p.2

Water Wells Pumps & Service Phone: (386) 752-6677 Fax: (386) 752-1477

Lynch Well Drilling, Inc.

173 SW Young Place Lake City, FL 32025 www.lynchwelldrilling.com

November 6, 2007

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the above-referenced well:

Size of Pump Motor:

1 Horse Power

Size of Pressure Tank:

81-Gallon Bladder Tank

Cycle Stop Valve Used:

No

Should you require any additional information, please contact us.

Sincerely,

Linda Newcomb

Lynch Well Drilling, Inc.

Linda Newcomb

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: Address: City, State:	Suwannee Model Rev Lake City, FL	Builder: P. Geibeig Permitting Office: Columbia Permit Number: 26516
Owner:	• ,	Jurisdiction Number: 221000
Climate Zone:	North	
 New construction Single family or n Number of units, i Number of Bedroo Is this a worst case 	nulti-family f multi-family oms a e? Single family 1 2 Single family 1 Yes	12. Cooling systems a. Central Unit Cap: 32.0 kBtu/hr SEER: 13.00 b. N/A
a. U-factor:	rea: (Label reqd. by 13-104.4.5 if not default) Description Area ble DEFAULT) 7a. (Dble Default) 132.0 ft² DEFAULT) 7b. (Clear) 132.0 ft² ge Insulation R=0.0, 234.0(p) ft erior R=13.0, 1369.6 ft² R=30.0, 1561.0 ft²	c. N/A 13. Heating systems a. Electric Heat Pump/Split b. N/A c. N/A 14. Hot water systems a. Electric Resistance 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	s/Floor Area: 0.08 Total as-built p	
this calculation are in Code. PREPARED BY: DATE: \ \ \ \ \ \ \ \ \ \ \ \ \	ne plans and specifications covered by compliance with the Florida Energy Club Motor 29 0 7 nis building, as designed, is in compliance gy Code.	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:

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

BASE		AS-BI	UILT			
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area		verhang nt Len Ho	gt Area X	SPM X	SOF	= Points
.18 1561.0 18.59 5223.0	1.Double, Clear	N 1.0	6.0 5.0	19.20	0.98	93.0
	2.Double, Clear	E 1.0	60.0	42.06	0.97	2447.0
	3.Double, Clear		5.0 15.0	42.06	0.97	611.0
			6.0 48.0	38.52	0.97	1794.0
	5.Double, Clear	W 1.0 6	5.0 4.0	38.52	0.97	149.0
	As-Built Total:		132.0			5094.0
WALL TYPES Area X BSPM = Points	Туре	R-Val	ue Area	X SPI	VI =	Points
Adjacent 0.0 0.00 0.0 Exterior 1369.6 1.70 2328.3	1. Frame, Wood, Exterior	13.0	1369.6	1.50		2054.4
Base Total: 1369.6 2328.3	As-Built Total:		1369.6			2054.4
DOOR TYPES Area X BSPM = Points	Туре		Area	X SPI	VI =	Points
Adjacent 0.0 0.00 0.0	1.Exterior Insulated		39.6	4.10		162.4
Exterior 59.4 6.10 362.3	2.Exterior Insulated		19.8	4.10		81.2
Base Total: 59.4 362.3	As-Built Total:		59.4			243.5
CEILING TYPES Area X BSPM = Points	Туре	R-Value	Area X S	SPM X S	CM =	Points
Under Attic 1561.0 1.73 2700.5	1. Under Attic	30.0	1561.0 1	.73 X 1.00		2700.5
Base Total: 1561.0 2700.5	As-Built Total:		1561.0			2700.5
FLOOR TYPES Area X BSPM = Points	Туре	R-Vali	ue Area	X SPN	/l =	Points
Slab 234.0(p) -37.0 -8658.0	1. Slab-On-Grade Edge Insulation	0.0	234.0(p	-41.20		-9640.8
Raised 0.0 0.00 0.0	-					
Base Total: -8658.0	As-Built Total:	<u>.</u>	234.0			-9640.8
INFILTRATION Area X BSPM = Points			Area	X SPN	/I =	Points
1561.0 10.21 15937.8			1561.0	10.21		15937.8

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT		
Summer Ba	se Points: 1	7894.0	Summer As-Built Points:	16389.5	
Total Summer Points	X System = Multiplier	Cooling Points	Total X Cap X Duct X System X Credit Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	= Cooling Points	
17894.0	0.3250	5815.5	(sys 1: Central Unit 32000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(II 16389 1.00 (1.00 x 1.147 x 0.91) 0.260 0.902 16389.5 1.00 1.044 0.260 0.902	4014.1 4014.1	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

