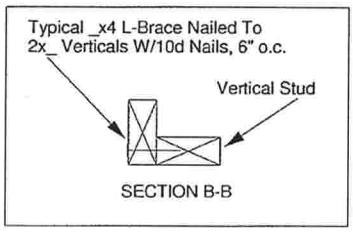
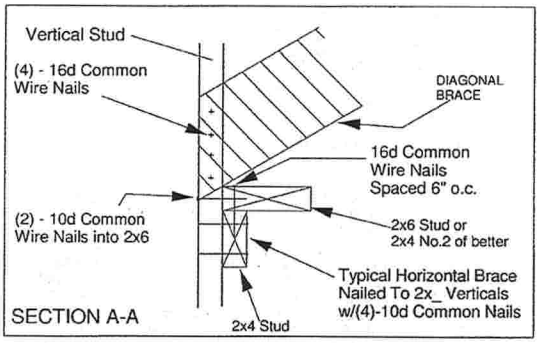
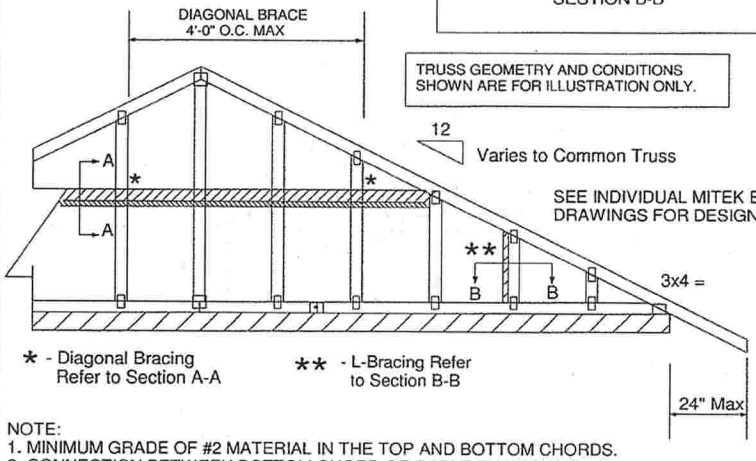
FEBRUARY 14, 2012	Standard Gable End Detail	ST-GE130-001

MiTek Industries, Inc.







TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

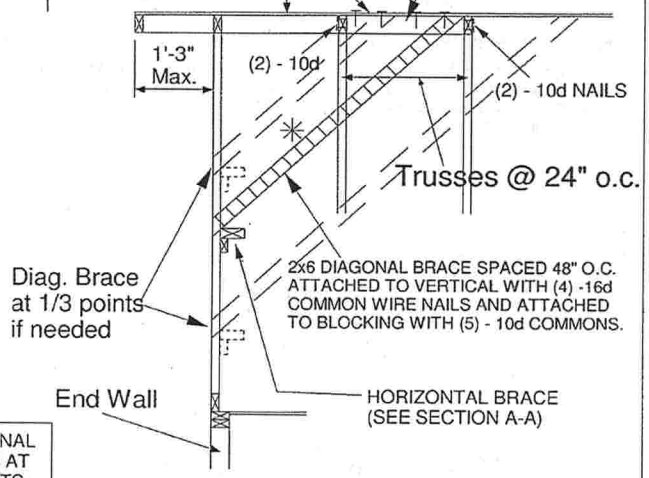
* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

24" Max

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d COMMON WIRE NAILS.

(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK



NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SPF Std/Stud	12" O.C.	4-0-7	4-3-2	6-0-4	8-0-15	12-1-6
2x4 SPF Std/Stud	16" O.C.	3-7-0	3-8-4	5-2-10	7-1-15	10-8-15
2x4 SPF Std/Stud	24" O.C.	2-11-1	3-0-2	4-3-2	5-10-3	8-9-4

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

1109 COASTAL BAY
BOYNTON BC, FL 33435

FEBRUARY 8, 2008	LATERAL BRACING RECOMMENDATIONS	ST-STRGBCK

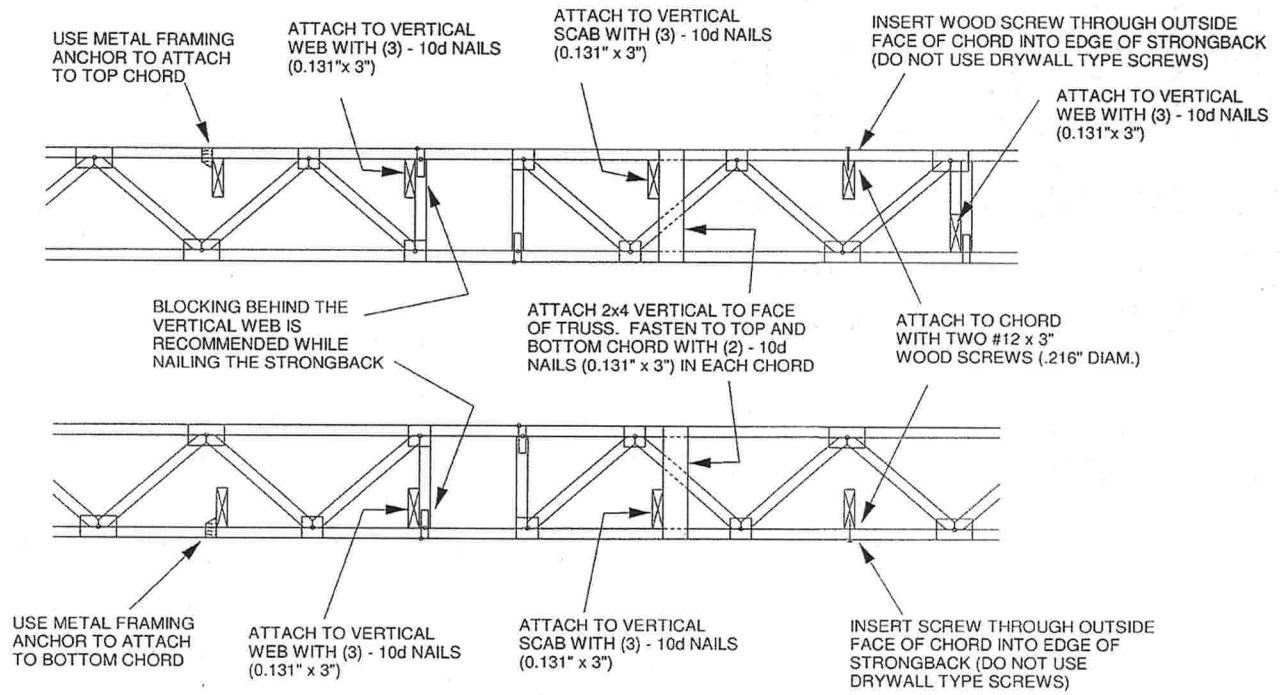
MiTek Industries, Chesterfield, MO

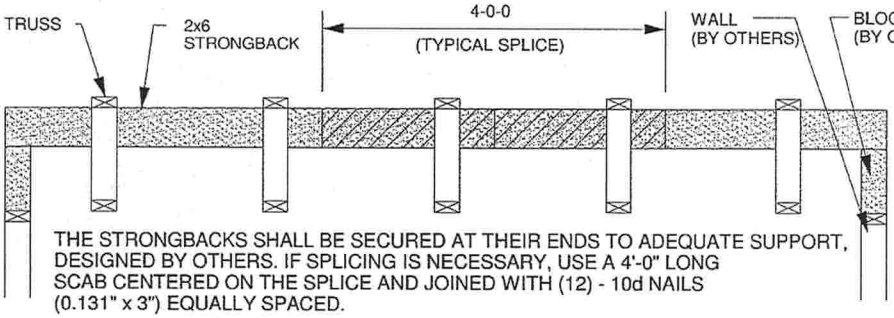
MiTek Industries, Inc.

TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





THE STRONGBACKS SHALL BE SECURED AT THEIR ENDS TO ADEQUATE SUPPORT, DESIGNED BY OTHERS. IF SPLICING IS NECESSARY, USE A 4'-0" LONG SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d NAILS (0.131" x 3") EQUALLY SPACED.

ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d NAILS (0.131" x 3") STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

1109 COASTAL BAY
BOYNTON BC, FL 33435

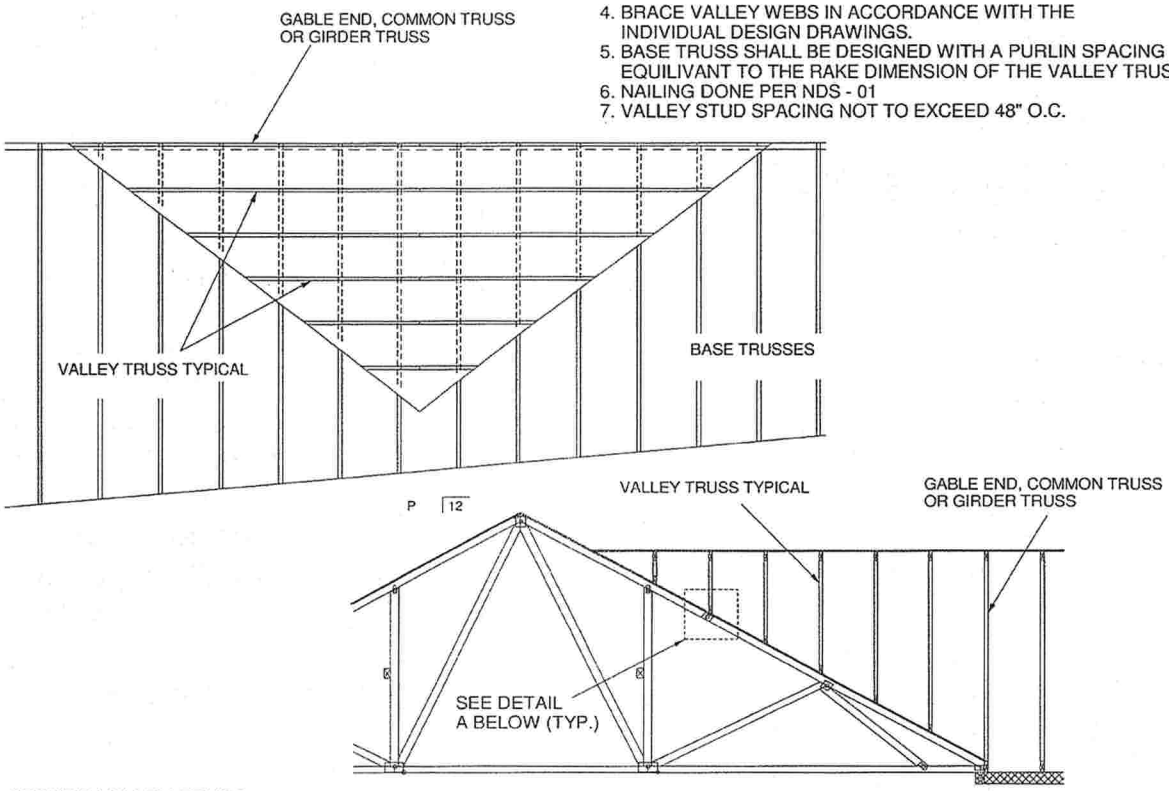
FEBRUARY 14, 2012	TRUSSED VALLEY SET DETAIL	ST-VALLEY HIGH WIND1

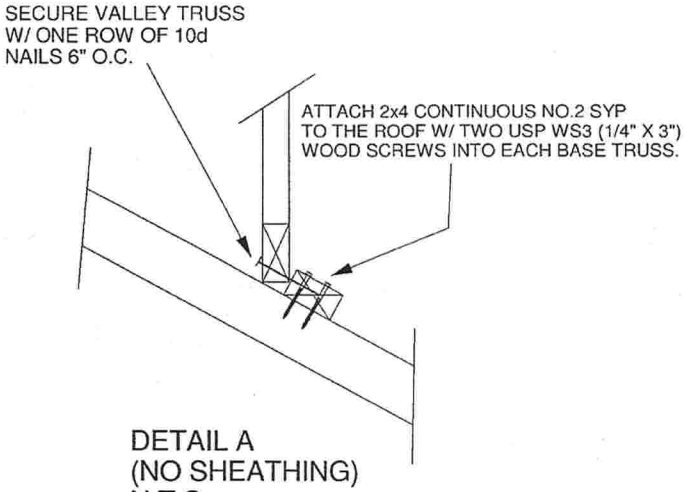
MiTek Industries, Chesterfield, MO

MiTek Industries, Inc.

GENERAL SPECIFICATIONS

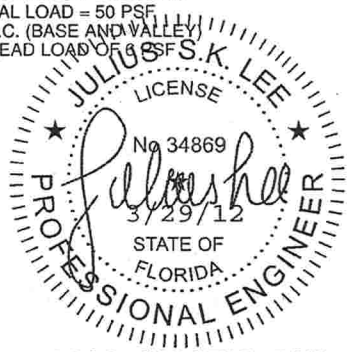
1. NAIL SIZE = 3" X 0.131" = 10d
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
   DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
   SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
   INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
   EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.





DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



1109 COASTAL BAY
BOYNTON BC,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T19G	Common Truss	1	1	I6380650
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:59:14 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-fgR1qQ0Rw8oMOdtlxFeQXbXwNTJTc_A1M3KWVHznBjx

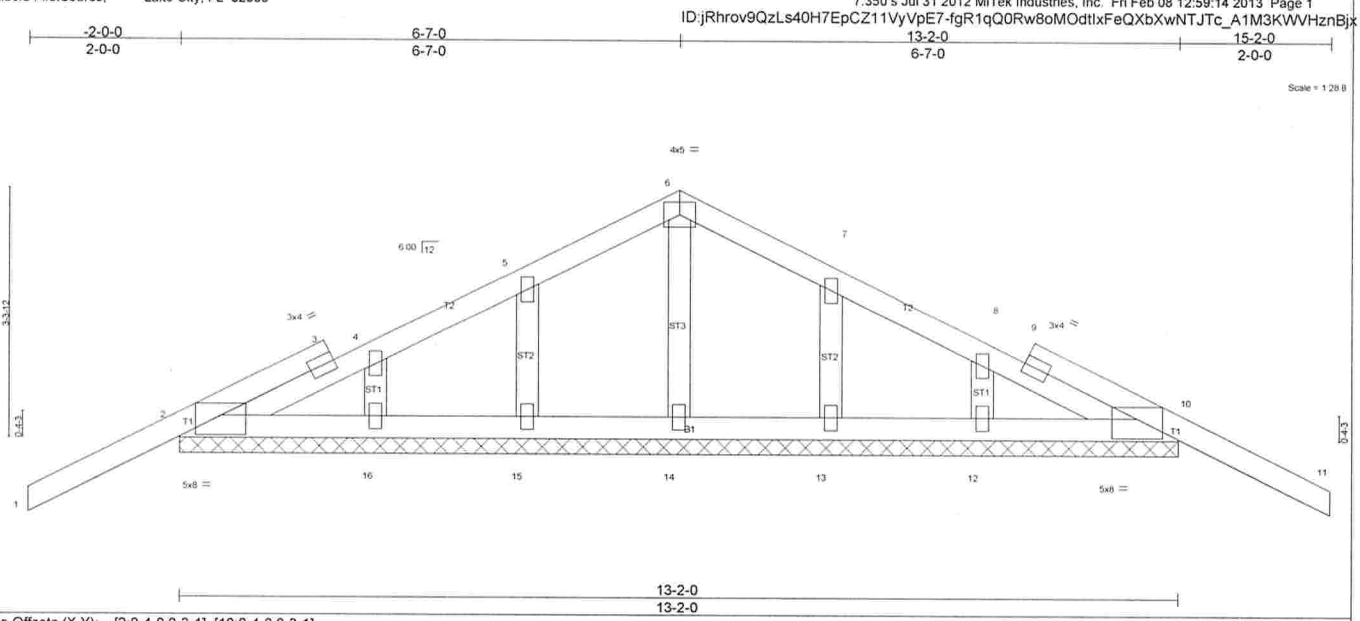


Plate Offsets (X,Y): [2:0-4-0,0-3-1], [10:0-4-0,0-3-1]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.02	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.04	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix)							Weight: 65 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP 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.

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

REACTIONS All bearings 13-2-0.
(lb) - Max Horz 2=83(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 16, 12 except 2=-124(LC 12), 10=-137(LC 13), 15=-107(LC 12), 13=-106(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES (12-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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 Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 12 except (jt=lb) 2=124, 10=137, 15=107, 13=106.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
13) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
14) 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

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T19	COMMON TRUSS	1	2	I6380649
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:59:13 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-BTtfc4?p9qgVnTl6NY7B?N_IJ4ottMIu7PayzrznBjy

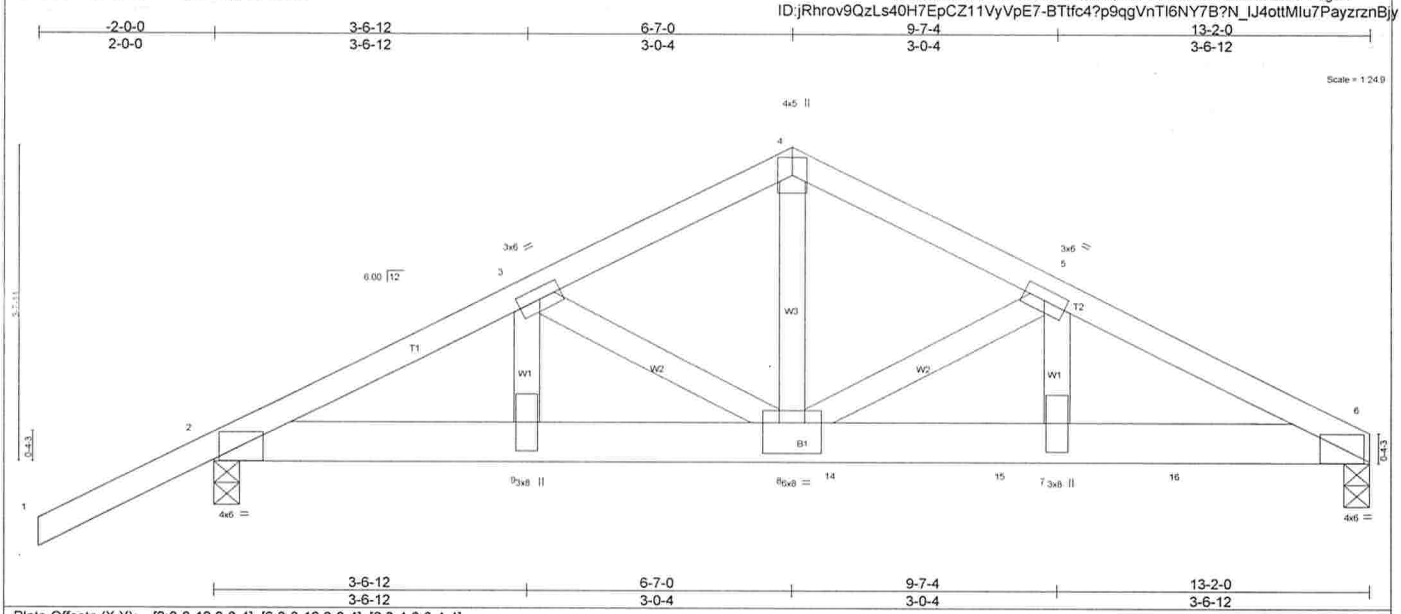


Plate Offsets (X,Y): [2:0-0-12,0-0-4], [6:0-0-12,0-0-4], [8:0-4-0,0-4-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.15	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 148 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SYP No.2
WEBS 2x4 SP No.3

