DATE 04/04/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000024343

APPLICANT MIKE MUCHA PHONE 954.275.0510

ADDRESS 14761 MADISON PLACE DAVIE FL 33325

OWNER MIKE MUCHA PHONE 954.275.0510

ADDRESS 182 SW VOYAGER COURT LAKE CITY FL 32025

CONTRACTOR MIKE MUCHA PHONE 954.275.0510

LOCATION OF PROPERTY 90- TO C-341-TL TO BROTHERS LN,TL TO VOYAGER CRT,TL
3RD LOT ON L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 98250.00

HEATED FLOOR AREA 1965.00 TOTAL AREA 2343.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 12'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO.

PARCEL ID 12-4S-16-02941-107 SUBDIVISION SOUTHERN LANDINGS AVIATION

LOT 7 BLOCK PHASE UNIT TOTAL ACRES 0.75

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
PRIVATE	06-0199-N	BLK	JTH
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance

Y — New Resident

COMMENTS: NOC ON FILE. ONE FOOT ABOVE ROAD.

Check # or Cash 2293

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by | Foundation _____ date/app. by | Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by | Slab _____ date/app. by | Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by | Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by | Heat & Air Duct _____ date/app. by | Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by | C.O. Final _____ date/app. by | Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by | Pool _____ date/app. by

Reconnection _____ date/app. by | Pump pole _____ date/app. by | Utility Pole _____ date/app. by

M/H Pole _____ date/app. by | Travel Trailer _____ date/app. by | Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 495.00 CERTIFICATION FEE $ 11.71 SURCHARGE FEE $ 11.71

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 593.42

INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

0602-2

Universal Forest Products

Re: 56002002
Southland Log Homes - Summers Roof

The truss drawing(s) referenced below have been prepared by Universal Forest Products, Inc. under my direct supervision. Pages or sheets covered by this seal include the following:

56002002 T1
56002002 GB1

Loading (psf) TCLL 20 TCDL 10 BCLL 0 BCDL 10
Wind: ASCE 7-02 per FBC2004; 120 mph; h = 16 ft; TCDL = 6.0 psf; BCDL = 6.0 psf; occupancy category II; exposure B; enclosed

The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component(s) listed and attached. The suitability and use of each component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Sec. 2.

My license renewal date for the state of Florida is February 28, 2007.

2-2-06
Joseph W. Chandler, P.E.
License # 60527

Eastern Division
5631 South NC 62 Burlington, NC 27215 Tel: (336) 226-9356 Fax: (336) 476-9146

Job	Truss	Truss Type	Qty	Ply	07326-SUMMERS-DWH-020206
56002002	T1	FINK	20	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 10:36:50 2006 Page 1

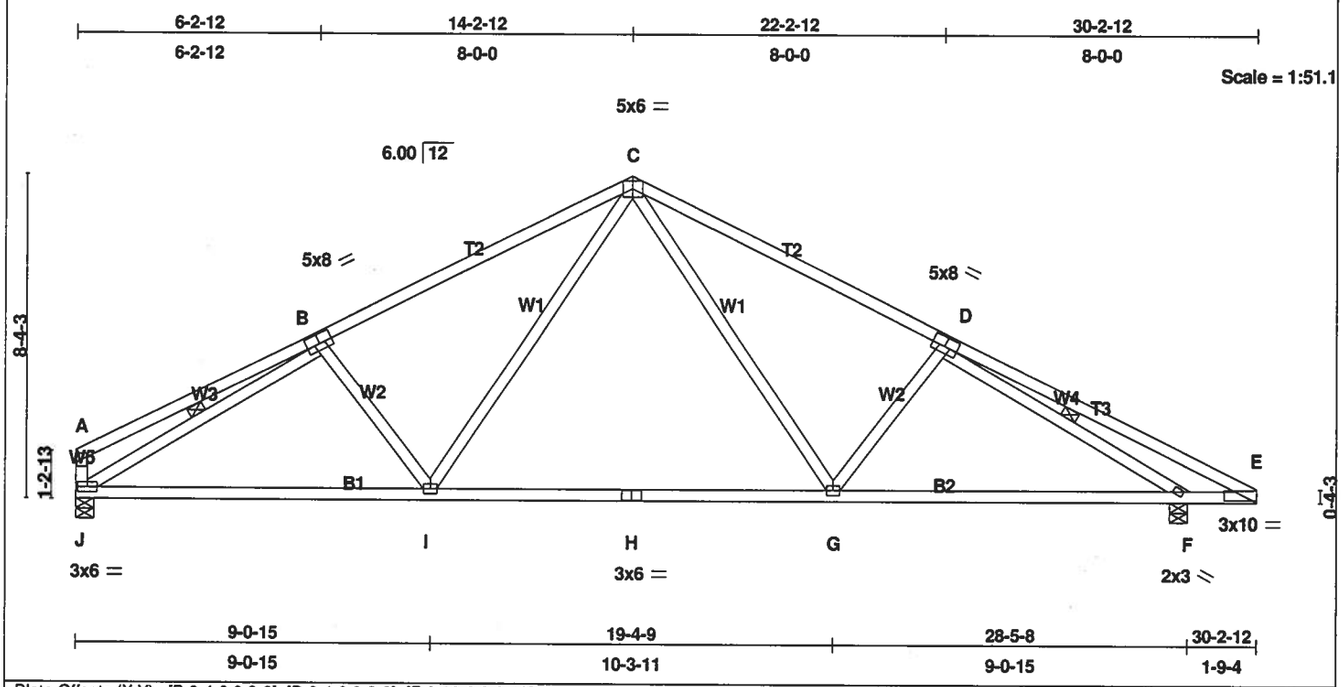

Plate Offsets (X,Y): [B:0-4-0,0-3-0], [D:0-4-0,0-3-0], [E:0-10-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.75	Vert(LL)	-0.18	G-I	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.50	G-I	>679	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(TL)	0.06	F	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-0 oc bracing: I-J.
WEBS 1 Row at midpt D-F, B-J

REACTIONS (lb/size) J=1129/0-5-8, F=1278/0-5-8
Max Horz J=-172(load case 6)
Max Uplift J=-359(load case 5), F=-469(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-409/162, B-C=-1511/569, C-D=-1525/573, D-E=-229/93, A-J=-316/173
BOT CHORD I-J=-489/1389, H-I=-197/1020, G-H=-197/1020, F-G=-366/1413, E-F=0/198
WEBS B-I=-273/333, C-I=-177/493, C-G=-185/510, D-G=-295/351, D-F=-1648/672, B-J=-1309/422

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; 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) All plates are 3x4 MT20 unless otherwise indicated.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint J and 469 lb uplift at joint F.
7) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
License No. 60527
Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SUMMERS-DWH-020206
56002002	GB1	FAN	2	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 10:36:49 2006 Page 1

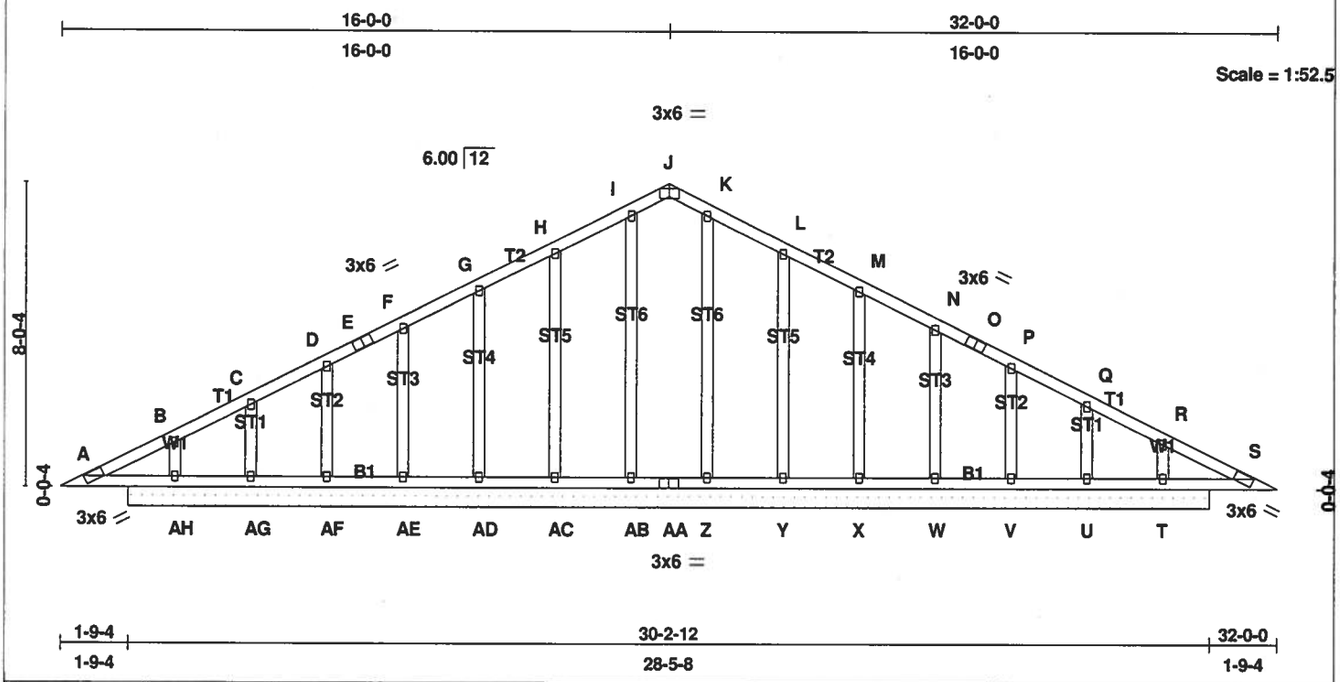

Plate Offsets (X,Y): [J:0-3-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	J	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 182 lb	

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

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

REACTIONS (lb/size) J=195/28-5-8, AB=120/28-5-8, AC=167/28-5-8, AD=160/28-5-8, AE=157/28-5-8, AF=171/28-5-8, AG=116/28-5-8, Z=120/28-5-8, Y=167/28-5-8, X=160/28-5-8, W=157/28-5-8, V=171/28-5-8, U=116/28-5-8, AH=246/28-5-8, T=246/28-5-8
Max Horz AH=-133(load case 3)
Max Uplift AB=-50(load case 5), AC=-96(load case 5), AD=-87(load case 5), AE=-92(load case 5), AF=-78(load case 5), AG=-135(load case 5), Z=-50(load case 6), Y=-96(load case 6), X=-88(load case 6), W=-92(load case 6), V=-80(load case 6), U=-126(load case 6), AH=-113(load case 6), T=-102(load case 5)
Max Grav J=229(load case 6), AB=125(load case 9), AC=167(load case 1), AD=160(load case 9), AE=157(load case 1), AF=179(load case 9), AG=116(load case 1), Z=125(load case 10), Y=167(load case 1), X=160(load case 10), W=157(load case 1), V=179(load case 10), U=116(load case 1), AH=286(load case 9), T=286(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-125/180, B-C=-66/160, C-D=-6/170, D-E=0/148, E-F=0/167, F-G=0/200, G-H=0/243, H-I=0/287, I-J=0/311, J-K=0/308, K-L=0/278, L-M=0/233, M-N=0/190, N-O=0/167, O-P=0/138, P-Q=0/170, Q-R=-55/160, R-S=-116/180
BOT CHORD A-AH=-126/143, AG-AH=-126/134, AF-AG=-126/134, AE-AF=-126/134, AD-AE=-126/134, AC-AD=-126/134, AB-AC=-126/134, AA-AB=-126/134, Z-AA=-126/134, Y-Z=-126/134, X-Y=-126/134, W-X=-126/134, V-W=-126/134, U-V=-126/134, T-U=-126/134, S-T=-126/134
WEBS I-AB=-85/74, H-AC=-127/120, G-AD=-119/112, F-AE=-119/114, D-AF=-128/109, C-AG=-99/132, K-Z=-85/74, L-Y=-127/120, M-X=-119/112, N-W=-119/114, P-V=-128/110, Q-U=-99/128, B-AH=-183/107, R-T=-183/105

NOTES (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x3 MT20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint AB, 96 lb uplift at joint AC, 87 lb uplift at joint AD, 92 lb uplift at joint AE, 78 lb uplift at joint AF, 135 lb uplift at joint AG, 50 lb uplift at joint Z, 96 lb uplift at joint Y, 88 lb uplift at joint X, 92 lb uplift at joint W, 80 lb uplift at joint V, 126 lb uplift at joint U, 113 lb uplift at joint AH and 102 lb uplift at joint T.
9) Non Standard bearing condition. Review required.
10) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
License No. 60527
Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T4	MOD. QUEEN	10	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:57 2006 Page 1

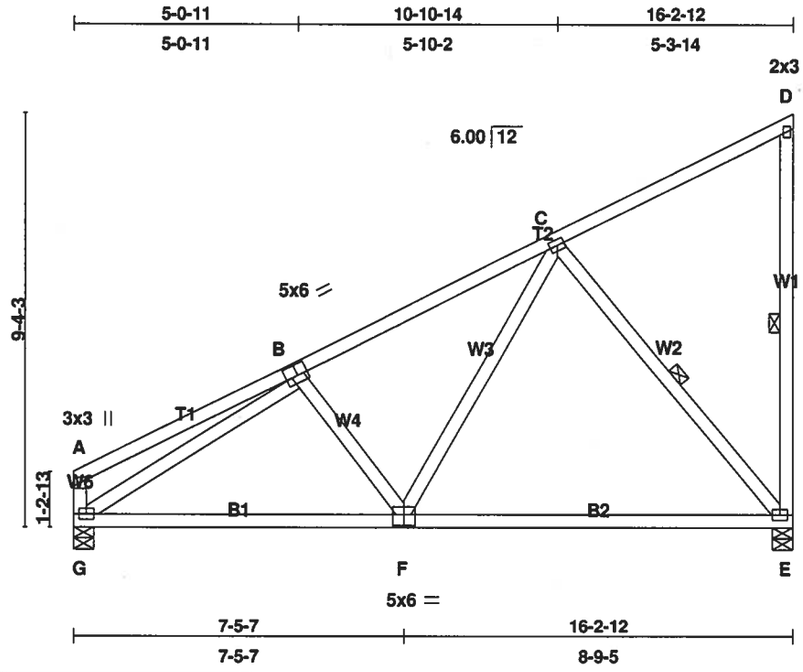

Plate Offsets (X,Y): [B:0-2-12,0-3-0], [F:0-3-0,0-3-0]

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.12	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.29	E-F	>654	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.01	E	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 102 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-0 oc bracing.
WEBS 1 Row at midpt D-E, C-E

REACTIONS (lb/size) G=638/0-5-8, E=638/0-5-8
Max Horz G=437(load case 5)
Max UpliftG=-109(load case 5), E=-383(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-267/128, B-C=-688/118, C-D=-97/42, A-G=-229/144, D-E=-126/118
BOT CHORD F-G=-482/666, E-F=-252/365
WEBS B-F=-204/284, C-F=-136/435, B-G=-591/3, C-E=-554/398