BASE	AS-BUILT
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area	Overhang Type/SC Ornt Len Hgt Area X WPM X WOF = Poir
.18 1561.0 20.17 5667.0	1.Double, Clear N 1.0 6.0 5.0 24.58 1.00 122 2.Double, Clear E 1.0 6.0 60.0 18.79 1.02 1145 3.Double, Clear E 1.0 6.0 15.0 18.79 1.02 286 4.Double, Clear W 1.0 6.0 48.0 20.73 1.01 1002 5.Double, Clear W 1.0 6.0 4.0 20.73 1.01 83 As-Built Total:
WALL TYPES Area X BWPM = Points	Type R-Value Area X WPM = Points
Adjacent 0.0 0.00 0.0 Exterior 1369.6 3.70 5067.5	1. Frame, Wood, Exterior 13.0 1369.6 3.40 4656.
Base Total: 1369.6 5067.5	As-Built Total: 1369.6 4656.
DOOR TYPES Area X BWPM = Points	Type Area X WPM = Points
Adjacent 0.0 0.00 0.0 Exterior 59.4 12.30 730.6	1.Exterior Insulated 39.6 8.40 332. 2.Exterior Insulated 19.8 8.40 166.
Base Total: 59.4 730.6	As-Built Total: 59.4 499.
CEILING TYPES Area X BWPM = Points	Type R-Value Area X WPM X WCM = Points
Under Attic 1561.0 2.05 3200.0	1. Under Attic 30.0 1561.0 2.05 X 1.00 3200.
Base Total: 1561.0 3200.0	As-Built Total: 1561.0 3200.
FLOOR TYPES Area X BWPM = Points	Type R-Value Area X WPM = Points
Slab 234.0(p) 8.9 2082.6 Raised 0.0 0.00 0.0	1. Slab-On-Grade Edge Insulation 0.0 234.0(p 18.80 4399.
Base Total: 2082.6	As-Built Total: 234.0 4399.
INFILTRATION Area X BWPM = Points	Area X WPM = Points
1561.0 -0.59 -921.0	1561.0 -0.59 -921.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT
Winter Base	Points:	15826.8	Winter As-Built Points: 14471.9
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)
15826.8	0.5540	8768.0	(sys 1: Electric Heat Pump 32000 btuh ,EFF(8.5) Ducts:Con(S),Con(R),Int(AH),R6.0 14471.9 1.000 (1.000 x 1.169 x 0.93) 0.401 0.950 5996.3 14471.9 1.00 1.087 0.401 0.950 5996.3

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , Lake City, FL, PERMIT #:

BASE					AS-BUILT							
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	Х	Tank X Ratio	Multiplier	X Credit Multiplie	
3		2635.00		7905.0	20.0	0.94	3		1.00	2578.94	1.00	7736.8
					As-Built To	otal:						7736.8

	CODE COMPLIANCE STATUS												
	BASE									AS	-BUILT		
Cooling Points		eating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
5816	8	8768		7905		22489	4014		5996		7737		17747

PASS



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 88.3

The higher the score, the more efficient the home.

, , Lake City, FL,

1.	New construction or existing	New		12. Cooling systems		
2.	Single family or multi-family	Single family	_	a. Central Unit	Cap: 32.0 kBtu/hr	
3.	Number of units, if multi-family	1			SEER: 13.00	
4.	Number of Bedrooms	3		b. N/A		
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (fl2)	1561 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) 132.0 ft ²		a. Electric Heat Pump/Split	Cap: 32.0 kBtu/hr	
Ъ.	SHGC:	,	955 ct=1		HSPF: 8.50	
	(or Clear or Tint DEFAULT)	7b. (Clear) 132.0 ft ²	_	b. N/A		
8.	Floor types	()				-
a.	Slab-On-Grade Edge Insulation	R=0.0, 234.0(p) ft	_	c. N/A		_
b.	N/A	•				
c.	N/A		20104	14. Hot water systems		-
9.	Wall types			a. Electric Resistance	Cap: 20.0 gallons	
a.	Frame, Wood, Exterior	R=13.0, 1369.6 ft ²	_		EF: 0.94	
b.	N/A		_	b. N/A		00000
c.	N/A					
d.	N/A		_	c. Conservation credits		D-20000
e.	N/A			(HR-Heat recovery, Solar		
10.	Ceiling types			DHP-Dedicated heat pump)		
a.	Under Attic	R=30.0, 1561.0 ft ²	_	15. HVAC credits	PT, CF,	
b.	N/A			(CF-Ceiling fan, CV-Cross ventilation,		
C.	N/A			HF-Whole house fan,		
11.	Ducts			PT-Programmable Thermostat,		
a.	Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 58.0 ft	_	MZ-C-Multizone cooling,		
b.	N/A	•		MZ-H-Multizone heating)		
				_		
	tify that this home has complie				THE STA	
	struction through the above end				NO TE	Ø.
in th	is home before final inspection	. Otherwise, a new EPL 1	Displa	y Card will be completed		18
base	ed on installed Code compliant	features.			12	鼠
Buil	der Signature:		Date	:		F
	0.53445				I'L LEST	
A .3.3			0''	7. 7	The state of the s	
Ada	ress of New Home:		CITY/	FL Zip:	GOD WE TRUS	

*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. EnergyGauge® (Version: FLRCPB v4.5.2)

