

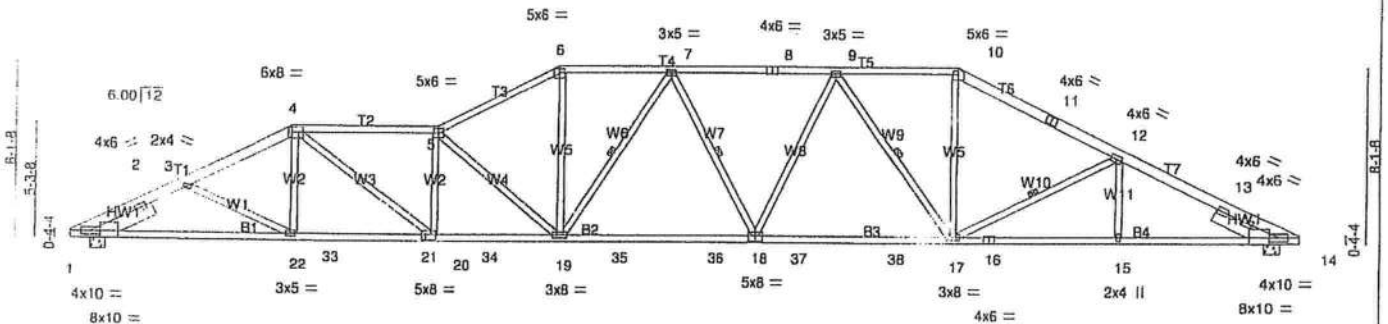
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	H29X	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:33:35 2012 Page 1
ID: mFki2T_dLS4EESOE4oLCZ2yYINY_N2eYO1gPlxQBknPXreBeRhIZK782Wg88YayzXIU

8-0-0	5-2-7	9-10-8	16-6-8	22-2-8	27-5-3	35-1-14	40-10-8	48-4-9	56-5-0
5-2-7	4-8-1	6-8-0	5-8-0	5-2-11	7-8-11	5-8-10	7-6-1	8-0-7	

Scale: 1/8"=1'



8-0-0

8-0-0

0-10-8	9-10-8	16-6-8	22-2-8	31-6-8	40-10-8	48-4-9	55-6-8	56-5-0
0-10-8	9-0-0	6-8-0	5-8-0	9-4-0	9-4-0	7-6-1	7-1-15	0-10-8

Plate Offsets (X,Y): [1:0-5-0,Edge], [4:0-6-0,0-2-8], [6:0-3-0,0-2-0], [8:0-3-0,Edge], [10:0-3-0,0-2-0], [14:0-5-0,Edge], [18:0-4-0,0-3-0], [21:0-2-12,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 2-0-0	TC 0.58	Vert(LL) 0.44	18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.94	Vert(TL) -0.98	18-19	-690	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.97	Horz(TL) 0.27	14	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007	(Matrix-M)						
							Weight: 353 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E *Except*
T1,T6,T7: 2x6 SYP No.2
BOT CHORD 2x4 SP 1500F 1.6E *Except*
B2: 2x4 SYP No.1D
WEBS 2x4 SP 1500F 1.6E
SLIDER Left 2x8 SYP No.2 3-0-0, Right 2x8 SYP No.2 3-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-19, 7-18, 9-17, 12-17

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

REACTIONS

(lb/size) 1=1774/0-8-0 (min. 0-2-6), 14=1761/0-8-0 (min. 0-2-6)
Max Horz 1=-118(LC 8)
Max Uplift 1=-375(LC 10), 14=-312(LC 6)
Max Grav 1=1806(LC 2), 14=1806(LC 2)

FORCES (lb)

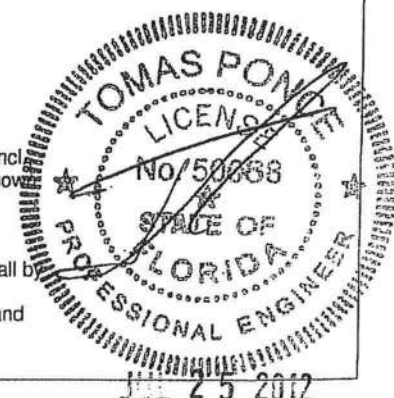
- Maximum Compression/Maximum Tension

TOP CHORD 1-2=-870/180, 2-3=-3209/1302, 3-4=-3309/1329, 4-5=-4350/1803, 5-6=-3697/1547, 6-7=-3312/1446, 7-8=-3381/1461, 8-9=-3381/1461, 9-10=-2764/1223, 10-11=-3046/1281, 11-12=-3086/1264, 12-13=-3423/1339, 13-14=-820/266
BOT CHORD 1-24=0/0, 1-1=-1036/2688, 1-22=-1036/2688, 22-33=-1042/2889, 21-33=-1042/2889, 20-21=-1042/2889, 20-34=-1614/4303, 19-34=-1614/4303, 19-35=-1203/3328, 35-36=-1203/3328, 18-36=-1203/3328, 18-37=-1113/3110, 37-38=-1113/3110, 17-38=-1113/3110, 16-17=-1081/2930, 15-16=-1081/2930, 14-15=-1081/2930, 14-29=0/0
WEBS 3-22=-99/276, 4-22=0/207, 4-20=-703/1746, 5-20=-966/494, 5-19=-1503/674, 6-19=-489/1357, 7-19=-407/208, 7-18=-196/165, 9-18=-32/490, 9-17=-862/386, 10-17=-320/1003, 12-17=-346/252, 12-15=0/236

NOTES (7)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 375 lb uplift at joint 1 and 312 lb uplift at joint 14.

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50088 357 Medallion Place Chuluota, FL 32766 407-484-0037
SIERRA	H29X	SPECIAL	1	1	Job Reference (optional)	

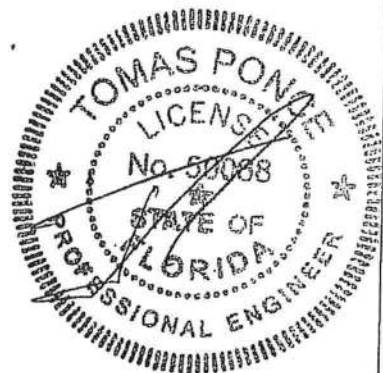
Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MIT Industries, Inc. Tue Jul 10 08:33:36 2012 Page 2

ID:mFki2T_dLS4EESOE4oLCZ2yYINY-Tac0k1KRIttoLamwL724BMBcRivZsavBITI40yzXT

7) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

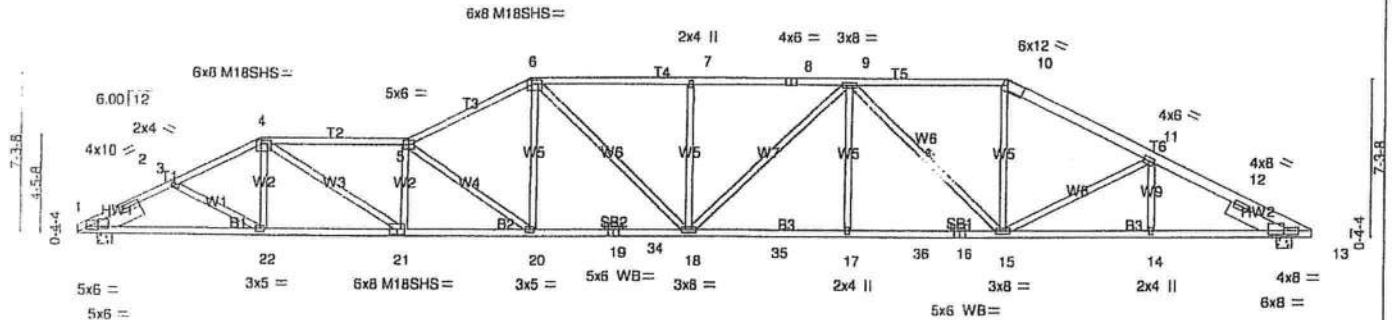
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50088 367 Medallion Place Coral Gables, FL 33134 407-484-0037
SIERRA	H30X	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 Mitek Industries, Inc. Tue Jul 10 08:33:47 2012 Page 1
ID: mFki2T_dLS4EEOE4oLCZ2yYINy-ehna3VADr4GE9G62Uwlf7g8C8hxxp6fth2nzlyzXf

8-0-0	4-4-7	8-2-8	14-10-8	20-6-8	27-10-8	35-2-8	42-6-8	49-2-9	56-5-0
	4-4-7	3-10-1	6-8-0	5-8-0	7-4-0	7-4-0	7-4-0	6-8-1	7-2-7

Scale: 1/8"=1'



8-0-0

8-0-0

0-10-8	8-2-8	14-10-8	20-6-8	27-10-8	35-2-8	42-6-8	49-2-9	55-6-8	56-5-0
0-10-8	7-4-0	6-8-0	5-8-0	7-4-0	7-4-0	7-4-0	6-8-1	6-3-15	0-10-8

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.97	Vert(LL)	0.54 18-20	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.82	Vert(TL)	-0.98 18-20	>689	180	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.94	Horz(TL)	0.29 13	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)					Weight: 343 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E *Except*
T6: 2x6 SYP No.2
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
OTHERS 2x4 SP 1500F 1.6E
SLIDER Left 2x8 SYP No.2 2-6-0, Right 2x8 SYP No.2 3-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-5-13 oc bracing.
WEBS 1 Row at midpt 9-15

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

REACTIONS (lb/size)

1=1769/0-8-0 (min. 0-2-7), 13=1750/0-8-0 (min. 0-2-6)
Max Horz 1=120(LC 7)
Max Uplift 1=401(LC 10), 13=340(LC 6)
Max Grav 1=1863(LC 2), 13=1805(LC 2)

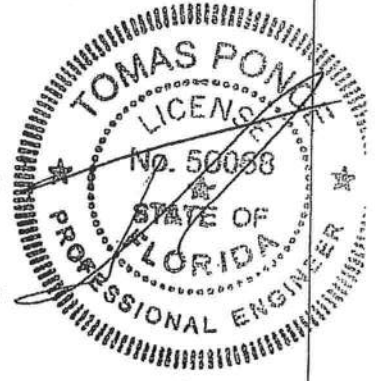
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-26=-126/26, 1-1=-319/479, 1-2=-428/828, 2-3=-2982/1216, 3-4=-3262/1318, 4-5=-4726/1945,
5-6=-3967/1658, 6-7=-3860/1683, 7-8=-3860/1683, 8-9=-3860/1683, 9-10=-2839/1258,
10-11=-3154/1320, 11-12=-3368/1329, 12-13=-128/64
BOT CHORD 1-27=-30/176, 1-23=-947/2425, 1-22=-947/2425, 21-22=-1072/2885, 20-21=-1839/4784,
20-34=-1253/3451, 19-34=-1253/3451, 18-19=-1253/3451, 18-35=-1284/3497, 17-35=-1284/3497,
17-36=-1284/3497, 16-36=-1284/3497, 15-16=-1284/3497, 14-15=-1074/2868, 13-14=-1074/2868,
13-30=0/0
WEBS 3-22=-147/523, 4-22=-143/160, 4-21=-852/2145, 5-21=-1081/548, 5-20=-1669/730, 6-20=-345/1111,
6-18=-207/560, 7-18=-382/314, 9-18=-142/390, 9-17=0/363, 9-15=-1135/449, 10-15=-296/990,
11-15=-197/202, 11-14=0/210

NOTES (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 1 and 340 lb uplift at joint 13.

