

B

Type

13

Docs

2

Plans

BLD 06-5614

Building Permit Number (List all associated with these documents)

720

Street Number

BRITTA LN

Street Name

SR0

Community Code

035-251-025

APN

**COUNTY OF SONOMA**  
**PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**

2550 VENTURA AVENUE, SANTA ROSA, CA 95403-2829  
 (707) 565-1900 FAX (707) 565-1103

**Building Permit Invoice: BLD06-5614**

**Project Address:** 720 BRITAIN LN SRO  
**Cross Street:** SEBASTOPOL RD

**Printed:** Friday, January 12, 2007  
**Initialized by:** BDAVIS  
**Activity Type:** B-BLD 601

**APN:** 035-251-025

**Description:** 33.7% ADDN/REMODEL TIED TO PERMIT BLD06-5621  
**Res/Com:** R **Insp Area:** 04  
**Std/Quick:** Q **Site Review File #:**  
**Fire District:** ROSELAND FIRE GENERAL (S.R.) **Site Review Fees Paid:** \$0.00

**Owner:** KESKELA PONY C  
 720 BRITAIN LN  
 SANTA ROSA CA 95407-6752

**Applicant:** HOMEWORKS  
 PO BOX 840  
 FORESTVILLE CA  
 B HIC 95436-0840  
 707 823 2981

**Valuation:**

Occupancy	Type	Factor	Sq Feet	Valuation
Dwellings	DWEL-Type V - wd Frme	99.36	378	\$37,558.08
	Additional Amount...			10,000.00
	Totals...		378	\$47,558.08*

**Fees:**

Item#	Description	Account Code	Tot Fee	Prev. Pmts	Cur. Pmts
50	S.M.I.P. RESIDENTIAL	327023-4040	4.76	.00	.00
60	BLDG PERM PLAN CHECK FEE	025015-1341	741.57	741.57	.00
122	ELECTRICAL FEE	025015-1341	54.00	.00	.00
123	MECHANICAL FEE	025015-1341	54.00	.00	.00
124	PLUMBING FEE	025015-1341	54.00	.00	.00
132	BUILDING PERMIT FEE	025015-1341	907.65	.00	.00
140	TECH ENHANCEMENT FEE	025015-4040	19.84	8.24	.00
220	VIO. PENALTY FEE (BLDG)	025015-1600	4,950.91	.00	.00
221	VIO. INVEST. FEE (BLDG)	025015-4114	1,302.87	.00	.00
735	NPDES - BUILDING	025015-1341	90.77	.00	.00
1165	ZONING PERMITS W/O D.R.	025015-3829	82.00	82.00	.00

\$8,262.37      \$831.81

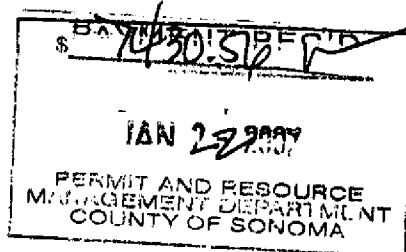
**Total Fees:** \$8,262.37

**Total Paid:** \$831.81

**Balance Due:** \$7,430.56

**Refunds** are regulated by the California Building Code (CBC) which reads: "Under Section 107.6, CBC, the building official may authorize refunding of not more than 80 percent of the plan review fee paid when an application is withdrawn or canceled before any plan reviewing is done. The building official may authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under the permit. There shall be no refunding of any fee paid except on written application filed by the original permittee not later than 180 days after the date of fee payment."

When validated below, this is your receipt.  
 This Building Permit shall EXPIRE



# TITLE 24 REPORT

## Title 24 Report for:

Pony Keskela  
720 Brittain Lane  
Santa Rosa, CA

## Project Designer:

Rick Rocklewitz  
2732 Village Side Drive  
Santa Rosa, CA 95405  
707-569-8425

## Report Prepared By:

Rick Rocklewitz  
NRG Compliance, Inc  
PO Box 3777  
Santa Rosa, Ca 95402  
(707) 237-6957

## Job Number:

09270601

## Date:

11/27/2006

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2005 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC - [www.energysoft.com](http://www.energysoft.com).