BUILDING INPUT SUMMARY REPORT

PROJECT	A STORE AT THE STO	Title: Owner: # of Units: Builder Name: Climate: Permit Office: Jurisdiction #:	North (blank)	Model Rev		Family New/Ex Bedroo Conditi Total St Worst C	isting ms: oned / tories: Case:	Area:	Single New 3 1561 1 Yes 0	Lo Si PI St Co	ddress Type: ot #: ubdivision: atbook: reet: ounty: ty, St, Zip:	Street Addres N/A N/A N/A (blank) Columbia Lake City, FL	
FLOORS	# 1				Area/Peri 234.0(p) fi	meter Uni		DOORS	# Do	oor Type sulated sulated	Orientation Exterior Exterior	Area 39.6 ft ² 19.8 ft ²	Units
CEILINGS	# 1 Cr	Ceiling Type Under Attic	one	R-Val Are 30.0 156	ea E	Sase Area 561.0 ft²	Units 1	COOLING	# System 1 Central U Credit Mult	nit	il Fn, PT	Efficiency SEER: 13.00	Capacity 0 32.0 kBtu/hr
WALLS	1	Wall Type Frame - Wood		Location Exterior	R-Vai 13.0	Area l 1369.6 ft²	Units 1	HEATING	# System 1 Electric H Credit Multi	n Type eat Pump/Sp		Efficiency HSPF: 8.50	Capacity 32.0 kBtu/hr
	# 1 2 3 4 5	Panes Tint Double Clear Double Clear Double Clear Double Clear Double Clear Clear	Ornt N E E W W	Area OH 5.0 ft ² 30.0 ft ² 15.0 ft ² 24.0 ft ² 4.0 ft ²	Length 1.0 ft 1.0 ft 1.0 ft 1.0 ft 1.0 ft	OH Hght 6.0 ft 6.0 ft 6.0 ft 6.0 ft 6.0 ft	Units 1 2 1 2 1 2	DUCTS	# Supply Location 1 Cond. Credit Mult	Cond.	Interior	Supply R-Val 6.0	Supply Length 58.0 ft
S								WATER		Type Resistance Default?	EF Cap. 0.94 20.0 Annual Operat	Conservation None	0.00
WINDOW								REFR.	1 Yes		N/A	N/A	
MISC	,	Rater Name: Rater Certificatio Area Under Fluor Area Under Incan NOTE: Not all Rat	n#: C rescent: 0 idescent: 1		O Due Vis Lea HR	V/ERV Sys	Disco uct Sys stem F	nnect: stem F Preser	s: Proposed:	No	! !	Pool Size: 0 Pump Size: 0 Dryer Type: E Stove Type: E Avg Ceil Hgt:	.00 hp lectric

EnergyGauge® (Version: FLRCPB v4.5.2)

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lake City El	DEDMIT #
ADDRESS: , Lake City, FL,	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 cir	
		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.	

Columbia County Building Department Culvert Permit

Culvert Permit No.

000001498

DATE $\frac{12/17}{12}$	7/2007	PARCEL ID#	11-4S-16-02911-303	
APPLICANT	TRENT GIEBEIG		PHONE 39	97-0545
ADDRESS 6	97 SE HOLLY TERR		LAKE CITY	FL 32055
OWNER LSJ	PROPERTIES		PHONE 75	2-2874
ADDRESS 14	3 SW VAN COURT		LAKE CITY	FL 32024
CONTRACTOR	TRENT GIEBEIG		PHONE 39	7-0545
LOCATION OF	PROPERTY 2478,	ΓR ON MAYFAIR L	ANE, TR ON VAN COURT, 2N	D ON RIGHT
1 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
UBDIVISION/	LOT/BLOCK/PHASE	ZUNIT MAYFAII	₹	3
	Tit 6		7	
IGNATURE -	JA T	yrez	/	
	INSTALLATION R	REQUIREMENT	<u>'S</u>	
X	Culvert size will be 18 driving surface. Both thick reinforced concr	ends will be miter	er with a total lenght of 32 fo ed 4 foot with a 4 : 1 slope a	eet, leaving 24 feet of and poured with a 4 inch
	a) a majority of theb) the driveway to bTurnouts shall be	current and existing se served will be pure concrete or pave didriveway, whiche	pe required as follows: ang driveway turnouts are pa aved or formed with concre d a minimum of 12 feet wid ever is greater. The width sh eted turnouts.	te. e or the width of the
	Culvert installation sl	hall conform to th	e approved site plan standa	ards.
	Department of Transp	portation Permit i	nstallation approved standa	ards.
	Other			·
II DDODED CAL	FETY REQUIREMENTS	CHOULD BE FOLL	OWED	

DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21 Lake City, FL 32055

Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



Summary Energy Code Results

Residential Whole Building Performance Method A

Project Title: Suwannee Model Rev Code Only Professional Version Climate: North

Lake City, FL

11/28/2007

Building Loads						
В	Base As-Built					
Summer:	17894 points	Summer:	16389 points			
Winter:	15827 points	Winter:	14472 points			
Hot Water:	7273 points	Hot Water:	7273 points			
Total:	40993 points	Total:	38134 points			

Energy Use						
E	Base As-Built					
Cooling:	5816 points	Cooling:	4014 points			
Heating:	8768 points	Heating:	5996 points			
Hot Water:	7905 points	Hot Water:	7737 points			
Total:	22489 points	Total:	17747 points			

PASS e-Ratio: 0.79

EnergyGauge®(Version: FLRCPB v4.5)

Residential System Sizing Calculation

Summary Project Title:

Project Title: Suwannee Model Rev Code Only Professional Version Climate: North

Lake City, FL

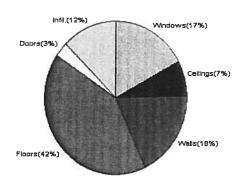
11/28/2007

				1 1120120	<u> </u>	
Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)						
Humidity data: Interior RH (50%) Outdoor	wet bulb (7	7F) 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	24607	Btuh	Total cooling load calculation	17743	Btuh	
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh	
Total (Electric Heat Pump)	130.0	32000	Sensible (SHR = 0.75)	150.2	24000	
Heat Pump + Auxiliary(0.0kW)	130.0	32000	Latent	452.2	8000	
			Total (Electric Heat Pump)	180.4	32000	

WINTER CALCULATIONS

Winter Heating Load (for 1561 sqft)