Continued on page 2



JUL 25 2012

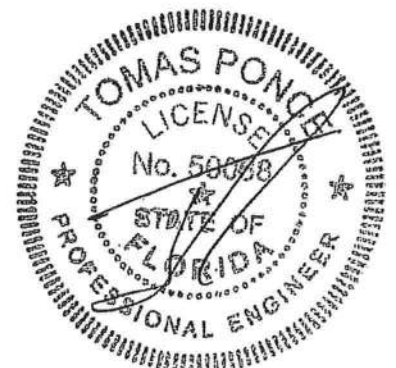
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32766 407-484-0037
SIERRA	H30X	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:33:47 2012 Page 2
ID:mFki2T_dLS4EESOE4oLCZ2yYINY-ehhA3VADr4GE9G62UwI7g8Oc8hxxa6pHh2nztyzXl

8) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Coral Gables, FL 33134 407-484-0037
SIERRA	H31X	SPECIAL	1	1	Job Reference (optional)	

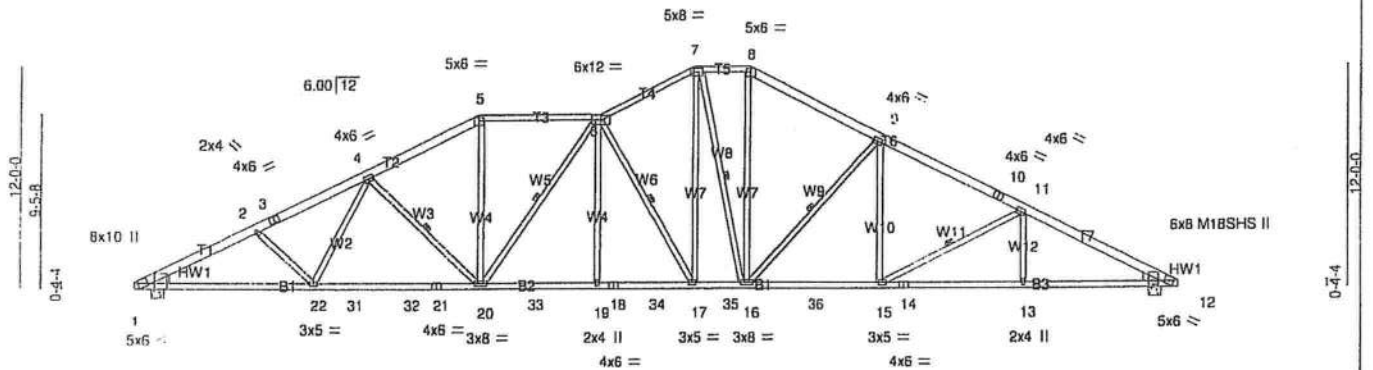
Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:33:58 2012 Page 1

ID: jYzXNxDtQ4WtMpXTOKIAY5z0UuO-ppxKNF17FTlg_yS9ekR5475dVZSa0bARpvDsskyzX17

8-0-0	6-5-1	12-3-12	18-2-8	24-10-8	29-11-8	33-1-8	40-3-14	48-1-5	56-5-0
6-5-1	5-10-12	5-10-12	6-8-0	5-1-0	3-2-0	7-2-6	7-9-6	8-3-11	

Scale = 1:111.7



8-0-0	0-10-8	9-4-7	18-2-8	24-10-8	29-11-8	33-1-8	40-3-14	48-1-5	55-6-8	56-5-0
0-10-8	8-5-15	8-10-1	6-8-0	5-1-0	3-2-0	7-2-6	7-9-6	7-5-3	0-10-8	

Plate Offsets (X,Y): [1:0-3-8,Edge], [1:0-1-13,0-0-3], [5:0-3-0,0-2-0], [7:0-6-0,0-2-8], [8:0-3-0,0-2-0], [12:0-1-13,0-5-0], [12:0-2-8,0-1-9]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.80	Vert(LL)	0.33 17-19	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.82	Vert(TL)	-0.74 20-22	>910	180	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.73	Horz(TL)	0.23 12	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)					Weight: 402 lb	FT = 0%

LUMBER

TOP CHORD 2x6 SYP No.2 *Except*
T3,T4,T5: 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SYP No.1D *Except*
B2: 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
WEDGE
Left: 2x6 SYP No.1D, Right: 2x6 SYP No.1D

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 4-20, 6-20, 6-17, 7-16, 9-16, 11-15

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

REACTIONS (lb/size) 1=1835/0-8-0 (min. 0-2-1), 12=1803/0-8-0 (min. 0-2-1)
Max Horz 1=182(LC 7)
Max Uplift 1=427(LC 10), 12=374(LC 11)
Max Grav 1=1835(LC 1), 12=1806(LC 2)

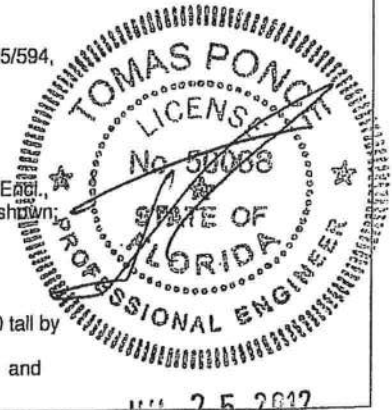
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-3393/1266, 2-3=-3327/1233, 3-4=-3309/1252, 4-5=-2995/1220, 5-6=-2653/1147, 6-7=-2686/1178, 7-8=-2341/1080, 8-9=-2665/1141, 9-10=-3112/1221, 10-11=-3147/1197, 11-12=-3465/1253
BOT CHORD 1-24=0/0, 1-1=-485/1280, 1-22=-1020/2860, 22-31=-958/2860, 31-32=-958/2860, 21-32=-958/2860, 20-21=-958/2860, 20-33=-879/2840, 19-33=-879/2840, 18-19=-880/2839, 18-34=-880/2839, 17-34=-880/2839, 17-35=-592/2207, 16-35=-592/2207, 16-36=-836/2699, 15-36=-836/2699, 14-15=-1004/2949, 13-14=-1004/2949, 12-13=-1004/2949, 12-28=0/0
WEBS 2-22=0/189, 4-22=0/219, 4-20=-524/300, 5-20=-302/1018, 6-20=-593/220, 6-19=0/308, 6-17=-1305/594, 7-16=-367/166, 9-16=-825/401, 9-15=-2/412, 11-15=-283/205, 11-13=0/231, 7-17=-473/1194, 8-16=-326/930

NOTES (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) and C-C Interior(1) 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 1 and 374 lb uplift at joint 12.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32766 407-484-0037
SIERRA	H31X	SPECIAL	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:33:58 2012 Page 2

ID:jyZxNxDrQ4WtMpXTOKIAY5z0UuO-ppxKNF7FTlg_yS9ekRE475JVZSa0bARpvDsskyzX17

8) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

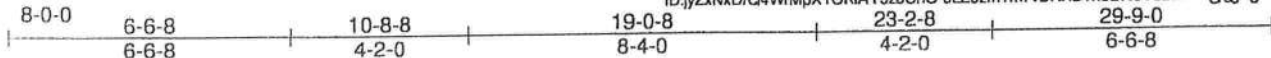


Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50058 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	HGRD3X	HIP	1	1	Job Reference (optional)	

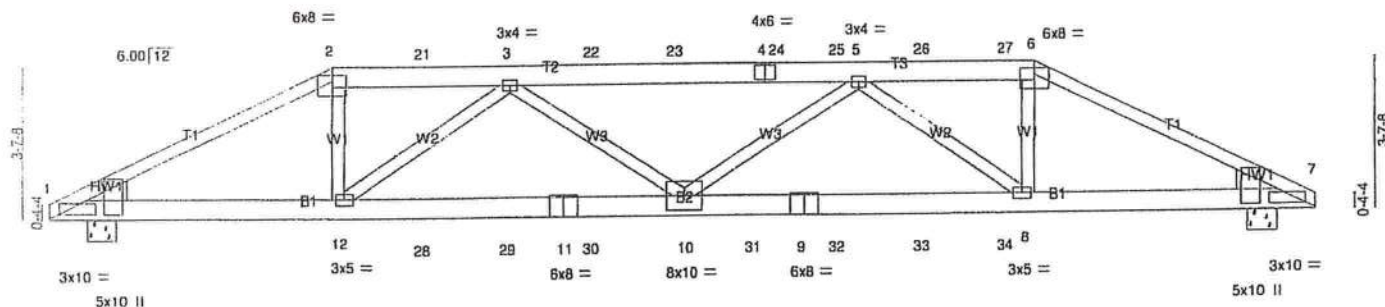
Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:34:58 2012 Page 1

ID: jYzXNxDQ4WmPXTOKiAY5z0UuO-3LZ0zm1m7vDAAB1hSLWJVeadiIv03gG4F1zGyzXeB



Scale = 1/4"=1'-0"



8-0-0

0-10-8 6-6-8 14-10-8 23-2-8 28-10-8 29-9-0
0-10-8 5-8-0 8-4-0 8-4-0 5-8-0 0-10-8

Plate Offsets (X,Y): [1:0-1-3,1-3-3], [1:0-2-11,0-1-4], [2:0-4-0,0-1-15], [6:0-4-0,0-1-15], [7:0-2-11,0-1-4], [7:0-1-3,1-3-3]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.61	Vert(LL)	0.19 8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.86	Vert(TL)	-0.44 8-10	>803	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.50	Horz(TL)	0.09 7	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)					Weight: 172 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E *Except*
T2,T3: 2x6 SYP No.2
BOT CHORD 2x6 SYP No.1D *Except*
B2: 2x6 SYP No.2
WEBS 2x4 SP 1500F 1.6E
WEDGE
Left: 2x6 SYP No.2, Right: 2x6 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.