# TABLE OF CONTENTS

Cover Page	1
Table of Contents	2
Form CF-1R Certificate of Compliance	3
Form MF-1R Mandatory Measures Summary	6
HVAC System Heating and Cooling Loads Summary	8

# Certificate Of Compliance : Residential

(Part 1 of 3) **CF-1R**

**Pony Keskela**

11/27/2006

Project Title  
720 Brittain Lane Santa Rosa

Date
Building Permit #
Plan Check/Date
Field Check/Date

Project Address  
NRG Compliance, Inc. (707) 237-6957  
Documentation Author Telephone

Compliance Method  
EnergyPro 2  
Climate Zone

TDV (kBtu/sf-yr)	Standard Design	Proposed Design	Compliance Margin
Space Heating	48.61	47.17	1.44
Space Cooling	29.41	27.97	1.44
Fans	6.72	6.24	0.48
Domestic Hot Water	12.52	12.52	0.00
Pumps	0.00	0.00	0.00
<b>Totals</b>	<b>97.26</b>	<b>93.90</b>	<b>3.36</b>

Percent better than Standard: 3.5%

## BUILDING COMPLIES - NO HERS VERIFICATION REQUIRED

Building Type:	<input checked="" type="checkbox"/> Single Family	<input type="checkbox"/> Addition	Total Conditioned Floor Area:	1,982 ft <sup>2</sup>	
	<input type="checkbox"/> Multi Family	<input checked="" type="checkbox"/> Existing + Add/Alt	Existing Floor Area:	1,604 ft <sup>2</sup>	
Building Front Orientation:	(S) 180 deg		Raised Floor Area:	1,000 ft <sup>2</sup>	
Fuel Type:	Natural Gas		Slab on Grade Area:	982 ft <sup>2</sup>	
Fenestration:			Average Ceiling Height:	8.0 ft	
Area:	287 ft <sup>2</sup>	Avg. U:	0.52	Number of Dwelling Units:	1.00
Ratio:	14.5%	Avg. SHGC:	0.62	Number of Stories:	1

### BUILDING ZONE INFORMATION

Zone Name	Floor Area	Volume	# of Units	Zone Type	Thermostat Type	Vent Hgt.	Vent Area
New Heating System	378	3,024	0.19	Conditioned	Setback	2	n/a
Existing Heating System	1,604	12,836	0.81	Conditioned	Setback	2	n/a

### OPAQUE SURFACES

Type	Frame	Area	U-Fac.	Insulation Cav.	Act. Cont.	Azm.	Tilt	Gains Y/N	Condition Status	JA IV Reference	Location / Comments
Wall	Wood	112	0.074	R-19	R-0.0	180	90	X	New	09-A5	Addition
Wall	Wood	158	0.074	R-19	R-0.0	270	90	X	New	09-A5	Addition
Wall	Wood	100	0.074	R-19	R-0.0	0	90	X	New	09-A5	Addition
Roof	Wood	378	0.051	R-19	R-0.0	180	0	X	New	02-A5	Addition
Floor	Wood	1,000	0.099	None	R-0.0	0	180	X	Existing	20-A1	Existing
Wall	Wood	198	0.356	None	R-0.0	180	90	X	Existing	09-A1	Existing
Door	None	40	0.500	None	R-0.0	180	90	X	Existing	28-A4	Existing
Wall	Wood	106	0.356	None	R-0.0	270	90	X	Existing	09-A1	Existing
Wall	Wood	216	0.356	None	R-0.0	270	90	X	Removed	09-A1	Existing
Wall	Wood	272	0.356	None	R-0.0	0	90	X	Existing	09-A1	Existing
Door	None	18	0.500	None	R-0.0	0	90	X	Existing	28-A4	Existing
Wall	Wood	256	0.356	None	R-0.0	90	90	X	Existing	09-A1	Existing
Roof	Wood	1,604	0.079	R-11	R-0.0	180	0	X	Existing	01-A2	Existing

# Certificate Of Compliance : Residential

(Part 2 of 3) **CF-1R**

Pony Keskele

11/27/2006

Project Title

Date

## FENESTRATION SURFACES

#	Type	Area	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	True Azm.	Cond. Tilt	Stat. Glazing Type	Location/ Comments
1.	Window Left (W)	18.0	0.510 NFRC	0.61 NFRC	270	90 New	Dual Vinyl Default	Addition
2	Window Left (W)	40.0	0.580 116-A	0.65 116-B	270	90 New	Double Non Metal Clear	Addition
3	Window Rear (N)	12.0	0.510 NFRC	0.61 NFRC	0	90 New	Dual Vinyl Default	Addition
4	Window Front (S)	69.5	0.510 NFRC	0.61 NFRC	180	90 Existing	Dual Vinyl Default	Existing
5	Window Left (W)	24.0	0.510 NFRC	0.61 NFRC	270	90 Existing	Dual Vinyl Default	Existing
6	Window Rear (N)	18.0	0.510 NFRC	0.61 NFRC	0	90 Existing	Dual Vinyl Default	Existing
7	Window Right (E)	105.5	0.510 NFRC	0.61 NFRC	90	90 Existing	Dual Vinyl Default	Existing