NOTES (6)
1) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever 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) All plates are 3x4 MT20 unless otherwise indicated.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint G and 383 lb uplift at joint E.
6) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
License No. 60527
Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T3	MOD. QUEEN	5	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:56 2006 Page 1

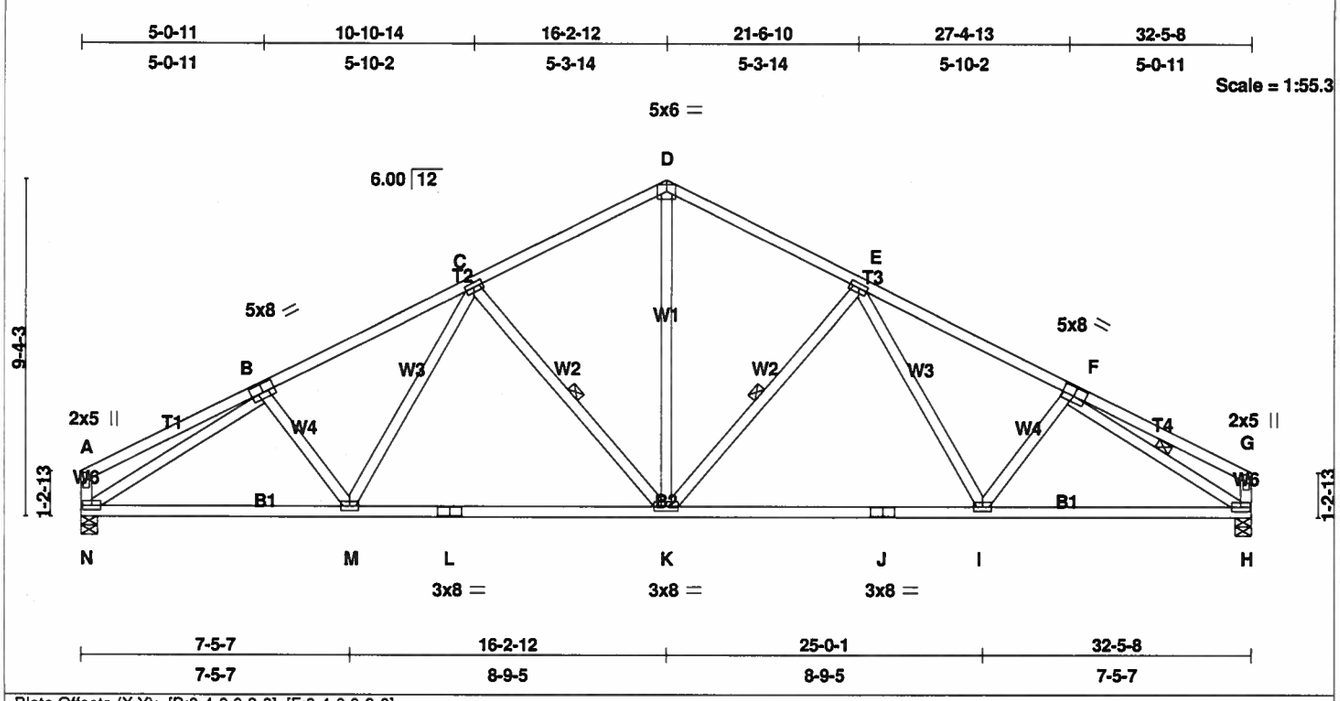

Plate Offsets (X,Y): [B:0-4-0,0-3-0], [F:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.32	K-M	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	1.00	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 191 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-13 oc bracing.
WEBS 1 Row at midpt C-K, E-K, F-H

REACTIONS (lb/size) N=1287/0-5-8, H=1287/0-5-8
Max Horz N=139(load case 4)
Max UpliftN=-409(load case 5), H=-409(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-345/153, B-C=-1818/645, C-D=-1388/552, D-E=-1389/553, E-F=-1818/641, F-G=-331/140, A-N=-272/158, G-H=-261/147
BOT CHORD M-N=-605/1580, L-M=-449/1459, K-L=-449/1459, J-K=-338/1460, I-J=-338/1460, H-I=-474/1576
WEBS B-M=-77/207, C-M=-73/285, C-K=-476/348, D-K=-297/868, E-K=-478/350, E-I=-68/283, F-I=-73/206, B-N=-1628/499, F-H=-1639/515

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; 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) All plates are 3x6 MT20 unless otherwise indicated.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 lb uplift at joint N and 409 lb uplift at joint H.
7) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
License No. 60527
Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

0602-2

Universal Forest Products

Re: 56002014
Southland Log Homes - Mucha Roof

The truss drawing(s) referenced below have been prepared by Universal Forest Products, Inc. under my direct supervision. Pages or sheets covered by this seal include the following:

56002014 T1
56002014 GB`
56002014 T2
56002014 GB2
56002014 T3
56002014 T4

Loading (psf) TCLL 20 TCDL 10 BCLL 0 BCDL 10
Wind: ASCE 7-02 per FBC2004; 120 mph; h = 16 ft; TCDL = 6.0 psf; BCDL = 6.0 psf; occupancy category II; exposure B; enclosed

The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component(s) listed and attached. The suitability and use of each component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Sec. 2.

My license renewal date for the state of Florida is February 28, 2007.

2.2-06
Joseph W. Chandler, P.E.
License # 60527

Eastern Division
5631 South NC 62 Burlington, NC 27215 Tel: (336) 226-9356 Fax: (336) 476-9146

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	GB1	MOD. QUEEN	1	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:54 2006 Page 1

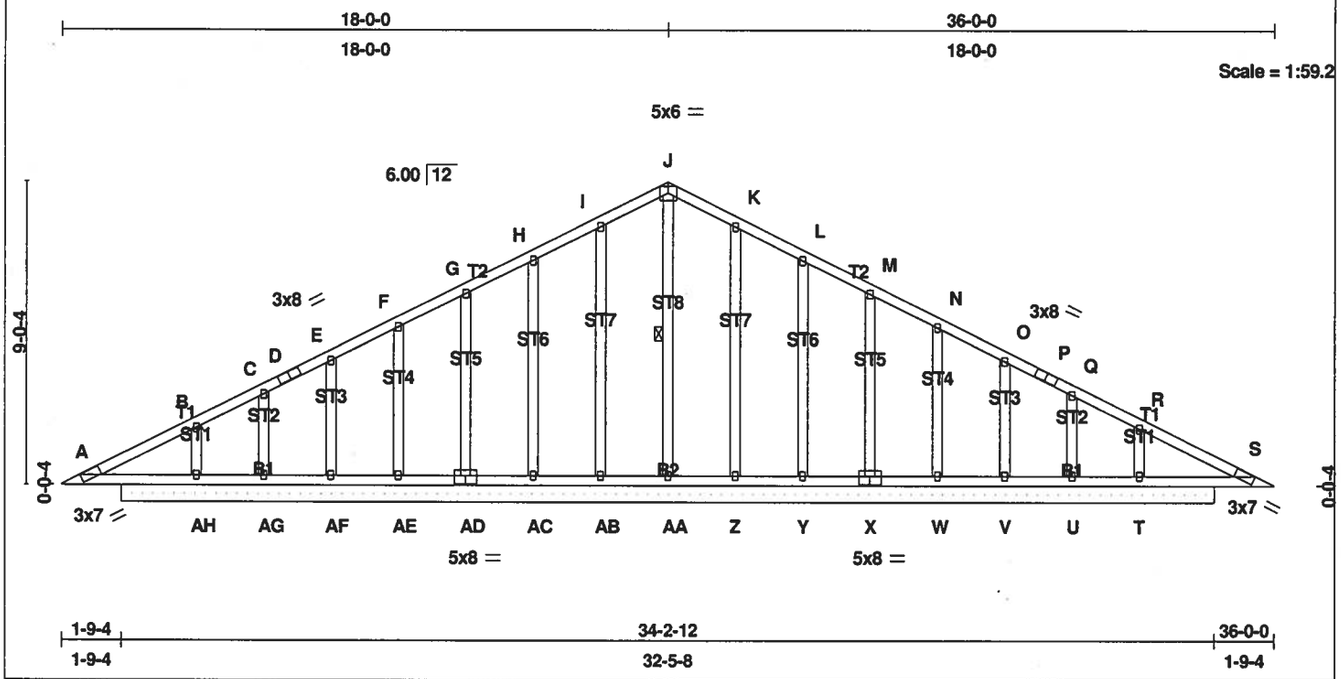

Plate Offsets (X,Y): [X:0-4-0,0-3-0], [AD:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	-0.01	T	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 217 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt J-AA

REACTIONS (lb/size) T=320/32-5-8, AA=338/32-5-8, AB=174/32-5-8, AC=155/32-5-8, AD=162/32-5-8, AE=155/32-5-8, AF=180/32-5-8, AG=79/32-5-8, AH=320/32-5-8, Z=174/32-5-8, Y=155/32-5-8, X=162/32-5-8, W=155/32-5-8, V=180/32-5-8, U=79/32-5-8
Max Horz AH=-151(load case 3)
Max Uplift T=-140(load case 5), AB=-70(load case 5), AC=-97(load case 5), AD=-87(load case 5), AE=-92(load case 5), AF=-78(load case 5), AG=-132(load case 5), AH=-148(load case 6), Z=-70(load case 6), Y=-97(load case 6), X=-87(load case 6), W=-92(load case 6), V=-80(load case 6), U=-125(load case 6)
Max Grav T=398(load case 10), AA=338(load case 1), AB=175(load case 9), AC=155(load case 9), AD=163(load case 9), AE=155(load case 1), AF=197(load case 9), AG=106(load case 10), AH=398(load case 9), Z=175(load case 10), Y=155(load case 10), X=163(load case 10), W=155(load case 1), V=197(load case 10), U=106(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-148/274, B-C=-69/232, C-D=-3/219, D-E=0/252, E-F=0/247, F-G=0/248, G-H=0/248, H-I=0/287, I-J=0/321, J-K=0/315, K-L=0/282, L-M=0/248, M-N=0/248, N-O=0/247, O-P=0/252, P-Q=0/219, Q-R=-62/232, R-S=-143/274
BOT CHORD A-AH=-198/175, AG-AH=-198/170, AF-AG=-198/170, AE-AF=-198/170, AD-AE=-198/170, AC-AD=-198/170, AB-AC=-198/170, AA-AB=-198/170, Z-AA=-198/170, Y-Z=-198/170, X-Y=-198/170, W-X=-198/170, V-W=-198/170, U-V=-198/170, T-U=-198/170, S-T=-198/170
WEBS R-T=-249/140, J-AA=-298/0, I-AB=-135/94, H-AC=-116/120, G-AD=-121/112, F-AE=-118/114, E-AF=-137/111, C-AG=-77/122, B-AH=-249/138, K-Z=-135/94, L-Y=-116/121, M-X=-121/112, N-W=-118/114, O-V=-137/112, Q-U=-77/119

NOTES (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x3 MT20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint T, 70 lb uplift at joint AB, 97 lb uplift at joint AC, 87 lb uplift at joint AD, 92 lb uplift at joint AE, 78 lb uplift at joint AF, 132 lb uplift at joint AG, 148 lb uplift at joint AH, 70 lb uplift at joint Z, 97 lb uplift at joint Y, 87 lb uplift at joint X, 92 lb uplift at joint W, 80 lb uplift at joint V and 125 lb uplift at joint U.
9) Non Standard bearing condition. Review required.
10) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
License No. 60527
Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	GB2	MOD. QUEEN	1	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:55 2006 Page 1

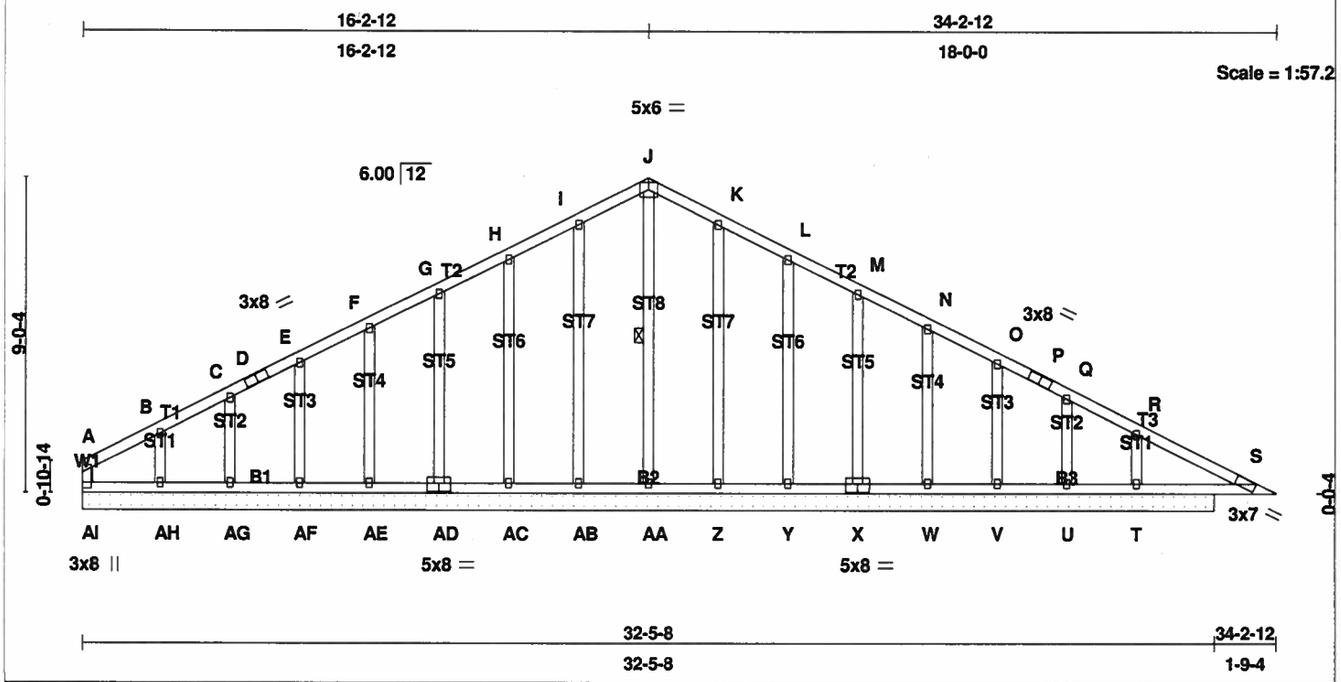

Plate Offsets (X,Y): [X:0-4-0,0-3-0], [AD:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	-0.01	T	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 213 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) Al=-86/32-5-8, AA=310/32-5-8, AB=172/32-5-8, AC=156/32-5-8, AD=161/32-5-8, AE=158/32-5-8, AF=168/32-5-8, AG=130/32-5-8, AH=273/32-5-8, Z=172/32-5-8, Y=155/32-5-8, X=163/32-5-8, W=152/32-5-8, V=191/32-5-8, U=38/32-5-8, T=368/32-5-8

Max Horz Al=-171(load case 6)