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

REACTIONS (lb/size) 1=1553/0-8-0 (min. 0-1-13), 7=1591/0-8-0 (min. 0-1-13)
Max Horz 1=-53(LC 6)
Max Uplift 1=-503(LC 8), 7=-539(LC 9)
Max Grav 1=1768(LC 2), 7=1811(LC 2)

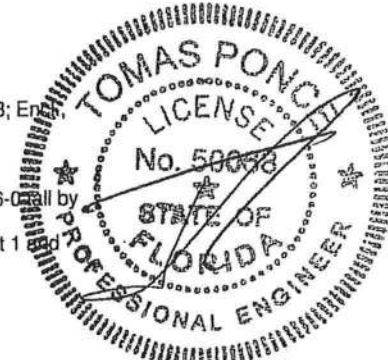
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-113/46, 1-1=-1188/327, 1-2=-2791/799, 2-21=-2467/744, 3-21=-2472/745, 3-22=-4168/1179,
22-23=-4168/1179, 23-24=-4168/1179, 4-24=-4168/1179, 4-25=-4168/1179, 5-25=-4168/1179,
5-26=-2538/790, 26-27=-2534/789, 6-27=-2532/788, 6-7=-2865/852, 7-19=-117/50
BOT CHORD 1-16=-36/81, 1-1=-302/916, 1-12=-692/2418, 12-28=-1272/3792, 28-29=-1272/3792, 11-29=-1272/3792,
11-30=-1272/3792, 10-30=-1272/3792, 10-31=-1276/3827, 9-31=-1276/3827, 9-32=-1276/3827,
32-33=-1276/3827, 33-34=-1276/3827, 8-34=-1276/3827, 7-8=-685/2485, 7-20=-39/84
WEBS 2-12=-241/1113, 3-12=-1732/780, 3-10=0/698, 5-10=0/666, 5-8=-1694/763, 6-8=-210/1095

NOTES (9)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 ft wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 503 lb uplift at joint 1 and 539 lb uplift at joint 7.

Continued on page 2

JUL 25 2012



Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32766 407-464-0037
SIERRA	HGRD3X	HIP	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:34:58 2012 Page 2

ID:jyZxNxDrQ4WmMpXTOKIAY5z0UuO-3LZ0zm1m7vDAAB1h9LWJVeadiiv03ogGcEl1zGyzXeB

NOTES (9)

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 120 lb up at 6-6-8, 104 lb down and 120 lb up at 8-7-8, 104 lb down and 120 lb up at 10-7-8, 98 lb down and 122 lb up at 12-7-8, 98 lb down and 122 lb up at 14-7-8, 98 lb down and 122 lb up at 16-6-0, 98 lb down and 122 lb up at 18-6-0, 98 lb down and 122 lb up at 20-6-0, and 98 lb down and 122 lb up at 22-6-0, and 98 lb down and 122 lb up at 23-2-8 on top chord, and 91 lb down at 6-7-8, 91 lb down at 8-7-8, 91 lb down at 10-7-8, 86 lb down at 12-7-8, 86 lb down at 14-7-8, 86 lb down at 16-6-0, 86 lb down at 18-6-0, 86 lb down at 20-6-0, and 86 lb down at 22-6-0, and 86 lb down at 23-1-8 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) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

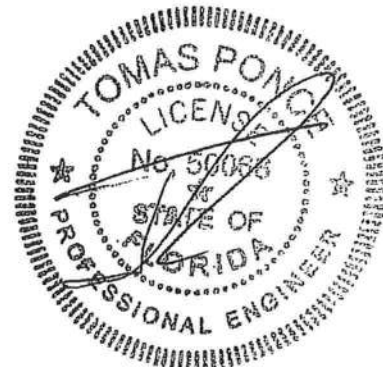
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-38, 2-6=-38, 6-7=-38, 1-7=-20

Concentrated Loads (lb)

Vert: 2=-88(F) 6=-82(F) 12=-64(F) 3=-88(F) 10=-55(F) 8=-55(F) 21=-88(F) 22=-82(F) 23=-82(F) 24=-82(F) 25=-82(F) 26=-82(F) 27=-82(F) 28=-64(F) 29=-64(F) 30=-55(F) 31=-55(F) 32=-55(F) 33=-55(F) 34=-55(F)



JUL 25 2012

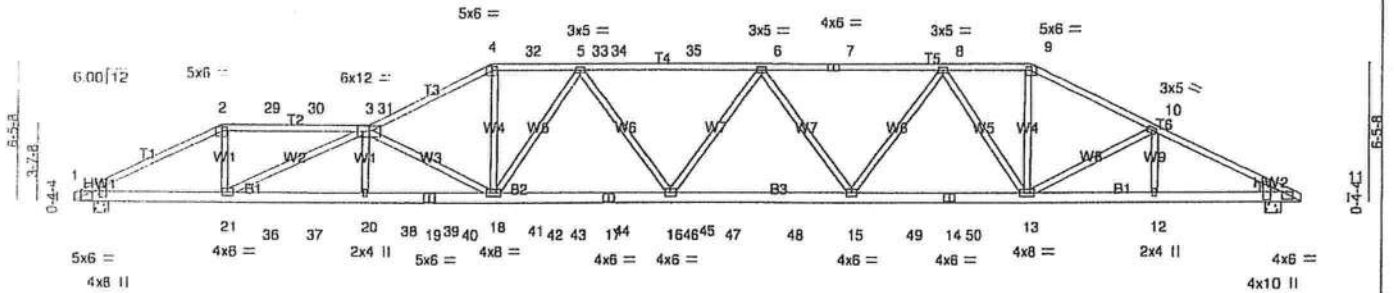
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32766 407-484-0337
SIERRA	HGRD6X	SPECIAL	1	3	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:35:56 2012 Page 1
ID:rmFkl2T_dLS4EESOE4oLCZ2yYINY-MV3x8ck8TjWx85TqYVWZvst_UV8jxf47qEg67vyzXdh

8-0-0	6-6-8	13-2-8	18-10-8	23-0-5	31-6-8	40-0-11	44-2-8	49-10-9	56-5-0
	6-6-8	6-8-0	5-8-0	4-1-13	8-6-3	8-6-3	4-1-13	5-8-1	6-6-7

Scale: 1/8"=1'



8-0-0	0-10-8	6-6-8	13-2-8	18-10-8	27-3-13	35-9-3	44-2-8	49-10-9	55-6-8	56-5-0
	0-10-8	5-8-0	6-8-0	5-8-0	8-5-5	8-5-5	8-5-5	5-8-1	5-7-15	0-10-8

Plate Offsets (X,Y): [1:0-1-11,1-1-0], [1:0-3-11,0-0-0], [2:0-3-0-0,0-2-0], [4:0-3-0-0,0-2-0], [7:0-3-0,Edge], [9:0-3-0,0-2-0], [11:0-4-3,0-1-0], [11:0-0-15,1-3-11]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	1/3s!!	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.81	Vert(LL)	0.37	15-16	>999	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.77	Vert(TL)	-0.79	15-16	>861	180	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.30	Horz(TL)	0.15	11	n/a	n/a	
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
									Weight: 1035 lb FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E *Except*
T2,T4,T5: 2x4 SYP No.2

BOT CHORD 2x6 SYP No.1D *Except*
B2: 2x6 SYP No.2
2x4 SP 1500F 1.6E

WEBS
WEDGE

Left: 2x4 SP 1500F 1.6E, Right: 2x6 SYP No.2

BRACING

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

REACTIONS

(lb/size) 11=3001/0-8-0 (min. 0-1-8), 1=3462/0-8-0 (min. 0-1-8)
Max Horz 1=100(LC 6)
Max Uplift 11=832(LC 4), 1=1055(LC 8)
Max Grav 11=3206(LC 2), 1=3763(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

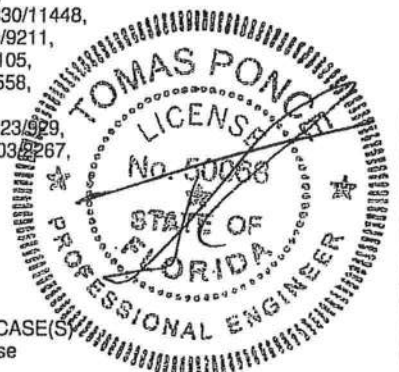
TOP CHORD 1-2=-6320/1774, 2-29=-5664/1645, 29-30=-5664/1645, 30-31=-5664/1645, 3-31=-5664/1645,
3-4=-9026/2655, 4-32=-8102/2422, 32-33=-8102/2422, 5-33=-8102/2422, 5-34=-9925/2931,
34-35=-9925/2931, 6-35=-9925/2931, 6-7=-7945/2347, 7-8=-7945/2347, 8-9=-5095/1504,
9-10=-5671/1627, 10-11=-5251/1433, 11-24=-1056/277
BOT CHORD 1-28=-807/2904, 1-11=-1517/5556, 1-21=-1617/5556, 21-36=-3326/11464, 36-37=-3326/11464,
37-38=-3326/11464, 20-38=-3326/11464, 20-39=-3330/11448, 19-39=-3330/11448, 19-40=-3330/11448,
40-41=-3330/11448, 18-41=-3330/11448, 18-42=-2810/9211, 42-43=-2810/9211, 43-44=-2810/9211,
17-44=-2810/9211, 17-45=-2810/9211, 16-45=-2810/9211, 16-46=-2665/9105, 46-47=-2665/9105,
47-48=-2665/9105, 15-48=-2665/9105, 15-49=-1814/6558, 14-49=-1814/6558, 14-50=-1814/6558,
13-50=-1814/6558, 12-13=-1202/4607, 11-12=-1202/4607, 11-25=-220/868
WEBS 2-21=-480/2404, 3-21=-6480/1886, 3-20=0/483, 3-18=-3938/1236, 4-18=-1103/3806, 5-18=-2123/929,
5-16=-134/1324, 6-16=-505/1482, 6-15=-2075/775, 8-15=-709/2448, 8-13=-2725/930, 9-13=-603/6267,
10-13=-256/634, 10-12=-557/231

NOTES (10)

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	HGRD6X	SPECIAL	1	3	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MITek Industries, Inc. Tue Jul 10 08:35:56 2012 Page 2
ID:mFkI2T_dLS4EESOE4oLCZ3yVINY-MV3x8ck8TJWx85TqYWZvst_UV8jxI47oxFo6?vyzXdh

NOTES (10)