1. Indicate source either from NFRC or Table 116A.

2. Indicate source either from NFRC or Table 116B.

## INTERIOR AND EXTERIOR SHADING

#	Exterior Shade Type	SHGC	Window		Overhang				Left Fin			Right Fin		
			Hgt.	Wd.	Len.	Hgt.	LExt.	RExt.	Dist.	Len.	Hgt.	Dist.	Len.	Hgt.
1	Bug Screen	0.76												
2	Bug Screen	0.76												
3	Bug Screen	0.76												
4	Bug Screen	0.76												
5	Bug Screen	0.76												
6	Bug Screen	0.76												
7	Bug Screen	0.76												

## THERMAL MASS FOR HIGH MASS DESIGN

Type	Area (sf)	Thick. (in.)	Heat Cap.	Inside Cond. R-Val.	JA IV Reference	Condition Status	Location/ Comments

## PERIMETER LOSSES

Type	Length	R-Val.	Insulation Location	JA IV Reference	Condition Status	Location/ Comments
Slab Perimeter	83	None	No Insulation	26-A1	New	Addition
Slab Perimeter	106	None	No Insulation	26-A1	Existing	Existing

Run Initiation Time: 11/27/06 13:57:33 Run Code: 1164864653

# Certificate Of Compliance : Residential

(Part 3 of 3) **CF-1R**

**Pony Keskela**

11/27/2006

Project Title

Date

## HVAC SYSTEMS

Location	Heating Type	Minimum Eff	Cooling Type	Minimum Eff	Condition Status	Thermostat Type
New Heating System	Electric	3.41 HSPF	No Cooling	13.0 SEER	New	Setback
Existing Heating System	Central Furnace	80% AFUE	No Cooling	13.0 SEER	Existing	Setback

## HVAC DISTRIBUTION

Location	Heating	Cooling	Duct Location	Duct R-Value	Condition Status	Ducts Tested?
New Heating System	Ductless / No Fan	Ductless	n/a	n/a	New	No
Existing Heating System	Ducted	Ducted	Outdoors	4.2	Existing	No

## Hydronic Piping

System Name	Pipe Length	Pipe Diameter	Insul. Thick.

## WATER HEATING SYSTEMS

System Name	Water Heater Type	Distribution	# in Syst.	Rated Input (Btu/hr)	Tank Cap. (gal)	Condition Status	Energy Factor or RE	Standby Loss (%)	Tank Insul. R-Value Ext.
Standard Gas 50 gal or Less	Small Gas	No Pipe Insulation	1	40,000	50	Existing	0.57	n/a	n/a

## Multi-Family Central Water Heating Details

Control	Hot Water Pump			Hot Water Piping Length (ft)			Add 1/2" Insulation
	#	HP	Type	In Plenum	Outside	Buried	

## REMARKS

## COMPLIANCE STATEMENT

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. The undersigned recognizes that compliance using duct design, duct sealing, verification of refrigerant charge and TXVs, insulation installation quality, and building envelope sealing require installer testing and certification and field verification by an approved HERS rater.

### Designer or Owner (per Business & Professions Code)

Name: \_\_\_\_\_  
 Title/Firm: Rick Rocklewitz  
 Address: 2732 Village Side Drive  
Santa Rosa, CA 95405  
 Telephone: 707-569-8423 Lic. #: \_\_\_\_\_  
 (signature) \_\_\_\_\_ (date) \_\_\_\_\_

### Documentation Author

Name: Rick Rocklewitz  
 Title/Firm: NRG Compliance, Inc  
 Address: PO Box 3777  
Santa Rosa, Ca 95402  
 Telephone: (707) 237-6957  
 (signature) \_\_\_\_\_ (date) 11/27/06

### Enforcement Agency

Name: \_\_\_\_\_  
 Title/Firm: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Telephone: \_\_\_\_\_

STAMP

(signature) \_\_\_\_\_ (date) \_\_\_\_\_

Run Initiation Time: 11/27/06 13:57:33 Run Code: 1164664853

**NOTE:** Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supercede the items marked with an asterisk (\*) below. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