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

REACTIONS (lb/size) 6=2938/0-3-8 (min. 0-2-0), 2=1799/0-3-8 (min. 0-1-8)
Max Horz 2=111(LC 8)
Max Uplift6=-1025(LC 9), 2=-765(LC 8)
Max Grav 6=3421(LC 2), 2=2127(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4105/1358, 3-4=-4260/1435, 4-5=-4258/1427, 5-6=-6701/2040
BOT CHORD 2-9=-1227/3647, 8-9=-1227/3647, 8-14=-1772/5956, 14-15=-1772/5956, 7-15=-1772/5956, 7-16=-1772/5956, 6-16=-1772/5956
WEBS 4-8=-1174/3580, 5-8=-2505/726, 5-7=-516/2172, 3-8=-256/290, 3-9=-285/154

NOTES (11-13)
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 0-5-0 oc.
Webs connected as follows: 2x4 - 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 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1025, 2=765.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2268 lb down and 852 lb up at 7-1-9, and 1165 lb down and 264 lb up at 9-0-12, and 1165 lb down and 251 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Continued on page 2

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T18	Common Truss	1	2	I6380648

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:59:11 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-F5lvCO_ZdDPnX98kF75jvyvQYG8MPVQbg55rvzznBk

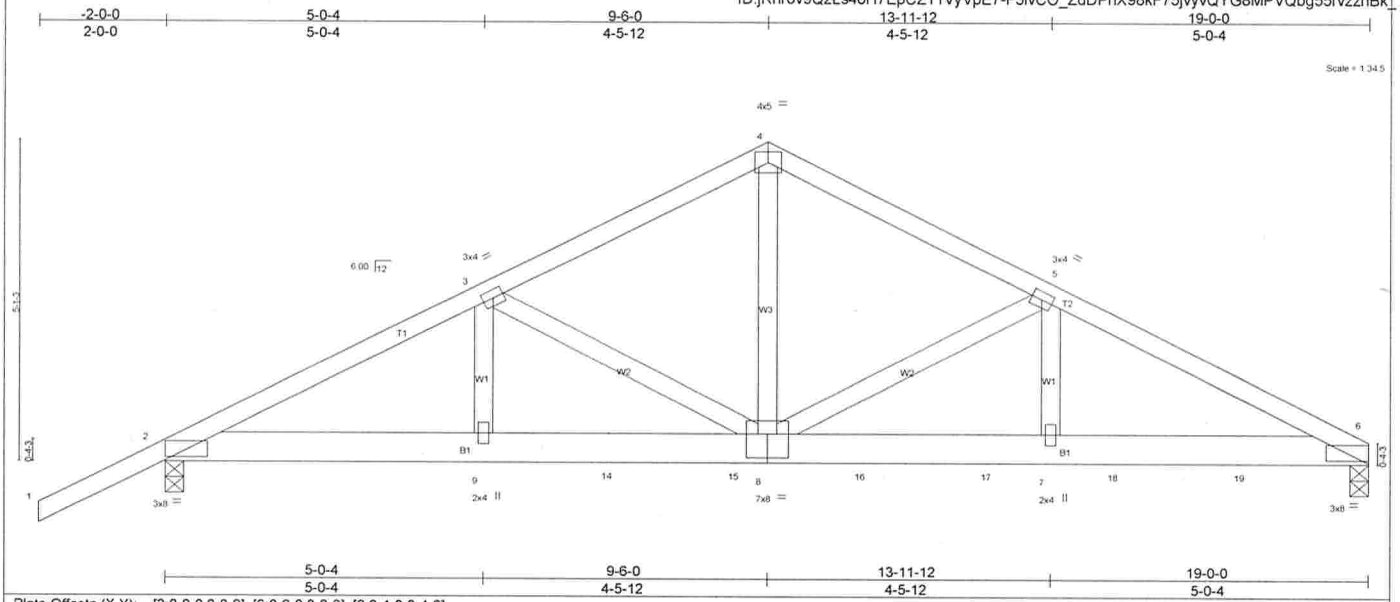


Plate Offsets (X,Y): [2:0-8-0,0-0-9], [6:0-8-0,0-0-9], [8:0-4-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.17	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 213 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SYP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=2264/0-3-8 (min. 0-1-9), 2=1758/0-3-8 (min. 0-1-8)
Max Horz 2=141(LC 8)
Max Uplift6=-929(LC 9), 2=-798(LC 8)
Max Grav 6=2683(LC 2), 2=2091(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4236/1503, 3-4=-3401/1211, 4-5=-3405/1208, 5-6=-5056/1728
BOT CHORD 2-9=-1369/3744, 9-14=-1369/3744, 14-15=-1369/3744, 8-15=-1369/3744, 8-16=-1476/4487, 16-17=-1476/4487, 7-17=-1476/4487, 7-18=-1476/4487, 18-19=-1476/4487, 6-19=-1476/4487
WEBS 4-8=-941/2755, 5-8=-1712/685, 5-7=-366/1285, 3-8=-863/453, 3-9=-174/558

NOTES (11-13)
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.
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; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=929, 2=798.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 904 lb down and 343 lb up at 7-0-12, 514 lb down and 173 lb up at 9-0-12, 517 lb down and 157 lb up at 11-0-12, 512 lb down and 163 lb up at 13-0-12, and 510 lb down and 164 lb up at 15-0-12, and 492 lb down and 155 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Continued on page 2

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T17	Common Truss	1	1	I6380646
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:59:08 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-qW4mZMxgLI1DgiP9a?X0IKHvo384CEd9_7tBleznBk1

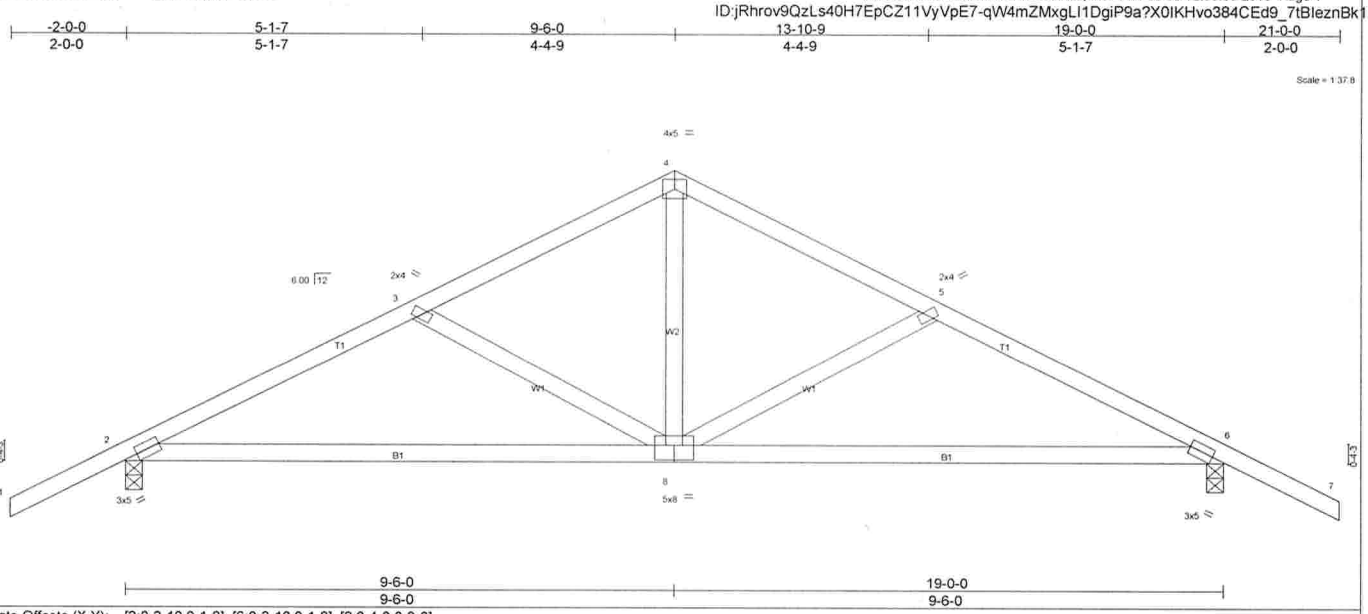


Plate Offsets (X,Y): [2:0-2-10,0-1-8], [6:0-2-10,0-1-8], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.10	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.19	8-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 88 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-2 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=601/0-3-8 (min. 0-1-8), 6=601/0-3-8 (min. 0-1-8)
Max Horz 2=121(LC 12)
Max Uplift 2=-332(LC 12), 6=-332(LC 13)
Max Grav 2=716(LC 2), 6=716(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1046/625, 3-4=-769/475, 4-5=-769/475, 5-6=-1061/625
BOT CHORD 2-8=-426/1241, 6-8=-431/1314
WEBS 4-8=-225/401, 5-8=-322/295, 3-8=-323/295