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 832 lb uplift at joint 11 and 1055 lb uplift at joint 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down and 120 lb up at 6-6-8, 136 lb down and 120 lb up at 8-7-8, 136 lb down and 120 lb up at 10-7-8, 69 lb down and 94 lb up at 12-7-8, 112 lb down and 166 lb up at 20-7-8, 112 lb down and 166 lb up at 22-7-8, and 112 lb down and 166 lb up at 24-7-8, and 112 lb down and 166 lb up at 26-7-8 on top chord, and 91 lb down at 6-7-8, 91 lb down at 8-7-8, 91 lb down at 10-7-8, 32 lb down at 12-7-8, 32 lb down at 14-7-8, 32 lb down at 16-7-8, 87 lb down at 18-7-8, 84 lb down at 20-7-8, 84 lb down at 22-7-8, 84 lb down at 24-7-8, and 84 lb down at 26-7-8, and 1955 lb down and 512 lb up at 28-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

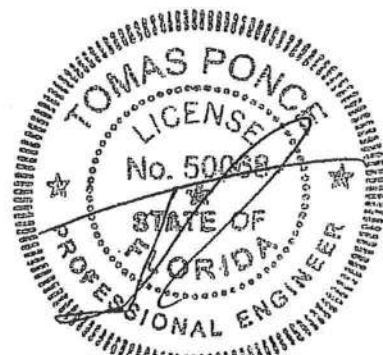
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-38, 2-3=-38, 3-4=-38, 4-9=-38, 9-11=-38, 1-43=-20, 17-43=-50, 17-47=-20, 47-48=-50, 48-49=-20, 49-50=-50, 11-50=-20

Concentrated Loads (lb)

Vert: 2=-88(F) 21=-64(F) 17=-45(F) 29=-88(F) 30=-88(F) 31=-31(F) 32=-94(F) 33=-94(F) 34=-94(F) 35=-94(F) 36=-64(F) 37=-64(F) 38=-15(F) 39=-15(F) 40=-15(F) 41=-56(F) 42=-45(F) 44=-45(F) 45=-45(F) 46=-1796(F)



JUL 25 2012

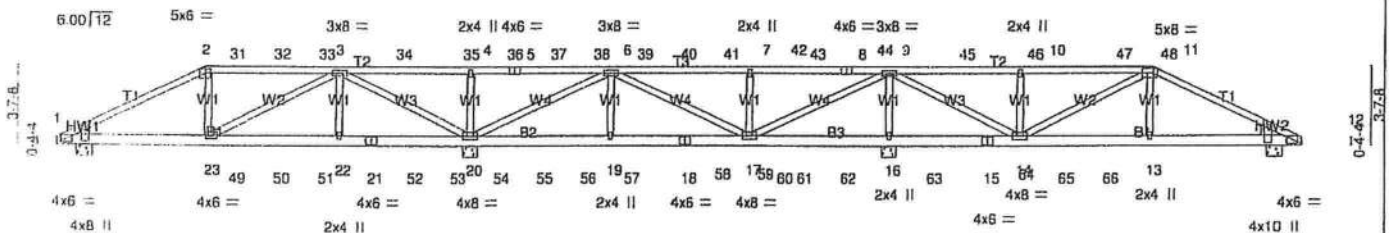
Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	HGRD8X	HIP	1	2	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:37:47 2012 Page 1

8-0-0	6-6-8	12-6-8	18-6-8	8-0-0	24-11-13	31-5-3	37-10-8	43-10-8	49-10-8	56-5-0
6-6-8	6-0-0	6-0-0	6-0-0	6-5-5	6-5-5	6-5-5	6-0-0	6-0-0	6-0-0	6-6-8

Scale = 1:94.6



8-0-0	0-10-8	6-6-8	12-6-8	18-6-8	24-11-13	31-5-3	37-10-8	43-10-8	49-10-8	56-5-0	56-5-0
8-0-0	0-10-8	5-8-0	6-0-0	6-0-0	6-5-5	6-5-5	6-5-5	6-0-0	6-0-0	5-8-0	0-10-8

Plate Offsets (X,Y): [1:0-1-7,1-1-0], [1:0-2-3,0-0-9], [2:0-3-0,0-2-0], [5:0-3-0,Edge], [8:0-3-0,Edge], [11:0-6-0,0-2-8], [12:0-0-15,1-3-11], [12:0-2-3,0-0-9]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.28	Vert(LL) 0.03	22-23	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL) -0.07	22-23	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.25	Horz(TL) 0.01	12	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007	(Matrix-M)					Weight: 647 lb	FT = 0%

LUMBER	BRACING
TOP CHORD 2x4 SYP No.1D *Except* T1: 2x4 SP 1500F 1.6E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP 1500F 1.6E	6-0-0 oc bracing: 16-17,14-16.
WEDGE Left: 2x4 SP 1500F 1.6E, Right: 2x6 SYP No.2	

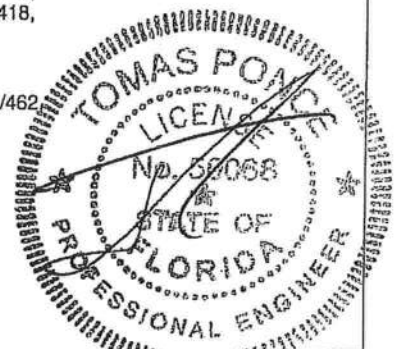
REACTIONS (lb/size) 20=2447/0-8-0 (min. 0-1-10), 16=2363/0-8-0 (min. 0-1-9), 1=759/0-8-0 (min. 0-1-8),
12=731/0-8-0 (min. 0-1-8)
Max Horz 1=54(LC 6)
Max Uplift 20=940(LC 5), 16=915(LC 4), 1=244(LC 8), 12=237(LC 9)
Max Grav 20=2786(LC 21), 16=2692(LC 22), 1=863(LC 21), 12=832(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1195/336, 2-31=-1015/342, 31-32=-1015/342, 32-33=-1015/342, 3-33=-1015/342, 3-34=-363/1165, 34-35=-363/1165, 35-36=-363/1165, 4-36=-363/1165, 4-37=-363/1165, 5-37=-363/1165, 5-38=-363/1165, 5-39=-363/1165, 6-39=-363/1165, 6-40=-430/270, 40-41=-430/270, 41-42=-430/270, 7-42=-430/270, 7-43=-430/270, 43-44=-430/270, 8-44=-430/270, 8-9=-430/270, 9-45=-800/260, 45-46=-800/260, 10-46=-800/260, 10-47=-800/260, 47-48=-800/260, 11-48=-800/260, 11-12=-1132/331, 12-29=-107/39, 12-29=-107/39, 1-1=-218/1014, 1-23=-271/1014, 23-49=-197/803, 49-50=-197/803, 50-51=-197/803, 22-51=-197/803, 21-22=-197/803, 21-52=-197/803, 52-53=-197/803, 20-53=-197/803, 20-54=-200/418, 18-59=-200/418, 55-56=-200/418, 19-56=-200/418, 19-57=-200/418, 57-58=-200/418, 18-58=-200/418, 17-59=-200/418, 17-60=-1087/402, 60-61=-1087/402, 61-62=-1087/402, 16-62=-1087/402, 16-63=-1087/402, 63-64=-1087/402, 15-64=-1087/402, 14-15=-1087/402, 14-65=-206/976, 65-66=-206/976, 13-66=-206/976, 12-13=-213/969, 12-30=-30/82, 2-23=0/241, 3-23=-110/242, 3-22=0/520, 3-20=-2239/685, 4-20=-584/448, 6-20=-1762/682, 6-19=0/462, 6-17=-5/24, 7-17=-553/452, 9-17=-648/1699, 9-16=-2360/1040, 9-14=-636/2145, 10-14=-614/460, 11-14=-201/86, 11-13=0/324

NOTES (10)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.



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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluto, FL 32768 407-484-0037
SIERRA	HGRD8X	HIP	1	2	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MITek Industries, Inc. Tue Jul 10 08:37:47 2012 Page 2
ID:bdxpmdbBPIQeFNW9SWSBG1yz7Ld-csHvRZ4mKqVBy9SAYK2xsH4askS9J8T1BUOzyzXbY

NOTES (10)

- 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 7-10; 160mph (3-second gust) $V_{asd}=124\text{mph}$; $TCDL=4.2\text{psf}$; $BCDL=6.0\text{psf}$; $h=25\text{ft}$; Cat. II; Exp B; Encl., $GC_{pi}=0.18$; MWFRS (envelope); cantilever left and right exposed; Lumber $DOL=1.60$ plate grip $DOL=1.60$
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 940 lb uplift at joint 20, 915 lb uplift at joint 16, 244 lb uplift at joint 1 and 237 lb uplift at joint 12.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 120 lb up at 6-6-8, 104 lb down and 120 lb up at 7-9-8, 104 lb down and 120 lb up at 9-9-8, 104 lb down and 120 lb up at 11-9-8, 104 lb down and 120 lb up at 13-9-8, 104 lb down and 120 lb up at 15-9-8, 104 lb down and 120 lb up at 17-9-8, 82 lb down and 114 lb up at 19-9-8, 82 lb down and 114 lb up at 21-9-8, 82 lb down and 114 lb up at 23-9-8, 82 lb down and 114 lb up at 25-9-8, 82 lb down and 114 lb up at 27-9-8, 82 lb down and 114 lb up at 29-9-8, 82 lb down and 114 lb up at 31-9-8, 82 lb down and 114 lb up at 33-9-8, 82 lb down and 114 lb up at 35-9-8, 82 lb down and 114 lb up at 37-9-8, 104 lb down and 120 lb up at 39-9-8, 104 lb down and 120 lb up at 41-9-8, 104 lb down and 120 lb up at 43-9-8, 104 lb down and 120 lb up at 45-9-8, and 104 lb down and 120 lb up at 47-9-8, and 104 lb down and 120 lb up at 49-10-8 on top chord, and 91 lb down at 6-7-8, 91 lb down at 7-9-8, 91 lb down at 9-9-8, 91 lb down at 11-9-8, 91 lb down at 13-9-8, 91 lb down at 15-9-8, 91 lb down at 17-9-8, 70 lb down at 19-9-8, 70 lb down at 21-9-8, 70 lb down at 23-9-8, 70 lb down at 25-9-8, 70 lb down at 27-9-8, 70 lb down at 29-9-8, 70 lb down at 31-9-8, 70 lb down at 33-9-8, 70 lb down at 35-9-8, 70 lb down at 37-9-8, 91 lb down at 39-9-8, 91 lb down at 41-9-8, 91 lb down at 43-9-8, 91 lb down at 45-9-8, and 91 lb down at 47-9-8, and 91 lb down at 49-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