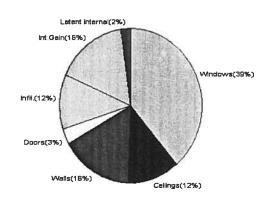
Load component			Load	
Window total	132	sqft	4249	Btuh
Wall total	1370	sqft	4498	Btuh
Door total	59	sqft	769	Btuh
Ceiling total	1561	sqft	1839	Btuh
Floor total	234	sqft	10216	Btuh
Infiltration	75	cfm	3035	Btuh
Duct loss			0	Btuh
Subtotal			24607	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			24607	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1561 sqft)

Load component			Load	
Window total	132	sqft	6890	Btuh
Wall total	1370	sqft	2857	Btuh
Door total	59	sqft	582	Btuh
Ceiling total	1561	sqft	2088	Btuh
Floor total			0	Btuh
Infiltration	37	cfm	697	Btuh
Internal gain			2860	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			15974	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			1369	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occup	400	Btuh		
Total latent gain	1769	Btuh		
TOTAL HEAT GAIN			17743	Btuh



Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Welluid Wotes
DATE: 11-29-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title: Suwannee Model Rev Code Only Professional Version Climate: North

Lake City, FL

11/28/2007

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F This calculation is for Worst Case. The house has been rotated 180 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
44111GOW	2, Clear, Metal, 0.87	S	5.0	32.2	161 Btuh
2	2, Clear, Metal, 0.87	W	60.0	32.2	1931 Btuh
3	1 ' '		15.0	32.2	
	2, Clear, Metal, 0.87	W			483 Btuh
4	2, Clear, Metal, 0.87	E E	48.0	32.2	1545 Btuh
5	2, Clear, Metal, 0.87	E	4.0	32.2	129 Btuh
187-11-	Window Total	D. Velice	132(sqft)	1170	4249 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1370	3.3	4498 Btuh
	Wall Total		1370		4498 Btuh
Doors	Туре		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	513 Btuh
2	Insulated - Exterior		20	12.9	256 Btuh
	Door Total		59		769Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shin	30.0	1561	1.2	1839 Btuh
	Ceiling Total		1561		1839Btuh
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	234.0 ft(p)	43.7	10216 Btuh
	Floor Total	,	234		10216 Btuh
			Envelope Su	ıbtotal:	21572 Btuh
Infiltration	Туре	ACH X Vol	ume(cuft) walls(sqf	t) CFM=	
	Natural	0.32	14049 1370	74.9	3035 Btuh
Ductload			(D	LM of 0.000)	0 Btuh
All Zones		Sen	sible Subtotal Al	I Zones	24607 Btuh

WHOLE HOU	SE TOTALS
-----------	-----------

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Suwannee Model Rev
Lake City, FL

Code Only Professional Version Climate: North

11/28/2007

EQUIPMENT

1. Electric Heat Pump/Split

#(Outside) #(Inside)

32000 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)



Version 8 For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details Project Title: Code C

Suwannee Model Rev

Professional Version Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F This calculation is for Worst Case. The house has been rotated 180 degrees.

11/28/2007

Component	Loads	for	Zone	#1:	Main
-----------	-------	-----	------	-----	------

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	S	5.0	32.2	161 Btuh
2	2, Clear, Metal, 0.87	W	60.0	32.2	1931 Btuh
3	2, Clear, Metal, 0.87	W	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	Ε	48.0	32.2	1545 Btuh
5	2, Clear, Metal, 0.87	Ε	4.0	32.2	129 Btuh
	Window Total		132(sqft)		4249 Btuh
Walis	Туре	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1370	3.3	4498 Btuh
	Wall Total		1370		4498 Btuh
Doors	Туре		Area X	HTM=	Load
1	Insulated - Exterior		40	12.9	513 Btuh
2	Insulated - Exterior		20	12.9	256 Btuh
	Door Total		59		769Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shin	30.0	1561	1.2	1839 Btuh
	Ceiling Total		1561		1839Btuh
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	234.0 ft(p)	43.7	10216 Btuh
	Floor Total		234		10216 Btuh
		Z	one Envelope Su	btotal:	21572 Btuh
Infiltration	Туре	ACH X Volu	ume(cuft) walls(sqft) CFM=	
	Natural	0.32	14049 1370	74.9	3035 Btuh
Ductload	Average sealed, Supply(R6.	0-Cond.), Reti	urn(R6.0-Cond)[DI	_M of 0.000)	0 Btuh
Zone #1		Sens	sible Zone Subto	tal	24607 Btuh

WHOLE HOUSE TOTALS		
	Subtotal Sensible Ventilation Sensible Total Btuh Loss	24607 Btuh 0 Btuh 24607 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title: Suwannee Model Rev Code Only Professional Version

Climate: North

11/28/2007

EQUIPMENT

Lake City, FL

1. Electric Heat Pump/Split

#(Outside) #(Inside)

32000 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)



Version 8 For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title: Suwannee Model Rev Code Only
Professional Version

Climate: North

Lake City, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

11/28/2007

This calculation is for Worst Case. The house has been rotated 180 degrees.