DESCRIPTION	Check or Initial applicable boxes or check NA if not applicable and included with the permit application documentation.	N/A	DESIGNER	ENFORCEMENT
<b>Building Envelope Measures</b>				
* § 150(a):	Minimum R-19 in wood ceiling insulation or equivalent U-factor in metal frame ceiling.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
§ 150(b):	Loose fill insulation manufacturer's labeled R-Value: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* § 150(c):	Minimum R-13 wall insulation in wood framed walls or equivalent U-factor in metal frame walls (does not apply to exterior mass walls).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
* § 150(d):	Minimum R-13 raised floor insulation in framed floors or equivalent U-factor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§ 150(e):	Installation of Fireplaces, Decorative Gas Appliances and Gas Logs.			
	1. Masonry and factory-built fireplaces have:			
	a. closable metal or glass door covering the entire opening of the firebox	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. outside air intake with damper and control, flue damper and control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2. No continuous burning gas pilot lights allowed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§ 150(f):	Air retarding wrap installed to comply with §151 meets requirements specified in the ACM Residential Manual.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§ 150(g):	Vapor barriers mandatory in Climate Zones 14 and 16 only.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§ 150(l):	Slab edge insulation - water absorption rate for the insulation alone without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§ 118:	Insulation specified or installed meets insulation installation quality standards. Indicate type and include CF-6R Form: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
§ 116-17:	Fenestration Products, Exterior Doors, and Infiltration/Exfiltration Controls.			
	1. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2. Fenestration products (except field fabricated) have label with certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Space Conditioning, Water Heating and Plumbing System Measures</b>				
§ 110-13:	HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
§ 150(h):	Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
§ 150(i):	Setback thermostat on all applicable heating and/or cooling systems.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
§ 150(j):	Water system pipe and tank insulation and cooling systems line insulation.			
	1. Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R-12 or greater.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2. Back-up tanks for solar systems, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation and indicated on the exterior of the tank showing the R-value.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness:			
	1. First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes shall be insulated to Table 150B.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2. Cooling system piping (suction, chilled water, or brine lines), piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4. Steam hydronic heating systems or hot water systems > 15 psi, meet requirements of Table 123-A.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6. Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed entirely in conditioned space.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7. Solar water-heating systems/collectors are certified by the Solar Rating and Certification Corporation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**NOTE:** Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supercede the items marked with an asterisk (\*) below. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

DESCRIPTION	Instructions: Check or initial applicable boxes when completed or check N/A if not applicable.			ENFORCE- MENT
	N/A	DESIGNER		
<b>Space Conditioning, Water Heating and Plumbing System Measures: (continued)</b>				
§ 150(m): Ducts and Fans				
1. All ducts and plenums installed, sealed and insulated to meet the requirements of the CMC Sections 601, 602, 603, 604, 605, and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Exhaust fan systems have back draft or automatic dampers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operating dampers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Protection of insulation. Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Flexible ducts cannot have porous inner cores.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
§ 114: Pool and Spa Heating Systems and Equipment				
1. A thermal efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the heater, weatherproof operating instructions, no electric resistance heating and no pilot light.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. System is installed with:				
a. At least 36" of pipe between filter and heater for future solar heating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Cover for outdoor pools or outdoor spas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Pool system has directional inlets and a circulation pump time switch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
§ 115: Gas fired fan-type central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
§ 118 (j): Cool Roof material meets specified criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Lighting Measures</b>				
§ 150(k)1: HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, and do not contain a medium screw base socket (E24/E28). Ballasts for lamps 13 Watts or greater are electric and have an output frequency no less than 20 kHz.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)1: HIGH EFFICACY LUMINAIRES - OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, luminaire has factory installed HID ballast.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)2: Permanently installed luminaires in kitchens shall be high efficacy luminaires. Up to 50% of the Wattage, as determined in Section 130(c), of permanently installed luminaires in kitchens may be in luminaires that are not high efficacy luminaires, provided that these luminaires are controlled by switches separate from those controlling the high efficacy luminaires.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)3: Permanently installed luminaires in bathrooms, garages, laundry rooms, utility rooms shall be high efficacy luminaires. OR are controlled by an occupant sensor(s) certified to comply with Section 119(d).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)4: Permanently installed luminaires located other than in kitchens, bathrooms, garages, laundry rooms, and utility rooms shall be high efficacy luminaires (except closets less than 70 ft) OR are controlled by a dimmer switch OR are controlled by an occupant sensor that complies with Section 119(d) that does not turn on automatically or have an always on option.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)5: Luminaires that are recessed into insulated ceilings are approved for zero clearance insulation cover (IC) and are certified to ASTM E283 and labeled as air tight (AT) to less than 2.0 CFM at 75 Pascals.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)6: Luminaires providing outdoor lighting and permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy luminaires (not including lighting around swimming pools/water features or other Article 680 locations) OR are controlled by occupant sensors with integral photo control certified to comply with Section 119(d).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)7: Lighting for parking lots for 8 or more vehicles shall have lighting that complies with Sections 130, 132, and 147. Lighting for parking garages for 8 or more vehicles shall have lighting that complies with Section 130, 131, and 146.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
§ 150(k)8: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires OR are controlled by occupant sensor(s) certified to comply with Section 119(d).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