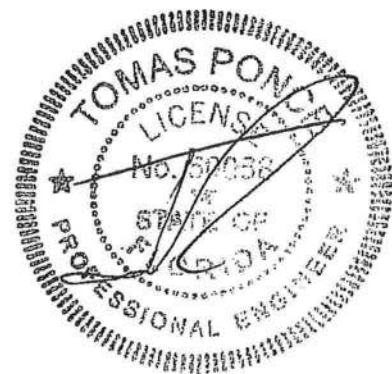
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-38, 2-11=-38, 11-12=-38, 1-12=-20

Concentrated Loads (lb)

Vert: 2=-88(F) 11=-88(F) 21=-64(F) 23=-64(F) 16=-38(F) 9=-68(F) 10=-88(F) 14=-64(F) 13=-64(F) 8=-68(F) 31=-88(F) 32=-88(F) 33=-88(F) 34=-88(F) 35=-88(F) 36=-88(F) 37=-68(F) 38=-68(F) 39=-68(F) 40=-68(F) 41=-68(F) 42=-68(F) 43=-68(F) 44=-68(F) 45=-88(F) 46=-88(F) 47=-88(F) 48=-88(F) 49=-64(F) 50=-64(F) 51=-64(F) 52=-64(F) 53=-64(F) 54=-38(F) 55=-38(F) 56=-38(F) 57=-38(F) 58=-38(F) 59=-38(F) 60=-38(F) 61=-38(F) 62=-38(F) 63=-64(F) 64=-64(F) 65=-64(F) 66=-64(F)



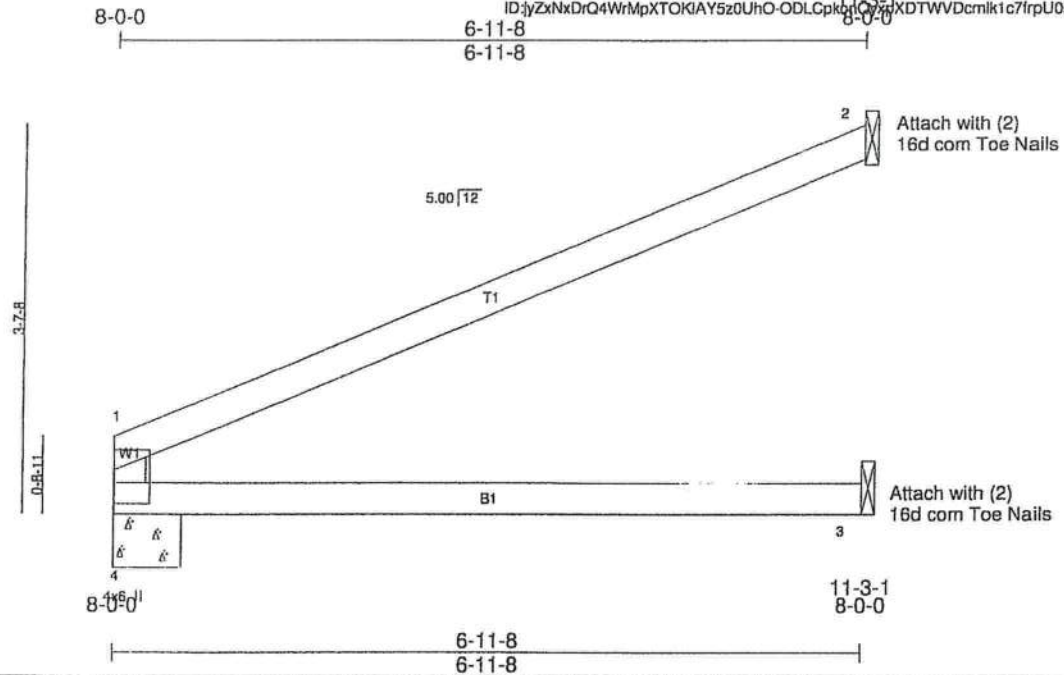
JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PER 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	J1SAX	JACK	7	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

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ID: yZxNxDrQ4WrMpXTOKiAY5z0UhO-ODLCpkhCvZ4XDTWVdcmik1c7rpU0sq1z6y2yzXad



Scale = 1:19.0

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.46	in (loc) l/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.38	Vert(LL) 0.11 3-4 >719 240		
BCLL 0.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.23 3-4 >347 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.06 2 n/a n/a		
	Code FRC2010/TPI2007			Weight: 22 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E

BRACING

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

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

REACTIONS (lb/size)

4=196/0-7-8 (min. 0-1-8), 2=120/Mechanical, 3=75/Mechanical
Max Horz 4=115(LC 10)
Max Uplift 4=37(LC 10), 2=117(LC 10)
Max Grav 4=223(LC 2), 2=144(LC 2), 3=126(LC 3)

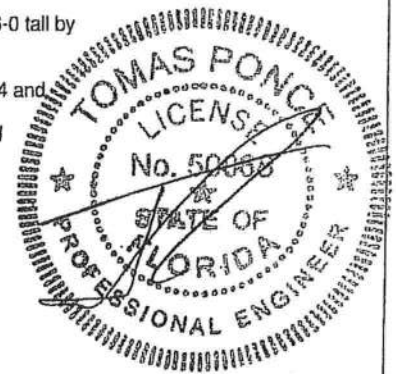
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-207/129, 1-2=-79/67
BOT CHORD 3-4=0/0

NOTES (6)

- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vsd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 4 and 117 lb uplift at joint 2.
- 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Porco, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	J1SBX	JACK	3	1	Job Reference (optional)	
Maronda Homes Inc., Sanford, FL			7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:38:48 2012 Page 1			

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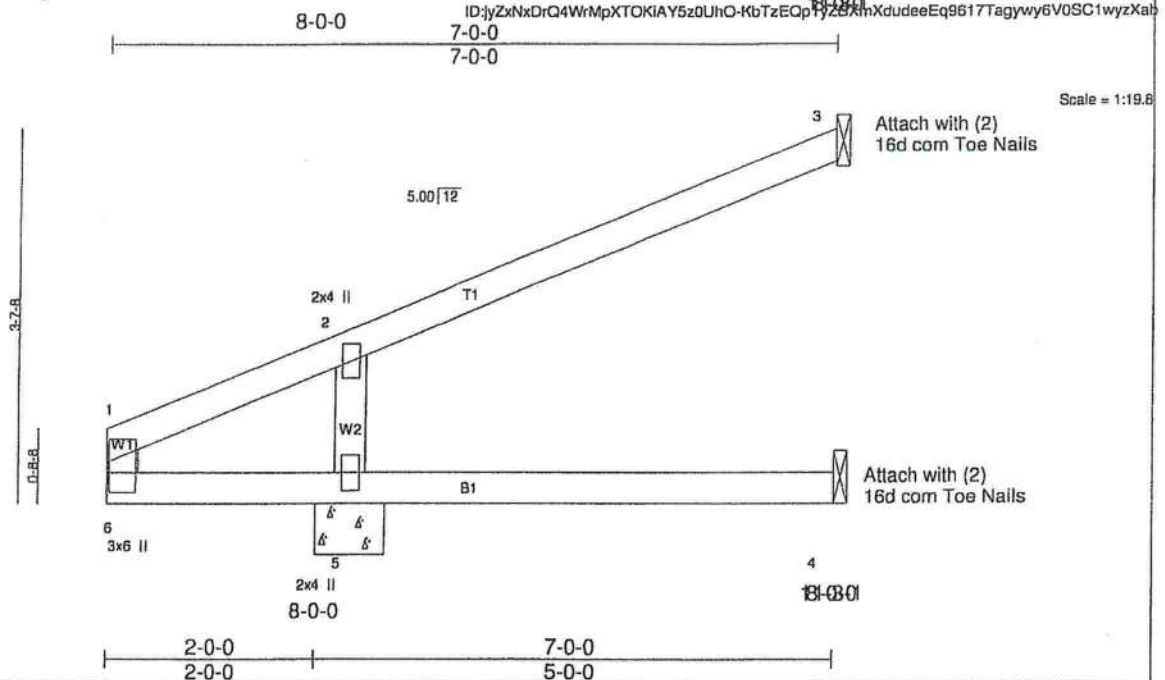


Plate Offsets (X,Y): [6:0-3-8,0-1-8]

LUMBER

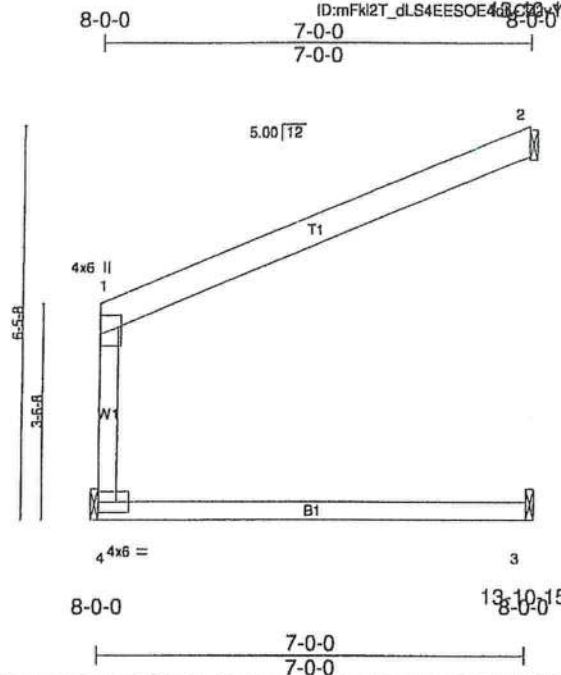
JUN 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	J1SCX	JACK	4	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

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ID: mFk12T_dLS4EESOE4d3C80Y6NY-on0LSmqfjJOOHb4BM9TNM9AttehNcGjgCmZNyzXaa



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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.35	Vert(LL)	0.12	3-4	>685	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.37	Vert(TL)	-0.22	3-4	>363	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.34	2	n/a	n/a	
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
								Weight: 33 lb	FT = 0%

LUMBER
TOP CHORD 2x6 SYP No.2
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

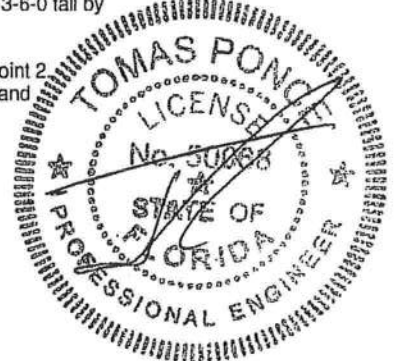
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=197/Mechanical, 2=132/Mechanical, 3=65/Mechanical
Max Horz 4=115(LC 10)
Max Uplift 2=161(LC 10)
Max Grav 4=224(LC 2), 2=158(LC 2), 3=124(LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-172/77, 1-2=-98/82
BOT CHORD 3-4=0/0