Max Uplift Al=-120(load case 10), AB=-73(load case 5), AC=-96(load case 5), AD=-88(load case 5), AE=-88(load case 5), AF=-96(load case 5), AG=-62(load case 5), AH=-192(load case 5), Z=-68(load case 6), Y=-97(load case 6), X=-88(load case 6), W=-89(load case 6), V=-91(load case 6), U=-81(load case 6), T=-135(load case 6)

Max Grav Al=118(load case 5), AA=310(load case 1), AB=172(load case 1), AC=158(load case 9), AD=161(load case 1), AE=159(load case 9), AF=168(load case 1), AG=142(load case 9), AH=273(load case 1), Z=176(load case 10), Y=155(load case 1), X=163(load case 1), W=153(load case 10), V=191(load case 1), U=40(load case 10), T=368(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	A-B=-181/234, B-C=-97/209, C-D=-44/188, D-E=-39/215, E-F=-5/214, F-G=0/237, G-H=0/279, H-I=0/324, I-J=0/357, J-K=0/349, K-L=0/297, L-M=0/232, M-N=0/216, N-O=0/215, O-P=0/221, P-Q=0/188, Q-R=-18/194, R-S=-110/245, A-Al=-66/100
BOT CHORD	AH-Al=-169/137, AG-AH=-169/137, AF-AG=-169/137, AE-AF=-169/137, AD-AE=-169/137, AC-AD=-169/137, AB-AC=-169/137, AA-AB=-169/137, Z-AA=-169/137, Y-Z=-169/137, X-Y=-169/137, W-X=-169/137, V-W=-169/137, U-V=-169/137, T-U=-169/137, S-T=-169/137
WEBS	J-AA=-270/0, I-AB=-132/97, H-AC=-118/120, G-AD=-121/112, F-AE=-119/113, E-AF=-123/116, C-AG=-111/100, B-AH=-176/166, K-Z=-136/92, L-Y=-116/121, M-X=-121/112, N-W=-117/113, O-V=-135/116, Q-U=-59/99, R-T=-235/164

NOTES (10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x3 MT20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint Al, 73 lb uplift at joint AB, 96 lb uplift at joint AC, 88 lb uplift at joint AD, 88 lb uplift at joint AE, 96 lb uplift at joint AF, 62 lb uplift at joint AG, 192 lb uplift at joint AH, 68 lb uplift at joint Z, 97 lb uplift at joint Y, 88 lb uplift at joint X, 89 lb uplift at joint W, 91 lb uplift at joint V, 81 lb uplift at joint U and 135 lb uplift at joint T.
9) Non Standard bearing condition. Review required.
10) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
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Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T1	MOD. QUEEN	6	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:55 2006 Page 1

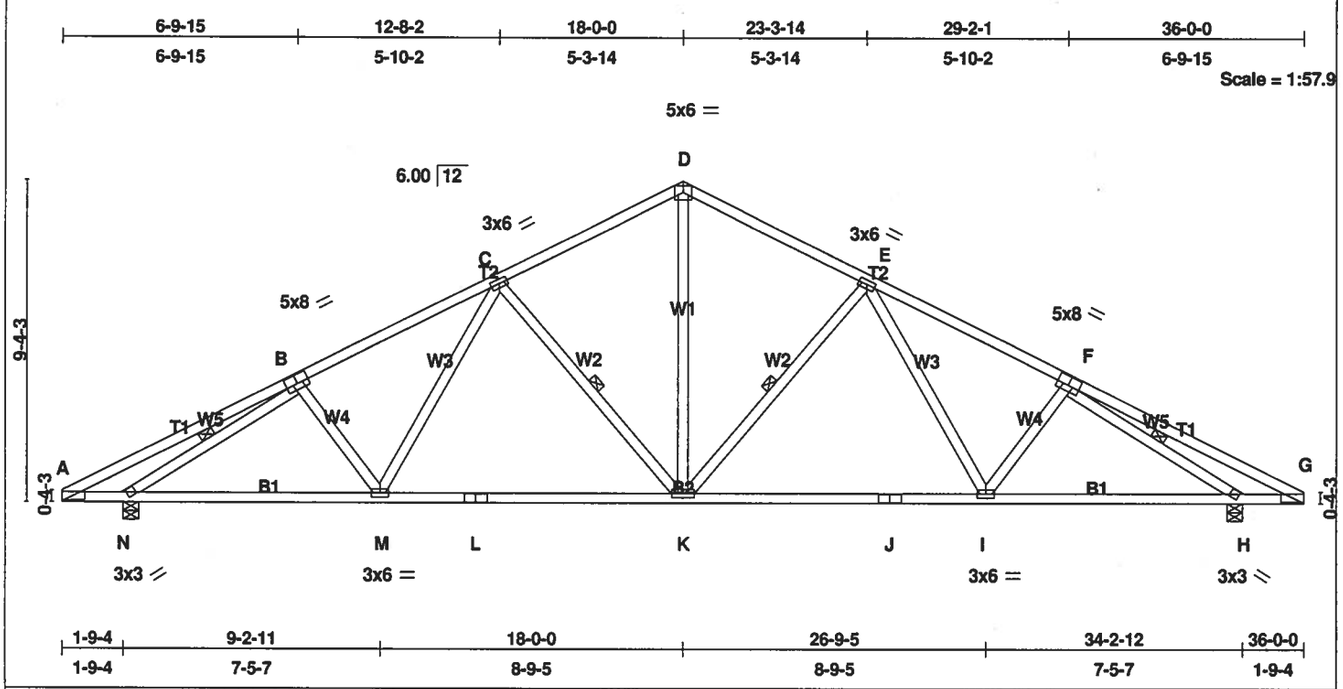

Plate Offsets (X,Y): [A:0-8-0,0-0-6], [B:0-4-0,0-3-0], [F:0-4-0,0-3-0], [G:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.33	K-M	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 201 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt C-K, E-K, B-N, F-H

REACTIONS (lb/size) N=1440/0-5-8, H=1440/0-5-8
Max Horz N=156(load case 4)
Max UpliftN=-522(load case 5), H=-522(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-138/124, B-C=-1848/657, C-D=-1396/555, D-E=-1396/555, E-F=-1848/657, F-G=-138/124
BOT CHORD A-N=-31/186, M-N=-586/1621, L-M=-410/1467, K-L=-410/1467, J-K=-302/1467, I-J=-302/1467, H-I=-436/1621, G-H=-31/186
WEBS B-M=-109/231, C-M=-87/300, C-K=-473/341, D-K=-291/864, E-K=-473/341, E-I=-88/300, F-I=-109/232, B-N=-1988/753, F-H=-1988/753

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; 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) All plates are 3x8 MT20 unless otherwise indicated.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 522 lb uplift at joint N and 522 lb uplift at joint H.
7) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
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Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T2	MOD. QUEEN	5	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:56 2006 Page 1

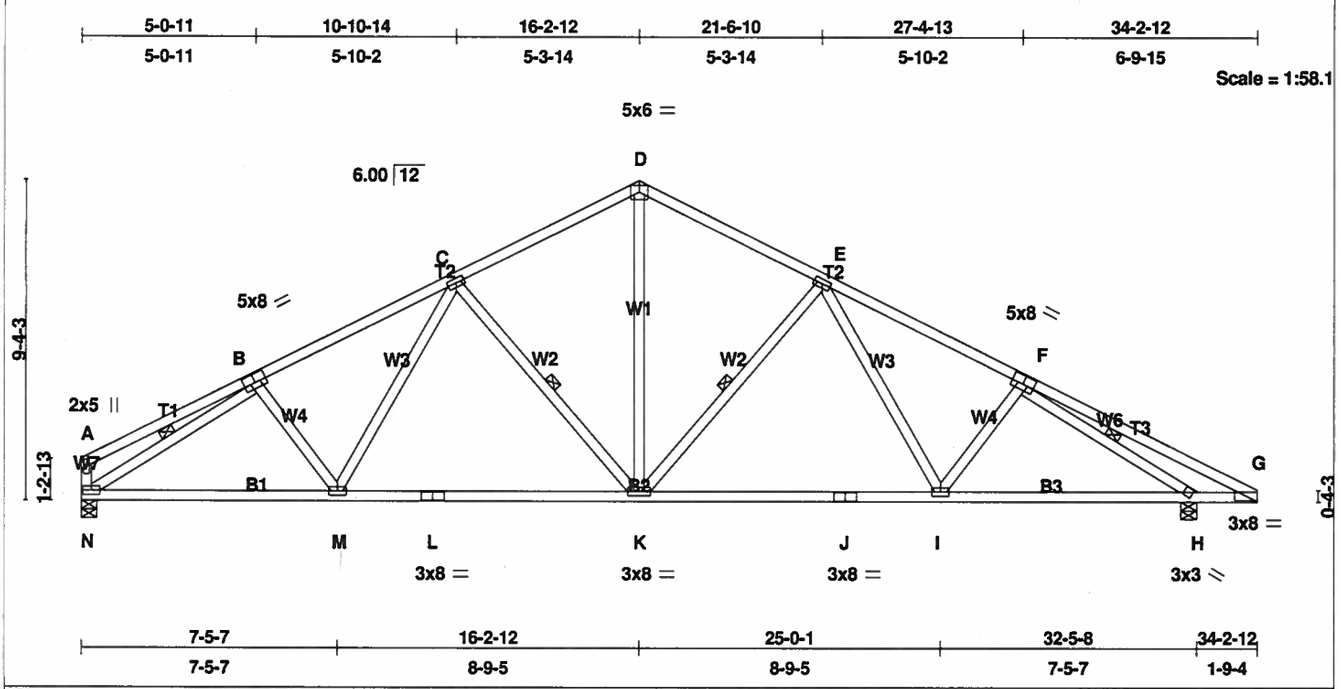


Plate Offsets (X,Y): [B:0-4-0,0-3-0], [F:0-4-0,0-3-0], [G:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.33	I-K	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 196 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt C-K, E-K, F-H, B-N

REACTIONS (lb/size) N=1289/0-5-8, H=1438/0-5-8
Max Horz N=-189(load case 6)
Max UpliftN=-410(load case 5), H=-521(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-345/153, B-C=-1822/647, C-D=-1393/552, D-E=-1392/555, E-F=-1844/654, F-G=-137/124, A-N=-272/158
BOT CHORD M-N=-569/1583, L-M=-413/1463, K-L=-413/1463, J-K=-302/1463, I-J=-302/1463, H-I=-434/1618, G-H=-31/186
WEBS B-M=-77/207, C-M=-73/285, C-K=-475/347, D-K=-295/865, E-K=-473/342, E-I=-88/300, F-I=-109/232, F-H=-1985/751, B-N=-1631/501

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; 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) All plates are 3x6 MT20 unless otherwise indicated.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 410 lb uplift at joint N and 521 lb uplift at joint H.
7) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
License No. 60527
Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

0602-2

Universal Forest Products

Re: 56002014
Southland Log Homes - Mucha Roof

The truss drawing(s) referenced below have been prepared by Universal Forest Products, Inc. under my direct supervision. Pages or sheets covered by this seal include the following:

56002014 T1
56002014 GB`
56002014 T2
56002014 GB2
56002014 T3
56002014 T4

Loading (psf) TCLL 20 TCDL 10 BCLL 0 BCDL 10
Wind: ASCE 7-02 per FBC2004; 120 mph; h = 16 ft; TCDL = 6.0 psf; BCDL = 6.0 psf; occupancy category II; exposure B; enclosed

The seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component(s) listed and attached. The suitability and use of each component for any particular building is the responsibility of the building designer, per ANSI/TPI-2002 Sec. 2.

My license renewal date for the state of Florida is February 28, 2007.

2.2-06
Joseph W. Chandler, P.E.
License # 60527

Eastern Division
5631 South NC 62 Burlington, NC 27215 Tel: (336) 226-9356 Fax: (336) 476-9146

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	GB1	MOD. QUEEN	1	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:54 2006 Page 1

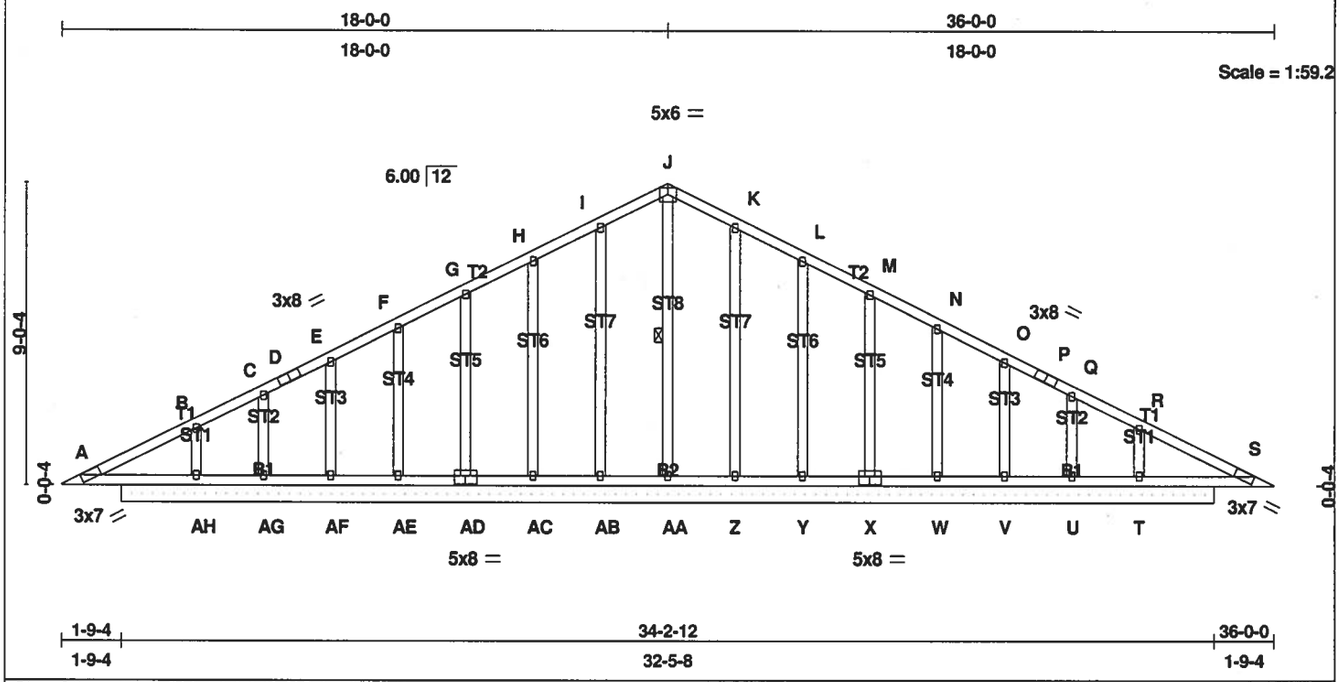


Plate Offsets (X,Y): [X:0-4-0,0-3-0], [AD:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	-0.01	T	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 217 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt J-AA

