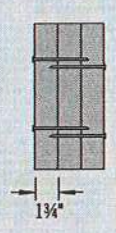
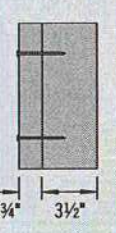
First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1 3/4" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center 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 3 1/2" screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

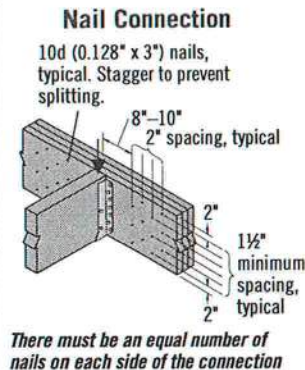
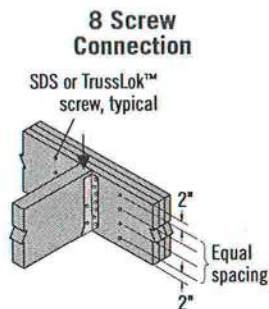
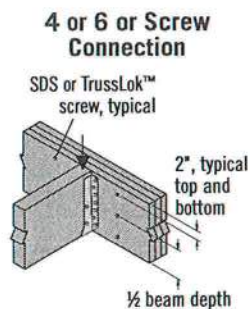
Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	Connector Pattern					
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail	6	1,110	835	835	740		
	12	2,225	1,670	1,670	1,485		
	18	3,335	2,505	2,505	2,225		
	24	4,450	3,335	3,335	2,965		
SDS Screws 1/4" x 3 1/2" 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)
3 3/8" 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)

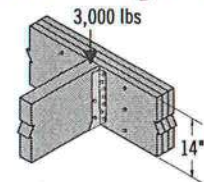
- (1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.
 (2) 6" long screws required.
 (3) 5" long screws required.
 (4) 3 1/2" and 3 3/8" long screws must be installed on both sides.

See General Notes on page 38

Connections



Point Load Design Example



First, verify that a 3-ply 1 3/4" 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 1 3/4" assembly, eight 3 3/8" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1 3/4" 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 3 3/8" 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

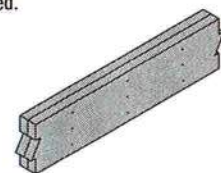
on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

3 1/2" 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 1/2 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 1/2" 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"

L6

BEARING HEIGHT SCHEDULE

8' 0"

TRUSS INFORMATION:

ROOF PITCH: DUAL

CEILING: TRAY @ GREAT ROOM

OVERHANG: 1' 6"

HANGER LIST:

14 - HTU26

VALLEY:

BY OTHERS

NOTE: ALL BEAMS AND HEADERS THAT ARE NOT NOTES TO BE BY OTHERS
ADDITIONAL BEARING WALLS NEEDED FOR ROOF

NOTES:

- 1) REFER TO HS-91 (RECOMMENDATIONS FOR BEARING WALLS AND SUPPORT BRACING) REFER TO ENGINEER DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V09 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 7' O.C. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5Y4Z TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSS HANGERS TO BE SAMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SAMPSON HTU42Z UNLESS OTHERWISE NOTED.
- 8) BEAMS/ADJUTANT (RFR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND JOISTS. ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS, REVISED AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Engineer's Stamp Box:

Approved by: _____ Date: _____



Bunnell
FirstSource
PHONE: 404-437-3544 FAX: 404-437-3404
Jacksonville
PHONE: 404-772-6100 FAX: 404-772-1873
Lake City
PHONE: 386-755-6844 FAX: 386-755-7473
Sanford
PHONE: 407-322-0054 FAX: 407-322-5953

BUILDER:

LEGAL ADDRESS:

MODEL:

DATE: _____ DRAWN BY: JP SCALE: NTS JOB #: _____