- NOTES** (6)
- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2
 - 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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Maronda Homes Inc., Sanford, FL

8-0-0

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ID:bdxpmdbBPIOeFNW9SWSBG1yz7Ld-CMIT4nsY0qfz7BwlsUJB_?HeN4unukMiQeQQAlyzXaX

7-10-8

7-10-8

Scale = 1:19.7

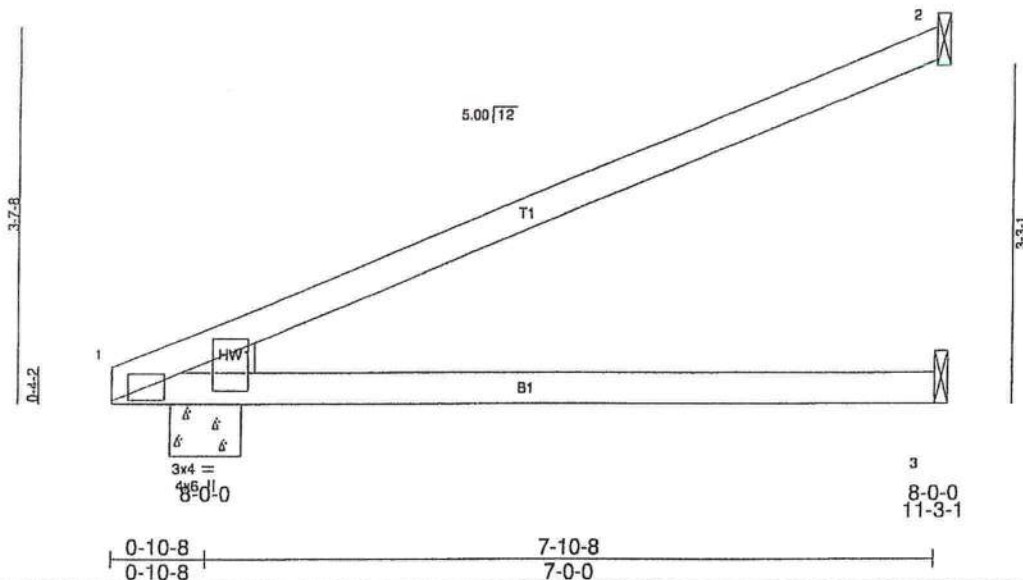


Plate Offsets (X,Y): [1:0-1-13,0-0-1], [1:0-1-3,0-11-3]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.48	Vert(LL) 0.18 3-8 >523 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.41	Vert(TL) -0.30 3-8 >312 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.04 2 n/a n/a		
BCDL 10.0	Code FRC2010/TPI2007	(Matrix-M)		Weight: 26 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E

BOT CHORD 2x4 SP 1500F 1.6E

WEDGE

Left: 2x4 SP 1500F 1.6E

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.

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

REACTIONS (lb/size) 2=126/Mechanical, 3=84/Mechanical, 1=243/0-8-0 (min. 0-1-8)

Max Horz 1=133(LC 10)

Max Uplift2=-115(LC 10), 1=-55(LC 10)

Max Grav2=150(LC 2), 3=131(LC 3), 1=277(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

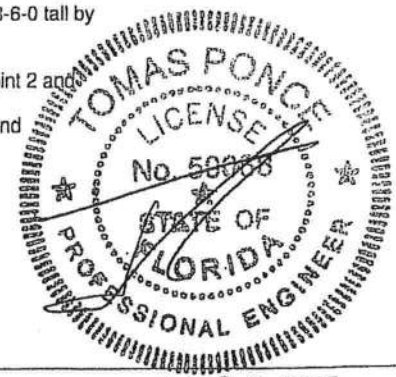
TOP CHORD 1-7=-3/7, 1-1=-121/0, 1-2=-77/69

BOT CHORD 1-8=-0/0, 1-4=-150/178, 1-3=0/0

NOTES (6)

- 1) Wind: ASCE 7-10; 160mph (3-second gust) $V_{asd}=124\text{mph}$; $TCDL=4.2\text{psf}$; $BCDL=6.0\text{psf}$; $h=25\text{ft}$; Cat. II; Exp B; Encl.,
GCP $\phi=0.18$; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by
1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 2 and
55 lb uplift at joint 1.
- 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



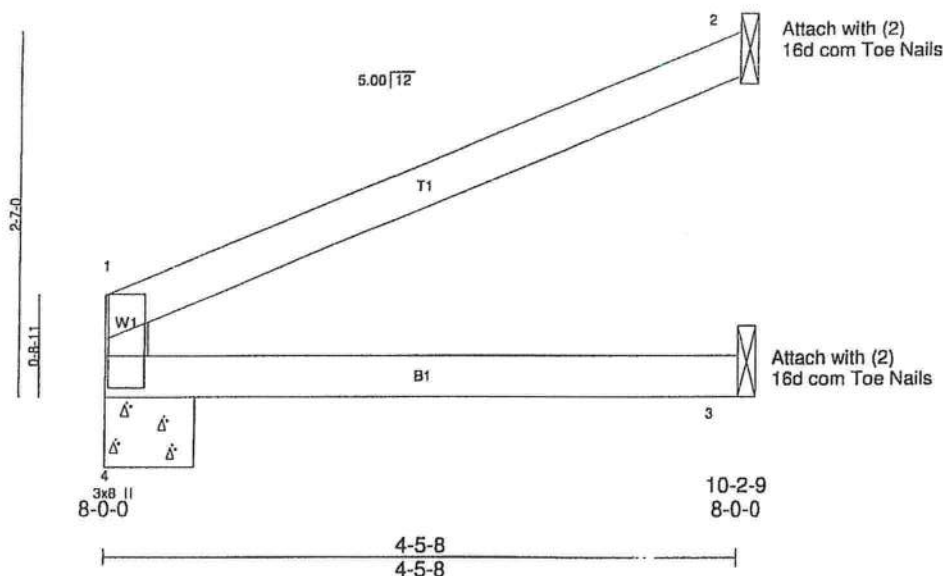
25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32786 407-484-0037
SIERRA	J2SAX	JACK	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

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8-0-0
4-5-8
4-5-8
8-0-0



Scale = 1:14.5

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.18	Vert(LL)	0.02	3-4	>999	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.14	Vert(TL)	-0.04	3-4	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.02	2	n/a	n/a	
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
								Weight: 14 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 4=123/0-7-8 (min. 0-1-8), 2=76/Mechanical, 3=47/Mechanical

Max Horz 4=72(LC 10)
Max Uplift 4=20(LC 10), 2=76(LC 10)
Max Grav 4=140(LC 2), 2=91(LC 2), 3=80(LC 3)

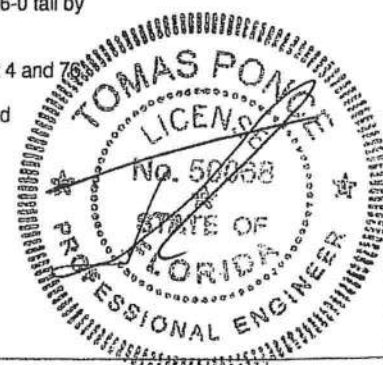
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-4=-132/81, 1-2=-52/44
BOT CHORD 3-4=0/0

NOTES (6)

- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 7 lb uplift at joint 2.
- 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

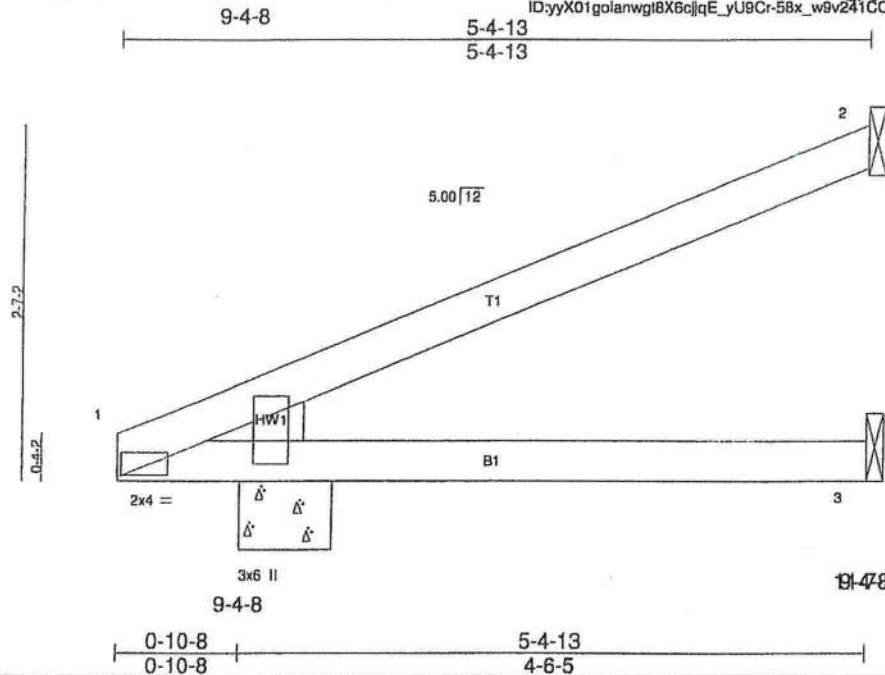
LOAD CASE(S) Standard



JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SI:FR:FR_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	J2X	JACK	1	1	Job Reference (optional)	
Maronda Homes Inc., Sanford, FL						

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:38:56 2012 Page 1
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Scale = 1:14.9

Plate Offsets (X,Y): [1:0-4-5,0-0-3], [1:0-1-3,0-11-11]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.15	Vert(LL)	-0.01	3-7	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.10	Vert(TL)	-0.02	3-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.01	2	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						Weight: 18 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E

BOT CHORD 2x4 SP 1500F 1.6E

WEDGE

Left: 2x4 SP 1500F 1.6E

BRACING

TOP CHORD

Structural wood sheathing directly applied or 5-4-13 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=68/Mechanical, 3=35/Mechanical, 1=207/0-8-0 (min. 0-1-8)

Max Horz 1=91(LC 10)

Max Uplift 2=71(LC 10), 1=-54(LC 10)

Max Grav 2=82(LC 2), 3=69(LC 3), 1=236(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

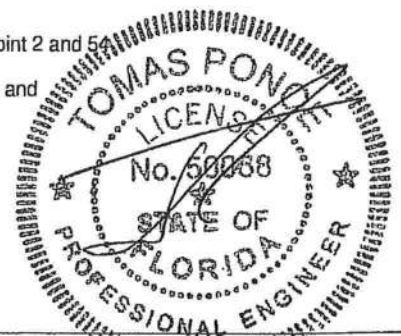
TOP CHORD 1-2=-121/105

BOT CHORD 1-7=-160/185, 1-4=-70/112, 1-3=0/0

NOTES

- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2 and 5 lb uplift at joint 1.
- 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