Component Loads for Whole House

	Type*		Over	hang	Win	dow Area	(sqft)	H	ITM	Load	
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross		Jnshaded	Shaded	Unshaded		
1	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	5.0	5.0	0.0	19	23	93	Btuh
2	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	60.0	0.0	60.0	19	55	3326	Btuh
3	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	15.0	0.0	15.0	19	55	832	Btuh
4	2, Clear, 0.87, B-D, N,F	Ε	1ft.	6ft.	48.0	6.6	41.4	19	55		Btuh
5	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	4.0	0.0	4.0	19	55	222	Btuh
	Window Total				132 (sqft)				6890	Btuh
Walls	Туре		R-Va	alue/U	I-Value	Area(sqft)		HTM	Load	
1	Frame - Wood - Ext			13.0/	0.09	1369	9.6		2.1	2857	Btuh
	Wall Total					137	0 (sqft)			2857	Btuh
Doors	Туре					Area (НТМ	Load	
1	Insulated - Exterior					39.			9.8	388	Btuh
2	Insulated - Exterior					19.	8		9.8	194	Btuh
	Door Total				59 (sqft)					582	Btuh
Ceilings	Type/Color/Surface	R-Value Area(s			7.CE	НТМ	Load				
1	Vented Attic/Light/Shingle			30.0	•				1.3	2088	Btuh
	Ceiling Total				1561 (sqft)					2088	Btuh
Floors	Туре		R-Va	lue		Siz			НТМ	Load	A-10.35
1	Slab On Grade			0.0		23	4 (ft(p))		0.0	0	Btuh
	Floor Total) (sqft)			0	Btuh
						En	velope (Subtotal	:	12417	Btuh
Infiltration	Туре		^	CH	Value	-/-· (1) ··	محجم المد	(==£\)	OEM-		
IIIIIIII aliOII	SensibleNatural		^	0.16	Volulli	e(cuft) w 14049	7an area 1370	(Sqit)	CFM= 74.9	Load 697	Btuh
Internal	Geriaidiervaturai		Occup			Btuh/oc			Appliance	Load	Diun
		•	Judap				•				DALLE
gain				2		X 230) +		2400	2860	Btuh
						Se	nsible E	nvelope	Load:	15974	Btuh
Duct load							(DGN	of 0.0	00)	0	Btuh
						Sen	sible Lo	ad All a	Zones	15974	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
Suwannee Model Rev
Lake City, FL

Professional Version
Climate: North

11/28/2007

WHOLE HOUSE TOTALS

		·	
	Sensible Envelope Load All Zones	15974	Btuh
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	15974	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	15974	Btuh
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	1369	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400	Btuh
	Latent other gain	0	Btuh
	Latent total gain	1769	Btuh
	TOTAL GAIN	17743	Btuh

EQUIPMENT		
1. Central Unit	#	32000 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)



Version 8 For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Project Title: Suwannee Model Rev

Code Only
Professional Version

Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F This calculation is for Worst Case. The house has been rotated 180 degrees.

11/28/2007

Component Loads for Zone #1: Main

	Type*		Over	hang	Win	dow Area	a(sqft)	Н	łТМ	Load	
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hat	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, B-D, N,F	S	1ft.	6ft.	5.0	5.0	0.0	19	23	93	Btuh
2	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	60.0	0.0	60.0	19	55	3326	
3	2, Clear, 0.87, B-D, N,F	W	1ft.	6ft.	15.0	0.0	15.0	19	55		Btuh
4	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	48.0	6.6	41.4	19	55	2417	
5	2, Clear, 0.87, B-D, N,F	E	1ft.	6ft.	4.0	0.0	4.0	19	55		Btuh
	Window Total				132 (sqft)				6890	Btuh
Walls	Type		R-Va	alue/U	l-Value	Area	(sqft)		HTM	Load	
1	Frame - Wood - Ext			13.0/	0.09	136	9.6		2.1	2857	Btuh
	Wall Total					137	0 (sqft)		1	2857	Btuh
Doors	Туре					Area	(sqft)		HTM	Load	
1	Insulated - Exterior					39	.6		9.8	388	Btuh
2	Insulated - Exterior					19	.8		9.8	194	Btuh
	Door Total					5	9 (sqft)			582	Btuh
Ceilings	Type/Color/Surface		R-Va	alue		Area((sqft)		HTM	Load	
1	Vented Attic/Light/Shingle			30.0		156	1.0		1.3	2088	Btuh
	Ceiling Total					156	1 (sqft)			2088	Btuh
Floors	Туре		R-Va	alue		Siz			HTM	Load	
1	Slab On Grade			0.0		23	4 (ft(p))		0.0	0	Btuh
	Floor Total					234.	0 (sqft)			0	Btuh
						Zo	ne Enve	elope Su	ıbtotal:	12417	Btuh
Infiltration	Туре		Α	CH	Volum	e(cuft) v	vall area	a(sqft)	CFM=	Load	1.5
	SensibleNatural			0.16		14049	1370	` ' '	37.5	697	Btuh
Internal		(Occup	ants		Btuh/oc	cupant		Appliance	Load	
gain				2		X 23			2400	2860	Btuh
						Se	ensible E	Envelope	Load:	15974	Btuh
Duct load	Average sealed, Supply	(R6.0-0	Cond.), Ret	urn(R6.	0-Cond)	(DGM c	of 0.000)	0	Btuh
							Sensib	ole Zone	Load	15974	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
Suwannee Model Rev
Lake City, FL

Professional Version
Climate: North

11/28/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones Sensible Duct Load	15974		
	Total Sensible Zone Loads	15974	Btuh	
	Sensible ventilation	0	Btuh	
	Blower	0	Btuh	
Whole House	Total sensible gain	15974	Btuh	
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	1369	Btuh	
	Latent ventilation gain	0	Btuh	
	Latent duct gain	0	Btuh	
	Latent occupant gain (2 people @ 200 Btuh per person)	400	Btuh	
	Latent other gain	0	Btuh	
	Latent total gain	1769	Btuh	
	TOTAL GAIN	17743	Btuh	

EQUIPMENT		
1. Central Unit	#	32000 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))