NOTES (8-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 332 lb uplift at joint 2 and 332 lb uplift at joint 6.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

February 8,2013

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T15	Hip Truss	1	1	I6380644
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:59:06 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-u7y08hwQpgnVROGmTaVYCvCWyFU0kKgsWpO4ElznBk3

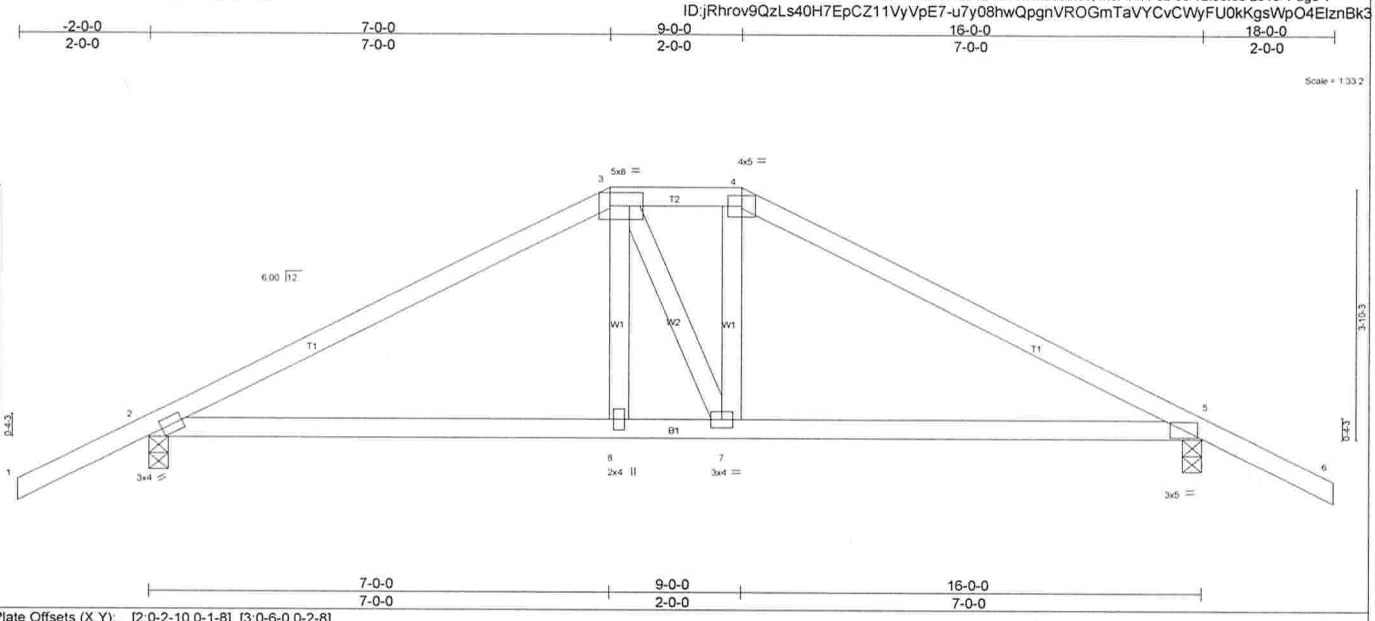


Plate Offsets (X,Y): [2:0-2-10,0-1-8], [3:0-6-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.10	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.11	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(TL)	0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 72 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-2-2 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=828/0-3-8 (min. 0-1-8), 5=837/0-3-8 (min. 0-1-8)
Max Horz 2=56(LC 12)
Max Uplift2=-612(LC 5), 5=-626(LC 4)
Max Grav 2=984(LC 2), 5=995(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1448/1032, 3-4=-1249/986, 4-5=-1475/1065
BOT CHORD 2-8=-883/1215, 7-8=-895/1226, 5-7=-889/1239
WEBS 3-8=-304/356, 4-7=-281/346

NOTES (11-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 612 lb uplift at joint 2 and 626 lb uplift at joint 5.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 92 lb up at 7-0-0, and 178 lb down and 238 lb up at 9-0-0 on top chord, and 241 lb down and 262 lb up at 7-0-0, and 241 lb down and 262 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
13) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-44, 4-6=-44, 9-12=-10
Concentrated Loads (lb)
Vert: 3=-69(B) 4=-146(B) 8=-205(B) 7=-205(B)

February 8,2013

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibillity of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

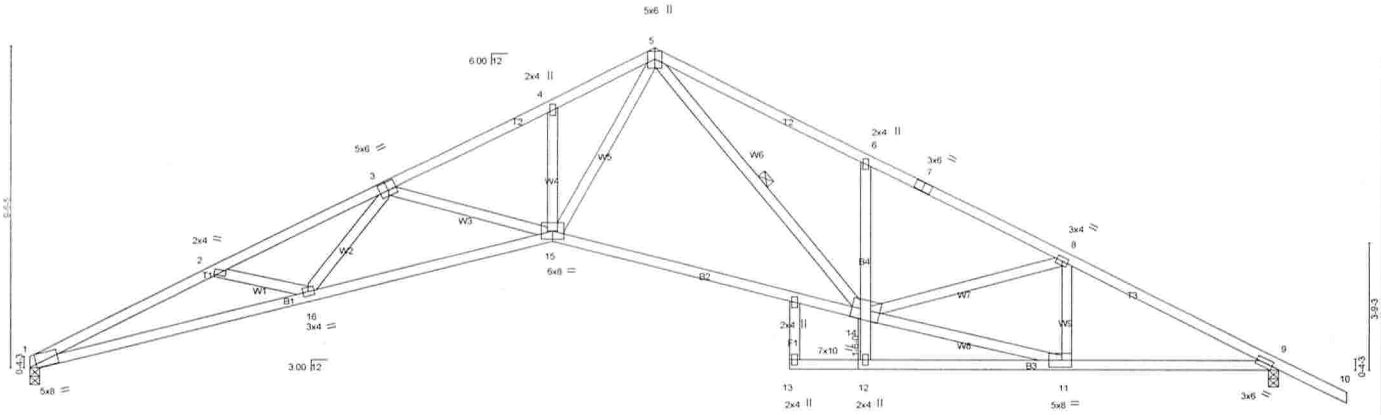
Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T13	Special Truss	3	1	I6380642
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:59:03 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-UYGtWftYWlPwaxXBnRxrbGaze2KPXqmPqr9QdQznBk6

5-7-1	10-6-9	15-4-4	18-4-4	24-5-0	30-5-12	36-8-8	38-8-8
5-7-1	4-11-8	4-9-11	3-0-0	6-0-12	6-0-12	6-2-12	2-0-0

Scale: 3/16"=1'



8-2-3	15-4-4	22-4-0	24-5-0	30-5-12	36-8-8
8-2-3	7-2-1	6-11-12	2-1-0	6-0-12	6-2-12

Plate Offsets (X,Y): [1:0-2-7,Edge], [3:0-3-0,0-3-0], [9:0-2-9,0-1-8], [11:0-3-8,0-2-8], [14:0-3-3,0-3-6]

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)	0.56	15-16	>793	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.97	Vert(TL)	-0.98	14-15	>451	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.49	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 202 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B4: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 5-14

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

REACTIONS (lb/size) 1=993/0-3-8 (min. 0-1-8), 9=1099/0-3-8 (min. 0-1-10)
Max Horz 1=-142(LC 8)
Max Uplift 1=-279(LC 12), 9=-317(LC 13)
Max Grav 1=1175(LC 2), 9=1304(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4392/2401, 2-3=-4077/2176, 3-4=-3262/1676, 4-5=-3256/1779, 5-6=-2646/1603, 6-7=-2461/1403, 7-8=-2565/1392, 8-9=-2304/1274
BOT CHORD 1-16=-2064/4034, 15-16=-1657/3593, 14-15=-636/1908, 6-14=-413/388, 9-11=-988/2269
WEBS 2-16=-291/327, 3-16=-152/335, 3-15=-666/534, 5-15=-994/2067, 5-14=-563/689, 11-14=-962/2051, 8-11=-486/295

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 1 and 317 lb uplift at joint 9.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
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

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T11	Hip Truss	1	1	I6380640
					Job Reference (optional)

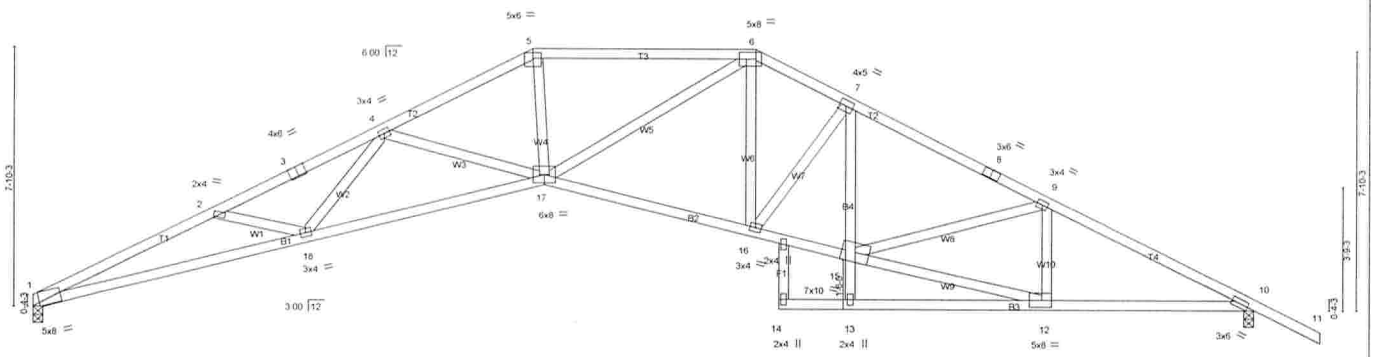
Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:59:00 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-3zbludrfDq1LjToc6JO8zeyR9qJgKUhz8txm05znBk9