REACTIONS (lb/size) T=320/32-5-8, AA=338/32-5-8, AB=174/32-5-8, AC=155/32-5-8, AD=162/32-5-8, AE=155/32-5-8, AF=180/32-5-8, AG=79/32-5-8, AH=320/32-5-8, Z=174/32-5-8, Y=155/32-5-8, X=162/32-5-8, W=155/32-5-8, V=180/32-5-8, U=79/32-5-8
Max Horz AH=-151(load case 3)
Max Uplift T=-140(load case 5), AB=-70(load case 5), AC=-97(load case 5), AD=-87(load case 5), AE=-92(load case 5), AF=-78(load case 5), AG=-132(load case 5), AH=-148(load case 6), Z=-70(load case 6), Y=-97(load case 6), X=-87(load case 6), W=-92(load case 6), V=-80(load case 6), U=-125(load case 6)
Max Grav T=398(load case 10), AA=338(load case 1), AB=175(load case 9), AC=155(load case 9), AD=163(load case 9), AE=155(load case 1), AF=197(load case 9), AG=106(load case 10), AH=398(load case 9), Z=175(load case 10), Y=155(load case 10), X=163(load case 10), W=155(load case 1), V=197(load case 10), U=106(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-148/274, B-C=-69/232, C-D=-3/219, D-E=0/252, E-F=0/247, F-G=0/248, G-H=0/248, H-I=0/287, I-J=0/321, J-K=0/315, K-L=0/282, L-M=0/248, M-N=0/248, N-O=0/247, O-P=0/252, P-Q=0/219, Q-R=-62/232, R-S=-143/274
BOT CHORD A-AH=-198/175, AG-AH=-198/170, AF-AG=-198/170, AE-AF=-198/170, AD-AE=-198/170, AC-AD=-198/170, AB-AC=-198/170, AA-AB=-198/170, Z-AA=-198/170, Y-Z=-198/170, X-Y=-198/170, W-X=-198/170, V-W=-198/170, U-V=-198/170, T-U=-198/170, S-T=-198/170
WEBS R-T=-249/140, J-AA=-298/0, I-AB=-135/94, H-AC=-116/120, G-AD=-121/112, F-AE=-118/114, E-AF=-137/111, C-AG=-77/122, B-AH=-249/138, K-Z=-135/94, L-Y=-116/121, M-X=-121/112, N-W=-118/114, O-V=-137/112, Q-U=-77/119

NOTES (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x3 MT20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint T, 70 lb uplift at joint AB, 97 lb uplift at joint AC, 87 lb uplift at joint AD, 92 lb uplift at joint AE, 78 lb uplift at joint AF, 132 lb uplift at joint AG, 148 lb uplift at joint AH, 70 lb uplift at joint Z, 97 lb uplift at joint Y, 87 lb uplift at joint X, 92 lb uplift at joint W, 80 lb uplift at joint V and 125 lb uplift at joint U.
9) Non Standard bearing condition. Review required.
10) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

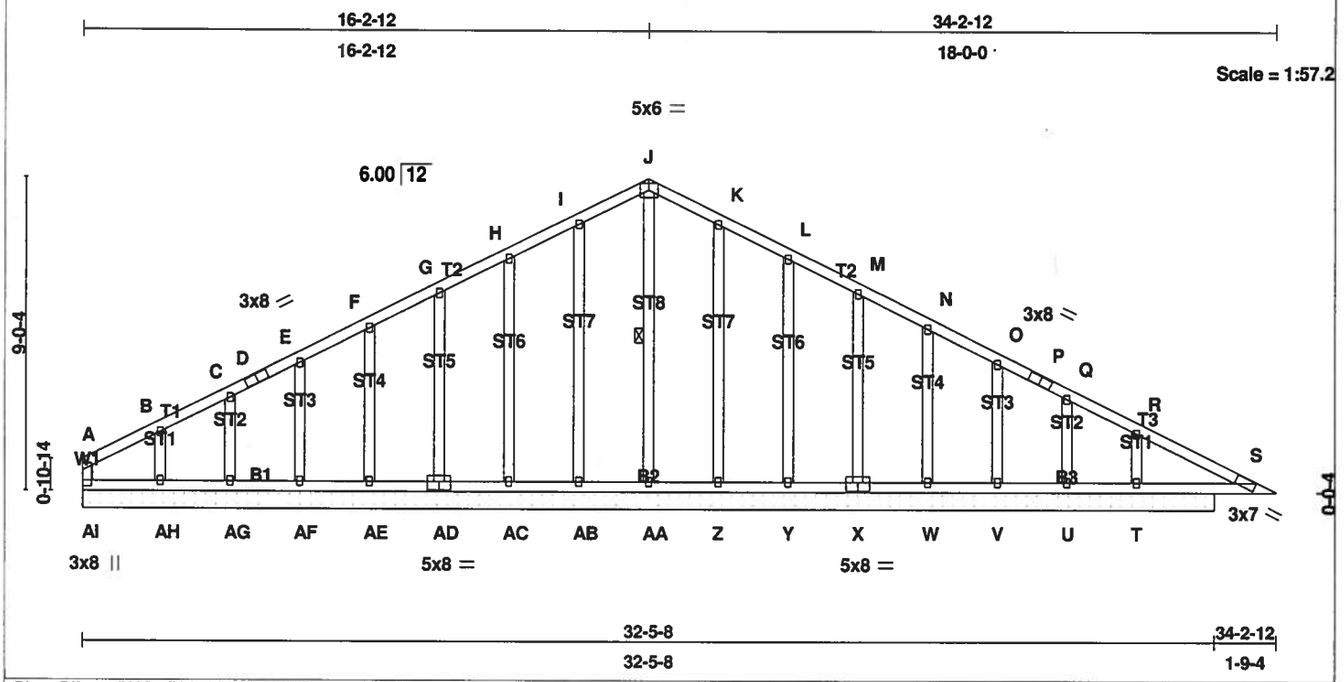
LOAD CASE(S) Standard

Joseph W. Chandler, P.E.
License No. 60527
Universal Forest Products, Inc.
5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	GB2	MOD. QUEEN	1	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:55 2006 Page 1



32-5-8 / 32-5-8 — 34-2-12 / 1-9-4

Plate Offsets (X,Y): [X:0-4-0,0-3-0], [AD: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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	-0.01	T	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 213 lb	

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

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

REACTIONS (lb/size) AI=-86/32-5-8, AA=310/32-5-8, AB=172/32-5-8, AC=156/32-5-8, AD=161/32-5-8, AE=158/32-5-8, AF=168/32-5-8, AG=130/32-5-8, AH=273/32-5-8, Z=172/32-5-8, Y=155/32-5-8, X=163/32-5-8, W=152/32-5-8, V=191/32-5-8, U=38/32-5-8, T=368/32-5-8
Max Horz AI=-171(load case 6)
Max Uplift AI=-120(load case 10), AB=-73(load case 5), AC=-96(load case 5), AD=-88(load case 5), AE=-88(load case 5), AF=-96(load case 5), AG=-62(load case 5), AH=-192(load case 5), Z=-68(load case 6), Y=-97(load case 6), X=-88(load case 6), W=-89(load case 6), V=-91(load case 6), U=-81(load case 6), T=-135(load case 6)
Max Grav AI=118(load case 5), AA=310(load case 1), AB=172(load case 1), AC=158(load case 9), AD=161(load case 1), AE=159(load case 9), AF=168(load case 1), AG=142(load case 9), AH=273(load case 1), Z=176(load case 10), Y=155(load case 1), X=163(load case 1), W=153(load case 10), V=191(load case 1), U=40(load case 10), T=368(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-181/234, B-C=-97/209, C-D=-44/188, D-E=-39/215, E-F=-5/214, F-G=0/237, G-H=0/279, H-I=0/324, I-J=0/357, J-K=0/349, K-L=0/297, L-M=0/232, M-N=0/216, N-O=0/215, O-P=0/221, P-Q=0/188, Q-R=-18/194, R-S=-110/245, A-AI=-66/100
BOT CHORD AH-AI=-169/137, AG-AH=-169/137, AF-AG=-169/137, AE-AF=-169/137, AD-AE=-169/137, AC-AD=-169/137, AB-AC=-169/137, AA-AB=-169/137, Z-AA=-169/137, Y-Z=-169/137, X-Y=-169/137, W-X=-169/137, V-W=-169/137, U-V=-169/137, T-U=-169/137, S-T=-169/137
WEBS J-AA=-270/0, I-AB=-132/97, H-AC=-118/120, G-AD=-121/112, F-AE=-119/113, E-AF=-123/116, C-AG=-111/100, B-AH=-176/166, K-Z=-136/92, L-Y=-116/121, M-X=-121/112, N-W=-117/113, O-V=-135/116, Q-U=-59/99, R-T=-235/164

NOTES (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60.
3) Truss designed for wind loads in the plane of the truss only.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x3 MT20 unless otherwise indicated.
6) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
7) Gable studs spaced at 2-0-0 oc.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint AI, 73 lb uplift at joint AB, 96 lb uplift at joint AC, 88 lb uplift at joint AD, 88 lb uplift at joint AE, 96 lb uplift at joint AF, 62 lb uplift at joint AG, 192 lb uplift at joint AH, 68 lb uplift at joint Z, 97 lb uplift at joint Y, 88 lb uplift at joint X, 89 lb uplift at joint W, 91 lb uplift at joint V, 81 lb uplift at joint U and 135 lb uplift at joint T.
9) Non Standard bearing condition. Review required.
10) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

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5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T1	MOD. QUEEN	6	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:55 2006 Page 1

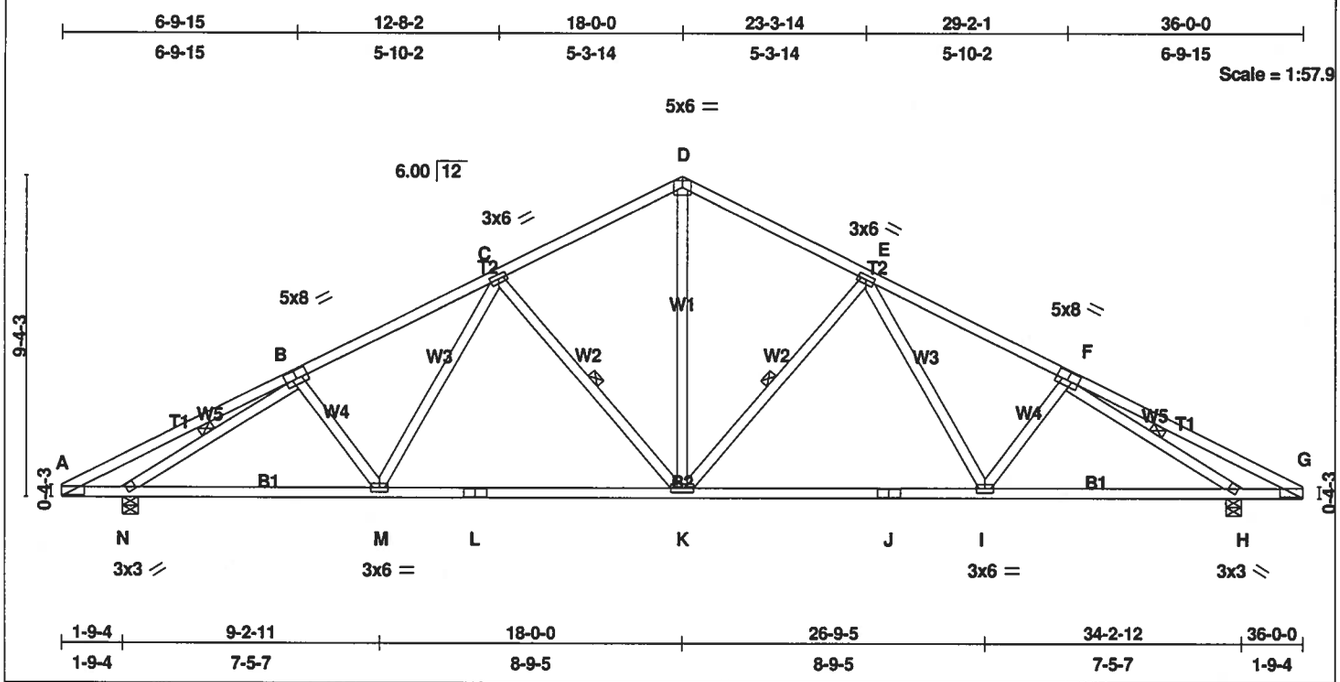

Plate Offsets (X,Y): [A:0-8-0,0-0-6], [B:0-4-0,0-3-0], [F:0-4-0,0-3-0], [G:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.33	K-M	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 201 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt C-K, E-K, B-N, F-H

REACTIONS (lb/size) N=1440/0-5-8, H=1440/0-5-8
Max Horz N=156(load case 4)
Max Uplift N=-522(load case 5), H=-522(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-138/124, B-C=-1848/657, C-D=-1396/555, D-E=-1396/555, E-F=-1848/657, F-G=-138/124
BOT CHORD A-N=-31/186, M-N=-586/1621, L-M=-410/1467, K-L=-410/1467, J-K=-302/1467, I-J=-302/1467, H-I=-436/1621, G-H=-31/186
WEBS B-M=-109/231, C-M=-87/300, C-K=-473/341, D-K=-291/864, E-K=-473/341, E-I=-88/300, F-I=-109/232, B-N=-1988/753, F-H=-1988/753

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; 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) All plates are 3x8 MT20 unless otherwise indicated.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 522 lb uplift at joint N and 522 lb uplift at joint H.
7) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

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5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T2	MOD. QUEEN	5	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:56 2006 Page 1

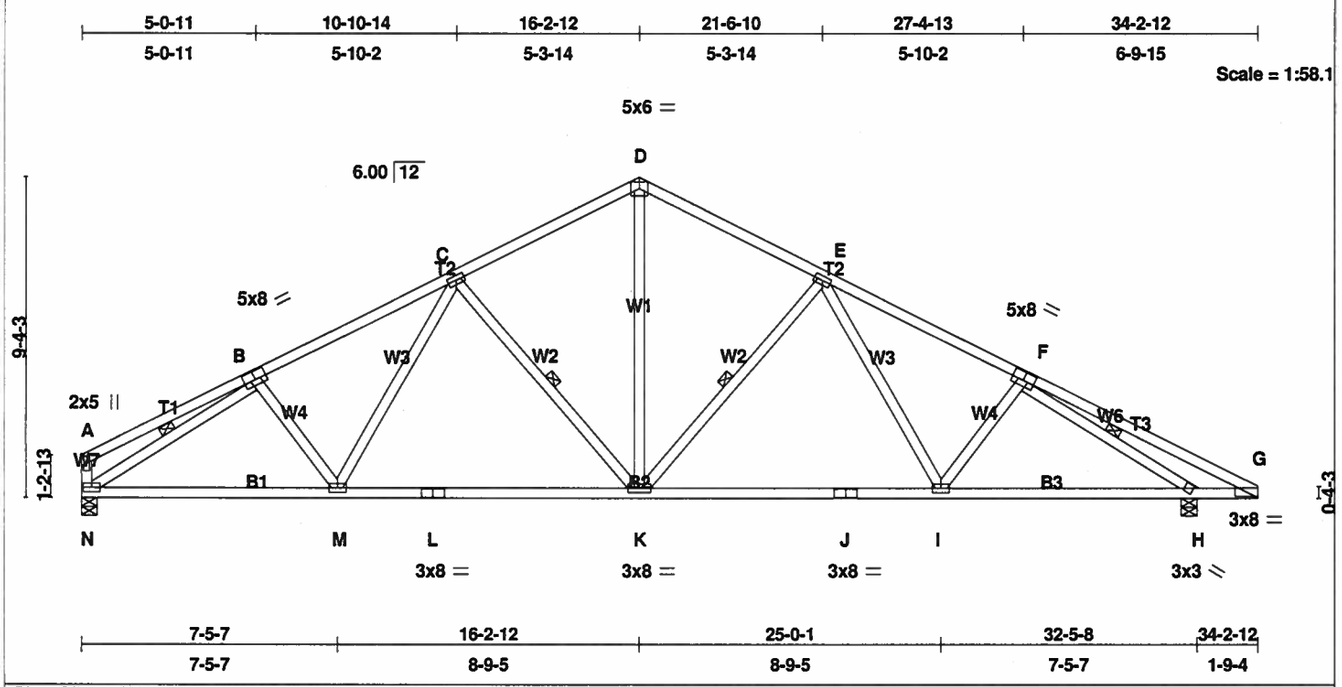

Plate Offsets (X,Y): [B:0-4-0,0-3-0], [F:0-4-0,0-3-0], [G:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.33	I-K	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 196 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt C-K, E-K, F-H, B-N