(Do - Insect scieeti. Hotle(N), Full(F) of I

(Ornt - compass orientation)



Version 8 For Florida residences only

Residential Window Diversity

MidSummer

Project Title: Suwannee Model Rev

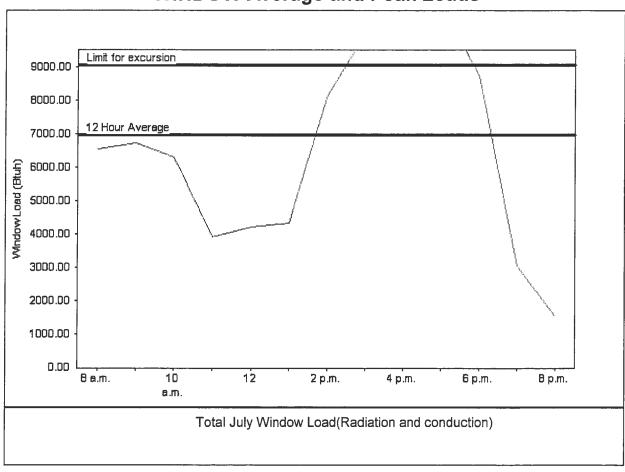
Code Only Professional Version Climate: North

11/28/2007

Lake City, FL

Weather data for: Gainesville - Def	aults		
Summer design temperature	92 F	Average window load for July	6987 Btuh
Summer setpoint	75 F	Peak window load for July	10930 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	9083 Btuh
Latitude	29 North	Window excursion (July)	1847 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only PREPARED BY: Welling Motor

DATE: 11-29-07

EnergyGauge® FLRCPB v4.5.2





Project Information for:

L262515

Builder:

GIEBEIG HOMES

Lot:

.

Subdivision:

MAYFAIR COLUMBIA

County:

25

Truss Count: Design Program Building Code:

Design Program: MiTek 20/20 6.3

Building Code: FBC2004/TPI2002 **Truss Design Load Information:**

Gravity:

Wind

Roof (psf): 42.0

Wind Standard: ASCE 7-02

Wind Exposure: B

Floor (psf): N/A

Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:

Brian T. Giebeig Florida Registered Residential Contractor License No. RR282811523

Address: Trent Giebeig Construction, Inc. 462 Southwest Fairlington Court Lake City, Florida 32025

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

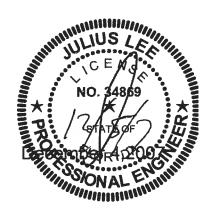
Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2

2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.

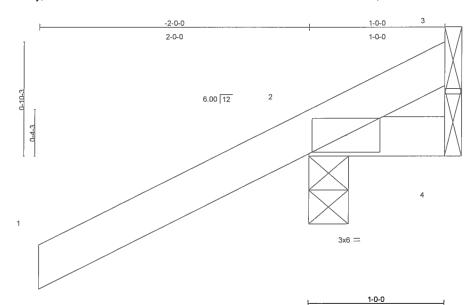
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1914805	CJ1	12/4/07
2	J1914806	CJ3	12/4/07
3	J1914807	CJ5	12/4/07
4	J1914808	EJ7	12/4/07
5	J1914809	HJ9	12/4/07
6	J1914810	T01	12/4/07
7	J1914811	T01G	12/4/07
8	J1914812	T02	12/4/07
9	J1914813	T02G	12/4/07
10	J1914814	T03	12/4/07
11	J1914815	T04	12/4/07
12	J1914816	T05	12/4/07
13	J1914817	T06	12/4/07
14	J1914818	T07	12/4/07
15	J1914819	T08	12/4/07
16	J1914820	T09	12/4/07
17	J1914821	T10	12/4/07
18	J1914822	T11	12/4/07
19	J1914823	T12	12/4/07
20	J1914824	T13	12/4/07
21	J1914825	T14	12/4/07
22	J1914826	T15	12/4/07
23	J1914827	T16	12/4/07
24	J1914828	T17	12/4/07
25	J1914829	T18	12/4/07



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	
1200545	0.14	IACK	10			J1914805
L262515	CJ1	JACK	10	1	Job Reference (optional)	

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Dec 04 09:26:00 2007 Page 1



1-0-0 LOADING (psf) **SPACING** 2-0-0 CSI **DEFL** (loc) I/defl L/d **PLATES GRIP** in 244/190 20.0 0.28 360 MT20 TCLL Plates Increase 1.25 TC Vert(LL) -0.00 2 >999 TCDL 7.0 Lumber Increase 1.25 BC 0.01 Vert(TL) -0.00 2 >999 240 0.00 **BCLL** 10.0 Rep Stress Incr YES WB Horz(TL) 0.00 3 n/a n/a **BCDL** 5.0 Code FBC2004/TPI2002 (Matrix) Weight: 7 lb

LUMBER

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

TOP CHORD

Structural wood sheathing directly applied or

1-0-0 oc purlins.