5-7-1	10-6-8	15-0-0	21-8-8	24-5-0	30-5-12	36-8-8	38-8-8
5-7-1	4-11-7	4-5-8	6-8-8	2-8-8	6-0-12	6-2-12	2-0-0

Scale = 1:65.7



8-2-3	15-4-4	21-8-8	22-5-0	24-5-0	30-5-12	36-8-8
8-2-3	7-2-1	6-4-4	0-8-8	2-0-0	6-0-12	6-2-12

Plate Offsets (X,Y): [1:0-2-7,Edge], [3:0-3-0,Edge], [5:0-3-0,0-2-0], [6:0-6-0,0-2-8], [10:0-2-9,0-1-8], [12:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	0.53	17-18	>826	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.87	17-18	>506	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(TL)	0.49	10	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 202 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SYP No.1
BOT CHORD 2x4 SP No.2 *Except*
B4: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 13-15

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

REACTIONS (lb/size) 1=993/0-3-8 (min. 0-1-8), 10=1099/0-3-8 (min. 0-1-10)
Max Horz 1=-120(LC 13)
Max Uplift 1=-262(LC 12), 10=-299(LC 13)
Max Grav 1=1175(LC 2), 10=1303(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4366/2358, 2-3=-4036/2111, 3-4=-3996/2121, 4-5=-3223/1632, 5-6=-2957/1553, 6-7=-2361/1321, 7-8=-2438/1357, 8-9=-2497/1337, 9-10=-2293/1257
BOT CHORD 1-18=-2026/4012, 17-18=-1594/3532, 16-17=-792/2127, 15-16=-934/2257, 10-12=-976/2194
WEBS 2-18=-311/343, 4-18=-164/359, 4-17=-638/509, 5-17=-500/1127, 6-17=-394/1000, 6-16=-203/311, 12-15=-969/2011, 9-15=-42/251, 9-12=-464/290

NOTES (10-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 1 and 299 lb uplift at joint 10.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
11) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
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

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T09	Hip Truss	1	1	I6380638
					Job Reference (optional)

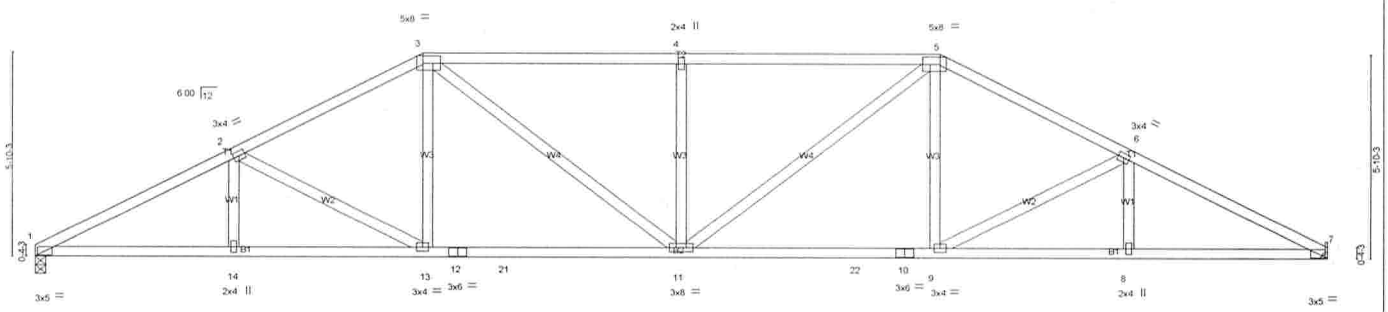
Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:56 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-BCLE2Go99cWvEsVrtTJCoonneD2QOI4NDGzZtKznBkD

5-7-11	11-0-0	18-4-4	25-8-8	31-0-13	36-8-8
5-7-11	5-4-5	7-4-4	7-4-4	5-4-5	5-7-11

Scale = 1:62.1



5-7-11	11-0-0	18-4-4	25-8-8	31-0-13	36-8-8
5-7-11	5-4-5	7-4-4	7-4-4	5-4-5	5-7-11

Plate Offsets (X,Y): [3:0-6-0,0-2-8], [5:0-6-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	0.23	11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.34	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(TL)	0.12	7	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 188 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-1 oc bracing.

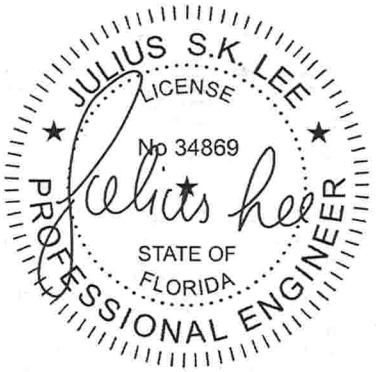
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=1058/0-3-8 (min. 0-1-8), 7=1058/Mechanical
Max Horz 1=75(LC 9)
Max Uplift 1=-241(LC 12), 7=-241(LC 13)
Max Grav 1=1175(LC 2), 7=1175(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2411/1274, 2-3=-2087/1132, 3-4=-2206/1269, 4-5=-2206/1269, 5-6=-2087/1132, 6-7=-2411/1274
BOT CHORD 1-14=-1048/2086, 13-14=-1048/2086, 12-13=-778/1766, 12-21=-778/1766, 11-21=-778/1766, 11-22=-778/1766, 10-22=-778/1766, 9-10=-778/1766, 8-9=-1048/2086, 7-8=-1048/2086
WEBS 2-13=-370/308, 3-13=-110/310, 3-11=-244/544, 4-11=-458/342, 5-11=-244/544, 5-9=-110/310, 6-9=-370/308

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 1 and 241 lb uplift at joint 7.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T07	HIP TRUSS	1	2	I6380636 Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:52 2013 Page 2

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-IR6jCule6N0UlFB4eeFGeyd8Fcd2Syfole?LkZznBkH

NOTES (12-15)

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 92 lb up at 7-0-0, 85 lb down and 92 lb up at 9-0-12, 85 lb down and 92 lb up at 11-0-12, 85 lb down and 92 lb up at 13-0-12, 85 lb down and 92 lb up at 15-0-12, 85 lb down and 92 lb up at 17-0-12, 85 lb down and 92 lb up at 19-0-12, 85 lb down and 92 lb up at 21-0-12, 85 lb down and 92 lb up at 23-0-12, 85 lb down and 92 lb up at 25-0-12, and 85 lb down and 92 lb up at 27-0-12, and 85 lb down and 92 lb up at 29-0-12 on top chord, and 241 lb down and 262 lb up at 7-0-0, 49 lb down at 9-0-12, 49 lb down at 11-0-12, 49 lb down at 13-0-12, 49 lb down at 15-0-12, 49 lb down at 17-0-12, 49 lb down at 19-0-12, 49 lb down at 21-0-12, 49 lb down at 23-0-12, 49 lb down at 25-0-12, 49 lb down at 27-0-12, 49 lb down at 29-0-12, 157 lb down and 84 lb up at 31-0-12, and 157 lb down and 84 lb up at 33-0-12, and 157 lb down and 84 lb up at 35-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

13) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.

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

15) Use Simpson HHUS26-2 to attach Truss to Carrying member

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-44, 3-8=-44, 8-9=-44, 17-20=-10

Concentrated Loads (lb)

Vert: 3=-69(B) 16=-205(B) 14=-22(B) 10=-131(B) 23=-69(B) 24=-69(B) 25=-69(B) 26=-69(B) 27=-69(B) 28=-69(B) 29=-69(B) 30=-69(B) 31=-69(B) 32=-69(B) 33=-69(B) 34=-22(B) 35=-22(B) 36=-22(B) 37=-22(B) 38=-22(B) 39=-22(B) 40=-22(B) 41=-22(B) 42=-22(B) 43=-22(B) 44=-131(B) 45=-131(B)

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T06	Hip Truss	1	1	I6380635
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:48 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-QfsCNXi728W2HduJPoAJU6STI?KkW7wCN017boznBkL