REACTIONS (lb/size) N=1289/0-5-8, H=1438/0-5-8
Max Horz N=-189(load case 6)
Max UpliftN=-410(load case 5), H=-521(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-345/153, B-C=-1822/647, C-D=-1393/552, D-E=-1392/555, E-F=-1844/654, F-G=-137/124, A-N=-272/158
BOT CHORD M-N=-569/1583, L-M=-413/1463, K-L=-413/1463, J-K=-302/1463, I-J=-302/1463, H-I=-434/1618, G-H=-31/186
WEBS B-M=-77/207, C-M=-73/285, C-K=-475/347, D-K=-295/865, E-K=-473/342, E-I=-88/300, F-I=-109/232, F-H=-1985/751, B-N=-1631/501

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; 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) All plates are 3x6 MT20 unless otherwise indicated.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 410 lb uplift at joint N and 521 lb uplift at joint H.
7) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

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5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T3	MOD. QUEEN	5	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:56 2006 Page 1

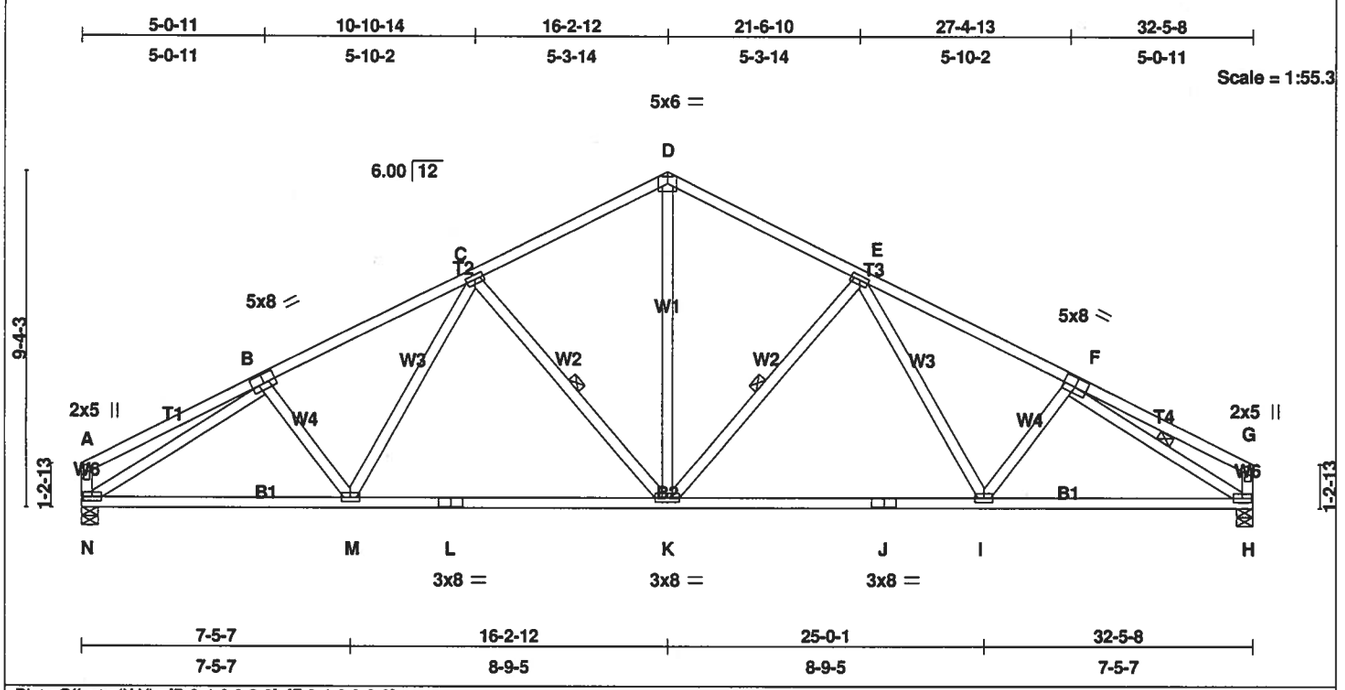

Plate Offsets (X,Y): [B:0-4-0,0-3-0], [F:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.32	K-M	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	1.00	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 191 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-13 oc bracing.
WEBS 1 Row at midpt C-K, E-K, F-H

REACTIONS (lb/size) N=1287/0-5-8, H=1287/0-5-8
Max Horz N=139(load case 4)
Max UpliftN=-409(load case 5), H=-409(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-345/153, B-C=-1818/645, C-D=-1388/552, D-E=-1389/553, E-F=-1818/641, F-G=-331/140, A-N=-272/158, G-H=-261/147
BOT CHORD M-N=-605/1580, L-M=-449/1459, K-L=-449/1459, J-K=-338/1460, I-J=-338/1460, H-I=-474/1576
WEBS B-M=-77/207, C-M=-73/285, C-K=-476/348, D-K=-297/868, E-K=-478/350, E-I=-68/283, F-I=-73/206, B-N=-1628/499, F-H=-1639/515

NOTES (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; 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) All plates are 3x6 MT20 unless otherwise indicated.
5) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 lb uplift at joint N and 409 lb uplift at joint H.
7) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

LOAD CASE(S) Standard

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5631 S. NC 62
Burlington, NC 27215

2/2/2006

Job	Truss	Truss Type	Qty	Ply	07326-SOUTHLAND-DWH-020206
56002014	T4	MOD. QUEEN	10	1	Job Reference (optional)

Universal Forest Products,Inc., Burlington, NC 27215, Dan Habla — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Feb 02 11:44:57 2006 Page 1

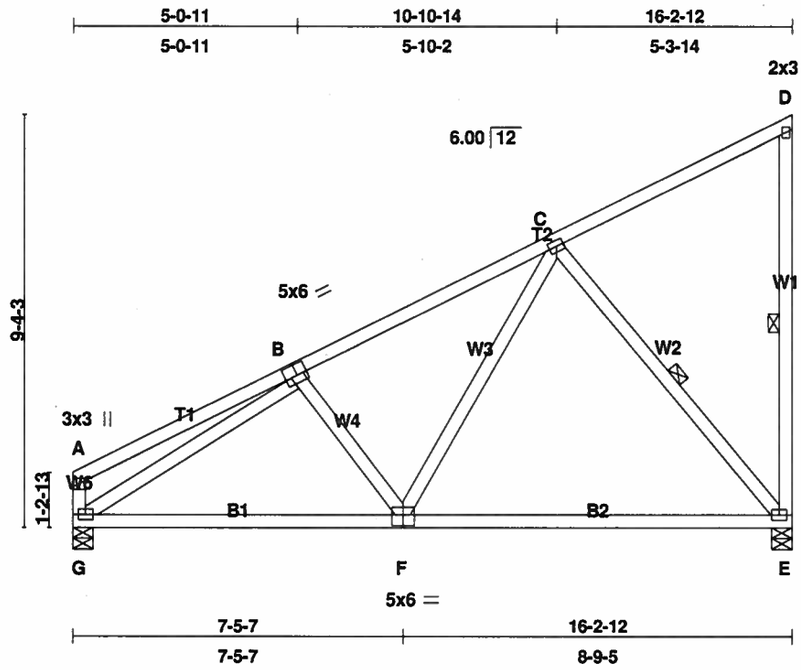

Plate Offsets (X,Y): [B:0-2-12,0-3-0], [F:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.12	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.29	E-F	>654	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.01	E	n/a	n/a		
BCDL	10.0	Code FBC2004/TPI2002		(Matrix)							Weight: 102 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-0 oc bracing.
WEBS 1 Row at midpt D-E, C-E

REACTIONS (lb/size) G=638/0-5-8, E=638/0-5-8
Max Horz G=437(load case 5)
Max UpliftG=-109(load case 5), E=-383(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-267/128, B-C=-688/118, C-D=-97/42, A-G=-229/144, D-E=-126/118
BOT CHORD F-G=-482/666, E-F=-252/365
WEBS B-F=-204/284, C-F=-136/435, B-G=-591/3, C-E=-554/398

NOTES (6)
1) Wind: ASCE 7-02; 120mph (3-second gust); h=16ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever 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) All plates are 3x4 MT20 unless otherwise indicated.
4) This truss requires plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint G and 383 lb uplift at joint E.
6) Truss shall be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. Provide bracing where indicated and within 4" of interior joints. Bracing indicated is to reduce buckling of individual members only and does not replace erection and permanent bracing. Engineer's certification vaild only when truss is fabricated by a UFPI operated plant. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. The truss designer accepts no responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Any references to job names and locations are for administrative purposes only and are not part of the review or certification of the truss designer.

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5631 S. NC 62
Burlington, NC 27215

2/2/2006

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0602-06 Date Received 2-2-06 By CH Permit # 24343

Application Approved by - Zoning Official BLK Date 07.02.06 Plans Examiner OK JTH Date 3-6-06

Flood Zone X Pd A Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Den.

Comments Culvert 2293

Applicants Name Mike Mucha Phone 954-275-0510 (954-475-1947)

Address 14761 Madison Pl Davie FL 33325

Owners Name Mike Mucha Phone 954-275-0510

911 Address 182 SW Voyager Court Lake City FL 32025

Contractors Name Mike Mucha Phone 954-275-0510

Address 14761 Madison Pl

Fee Simple Owner Name & Address SAME

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Southland Log Homes

Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - (Clay Elec.) - Suwannee Valley Elec. - Progressive Energy

Property ID Number 12-4S-16-02941-107 mated Cost of Construction 73,000.00

Subdivision Name Southern Landing Lot 7 Block Unit Phase

Driving Directions Aviation S/D 1040-1895

90 W to Sisters Welcome Rd, TL Brothers Lane, TL on SW Voyager court 3rd Lot Left side

Type of Construction Log Cabin Number of Existing Dwellings on Property 0

Total Acreage .75 Lot Size Do you need a - Culvert Permit or (Culvert Waiver) or Have an Existing Drive (PRIVATE)

Actual Distance of Structure from Property Lines - Front 60' Side L-42' Side R-90' Rear 76'

Total Building Height 1 story Number of Stories 1 Heated Floor Area 1965 Roof Pitch 12-12

Porches 380 1963 TOTAL 2343

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number

Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 2 day of February 2006

LAURIE HODSON
MY COMMISSION # DD 333503
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Personally known ____ or Produced Identification ____

Notary Signature

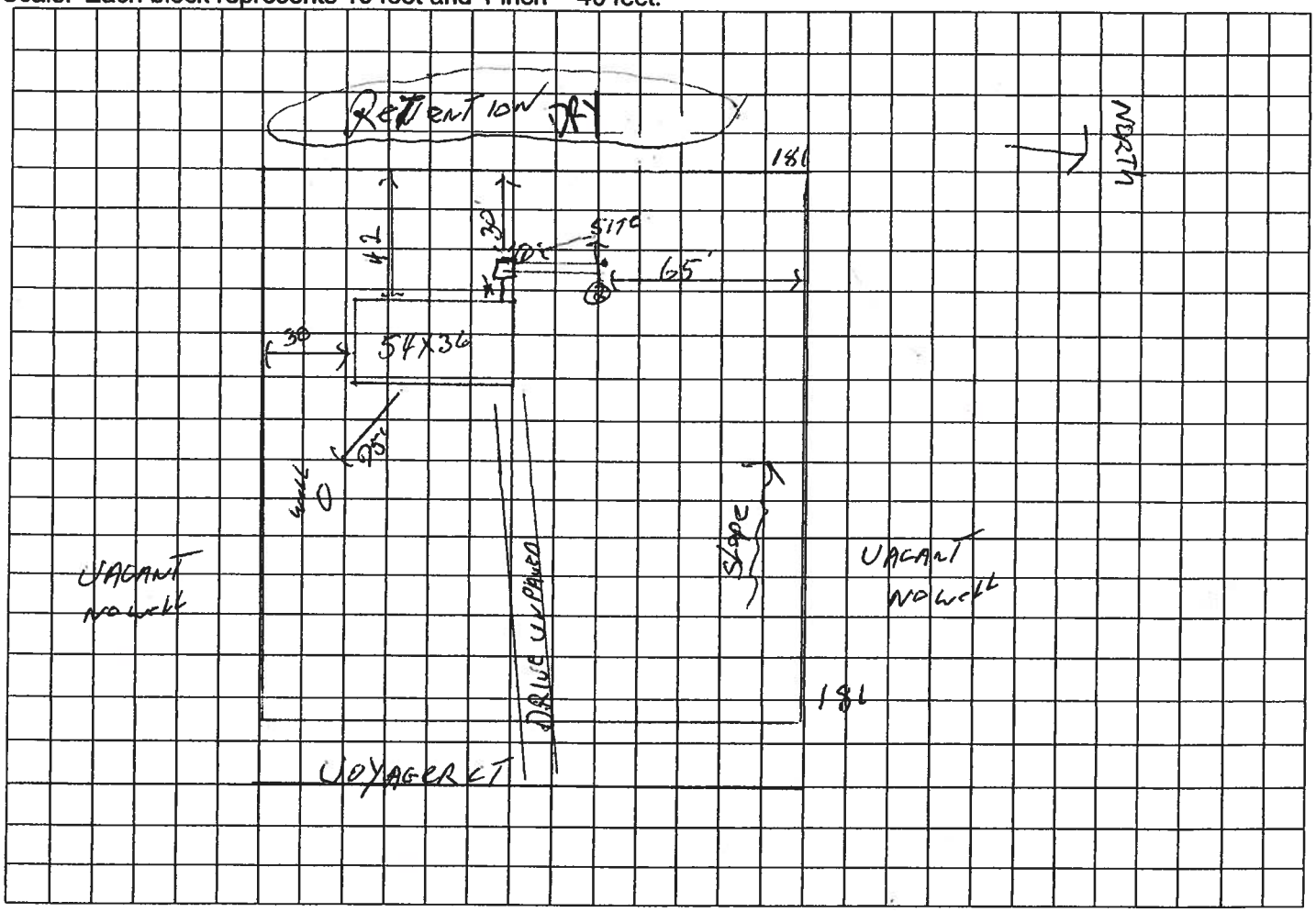
STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0199N

Mucks

PART II - SITEPLAN

Scale: Each block represents 10 feet and 1 inch = 40 feet.