BOT CHORD

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

REACTIONS (lb/size) 2=256/0-3-8, 4=5/Mechanical, 3=-90/Mechanical

Max Horz 2=87(load case 6)

Max Uplift 2=-286(load case 6), 4=-9(load case 4), 3=-90(load case 1) Max Grav 2=256(load case 1), 4=14(load case 2), 3=127(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-69/75

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.14

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 Ib uplift at joint 2, 9 lb uplift at joint 4 and 90 lb uplift at joint 3. Continued on page 2

December 4,2007

Scale: 1.5"=1"

🛕 Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connector Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	J1914805
L262515	CJ1	JACK	10	1		31314003
					Job Reference (optional)	

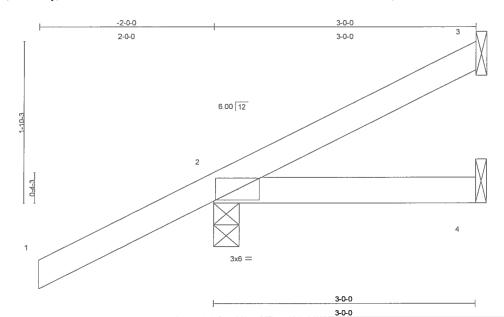
6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Dec 04 09:26:01 2007 Page 2

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	
	0.10		4.0			J1914806
L262515	CJ3	JACK	10	1	Job Reference (optional)	

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Dec 04 09:26:01 2007 Page 1



LOADING (psf) **SPACING** 2-0-0 CSI **DEFL** I/defl L/d **PLATES GRIP** in (loc) **TCLL** 20.0 Plates Increase 1.25 TC 0.29 Vert(LL) 0.01 2-4 >999 360 MT20 244/190 BC >999 TCDL 0.08 Vert(TL) -0.01 240 7.0 Lumber Increase 1.25 WB 0.00 **BCLL** 10.0 Rep Stress Incr YES Horz(TL) -0.003 n/a n/a Weight: 13 lb **BCDL** Code FBC2004/TPI2002 (Matrix)

LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or

3-0-0 oc purlins.

BOT CHORD

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

REACTIONS (lb/size) 3=31/Mechanical, 2=250/0-3-8, 4=14/Mechanical

Max Horz 2=132(load case 6)

Max Uplift 3=-28(load case 7), 2=-238(load case 6), 4=-27(load case 4) Max Grav 3=31(load case 1), 2=250(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-57/7

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.13

NOTES

- Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3, 238 lb uplift at joint 2 and 27 lb uplift at joint 4. Continued on page 2

Jackinson Lower Propress (Lower) come (Limicales Sen Place india Primi Police 제 Pression Litros Cheromated Ptop (Place) 보다 Cyfricott 11 등 조리하는 또 도 기술을 기록

December 4,2007

Scale = 1:12.5

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors
Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent practing, is the
responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection
and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center,
6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 O'Chofiro Drive, Madison, WI 53719.



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	
1000545	0.10	la Cir	10	_		J1914806
L262515	CJ3	JACK	10	1	Job Reference (optional)	

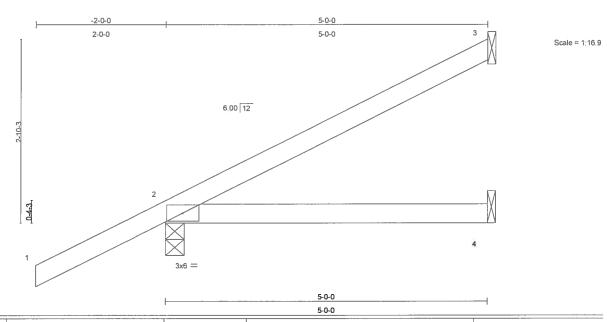
6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Dec 04 09:26:01 2007 Page 2

LOAD CASE(S) Standard



	Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	14044007		
ſ	L262515	CJ5	JACK	10	1		J1914807		
						Job Reference (optional)			
	D. 11-1 Ei	1 1 O'1 EL 000EE	C 200 - Feb 45 2000 MiTely ledystries Inc. Typ Dog 04 00:26:02 2007 F						

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Dec 04 09:26:02 2007 Page 1



TCDL	(psf) 20.0 7.0 10.0	SPACING Plates Increase Lumber Increase * Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI TC BC WB	0.29 0.24 0.00	DEFL Vert(LL) Vert(TL) Horz(TL)	in 0.09 -0.05 -0.00	(loc) 2-4 2-4 3	l/defl >663 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL			(Mat	rix)	, ,					Weight: 19 lb		

LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or

5-0-0 oc purlins.

BOT CHORD

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

REACTIONS (lb/size) 3=103/Mechanical, 2=295/0-3-8, 4=24/Mechanical

Max Horz 2=178(load case 6)

Max Uplift 3=-87(load case 6), 2=-260(load case 6), 4=-46(load case 4) Max Grav 3=103(load case 1), 2=295(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-88/36

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.14

NOTES

- Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 260 lb uplift at joint 2 and 46 lb uplift at joint 4. Continued on page 2

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Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

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Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	
L262515	CJ5	JACK	10	1		J1914807
L202515	CJ5	JACK	10	'	Job Reference (optional)	

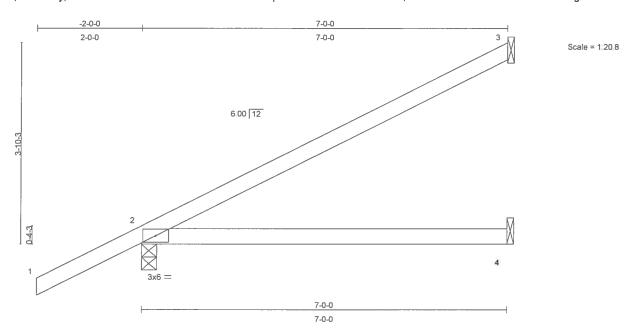
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LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	HOME BY HOUSECRAFT - MOAKE RES.
	:				J1914808
L262515	EJ7	JACK	20	1	
			İ		Job Reference (optional)

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LOADIN	IG (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0		Plates Increase	1.25	TC	0.50	Vert(LL)	0.33	2-4	>250	360	MT20	244/190
TCDL	7.0		Lumber Increase	1.25	BC	0.45	Vert(TL)	-0.16	2-4	>501	240		
BCLL	10.0	*	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	BCDL 5.0 Code FBC2004/TPI2002		(Matı	rix)						Weight: 26 lb			

LUMBER

TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or 6-0-0

oc purlins.