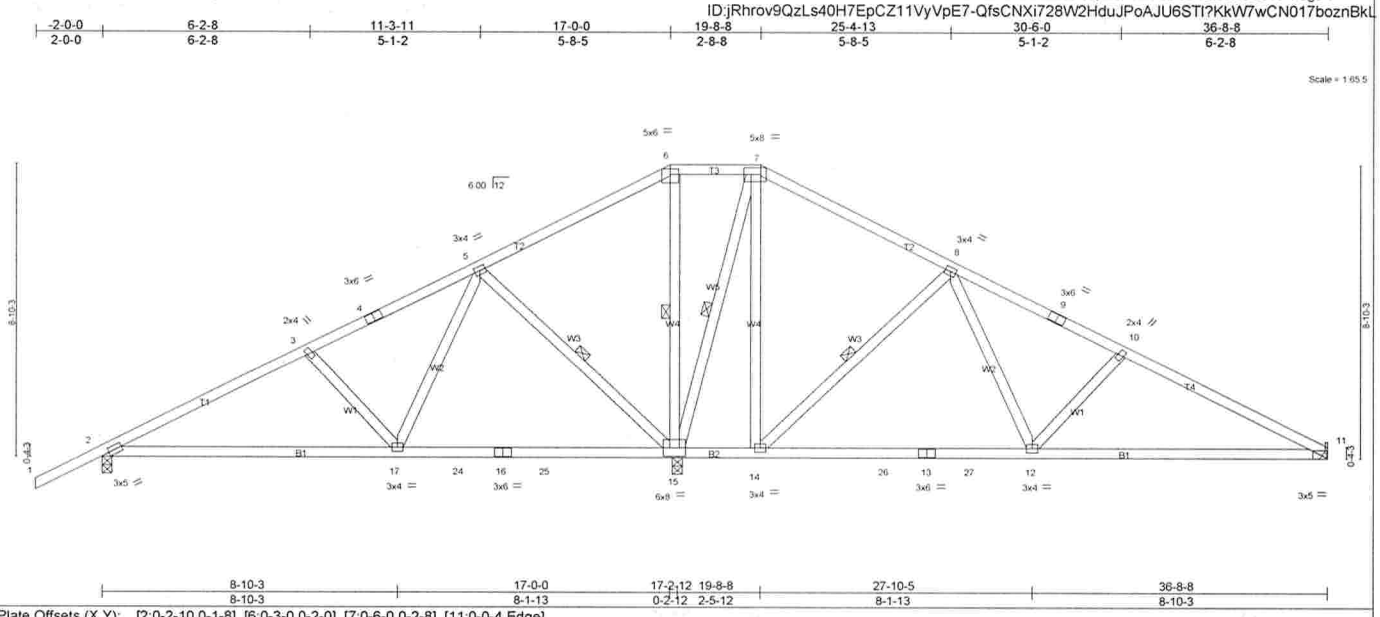


Plate Offsets (X,Y): [2:0-2-10,0-1-8], [6:0-3-0,0-2-0], [7:0-6-0,0-2-8], [11:0-0-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.12	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.20	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 209 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 12-23.
WEBS 1 Row at midpt 5-15, 6-15, 7-15, 8-14

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

REACTIONS (lb/size) 2=375/0-3-8 (min. 0-1-8), 15=1469/0-3-8 (min. 0-2-2), 11=383/Mechanical
Max Horz 2=133(LC 16)
Max Uplift2=-135(LC 12), 15=-342(LC 12), 11=-145(LC 13)
Max Grav 2=522(LC 27), 15=1565(LC 2), 11=502(LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-989/193, 3-4=-293/121, 5-6=-143/558, 6-7=-53/443, 7-8=-13/312, 8-9=-385/284, 9-10=-498/267, 10-11=-768/449
BOT CHORD 2-17=-276/1251, 14-15=-313/378, 14-26=-53/265, 13-26=-53/265, 13-27=-53/265, 12-27=-53/265, 11-12=-620/974
WEBS 3-17=-309/286, 5-17=-177/413, 5-15=-620/448, 6-15=-452/230, 7-15=-867/462, 7-14=-276/499, 8-14=-622/452, 8-12=-184/413, 10-12=-304/288

NOTES (9-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 2, 342 lb uplift at joint 15 and 145 lb uplift at joint 11.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
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

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T04	Hip Truss	1	1	I6380633
					Job Reference (optional)

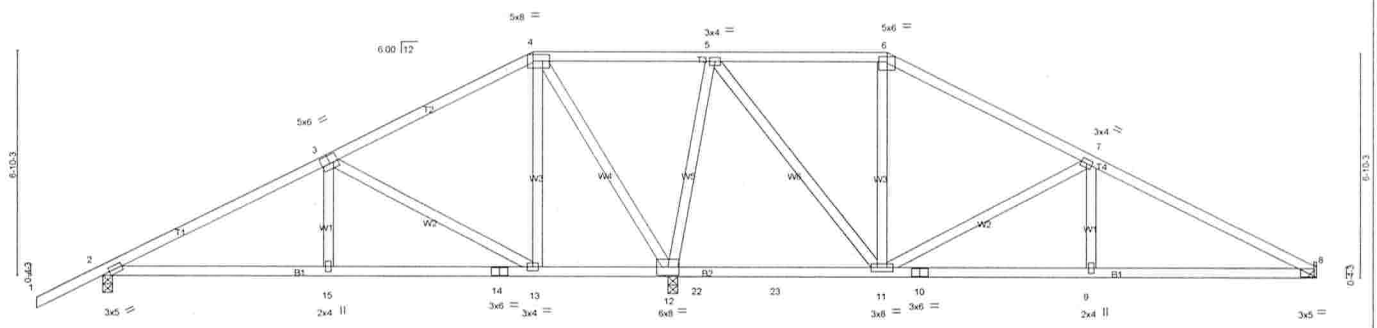
Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:45 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-04B4kVgFID8TQA9kkgdcsTqyKnMsJg2mh2oT_TznBkO

-2-0-0	6-9-14	13-0-0	18-4-4	23-8-8	29-10-10	36-8-8
2-0-0	6-9-14	6-2-2	5-4-4	5-4-4	6-2-2	6-9-14

Scale = 1:66.1



6-9-14	13-0-0	17-2-12	23-8-8	29-10-10	36-8-8
6-9-14	6-2-2	4-2-12	6-5-12	6-2-2	6-9-14

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.04	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.07	9-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 198 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 8=410/Mechanical, 2=412/0-3-8 (min. 0-1-8), 12=1320/0-3-8 (min. 0-1-15)
Max Horz 2=108(LC 12)
Max Uplift 8=-153(LC 13), 2=-156(LC 12), 12=-258(LC 12)
Max Grav 8=522(LC 28), 2=544(LC 27), 12=1481(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-968/264, 4-5=-96/455, 6-7=-294/193, 7-8=-809/518
BOT CHORD 2-15=-379/1225, 14-15=-131/431, 13-14=-131/431, 12-22=-370/351, 22-23=-370/351, 11-23=-370/351, 10-11=-244/607, 9-10=-244/607, 8-9=-714/1053
WEBS 3-13=-552/401, 4-13=-157/301, 4-12=-730/423, 5-12=-891/538, 5-11=-375/707, 7-11=-532/408

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 8, 156 lb uplift at joint 2 and 258 lb uplift at joint 12.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

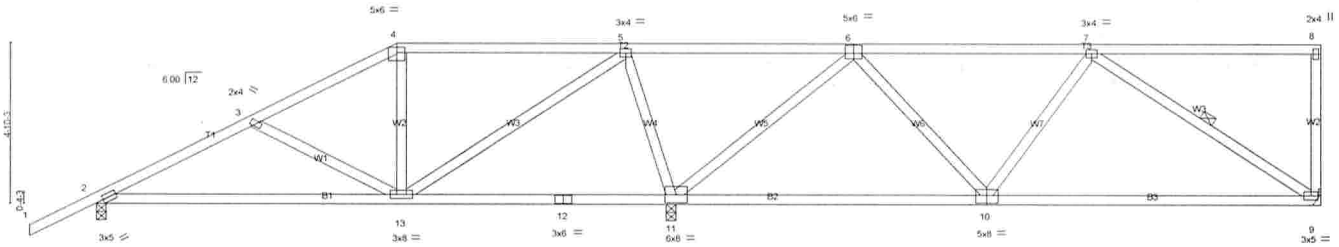
Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T02	Half Hip Truss	1	1	I6380631
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:43 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-3i3JJpe?DcumAs?LcFa8n2IZ1_a1rlLTEkJNwaznBkQ

-2-0-0	4-9-5	9-0-0	15-10-5	22-8-11	29-10-2	36-8-8
2-0-0	4-9-5	4-2-11	6-10-5	6-10-5	7-1-7	6-10-6

Scale = 1:65.6



9-0-0	17-2-12	26-8-8	36-8-8
9-0-0	8-2-12	9-5-12	10-0-1

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.23	9-10	>998	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.41	9-10	>564	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 191 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-9

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

REACTIONS (lb/size) 9=426/Mechanical, 2=458/0-3-8 (min. 0-1-8), 11=1179/0-3-8 (min. 0-1-11)
Max Horz 2=180(LC 12)
Max Uplift 9=-163(LC 8), 2=-139(LC 12), 11=-415(LC 9)
Max Grav 9=524(LC 28), 2=545(LC 2), 11=1399(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-932/325, 3-4=-375/176, 4-5=-306/203, 5-6=-290/475, 6-7=-447/183
BOT CHORD 2-13=-458/1170, 10-11=-124/283, 9-10=-275/504
WEBS 3-13=-310/281, 5-13=-398/653, 5-11=-813/554, 6-11=-906/539, 6-10=-90/324, 7-9=-582/324

NOTES (9-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 9, 139 lb uplift at joint 2 and 415 lb uplift at joint 11.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	T01	Half Hip Truss	1	1	I6380630
					Job Reference (optional)

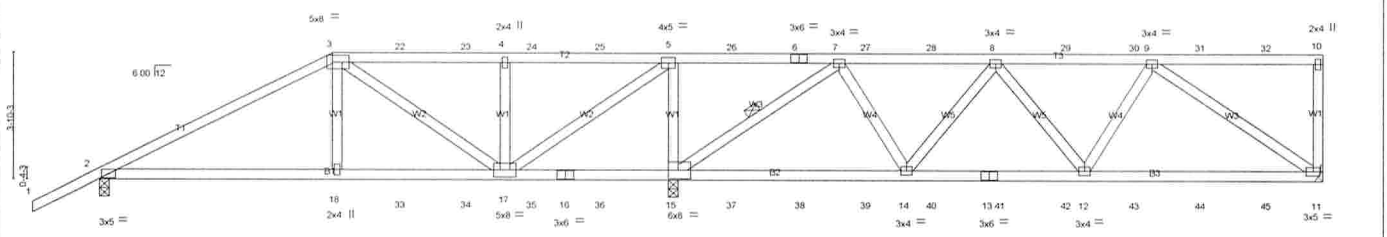
Builders FirstSource, Lake City, FL 32055