JUL 25 2012

Maronda Homes Inc., Sanford, FL 7.340 s Mar 28 2012 08:38:58 7.340 s Mar 28 2012 08:38:58 Tue Jul 10 08:38:58 2012 Page 1
ID:jvZxNdRQ4WmPXTQK1AY5z0UHo1-W3JLxIbeS6z3NpCqEGXmnV1CISRoatkNLyzXaF



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase 1.25	TC 0.03	Vert(LL) -0.00 4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.02	Vert(TL) -0.00 3-4	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 2	n/a	n/a		
BCDL 10.0	Code FRC2010/TP12007	(Matrix-M)				Weight: 7 lb	FT = 0%

TOP CHORD	2x4	SP	1500F	1.6E
BOT CHORD	2x4	SP	1500F	1.6E
WEBS	2x4	SP	1500F	1.6E

TOP CHORD	Structural wood sheathing directly applied or 2-0-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 4=54/0-7-8 (min. 0-1-8), 2=34/Mechanical, 3=20/Mechanical
Max Horz 4=31 (LC 10)
Max Uplift 4=-4 (LC 10), 2=-36 (LC 10)
Max Grav 4=61 (LC 2), 2=40 (LC 2), 3=35 (LC 3)

TOP CHORD	1-4=-55/31, 1-2=-23/20
BOT CHORD	3-4=0/0

1) Wind: ASCE 7-10; 160mph (3-second gust) $V_{asd}=124\text{mph}$; $TCDL=4.2\text{psf}$; $BCDL=6.0\text{psf}$; $h=25\text{ft}$; Cat. II; Exp B; Encl., $G_{Cp}=0.18$; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

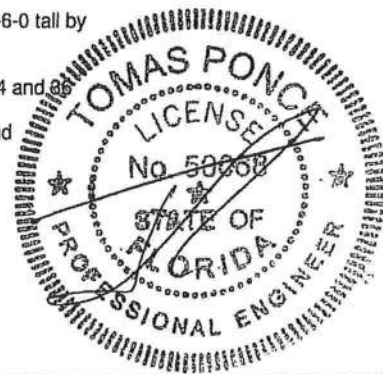
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 4 and 6 lb uplift at joint 2.

6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

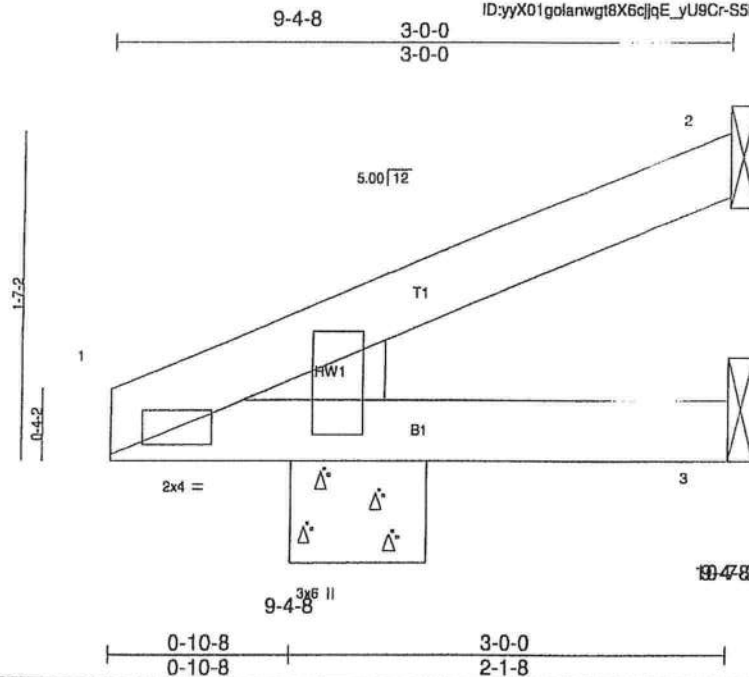
LOAD CASE(S) Standard



25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50088 357 Medallion Place Chulula, FL 32766 407-484-0037
SIERRA	J3X	JACK	1	1	Job Reference (optional)	
Maronda Homes Inc., Sanford, FL						

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:39:01 2012 Page 1
ID:yyX01golanwgt8X6cjQe_yU9Cr-S5ltzszBuZqhX6OutNlsu8Hii2Vpa1UY6O_gyzXaO



Scale = 1:9.9

Plate Offsets (X,Y): [1:0-1-13,0-0-9], [1:0-1-3,0-11-11]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.04	Vert(LL)	-0.00	4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.04	Vert(TL)	-0.00	4	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						Weight: 11 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEDGE
Left: 2x4 SP 1500F 1.6E

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.

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

REACTIONS (lb/size) 2=27/Mechanical, 3=5/Mechanical, 1=139/0-8-0 (min. 0-1-8)
Max Horz 1=50(LC 10)
Max Uplift 2=34(LC 10), 1=35(LC 10)
Max Grav 2=33(LC 2), 3=22(LC 3), 1=158(LC 2)

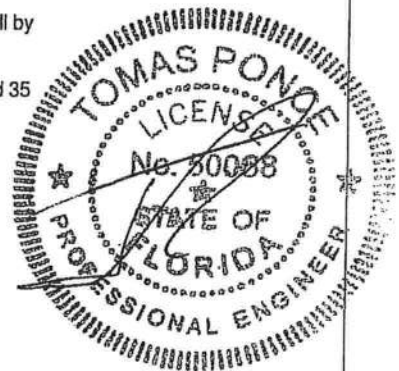
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-26/58
BOT CHORD 1-7=-51/0, 1-4=-39/62, 1-3=0/0

NOTES

- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2 and 35 lb uplift at joint 1.
- 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

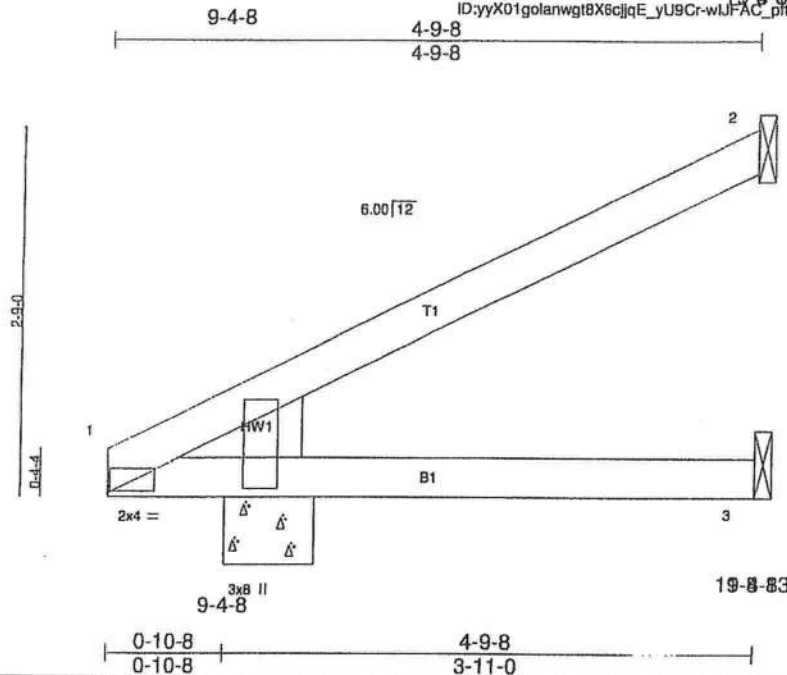


JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Civildale, FL 32766 407-484-0037
SIERRA	J4X	JACK	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:39:02 2012 Page 1
ID:yyX01golanwgt8X6cljqE_yU9Cr-wJFAC_phlyYSghaRauXO6hRW6N4EGqAJCsyW7yzXaH



Scale = 1:15.2

Plate Offsets (X,Y): [1:0-4-3,0-0-3], [1:0-0-7,1-0-3]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.11	Vert(LL)	-0.01	4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.01	3-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.01	2	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						Weight: 17 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEDGE
Left: 2x6 SYP No.2

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-9-8 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=58/Mechanical, 3=29/Mechanical, 1=188/0-8-0 (min. 0-1-8)

Max Horz 1=96(LC 10)
Max Uplift 2=-68(LC 10), 1=-41(LC 3)
Max Grav 2=70(LC 2), 3=58(LC 3), 1=214(LC 2)

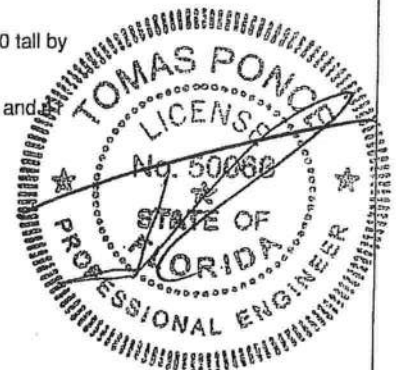
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-77/94
BOT CHORD 1-7=-160/136, 1-4=-75/120, 1-3=0/0

NOTES (6)

- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 2 and 1b uplift at joint 1.
- 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

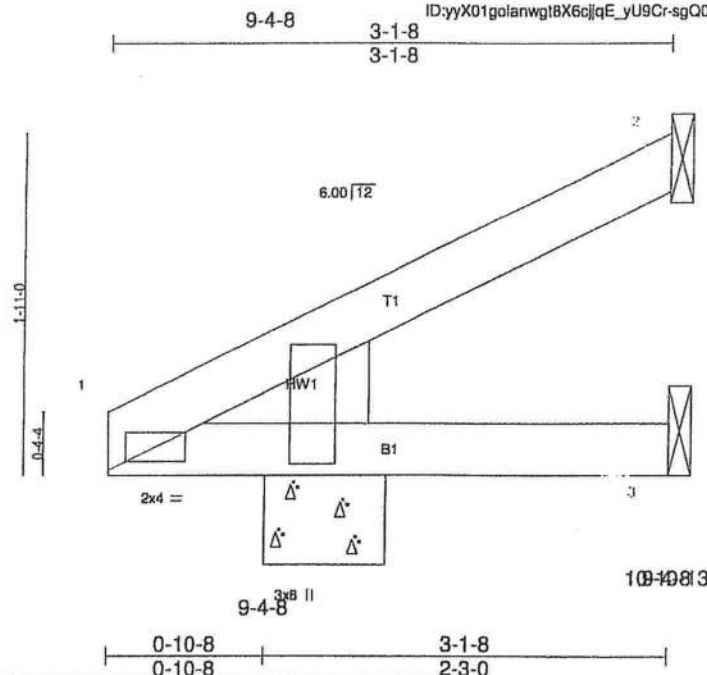


JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Tomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluota, FL 32766 407-484-0037
SIERRA	J5X	JACK	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek, Inc. Tue Jul 10 08:39:04 2012 Page 1
ID:yyX01golanwgl8X6clqE_yU9Cr-sg00bu?3BUCGh_rzZ?x?UXmo4w4li9KTAVL3b?yzXat