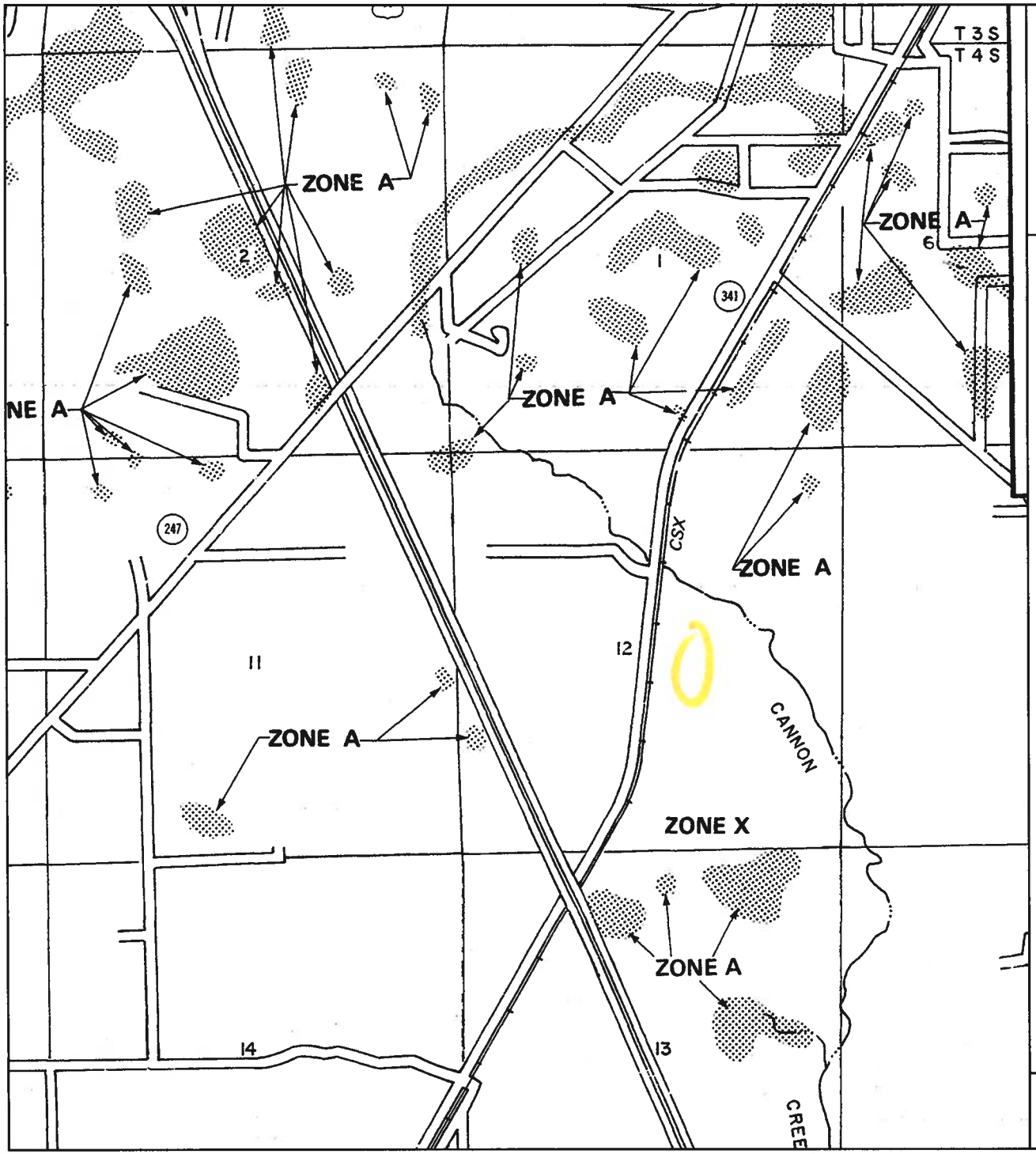
Notes: STAY 65 FT FROM NORTH PROPERTY LINE

Site Plan submitted by: R C Ford — Agent

Plan Approved X — Not Approved ____ — Date 3/3/06

By [signature] — Columbia CHD County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



APPROXIMATE SCALE IN FEET

2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

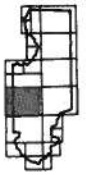
FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION



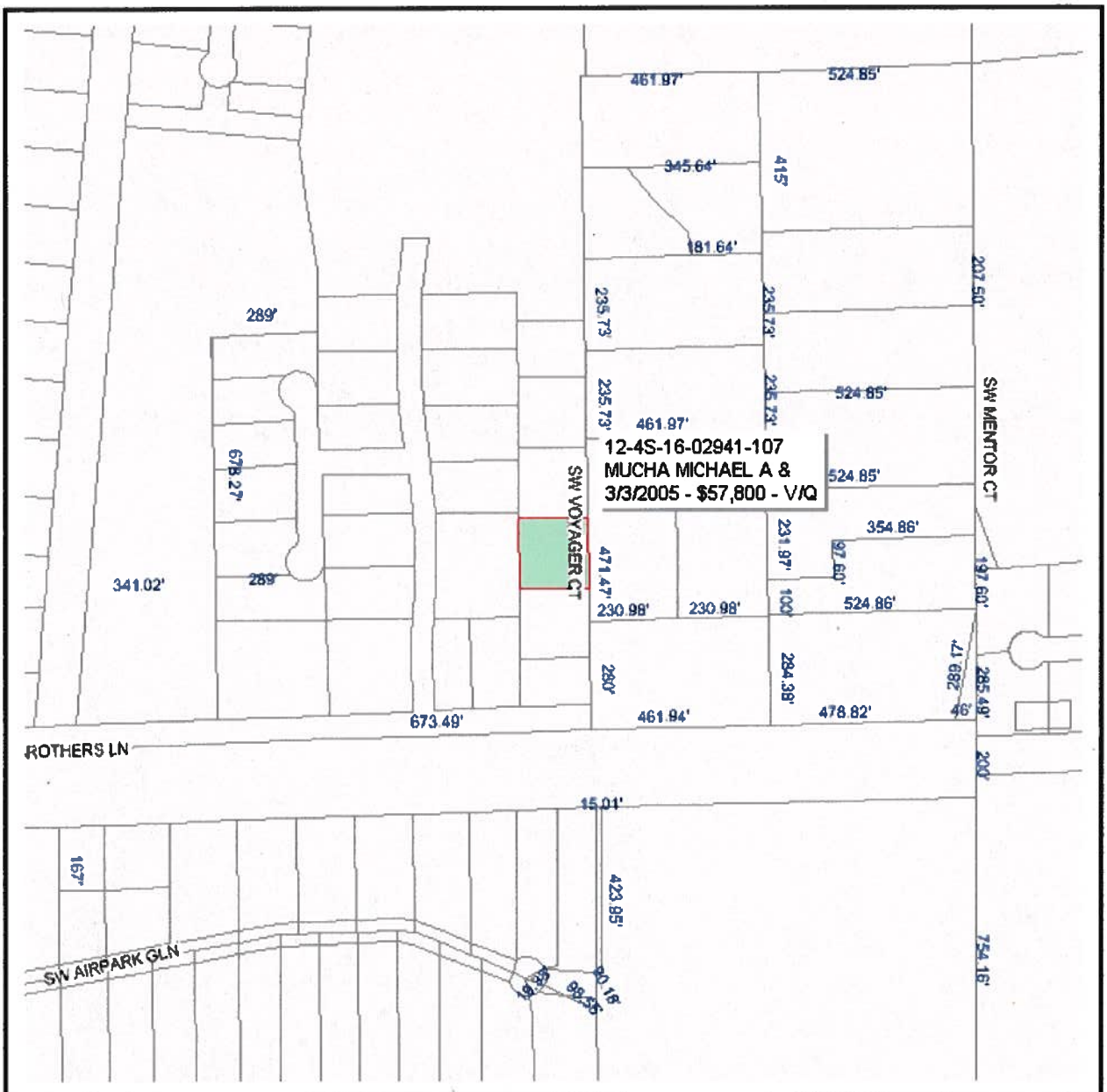
COMMUNITY-PANEL NUMBER
120070 0175 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Futher information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/tsd.

Print Date: 2/7/2008 (printed at scale and type A)



Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 12-4S-16-02941-107 - VACANT (000000)

LOT 7 SOUTHERN LANDINGS AVIATION S/D. WD 1040-1895.

Name:	MUCHA MICHAEL A &	LandVal	$38,500.00
Site:	VOYAGER	BldgVal	$0.00
	NORMA A MUCHA	ApprVal	$38,500.00
Mail:	14761 MASISON PLACE	JustVal	$38,500.00
	DAVIE, FL 33325	Assd	$38,500.00
Sales Info	3/3/2005 $57,800.00 V / Q	Exmpt	$0.00
		Taxable	$38,500.00

0 170 340 510 ft

N W E S

This information, GIS Map Updated: 8/3/2005, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

0'
180.12'
EIBD
WELL
42'
SEPTIC TANK
PROP. HOME
40'
54'
PORCH
PORCH
33'
60'
76'
270.33'
181.50'
181.50'
182 SW VOYAGER COURT
45'
45'
FUTURE PROP. HANGER
90'
FUTURE PROP. DRIVE WAY
20'
15'
180.31'
N

DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

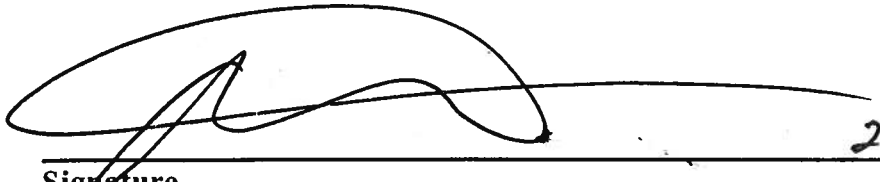
State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling
( ) Two-Family Residence
( ) Farm Outbuilding
( ) Other_____
( ) New Construction
( ) Addition, Alteration, Modification or other Improvement

NEW CONSTRUCTION OR IMPROVEMENT

I Mike Mucha, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number_____



2-2-06

Signature Date

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date 2-2-06 Building Official/Representative

RONNIE BRANNON, CFC
COLUMBIA COUNTY TAX COLLECTOR

2005 REAL ESTATE 01100890000
NOTICE OF AD VALOREM TAXES AND NON-AD VALOREM ASSESSMENTS

ACCOUNT NUMBER	ESCROW CD	ASSESSED VALUE	EXEMPTIONS	TAXABLE VALUE	MILLAGE CODE
R02941-107		38,500	0	38,500	002

R

0027839 01 FP 0.352 **PRSRT T7 0 0810 33325-123

MUCHA MICHAEL A &
NORMA A MUCHA
14761 MASISON PLACE
DAVIE FL 33325

12-4S-16 0000/0000 .75 Acres
LOT 7 SOUTHERN LANDINGS
AVIATION S/D. WD 1040-1895.

SEE INSERT FOR IMPORTANT INFO
AND TELEPHONE NUMBERS
WWW.COLUMBIATAXCOLLECTOR.COM

AD VALOREM TAXES

TAXING AUTHORITY	MILLAGE RATE (DOLLARS PER $1,000 OF TAXABLE VALUE)	TAXES LEVIED
C001 BOARD OF COUNTY COMMISSIONERS	8.7260	335.95
S002 COLUMBIA COUNTY SCHOOL BOARD		
DISCRETIONARY	.7600	29.26
LOCAL	5.1950	200.01
CAPITAL OUTLAY	2.0000	77.00
W SR SUWANNEE RIVER WATER MGT DIST	.4914	18.92
HLSH SHANDS AT LAKE SHORE	1.7500	67.38
IIDA INDUSTRIAL DEVELOPEMENT AUTH	.1380	5.31
TOTAL MILLAGE	19.0604	AD VALOREM TAXES $733.83

NON-AD VALOREM ASSESSMENTS

LEVYING AUTHORITY	RATE	AMOUNT
FFIR FIRE ASSESSMENTS		28.09
PAY ONLY ONE AMOUNT IN YELLOW SHADED AREA	NON-AD VALOREM ASSESSMENTS	$28.09

COMBINED TAXES AND ASSESSMENTS	$761.92	PAY ONLY ONE AMOUNT	See reverse side for important information.

IF PAID BY	Nov 30	Dec 31	Jan 31	Feb 28	Mar 31
PLEASE PAY	731.44	739.06	746.68	754.30	761.92

IF PAID BY

RONNIE BRANNON, CFC
COLUMBIA COUNTY TAX COLLECTOR

2005 REAL ESTATE 01100890000
NOTICE OF AD VALOREM TAXES AND NON-AD VALOREM ASSESSMENTS

ACCOUNT NUMBER	ESCROW CD	ASSESSED VALUE	EXEMPTIONS	TAXABLE VALUE	MILLAGE CODE
R02941-107		38,500	0	38,500	002

FP0027839 R
MUCHA MICHAEL A &
NORMA A MUCHA
14761 MASISON PLACE
DAVIE FL 33325

12-4S-16 0000/0000 .75 Acres
LOT 7 SOUTHERN LANDINGS
AVIATION S/D. WD 1040-1895.