7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:41 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-7JxZv8cki?e2xYrzVqYgidfCdAu2NrZAmQqGriznBkS

-2-0-0	7-0-0	12-2-4	17-2-12	22-2-8	26-10-12	31-7-0	36-8-8
2-0-0	7-0-0	5-2-4	5-0-8	4-11-12	4-8-4	4-8-4	5-1-9

Scale = 1:65.6



7-0-0	12-2-4	17-2-12	24-2-11	29-6-13	36-8-8
7-0-0	5-2-4	5-0-8	6-11-15	5-4-2	7-1-12

Plate Offsets (X,Y): [3:0-6-0,0-2-8], [15:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.72	Vert(LL)	-0.13	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.25	11-12	>937	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.04	11	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 192 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.
WEBS 1 Row at midpt 7-15

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

REACTIONS (lb/size) 11=766/Mechanical, 2=647/0-3-8 (min. 0-1-8), 15=2195/0-3-8 (min. 0-3-1)
Max Horz 2=146(LC 8)
Max Uplift 11=-333(LC 4), 2=-344(LC 8), 15=-1065(LC 5)
Max Grav 11=914(LC 22), 2=769(LC 2), 15=2598(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-996/514, 3-22=-324/196, 22-23=-324/196, 4-23=-324/196, 4-24=-324/196, 24-25=-324/196, 5-25=-324/196, 5-26=-433/1009, 6-26=-433/1009, 6-7=-433/1009, 7-27=-739/228, 27-28=-739/228, 8-28=-739/228, 8-29=-1043/352, 29-30=-1043/352, 9-30=-1043/352
BOT CHORD 2-18=-545/910, 18-33=-507/827, 33-34=-507/827, 17-34=-507/827, 17-35=-1009/433, 16-35=-1009/433, 16-36=-1009/433, 15-36=-1009/433, 15-37=-150/432, 37-38=-150/432, 38-39=-150/432, 14-39=-150/432, 14-40=-383/1054, 13-40=-383/1054, 13-41=-383/1054, 41-42=-383/1054, 12-42=-383/1054, 12-43=-371/956, 43-44=-371/956, 44-45=-371/956, 11-45=-371/956
WEBS 3-18=-211/466, 3-17=-610/378, 4-17=-523/305, 5-17=-764/1632, 5-15=-1433/722, 7-15=-1741/706, 7-14=-160/628, 8-14=-532/262, 9-12=0/311, 9-11=-1136/448

NOTES (11-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 11, 344 lb uplift at joint 2 and 1065 lb uplift at joint 15.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 92 lb up at 7-0-0, 85 lb down and 92 lb up at 9-0-12, 85 lb down and 92 lb up at 11-0-12, 85 lb down and 92 lb up at 13-0-12, 85 lb down and 92 lb up at 15-0-12, 85 lb down and 92 lb up at 17-0-12, 85 lb down and 92 lb up at 19-0-12, 85 lb down and 92 lb up at 21-0-12, 85 lb down and 92 lb up at 23-0-12, 85 lb down and 92 lb up at 25-0-12, 85 lb down and 92 lb up at 27-0-12, 85 lb down and 92 lb up at 29-0-12, 85 lb down and 92 lb up at 31-0-12, and 85 lb down and 92 lb up at 33-0-12, and 85 lb down and 92 lb up at 35-0-12 on top chord, and 241 lb down and 262 lb up at 7-0-0, 49 lb down at 9-0-12, 49 lb down at 11-0-12, 49 lb down at 13-0-12, 49 lb down at 15-0-12, 49 lb down at 17-0-12, 49 lb down at 19-0-12, 49 lb down at 21-0-12, 49 lb down at 23-0-12, 49 lb down at 25-0-12, 49 lb down at 27-0-12, 49 lb down at 29-0-12, 49 lb down at 31-0-12, and 49 lb down at 33-0-12, and 49 lb down at 35-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	HJ01	Diagonal Hip Girder	4	1	I6380629
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:40 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-f7NBhoc6xhVBJPGmx61R9Q73wmcteXs1Ym5iJGznBkT

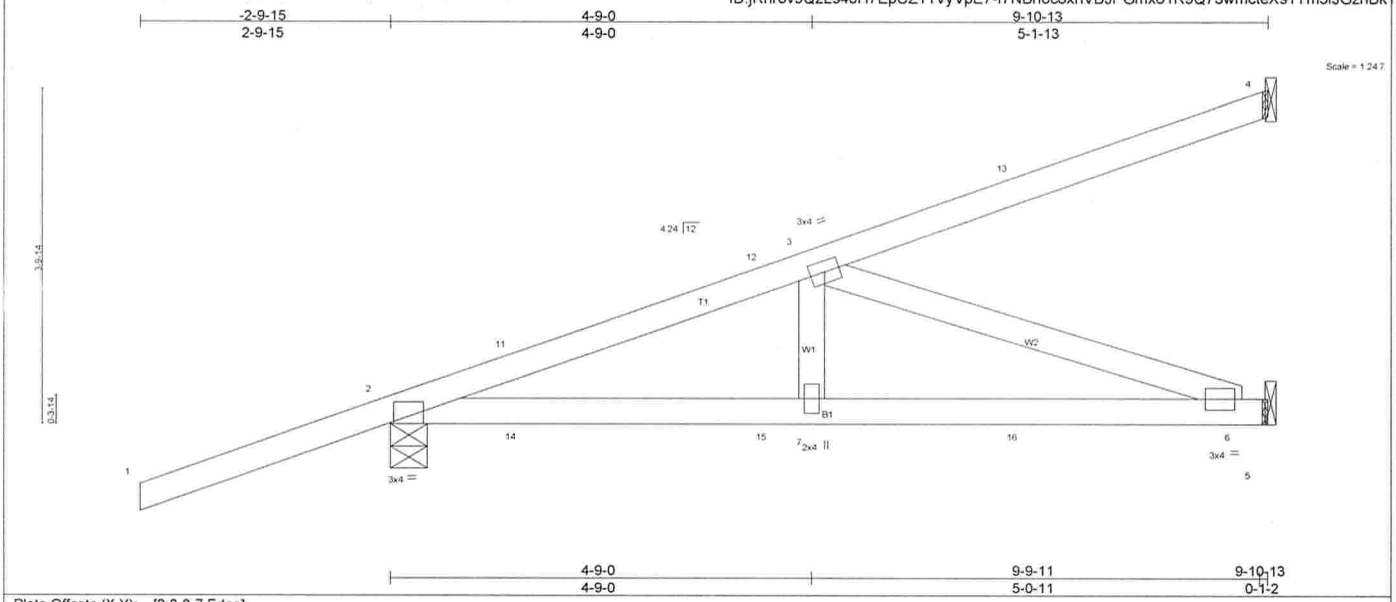


Plate Offsets (X,Y): [2:0-0-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.10	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 44 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-0-12 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=120/Mechanical, 2=370/0-4-15 (min. 0-1-8), 5=194/Mechanical
Max Horz 2=234(LC 4)
Max Uplift 4=-139(LC 4), 2=-376(LC 4), 5=-259(LC 4)
Max Grav 4=147(LC 2), 2=454(LC 2), 5=225(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-622/511, 11-12=-570/533, 3-12=-571/518
BOT CHORD 2-14=-614/570, 14-15=-614/570, 7-15=-614/570, 7-16=-614/570, 6-16=-614/570
WEBS 3-6=-604/651

NOTES (9-11)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 4, 376 lb uplift at joint 2 and 259 lb uplift at joint 5.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 47 lb up at 1-5-12, 37 lb down and 47 lb up at 1-5-12, 3 lb down and 50 lb up at 4-3-11, 3 lb down and 50 lb up at 4-3-11, and 43 lb down and 93 lb up at 7-1-10, and 43 lb down and 93 lb up at 7-1-10 on top chord, and 22 lb down and 26 lb up at 1-5-12, 22 lb down and 26 lb up at 1-5-12, 3 lb down and 31 lb up at 4-3-11, 3 lb down and 31 lb up at 4-3-11, and 26 lb down and 45 lb up at 7-1-10, and 26 lb down and 45 lb up at 7-1-10 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 manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
10) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-44, 5-8=-10

Continued on page 2

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	EJ01	Jack-Partial Truss	29	1	I6380627
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:38 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-jkGQG6asP4FT457Oqh?z4?2kxzzrAi_k4SccENznBkV