BOT CHORD

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

REACTIONS (lb/size) 3=154/Mechanical, 2=352/0-3-8, 4=45/Mechanical

Max Horz 2=161(load case 6)

Max Uplift 3=-94(load case 6), 2=-224(load case 6), 4=-65(load case 5) Max Grav 3=154(load case 1), 2=352(load case 1), 4=94(load case 2)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-131/54

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.58

NOTES

 Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HOME BY HOUSECRAFT - MOAKE RES.
			-		J1914808
L262515	EJ7	JACK	20	1	
					Job Reference (optional)

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NOTES

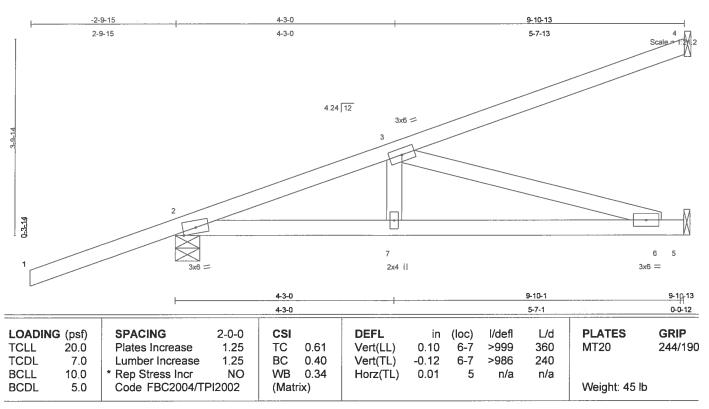
- 2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 3, 224 lb uplift at joint 2 and 65 lb uplift at joint 4.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	
· ·			_			J1914809
L262515	HJ9	MONO TRUSS	5	1	Job Reference (optional)	

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LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS

2 X 4 SYP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 7-11-9 oc

bracing.

REACTIONS (lb/size) 4=268/Mechanical, 2=456/0-5-11, 5=218/Mechanical

Max Horz 2=269(load case 3)

Max Uplift 4=-233(load case 3), 2=-401(load case 3), 5=-181(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/50, 2-3=-647/363, 3-4=-105/65 **BOT CHORD** 2-7=-535/599, 6-7=-535/599, 5-6=0/0

3-7=-94/190, 3-6=-624/557 WEBS

JOINT STRESS INDEX

2 = 0.77, 3 = 0.22, 6 = 0.17 and 7 = 0.13

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 4, 401 lb uplift at joint 2 and 181 lb uplift at joint 5.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	GIEBEIG HOMES - LOT 3 MAYFAIR	
1						J1914809
L262515	HJ9	MONO TRUSS	5	1		
					Job Reference (optional)	

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NOTES

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

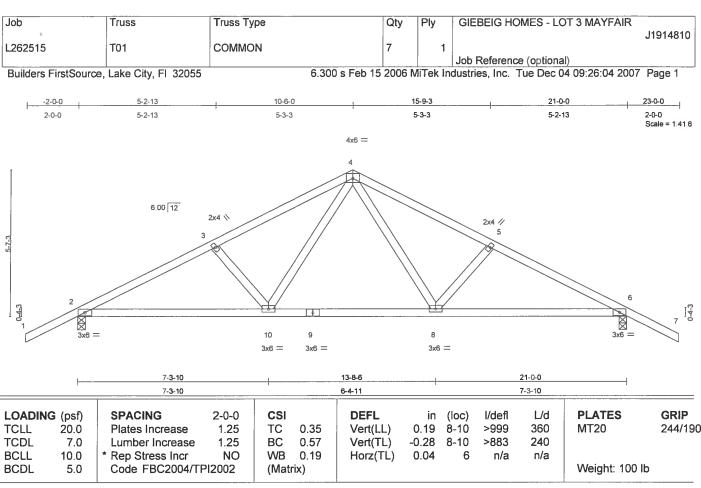
Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-3(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=-0(F=5, B=5)-to-5=-25(F=-7, B=-7)





LUMBER BRACING

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3 TOP CHORD

Structural wood sheathing directly applied or

4-11-3 oc purlins.

Rigid ceiling directly applied or 8-0-10 oc **BOT CHORD**

bracing.

REACTIONS (lb/size) 2=970/0-3-8, 6=970/0-3-8

Max Horz 2=-98(load case 7)

Max Uplift 2=-293(load case 6), 6=-293(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-1575/850, 3-4=-1404/823, 4-5=-1404/823, 5-6=-1575/850, 6-7=0/47

BOT CHORD 2-10=-591/1338, 9-10=-308/932, 8-9=-308/932, 6-8=-591/1338 **WEBS** 3-10=-232/216, 4-10=-280/536, 4-8=-280/536, 5-8=-232/216

JOINT STRESS INDEX

2 = 0.68, 3 = 0.33, 4 = 0.63, 5 = 0.33, 6 = 0.68, 8 = 0.42, 9 = 0.57 and 10 = 0.42

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 Ib uplift at joint 2 and 293 lb uplift at joint 6. Continued on page 2

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