PAY IN U.S. FUNDS TO RONNIE BRANNON TAX COLLECTOR • 135 NE HERNANDO AVE., SUITE 125, LAKE CITY, FL 32055-4006 • www.columbiataxcollector.com

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

******THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.******

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number R02941-107 12-4S-16 0000/0000
182 SW Voyager Court

1. **Description of property: (legal description of the property and street address or 911 address)**
Lot 7, Southern Landing Aviation Subdivision, A Subdivision According to the Plat thereof as Recorded in Plat Book 7, Pages 205-206, Public Records of Columbia County, Fla

2. **General description of improvement:** Construction of Dwelling

3. **Owner Name & Address** Mike Mucha 182 SW Voyager Court
FNorma **Interest in Property** 100%

4. **Name & Address of Fee Simple Owner (if other than owner):** N/A

5. **Contractor Name** Mike ~~Sams~~ Mucha **Phone Number** 954-275-0510
Address 14761 Madison Place Davie FL 33325

6. **Surety Holders Name** N/A **Phone Number**
Address
Amount of Bond

7. **Lender Name** N/A **Phone Number**
Address

8. **Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:**
Name NONE **Phone Number**
Address

9. **In addition to himself/herself the owner designates** NONE **of**
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee

10. **Expiration date of the Notice of Commence** Inst:2006002574 Date:02/02/2006 Time:13:27 **ng.**
(Unless a different date is specified) ~~1 yr.~~ DC,P.DeWitt Cason,Columbia County B:1072 P:2252

NOTICE AS PER CHAPTER 713, Florida Statutes.
The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Sworn to (or affirmed) and subscribed before day of 2-2, **20** 06

Signature of Owner

NOTARY STAMP/SEAL

LAURIE HODSON
MY COMMISSION # DD 333503
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Signature of Notary

Notice of Treatment 11925

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: BAYA AVE
City L.C. Phone 752-1703

Site Location: Subdivision Cannon Creek
Lot # 7 Block# _____ Permit # 24343
Address 182 SW Voyager CT. L.C. Cannon Creek

Product used	Active Ingredient	% Concentration
☒ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☒ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
DWL	2,343	188	180

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

5.17.06 Date | 11.15 Time | Daniel Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

FORM 600A-2004 # 0602-6 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**601254SLHMuchaMike&Norma**	Builder:	
Address:	**182 W Voyager CT**	Permitting Office:	
City, State:	**Lake City, FL 32025-**	Permit Number:	
Owner:	**Mucha Mike & Norma**	Jurisdiction Number:	
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	1963 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description Area (Dble Default) 214.9 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 214.9 ft²	
8.	Floor types		
a.	Raised Wood, Stem Wall	R=30.0, 1963.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1421.1 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2011.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Outdoors	Sup. R=6.0, 130.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 30.0 kBtu/hr SEER: 12.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 30.0 kBtu/hr HSPF: 7.60	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.93	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.11

Total as-built points: 27605
Total base points: 27998

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 2-22-06

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	1963.0	20.04	7080.9	Double, Clear	N	1.5	5.5	15.5	19.20	0.93	276.2
				Double, Clear	N	8.0	3.5	9.5	19.20	0.61	111.5
				Double, Clear	N	8.0	8.0	30.0	19.20	0.71	409.5
				Double, Clear	E	1.5	0.0	6.3	42.06	0.36	94.6
				Double, Clear	E	1.5	0.0	15.5	42.06	0.36	232.6
				Double, Clear	S	8.0	5.0	18.0	35.87	0.47	301.3
				Double, Clear	S	1.5	0.0	62.0	35.87	0.43	960.5
				Double, Clear	S	1.5	5.0	18.0	35.87	0.81	520.9
				Double, Clear	S	1.5	0.0	5.3	35.87	0.43	82.1
				Double, Clear	S	1.5	0.0	2.5	35.87	0.43	38.7
				Double, Clear	S	1.5	0.0	1.3	35.87	0.43	20.1
				Double, Clear	W	1.5	0.0	31.0	38.52	0.37	447.4
				As-Built Total:				**214.9**			**3495.5**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1421.1	1.50	2131.6
Exterior	1421.1	1.70	2415.9					
Base Total:	**1421.1**		**2415.9**	**As-Built Total:**		**1421.1**		**2131.6**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0	4.10	164.0
Exterior	40.0	4.10	164.0				
Base Total:	**40.0**		**164.0**	**As-Built Total:**	**40.0**		**164.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	1963.0	1.73	3396.0	Under Attic	30.0	2011.0	1.73 X 1.00	3479.0
Base Total:	**1963.0**		**3396.0**	**As-Built Total:**		**2011.0**		**3479.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	30.0	1963.0	-1.50	-2944.5
Raised	1963.0	-3.99	-7832.4					
Base Total:			**-7832.4**	**As-Built Total:**		**1963.0**		**-2944.5**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	= Points			
	1963.0	10.21	20042.2		1963.0	10.21	20042.2			
Summer Base Points: 25266.7				**Summer As-Built Points:**						**26367.9**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
				(sys 1: Central Unit 30000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Out(AH),R6.0(INS)						
				26368	1.00	(1.09 x 1.147 x 1.02)	0.284	1.000	9563.6	
25266.7	**0.4266**	**10778.8**		**26367.9**	**1.00**	**1.275**	**0.284**	**1.000**	**9563.6**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1963.0	12.74	4501.6	Double, Clear	N	1.5	5.5	15.5	24.58	1.00	382.1	
				Double, Clear	N	8.0	3.5	9.5	24.58	1.03	239.5	
				Double, Clear	N	8.0	8.0	30.0	24.58	1.02	750.8	
				Double, Clear	E	1.5	0.0	6.3	18.79	1.51	178.4	
				Double, Clear	E	1.5	0.0	15.5	18.79	1.51	438.9	
				Double, Clear	S	8.0	5.0	18.0	13.30	3.35	802.0	
				Double, Clear	S	1.5	0.0	62.0	13.30	3.66	3017.5	
				Double, Clear	S	1.5	5.0	18.0	13.30	1.20	286.6	
				Double, Clear	S	1.5	0.0	5.3	13.30	3.66	257.9	
				Double, Clear	S	1.5	0.0	2.5	13.30	3.66	121.7	
				Double, Clear	S	1.5	0.0	1.3	13.30	3.66	63.3	
				Double, Clear	W	1.5	0.0	31.0	20.73	1.24	795.4	
				As-Built Total:				**214.9**			**7334.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1421.1	3.40	4831.7
Exterior	1421.1	3.70	5258.1					
Base Total:	**1421.1**		**5258.1**	**As-Built Total:**		**1421.1**		**4831.7**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0	8.40	336.0
Exterior	40.0	8.40	336.0				
Base Total:	**40.0**		**336.0**	**As-Built Total:**	**40.0**		**336.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	1963.0	2.05	4024.1	Under Attic	30.0	2011.0	2.05 X	1.00	4122.5
Base Total:	**1963.0**		**4024.1**	**As-Built Total:**		**2011.0**			**4122.5**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	30.0	1963.0	0.80	1570.4
Raised	1963.0	0.96	1884.5					
Base Total:			**1884.5**	**As-Built Total:**		**1963.0**		**1570.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points				Area X	WPM	=	Points
	1963.0	-0.59	-1158.2				1963.0	-0.59		-1158.2
Winter Base Points:			**14846.1**	**Winter As-Built Points:**						**17036.6**
Total Winter Points	X System Multiplier	=	Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Heating Points
				(sys 1: Electric Heat Pump 30000 btuh ,EFF(7.6) Ducts:Unc(S),Unc(R),Out(AH),R6.0						
				17036.6	1.000	(1.069 x 1.169 x 1.07)	0.449	1.000		10221.1
14846.1	**0.6274**		**9314.4**	**17036.6**	**1.00**	**1.337**	**0.449**	**1.000**		**10221.1**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2635.00	7905.0	40.0	0.93	3		1.00	2606.67	1.00	7820.0
				As-Built Total:							**7820.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
10779	**9314**	**7905**	**27998**	**9564**	**10221**	**7820**	**27605**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.2

The higher the score, the more efficient the home.

Mucha Mike & Norma, 182 W Voyager CT, Lake City, FL, 32025-

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	1963 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT) 7a.	Description Area (Dble Default) 214.9 ft²	
b.	SHGC: (or Clear or Tint DEFAULT) 7b.	(Clear) 214.9 ft²	
8.	Floor types		
a.	Raised Wood, Stem Wall	R=30.0, 1963.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1421.1 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2011.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Outdoors	Sup. R=6.0, 130.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit	Cap: 30.0 kBtu/hr SEER: 12.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 30.0 kBtu/hr HSPF: 7.60	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.93	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

24343

Harry 258-2160

Cal-Tech Testing, Inc.
• Engineering
• Geotechnical
• Environmental
Laboratories

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
6919 Distribution Ave. S., Unit #5, Jacksonville, FL 32257 • Tel(904)262-4048 • Fax(904)262-4047
2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 06-206
DATE TESTED: 4/4/06
DATE REPORTED: 4/7/06

PROJECT:	Mucha Residence, Lake City
CLIENT:	Dale's Excavation, 6319 SW SR 47, Lake City, FL 32024
GENERAL CONTRACTOR:	Dale's Excavation, 6319 SW SR 47, Lake City, FL 32024
EARTHWORK CONTRACTOR:	Dale's Excavation, 6319 SW SR 47, Lake City, FL 32024
INSPECTOR:	J. O'Steen

ASTM METHOD	SOIL USE
(D-2922) Nuclear	BUILDING FILL

SPECIFICATION REQUIREMENTS: 95%

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft³)	MOISTURE PERCENT	DRY DENSITY (lb/ft³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1	25' N of Well Pump	0-12"	115.3	5.5	109.3	PIT	107.9	101.3%
2	50' W of Well Pump	0-12"	116.7	5.9	110.2	PIT	107.9	102.1%
3	75' N of Well Pump	0-12"	114.7	5.1	109.1	PIT	107.9	101.1%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS

PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft³)	OPT. MOIST.	TYPE
PIT	Tan Sand (Peeler's Pit)	107.9	11.1	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer
President - CEO

Reviewed By:

Date: 4/10/06
Florida Registration No: 52612

sc

From: The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

Reference to: Build permit application Number: 0602-6

Mike Mucha Owner/Builder Lot 7 of Southern Landing Aviation Subdivision

On the date of February 07, 2006 application 0602-06 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0602-02 when making reference to this application.

1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
2. On the elevation plan show the total height of the structure from the established finished grade to the roofs ridge point.
3. On sheet 3.2 please callout the width and depth of the continuous footing, along with the steel reinforcing, bars sizes and total number requires for the perimeter foundation (FO) footing.

4. On sheet 3.2 provide a detail drawing that will show the width and depth of the two footing (16'2") which intersect the perimeter foundation show the steel reinforcing, bars sizes and total number required and at the intersection point of the two foundations.
5. On sheet 3.2 provide a detail drawing that will show the width, length and depth of the (F1 & F2) foundation piers.
6. Show the method which will be utilized to provide cross air ventilation for the crawl space area of the structure.
7. On the transverse section –A- Sheet 5.1, provide a detail drawing of the attachment method which attaches the 2 x 10 PT ledger boards to the foundation stem walls.
8. On the F-1& F-2 foundation piers detail the method which will attach the 2 X 10 girder to the support piers.
9. Please provide a truss package which will include truss layout and truss details signed and sealed by Fl. Pro. Eng. and a roof assembly (FBC 106.1.1.2) roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
10. Provide Florida product approval for the fixed windows.
11. Please submit the required forms to show compliance with the FBC-2004 chapter 13energy effiency Sections 13-101.2.1 New construction: new residential construction shall comply with this code by using the following compliance methods: Subchapter 13-6, Residential buildings compliance methods. Single-family residential buildings and Multiple-family buildings of three stories or less shall comply with this chapter of the code. This subchapter contains three compliance methods:

Method A: Whole Building Performance Method

Method B: Component Prescriptive Method

Method C: Limited Applications Prescriptive Method

12. Overcurrent protection device shall be installed on the exterior of structures to serve as a disconnecting means. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Show the location on the plans of the external and internal electrical service panels include the total amperage rating of the electrical panels.

13. Please submit a letter form the potable water well contractor which will describe the equipment to be used to supply potable water to this dwelling. Include the size of pump motor, size of pressure tank and cycle stop valve if used.

14. Two sets of structural plan were submitted to this department only one set was sealed by Mr. Mark Disosway please have the second set seal which will be returned to you to be placed at the construction site.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

0602-6

Residential System Sizing Calculation

Summary

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

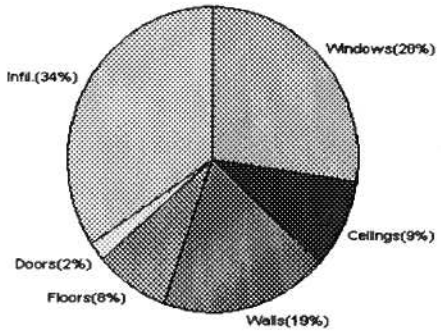
2/22/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**25024**	**Btuh**	**Total cooling load calculation**	**24459**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.9	30000	Sensible (SHR = 0.75)	116.9	22500
Heat Pump + Auxiliary(0.0kW)	119.9	30000	Latent	143.8	7500
			Total (Electric Heat Pump)	122.7	30000

WINTER CALCULATIONS

Winter Heating Load (for 1963 sqft)

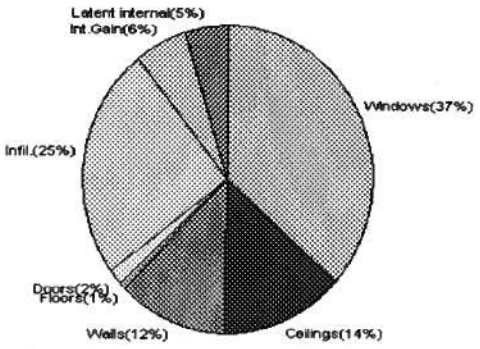
Load component			Load	
Window total	215	sqft	6918	Btuh
Wall total	1421	sqft	4667	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	2011	sqft	2370	Btuh
Floor total	1963	sqft	2071	Btuh
Infiltration	209	cfm	8481	Btuh
Duct loss			0	Btuh
Subtotal			**25024**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**25024**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1963 sqft)

Load component			Load	
Window total	215	sqft	8943	Btuh
Wall total	1421	sqft	2964	Btuh
Door total	40	sqft	392	Btuh
Ceiling total	2011	sqft	3330	Btuh
Floor total			186	Btuh
Infiltration	110	cfm	2046	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**19241**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			4017	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**5217**	**Btuh**
TOTAL HEAT GAIN			**24459**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: [signature]
DATE: 2-22-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

2/22/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.5	32.2	499 Btuh
2	2, Clear, Metal, 0.87	NW	9.5	32.2	306 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NE	6.3	32.2	203 Btuh
5	2, Clear, Metal, 0.87	NE	15.5	32.2	499 Btuh
6	2, Clear, Metal, 0.87	SE	18.0	32.2	579 Btuh
7	2, Clear, Metal, 0.87	SE	62.0	32.2	1996 Btuh
8	2, Clear, Metal, 0.87	SE	18.0	32.2	579 Btuh
9	2, Clear, Metal, 0.87	SE	5.3	32.2	171 Btuh
10	2, Clear, Metal, 0.87	SE	2.5	32.2	80 Btuh
11	2, Clear, Metal, 0.87	SE	1.3	32.2	42 Btuh
12	2, Clear, Metal, 0.87	SW	31.0	32.2	998 Btuh
	Window Total		215(sqft)		6918 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1421	3.3	4667 Btuh
	Wall Total		1421		4667 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2011	1.2	2370 Btuh
	Ceiling Total		2011		2370Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Stem Wall	30	1963.0 sqft	1.1	2071 Btuh
	Floor Total		1963		2071 Btuh
			Zone Envelope Subtotal:		16543 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	15704	209.4	8481 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**25024 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

2/22/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	25024 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25024 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

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System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