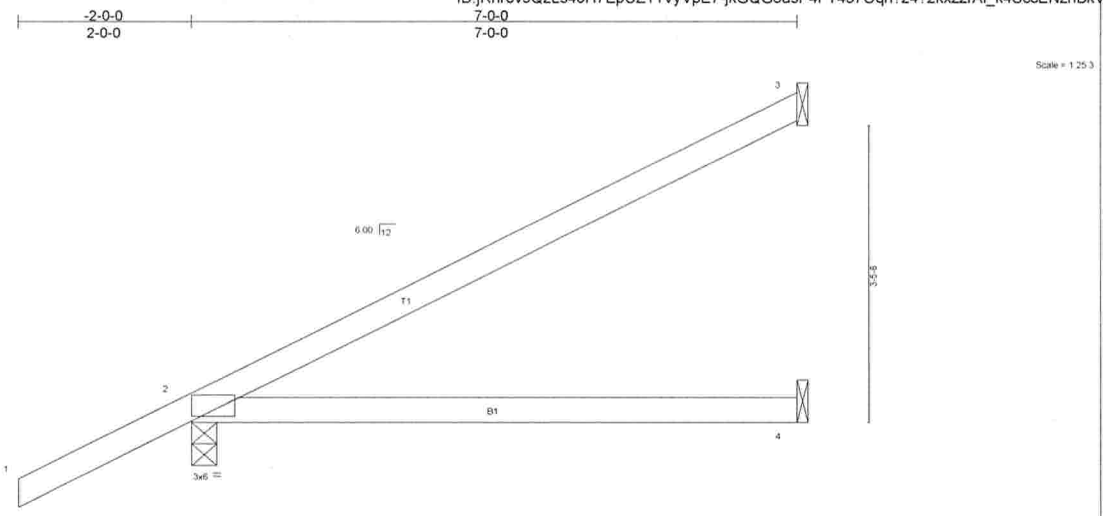


Plate Offsets (X,Y): [2:0-6-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.06	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.11	4-7	>745	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.01	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-9 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) 3=113/Mechanical, 2=318/0-3-8 (min. 0-1-8), 4=32/Mechanical
Max Horz 2=144(LC 12)
Max Uplift3=-86(LC 12), 2=-97(LC 12)
Max Grav 3=139(LC 2), 2=380(LC 2), 4=79(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1212/532
BOT CHORD 2-4=-1041/1713

NOTES (7-9)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3 and 97 lb uplift at joint 2.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
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

February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

Job	Truss	Truss Type	Qty	Ply	MIKE ROBERTS - SPEC HSE
466999	CJ02	Jack-Open Truss	8	1	I6380625
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.350 s Jul 31 2012 MiTek Industries, Inc. Fri Feb 08 12:58:36 2013 Page 1

ID:jRhrov9QzLs40H7EpCZ11VyVpE7-mM8grQZctS?lrnz?iHyV?ayRt9JEioURd87VAUznBkX

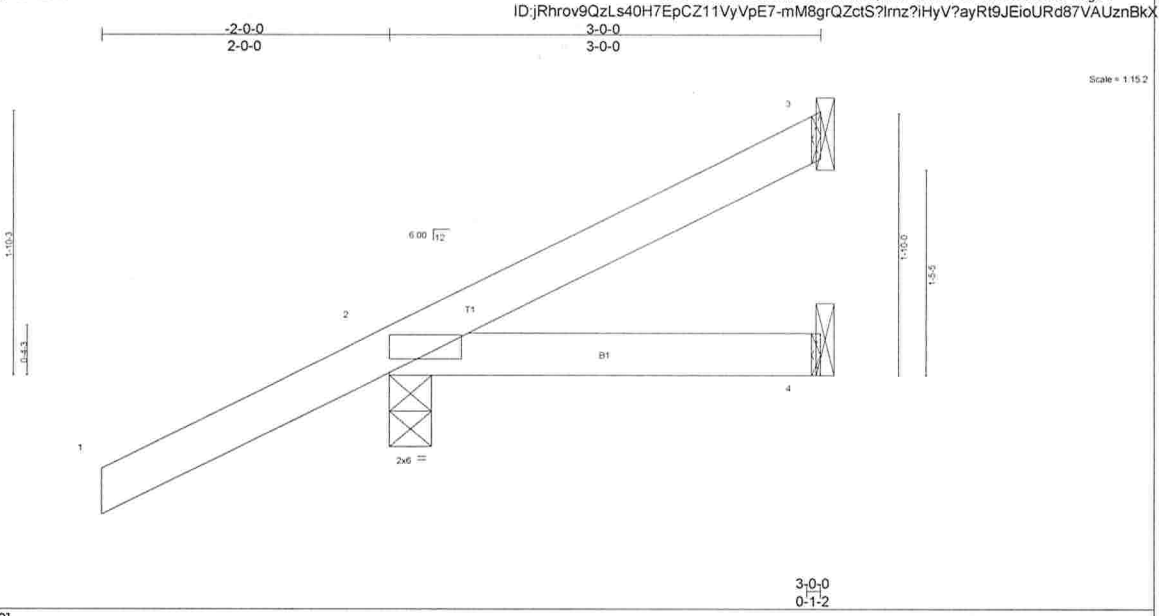


Plate Offsets (X,Y): [2:0-6-0,0-1-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 13 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 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.

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

REACTIONS (lb/size) 3=42/Mechanical, 2=193/0-3-8 (min. 0-1-8), 4=11/Mechanical
Max Horz 2=113(LC 12)
Max Uplift 3=-50(LC 12), 2=-121(LC 12), 4=-21(LC 9)
Max Grav 3=52(LC 2), 2=233(LC 2), 4=33(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-508/112
BOT CHORD 2-4=-106/642

NOTES (7-9)
1) Wind: ASCE 7-10; 130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3, 121 lb uplift at joint 2 and 21 lb uplift at joint 4.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
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

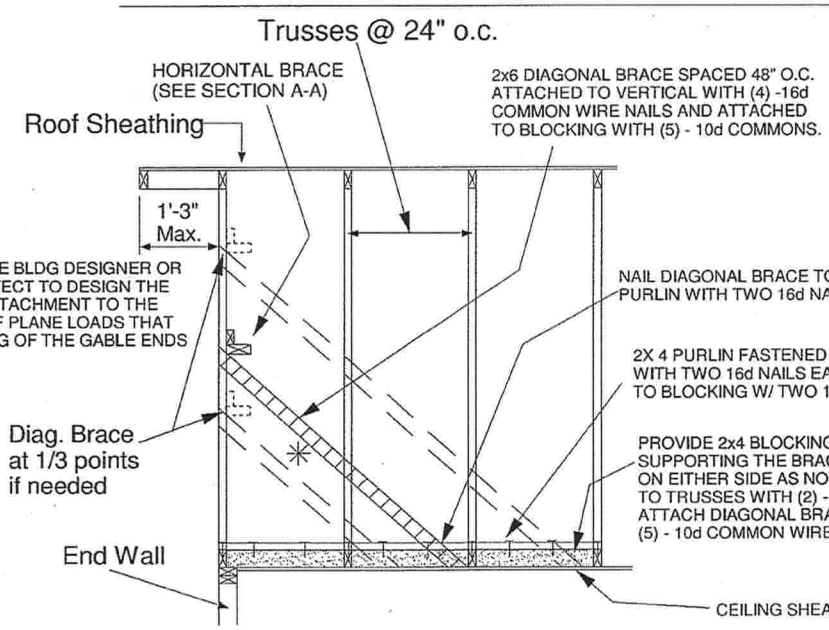
February 8,2013

Julius Lee PE.
1109 Coastal Bay
Boynton Beach,FL 33435

FEBRUARY 14, 2012	Standard Gable End Detail	SHEET 2

MiTek Industries, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

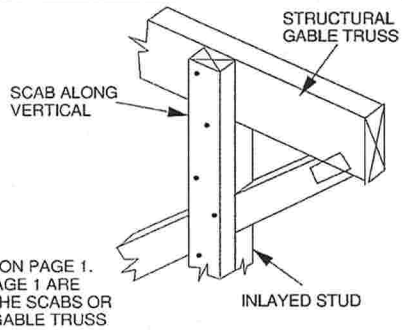
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

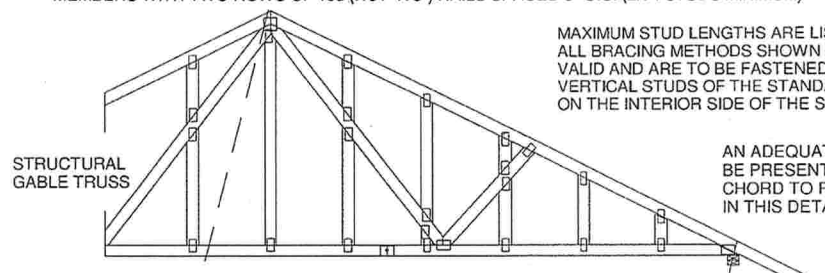
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

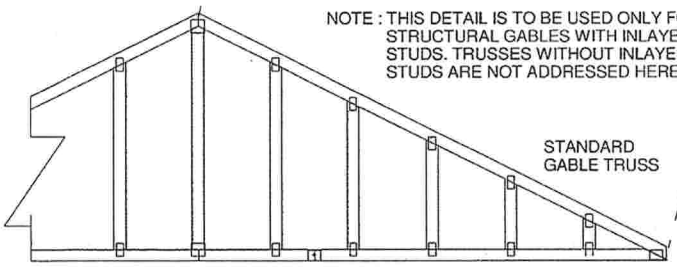
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)

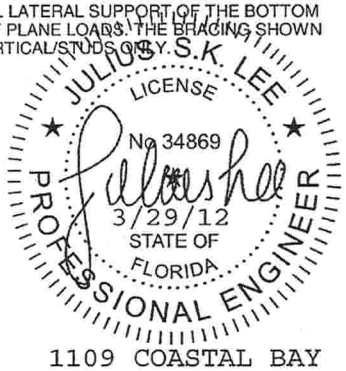


MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.



AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.





1109 COASTAL BAY
BOYNTON BC, FL 33435