Scale = 1:11.4

Plate Offsets (X,Y): [1:0-1-3,Edge], [1:0-0-7,1-0-3]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.04	Vert(LL)	-0.00	4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.04	Vert(TL)	-0.00	4	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						Weight: 12 lb	FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEDGE
Left: 2x6 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=29/Mechanical, 3=7/Mechanical, 1=142/0-8-0 (min. 0-1-8)
Max Horz 1=62(LC 10)
Max Uplift 2=40(LC 10), 1=-29(LC 10)
Max Grav 2=36(LC 2), 3=24(LC 3), 1=161(LC 2)

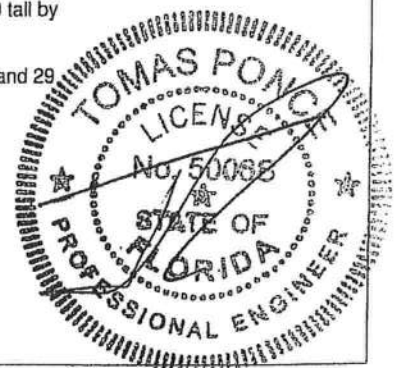
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-33/58
BOT CHORD 1-7=-50/0, 1-4=-49/77, 1-3=0/0

NOTES (6)

- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 29 lb uplift at joint 1.
- 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

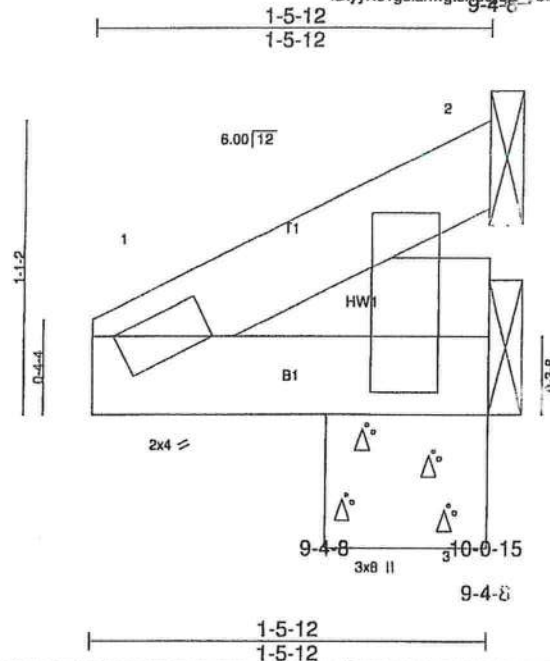


JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluto, FL 32766 407-484-0037
SIERRA	J6X	JACK	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7:340 s Mar 28 2012 MitTek Industries, Inc. Tue Jul 10 08:39:05 2012 Page 1
ID:yyX01golanwgl8X6qjofE_yU9Cr-Ks_OpE0hyoK7J8Q97JSE0kZjKP1RcadP94c7RyzXaK



Scale = 1:7.6

Plate Offsets (X,Y): [1:0-0-13,Edge], [1:0-2-8,1-0-7]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.01	Vert(LL)	-0.00	1	>999	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.01	Vert(TL)	-0.00	1	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	2	n/a	n/a	
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
								Weight: 6 lb	FT = 0%

LUMBER
TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEDGE
Left: 2x4 SP 1500F 1.6E

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-5-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

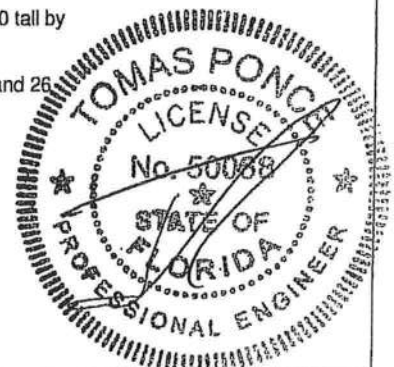
MitTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=12/Mechanical, 1=35/0-7-4 (min. 0-1-8), 2=23/Mechanical
Max Horz 1=26(LC 10)
Max Uplift 1=5(LC 10), 2=26(LC 10)
Max Grav 3=24(LC 3), 1=40(LC 2), 2=28(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=20/17
BOT CHORD 1-3=0/0

- NOTES** (6)
- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) and C-C Interior(1) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 26 lb uplift at joint 2.
 - 6) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

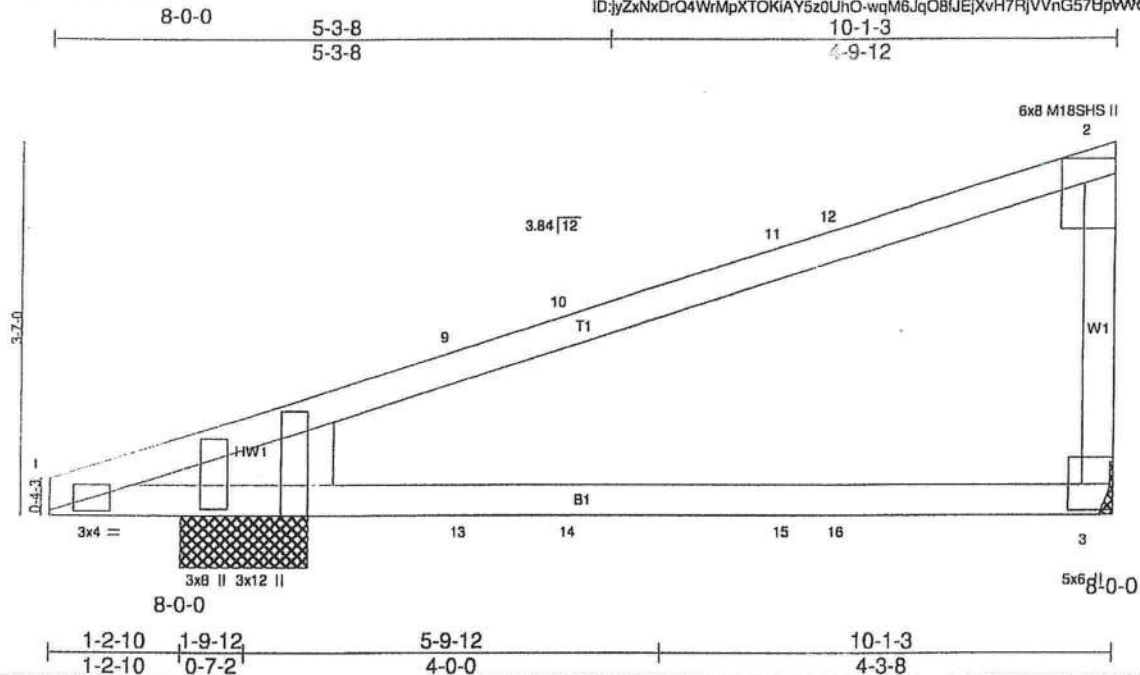


JUL 25 2012

Job	Truss	Truss Type	Qty	Ply	SIERRA_FRC_10_	Thomas Ponce, MSCE, PE FL PE# 50068 367 Medallion Place Chuluta, FL 32766 407-484-0037
SIERRA	JGRD1X	MONO TRUSS	1	1	Job Reference (optional)	

Maronda Homes Inc., Sanford, FL

7.340 s Mar 28 2012 MiTek Industries, Inc. Tue Jul 10 08:39:36 2012 Page 1
ID:jyZxNxDrQ4WmMpXTOKIAY5z0UhO-wqM6JqOBIEjXvH7RjVVnG57BpWNCeFBXU5liByzXZ



Scale = 1:19.7

Plate Offsets (X,Y): [1:0-0-9,Edge], [1:0-0-3,1-4-13], [1:0-2-10,0-0-0], [2:0-2-14,Edge], [3:Edge,0-3-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plates Increase	1.25	TC 0.59	Vert(LL)	0.14	3-8	>841	240	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.44	Vert(TL)	-0.25	3-8	>484	180	M18SHS
BCLL 0.0	Rep Stress Incr	NO	WB 0.00	Horz(TL)	0.01	1	n/a	n/a	
BCDL 10.0	Code FRC2010/TPI2007		(Matrix-M)						
									Weight: 41 lb FT = 0%

LUMBER

TOP CHORD 2x4 SP 1500F 1.6E
BOT CHORD 2x4 SP 1500F 1.6E
WEBS 2x4 SP 1500F 1.6E
WEDGE
Left: 2x8 SYP No.2

BRACING

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

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

REACTIONS

(lb/size) 3=279/Mechanical, 1=303/1-2-5 (min. 0-1-8)
Max Horz 1=130(LC 4)
Max Uplift 3=162(LC 4), 1=121(LC 4)
Max Grav 3=317(LC 2), 1=345(LC 2)

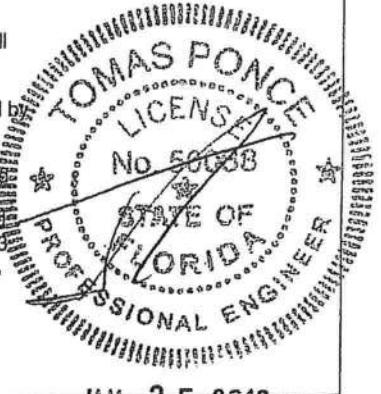
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-7=-1/15, 1-1=-122/36, 1-9=-205/68, 9-10=-187/61, 10-11=-175/59, 11-12=-150/44, 2-12=-114/41,
2-3=-185/172
BOT CHORD 1-8=0/0, 1-4=-151/124, 1-13=-98/166, 13-14=-98/166, 14-15=-98/166, 15-16=-98/166, 3-16=-98/166

NOTES (10)

- 1) Wind: ASCE 7-10; 160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 3 and 121 lb uplift at joint 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6 lb down and 39 lb up at 2-4-12, 39 lb up at 3-11-6, 45 lb up at 5-0-0, and 36 lb down and 76 lb up at 7-0-14, and 24 lb down and 75 lb up at 7-7-4 on top chord, and 16 lb up at 2-4-12, 18 lb up at 3-11-6, 16 lb up at 5-0-0, and 29 lb down at 7-0-14, and 18 lb down and 3 lb up at 7-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This truss is also designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



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