2/22/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.5	32.2	499 Btuh
2	2, Clear, Metal, 0.87	NW	9.5	32.2	306 Btuh
3	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
4	2, Clear, Metal, 0.87	NE	6.3	32.2	203 Btuh
5	2, Clear, Metal, 0.87	NE	15.5	32.2	499 Btuh
6	2, Clear, Metal, 0.87	SE	18.0	32.2	579 Btuh
7	2, Clear, Metal, 0.87	SE	62.0	32.2	1996 Btuh
8	2, Clear, Metal, 0.87	SE	18.0	32.2	579 Btuh
9	2, Clear, Metal, 0.87	SE	5.3	32.2	171 Btuh
10	2, Clear, Metal, 0.87	SE	2.5	32.2	80 Btuh
11	2, Clear, Metal, 0.87	SE	1.3	32.2	42 Btuh
12	2, Clear, Metal, 0.87	SW	31.0	32.2	998 Btuh
	Window Total		215(sqft)		6918 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1421	3.3	4667 Btuh
	Wall Total		1421		4667 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	518 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2011	1.2	2370 Btuh
	Ceiling Total		2011		2370Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Stem Wall	30	1963.0 sqft	1.1	2071 Btuh
	Floor Total		1963		2071 Btuh
			Zone Envelope Subtotal:		16543 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	15704	209.4	8481 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**25024 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

2/22/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	25024 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25024 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 2/22/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.5	0.0	15.5	29	60	931 Btuh
2	2, Clear, 0.87, None,N,N	NW	8ft.	3.5ft.	9.5	0.0	9.5	29	60	570 Btuh
3	2, Clear, 0.87, None,N,N	NW	8ft.	8ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	6.3	0.0	6.3	29	60	378 Btuh
5	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	15.5	0.0	15.5	29	60	931 Btuh
6	2, Clear, 0.87, None,N,N	SE	8ft.	5ft.	18.0	18.0	0.0	29	63	521 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	62.0	62.0	0.0	29	63	1796 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5ft.	18.0	8.1	9.9	29	63	854 Btuh
9	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	5.3	5.3	0.0	29	63	153 Btuh
10	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	2.5	2.5	0.0	29	63	72 Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	1.3	1.3	0.0	29	63	38 Btuh
12	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	31.0	31.0	0.0	29	63	898 Btuh
	Window Total				215 (sqft)					8943 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1421.1	2.1	2964 Btuh
	Wall Total		1421 (sqft)		2964 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		40.0	9.8	392 Btuh
	Door Total		40 (sqft)		392 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2011.0	1.7	3330 Btuh
	Ceiling Total		2011 (sqft)		3330 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Stem Wall	30.0	1963 (sqft)	0.1	186 Btuh
	Floor Total		1963.0 (sqft)		186 Btuh
				Zone Envelope Subtotal:	15815 Btuh

Infiltration	Type	ACH	Volume(cuft)		CFM=	Load
	SensibleNatural	0.42	15704		109.9	2046 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	0	1380 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)				DGM = 0.00	0.0 Btuh
				Sensible Zone Load		**19241 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

2/22/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**19241 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**19241 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**19241 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	4017 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5217 Btuh**
	TOTAL GAIN	**24459 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 2/22/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.5	0.0	15.5	29	60	931 Btuh
2	2, Clear, 0.87, None,N,N	NW	8ft.	3.5ft.	9.5	0.0	9.5	29	60	570 Btuh
3	2, Clear, 0.87, None,N,N	NW	8ft.	8ft.	30.0	0.0	30.0	29	60	1801 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	6.3	0.0	6.3	29	60	378 Btuh
5	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	15.5	0.0	15.5	29	60	931 Btuh
6	2, Clear, 0.87, None,N,N	SE	8ft.	5ft.	18.0	18.0	0.0	29	63	521 Btuh
7	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	62.0	62.0	0.0	29	63	1796 Btuh
8	2, Clear, 0.87, None,N,N	SE	1.5ft.	5ft.	18.0	8.1	9.9	29	63	854 Btuh
9	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	5.3	5.3	0.0	29	63	153 Btuh
10	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	2.5	2.5	0.0	29	63	72 Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	1.3	1.3	0.0	29	63	38 Btuh
12	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	31.0	31.0	0.0	29	63	898 Btuh
	Window Total				215 (sqft)					8943 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1421.1	2.1	2964 Btuh
	Wall Total		1421 (sqft)		2964 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	40.0	9.8	392 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2011.0	1.7	3330 Btuh
	Ceiling Total		2011 (sqft)		3330 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Stem Wall	30.0	1963 (sqft)	0.1	186 Btuh
	Floor Total		1963.0 (sqft)		186 Btuh

			Zone Envelope Subtotal:		15815 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.42	15704	109.9	2046 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	0	1380 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**19241 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

Class 3 Rating
Registration No. 0
Climate: North

2/22/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**19241 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**19241 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**19241 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	4017 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5217 Btuh**
	TOTAL GAIN	**24459 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

Mucha Mike & Norma
182 W Voyager CT
Lake City, FL 32025-

Project Title:
601254SLHMuchaMike&Norma

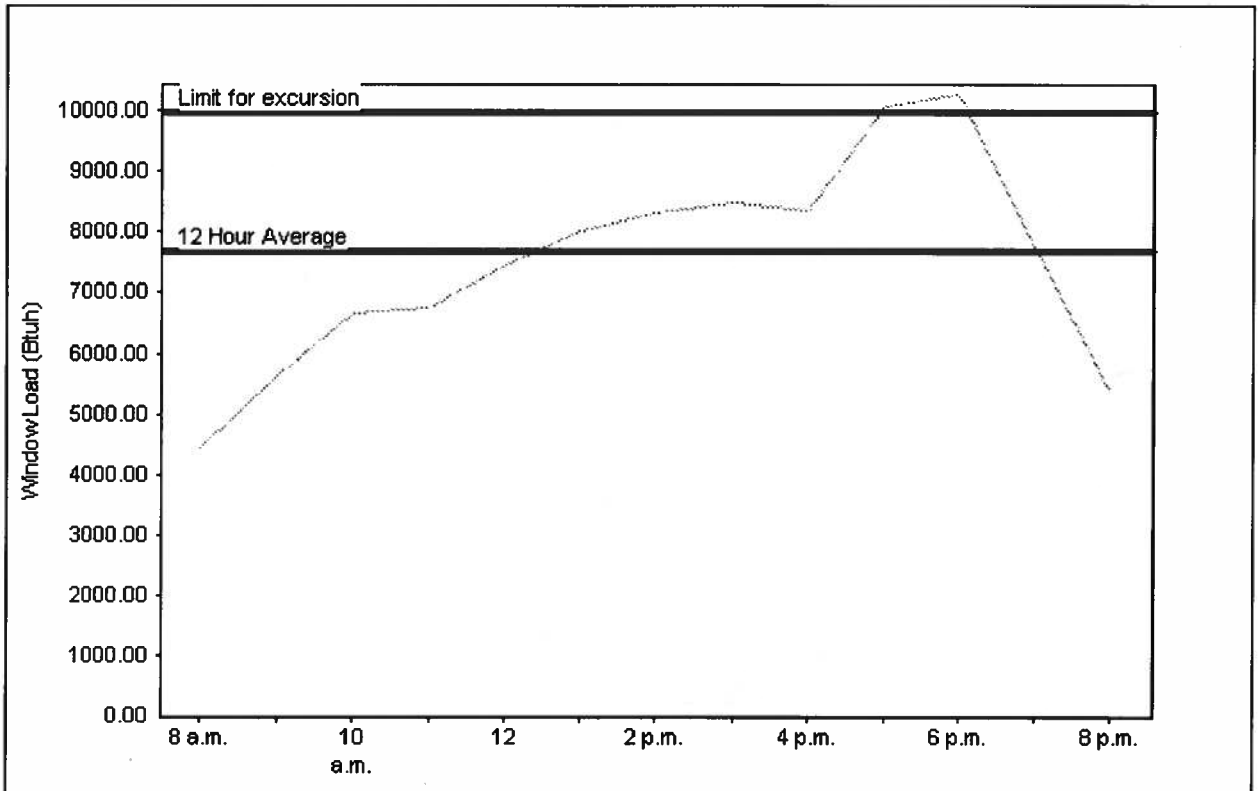
Class 3 Rating
Registration No. 0
Climate: North

2/22/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	7675 Btuh
Summer setpoint	75 F	Peak window load for July	10256 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	9978 Btuh
Latitude	29 North	Window excursion (July)	278 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 2-22-06

FORM 600A-2004 # ~~0206~~ 0602-6 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**601254SLHMuchaMike&Norma**	Builder:	
Address:	**182 W Voyager CT**	Permitting Office:	Columbia
City, State:	**Lake City, FL 32025-**	Permit Number:	24343
Owner:	**Mucha Mike & Norma**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 30.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1963 ft²	c. N/A	
7. Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor: (or Single or Double DEFAULT) 7a.	Description Area (Dble Default) 214.9 ft²	13. Heating systems	
b. SHGC: (or Clear or Tint DEFAULT) 7b.	(Clear) 214.9 ft²	a. Electric Heat Pump	Cap: 30.0 kBtu/hr
			HSPF: 7.60
8. Floor types		b. N/A	
a. Raised Wood, Stem Wall	R=30.0, 1963.0ft²		
b. N/A		c. N/A	
c. N/A			
9. Wall types		14. Hot water systems	
a. Frame, Wood, Exterior	R=13.0, 1421.1 ft²	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
d. N/A			
e. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 2011.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Outdoors	Sup. R=6.0, 130.0 ft		
b. N/A			

Glass/Floor Area: 0.11 Total as-built points: 27605 Total base points: 27998 **PASS**

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 2-27-06

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	1963.0	20.04	7080.9	Double, Clear	N	1.5	5.5	15.5	19.20	0.93	276.2
				Double, Clear	N	8.0	3.5	9.5	19.20	0.61	111.5
				Double, Clear	N	8.0	8.0	30.0	19.20	0.71	409.5
				Double, Clear	E	1.5	0.0	6.3	42.06	0.36	94.6
				Double, Clear	E	1.5	0.0	15.5	42.06	0.36	232.6
				Double, Clear	S	8.0	5.0	18.0	35.87	0.47	301.3
				Double, Clear	S	1.5	0.0	62.0	35.87	0.43	960.5
				Double, Clear	S	1.5	5.0	18.0	35.87	0.81	520.9
				Double, Clear	S	1.5	0.0	5.3	35.87	0.43	82.1
				Double, Clear	S	1.5	0.0	2.5	35.87	0.43	38.7
				Double, Clear	S	1.5	0.0	1.3	35.87	0.43	20.1
				Double, Clear	W	1.5	0.0	31.0	38.52	0.37	447.4
				As-Built Total:				**214.9**			**3495.5**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1421.1	1.50	2131.6
Exterior	1421.1	1.70	2415.9					
Base Total:	**1421.1**		**2415.9**	**As-Built Total:**		**1421.1**		**2131.6**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0	4.10	164.0
Exterior	40.0	4.10	164.0				
Base Total:	**40.0**		**164.0**	**As-Built Total:**	**40.0**		**164.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	1963.0	1.73	3396.0	Under Attic	30.0	2011.0	1.73 X 1.00	3479.0
Base Total:	**1963.0**		**3396.0**	**As-Built Total:**		**2011.0**		**3479.0**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	30.0	1963.0	-1.50	-2944.5
Raised	1963.0	-3.99	-7832.4					
Base Total:			**-7832.4**	**As-Built Total:**		**1963.0**		**-2944.5**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	=	Points		
	1963.0	10.21	20042.2		1963.0	10.21		20042.2		
Summer Base Points: 25266.7				**Summer As-Built Points:**						**26367.9**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
				(sys 1: Central Unit 30000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Out(AH),R6.0(INS)						
				26368	1.00	(1.09 x 1.147 x 1.02)	0.284	1.000	9563.6	
25266.7	**0.4266**	**10778.8**		**26367.9**	**1.00**	**1.275**	**0.284**	**1.000**	**9563.6**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1963.0	12.74	4501.6	Double, Clear	N	1.5	5.5	15.5	24.58	1.00	382.1
				Double, Clear	N	8.0	3.5	9.5	24.58	1.03	239.5
				Double, Clear	N	8.0	8.0	30.0	24.58	1.02	750.8
				Double, Clear	E	1.5	0.0	6.3	18.79	1.51	178.4
				Double, Clear	E	1.5	0.0	15.5	18.79	1.51	438.9
				Double, Clear	S	8.0	5.0	18.0	13.30	3.35	802.0
				Double, Clear	S	1.5	0.0	62.0	13.30	3.66	3017.5
				Double, Clear	S	1.5	5.0	18.0	13.30	1.20	286.6
				Double, Clear	S	1.5	0.0	5.3	13.30	3.66	257.9
				Double, Clear	S	1.5	0.0	2.5	13.30	3.66	121.7
				Double, Clear	S	1.5	0.0	1.3	13.30	3.66	63.3
				Double, Clear	W	1.5	0.0	31.0	20.73	1.24	795.4
				As-Built Total:				**214.9**			**7334.0**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1421.1	3.40	4831.7
Exterior	1421.1	3.70	5258.1					
Base Total:	**1421.1**		**5258.1**	**As-Built Total:**		**1421.1**		**4831.7**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Insulated	40.0	8.40	336.0
Exterior	40.0	8.40	336.0				
Base Total:	**40.0**		**336.0**	**As-Built Total:**	**40.0**		**336.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	1963.0	2.05	4024.1	Under Attic	30.0	2011.0	2.05 X	1.00	4122.5
Base Total:	**1963.0**		**4024.1**	**As-Built Total:**		**2011.0**			**4122.5**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	30.0	1963.0	0.80	1570.4
Raised	1963.0	0.96	1884.5					
Base Total:			**1884.5**	**As-Built Total:**		**1963.0**		**1570.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	1963.0	-0.59	-1158.2		1963.0	-0.59	-1158.2			
Winter Base Points:			**14846.1**	**Winter As-Built Points:**						**17036.6**
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 30000 btuh ,EFF(7.6) Ducts:Unc(S),Unc(R),Out(AH),R6.0						
				17036.6		1.000	(1.069 x 1.169 x 1.07)	0.449	1.000	10221.1
14846.1		**0.6274**	**9314.4**	**17036.6**		**1.00**	**1.337**	**0.449**	**1.000**	**10221.1**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3	2635.00	7905.0		40.0	0.93	3	1.00	2606.67	1.00	7820.0
				As-Built Total:						**7820.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
10779	**9314**	**7905**	**27998**	**9564**	**10221**	**7820**	**27605**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **182 W Voyager CT, Lake City, FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.2

The higher the score, the more efficient the home.

Mucha Mike & Norma, 182 W Voyager CT, Lake City, FL, 32025-

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 30.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 12.00
4.	Number of Bedrooms	3		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1963 ft²		c. N/A	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 214.9 ft²		a. Electric Heat Pump	Cap: 30.0 kBtu/hr
	b. SHGC:				HSPF: 7.60
	(or Clear or Tint DEFAULT) 7b.	(Clear) 214.9 ft²		b. N/A	
8.	Floor types				
	a. Raised Wood, Stem Wall	R=30.0, 1963.0ft²		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1421.1 ft²			EF: 0.93
	b. N/A			b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 2011.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Outdoors	Sup. R=6.0, 130.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.