PROJECT NAME <b>Pony Keskela</b>	DATE <b>11/27/2006</b>
SYSTEM NAME <b>New Heating System</b>	FLOOR AREA <b>378</b>

## ENGINEERING CHECKS

Number of Systems	2
<b>Heating System</b>	
Output per System	5,120
Total Output (Btuh)	10,240
Output (Btuh/sqft)	27.1
<b>Cooling System</b>	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0

## Air System

CFM per System	0
Airflow (cfm)	0
Airflow (cfm/sqft)	0.00
Airflow (cfm/Ton)	0.0
Outside Air (%)	0.0
Outside Air (cfm/sqft)	0.00

Note: values above given at ARI conditions

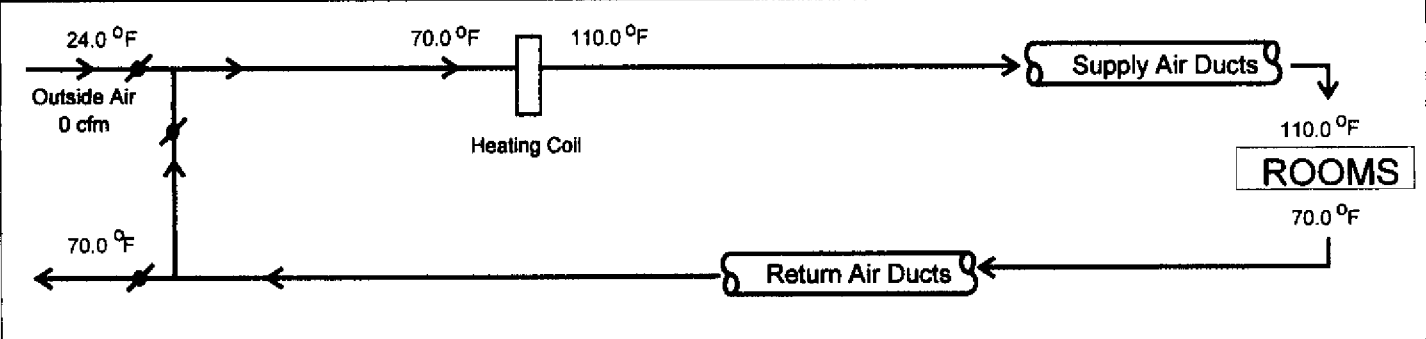
## SYSTEM LOAD

	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	507	12,509	671	178	7,646
Return Vented Lighting		0			
Return Air Ducts		0			0
Return Fan		0			0
Ventilation	0	0	0	0	0
Supply Fan		0			0
Supply Air Ducts		0			0
<b>TOTAL SYSTEM LOAD</b>		<b>12,509</b>	<b>671</b>		<b>7,646</b>

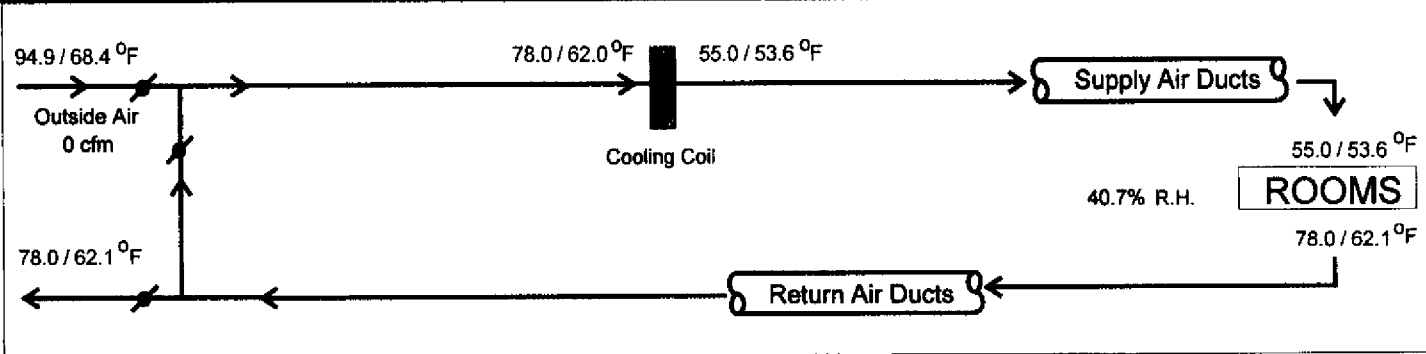
## HVAC EQUIPMENT SELECTION

Electric Baseboard 1500 W	0	0	10,240
Total Adjusted System Output (Adjusted for Peak Design Conditions)			
	0	0	10,240
<b>TIME OF SYSTEM PEAK</b>		Aug 2 pm	Jan 12 am

## HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



## COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



# HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

<b>PROJECT NAME</b> Pony Keskela	<b>DATE</b> 11/27/2006
<b>SYSTEM NAME</b> Existing Heating System	<b>FLOOR AREA</b> 1,604

## ENGINEERING CHECKS

<b>Number of Systems</b>	1
<b>Heating System</b>	
Output per System	35,000
Total Output (Btuh)	35,000
Output (Btuh/sqft)	21.8
<b>Cooling System</b>	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
<b>Air System</b>	
CFM per System	855
Airflow (cfm)	855
Airflow (cfm/sqft)	0.53
Airflow (cfm/Ton)	0.0
Outside Air (%)	0.0
Outside Air (cfm/sqft)	0.00

Note: values above given at ARI conditions

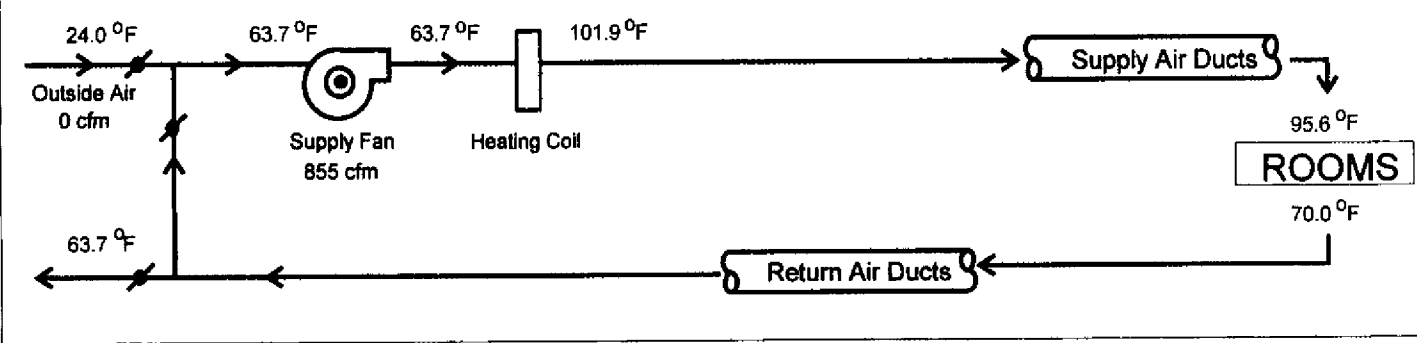
## SYSTEM LOAD

	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
<b>Total Room Loads</b>	1,371	27,227	94	1,424	39,164
Return Vented Lighting		0			
Return Air Ducts		4,125			5,746
Return Fan		0			0
Ventilation	0	0	0	0	0
Supply Fan		0			0
Supply Air Ducts		4,125			5,746
<b>TOTAL SYSTEM LOAD</b>		<b>35,476</b>	<b>94</b>		<b>50,656</b>

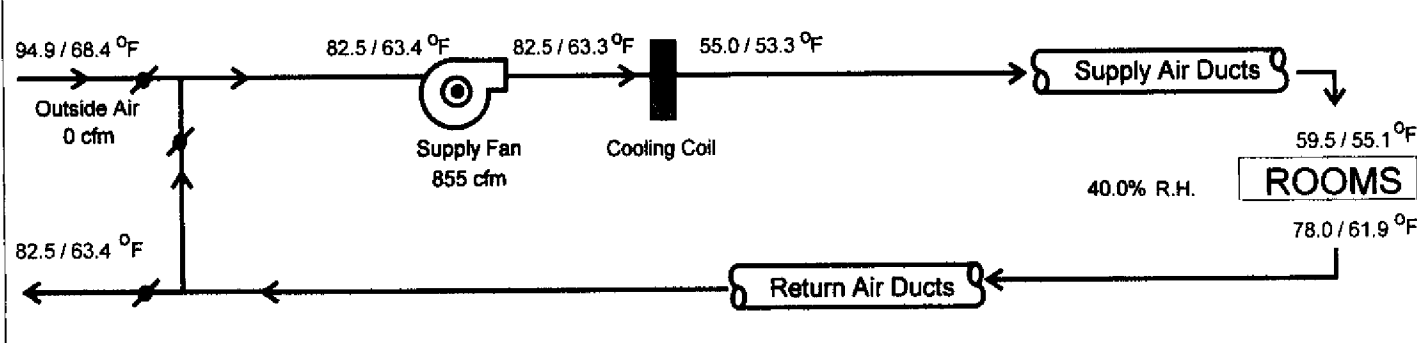
## HVAC EQUIPMENT SELECTION

Existing Forced Air Unit	0	0	35,000
<b>Total Adjusted System Output</b> (Adjusted for Peak Design Conditions)	0	0	35,000
<b>TIME OF SYSTEM PEAK</b>	Aug 2 pm	Jan 12 am	

## HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



## COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



SCHOOL DISTRICT CERTIFICATION OF COMPLIANCE

RETURN TO: Permit and Resource Management, County of Sonoma, 2550 Ventura Avenue, Santa Rosa, CA 95403

FROM: High School District \_\_\_\_\_ Elementary District Wright

Proof of school development fee payment must be provided to Permit and Resource Management Department prior to permit issuance. It is best to pay the school development fees after notification that the plan check is complete and the square footage is verified.

To be completed by applicant for building permit(s) and verified by Permit and Resource Management, County of Sonoma.

EFFECTIVE DATE: \_\_\_\_\_ (Date Plan Check Fee Was Paid) COUNTY RECEIPT NO. \_\_\_\_\_  
PROJECT ADDRESS 720 Brittain Lane  
PROPERTY OWNER'S NAME Keskela, PONY  
If applicable: Mobilehome Park Name \_\_\_\_\_ Lot/Space No. \_\_\_\_\_  
ASSESSOR'S PARCEL NO. 035--251-032

PROJECT DESCRIPTION: Include number of dwelling units. If agriculture, state specific use. Also include information regarding whether or not replacement dwelling, building used for religious purposes, private school or owned and occupied by governmental entity.

Conversion of garage to living space

Building Type:  Residential  Commercial/Industrial  Mobilehome/Manufactured Home

Square footage breakdown per residential unit: residential area\* 378

Total No. of residential units 1 Total Square Fee of Eligible Building Area\*: 378

I declare under penalty of perjury under the laws of the State of California on behalf of \_\_\_\_\_ Developer/Owner

*[Handwritten signature]*

and that the information furnished above is accurate and correct to the best of my knowledge.

Applicant's Signature 12/7 Year 06

The County of Sonoma (Permit and Resource Management) on \_\_\_\_\_ has verified the square footage and use information furnished by the above developer.

County of Sonoma Signature [Signature]

- \* Residential Buildings are building occupancies for single and multiple family dwellings, apartments, condominiums, and residential hotels where the primary purpose is to provide a residence and not a service, such as health care.
- \* Commercial/Industrial Area Buildings are building occupancies other than residential. Includes those buildings where the primary purpose is to provide a service, such as health care. Also includes senior citizen housing (Civil Code 51.3), residential care facility for elderly [H&S Code 15432(d)(9)], and adult only mobilehomes [Gov. Code 65995.2(a)]
- \* Eligible Commercial/Industrial Area is all chargeable covered and enclosed space calculated by the building department. Chargeable Covered and Enclosed Space includes all the covered and enclosed space within the perimeter of a commercial or industrial structure but does not include any storage areas incidental to the principal use the development, garage, parking structure, unenclosed walkway, or utility or disposal area.
- \* Eligible Residential Area means the Assessable Space calculated by the building department which includes all the square footage within the perimeter of a residential structure, but does not include any carport, walkway, overhang, patio, detached accessory structure, or similar area.

To be completed by school districts

SCHOOL DISTRICT CERTIFICATION

School District requirements for the above project have been satisfied pursuant to (circle one):

Ed. Code 17620FEES    Mitigation Agreement    Not Subject to Fee Requirement

This Certification covers only the amount of square footage identified above. Any additional square footage for the project is subject to another certification of compliance.

ELEM. SCHOOL DISTRICT    recpt. no. _____	HIGH SCHOOL DISTRICT    recpt. no. _____
Square footage: <u>378</u> at \$ <u>No charge</u> sq.ft.	Square footage: _____ at \$ _____ sq.ft.
Total Fee Amount Collected: \$ _____	Total Fee Amount Collected: \$ _____
Authorized School District Official <u>[Signature]</u> signature	Authorized School District Official _____ signature
Date: <u>1-8-07</u> <u>[Signature]</u> title	Date: _____ title

With regard to mobilehomes / manufactured homes, it is understood that the validity of any certificate of occupancy or Statement of Installation Acceptance issued by the City is conditioned on the concurrent payment of fees set forth above.

Applicant is hereby noticed that anyone filing a protest on the imposition of Education Code Section 17620 fees must do so within 90 days from payment of the fee.

# COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print  
Your Name:

Date Applied:

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY																								
Site Address: <u>720 Brittain Lane</u>		City: <u>Santa Rosa</u>																						
Cross-Street:		ZIP:																						
Directions:		Subd Name: <u>025</u>	Project Fax #: ( )																					
Describe Project: <u>legalize garage conversion</u>		Living Area: <u>575 sq ft</u>	Contract Price: <u>10,000.-</u>																					
OWNER NAME AND ADDRESS		APPLICANT NAME AND ADDRESS																						
Name: <u>Pony Kaskela</u>		Name: <u>HomeWorks</u>																						
Mailing Address: <u>267 Mangrove Cir</u>		Mailing Address: <u>P.O. Box 840</u>																						
City: <u>Encinitas</u>	State: <u>CA</u>	City: <u>Forestville</u>	State: <u>CA</u>																					
Day Ph: <u>619 206 6169</u>	Fax: ( )	Day Ph: <u>( ) 893-3981</u>	Fax: ( )																					
CONTRACTOR INFORMATION		OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)																						
Company Name:		Name:																						
Address: <u>same as applicant</u>		Address:																						
City:	State:	City:	State:																					
Day Ph: ( )	Fax: ( )	Day Ph: ( )	Fax: ( )																					
<b>WORKER'S COMPENSATION DECLARATION</b>		<b>CONSTRUCTION LENDING DECLARATION</b>																						
<p>I hereby affirm under penalty of perjury one of the following declarations:</p> <p><input type="checkbox"/> I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.</p> <p><input checked="" type="checkbox"/> I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:</p> <p>Carrier: <u>State Fund</u></p> <p>Policy No: <u>1810962</u></p> <p>(This section need not be completed if the permit is for one hundred dollars (\$100) or less.)</p> <p><input type="checkbox"/> I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.</p> <p>Exp. Date: <u>9/4/07</u> Applicant: <u>Louis D'Amico</u></p> <p><b>WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.</b></p>		<p>I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.)</p> <p>Lenders Name _____</p> <p>Lenders Address _____</p>																						
<b>FOR DEPARTMENT USE</b>																								
Zoning _____ File No. _____ Acres _____																								
Existing Use/Structures _____																								
Proposed Use/Structures _____																								
Zoning Min. Yard Requirements: Front _____ Left _____ Right _____ Back _____																								
NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. <input type="checkbox"/> Mitigation Required <input type="checkbox"/> Address subject to change																								
Approval for Permit Issuance: _____		Approval for Occupancy: _____																						
By: <u>S. Hunsberger</u>		By: <u>S. Hunsberger</u>																						
Date: _____		Date: <u>12/10/06</u>																						
Conditions: <u>approval for conversion of garage to addn to (E) 5FD. Attached garage will provide fronting</u>																								
Sewer Connection: <input type="checkbox"/> Available <input type="checkbox"/> Fees Paid																								
Approved by: _____ Date: _____																								
Road Encroachment: <input type="checkbox"/> Fees Paid																								
Approved by: <u>D. Caldwell</u> Date: <u>1-11-07</u>																								
Septic System Minimum Clearance: <u>SEP 07-0003</u>																								
Approved by: <u>Beddy</u> Date: <u>12/7/06</u>																								
Flood Zone: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 100 Year Flood Elevation: _____																								
Site Review _____																								
Drainage Review: _____																								
Approved by: _____ Date: _____																								
Fire: _____																								
Approved by: _____ Date: _____																								
Code Enforcement Violation <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Violation # <u>UB406-0214</u>																								
This permit is limited to <u>100</u> days.																								
<input checked="" type="checkbox"/> okay to issue will clear via when smallest <u>D. Ward 1-12-2007</u>																								
Work Authorized: <u>convert garage to bedroom</u>																								
<u>337 1/2 per Blanche</u>																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Plans Approved</td> <td><input type="checkbox"/> Post FIRM</td> <td><input type="checkbox"/> Alquist Priolo Report Available</td> </tr> <tr> <td><input type="checkbox"/> No Plans Subject to Field Inspection</td> <td><input type="checkbox"/> Pre FIRM</td> <td><input type="checkbox"/> Geotechnical report Available</td> </tr> <tr> <td>Plancheck Clearance: _____ Date: _____</td> <td>Type of Construction: <u>V-N</u></td> <td>Occupancy: <u>R-3</u></td> </tr> <tr> <td>Permit Issued: _____ Date: _____</td> <td>Auto. Fire Sprinklers Req'd: <u>No</u></td> <td>No. of Units: <u>1</u></td> </tr> <tr> <td></td> <td></td> <td>No. of Stories: <u>1</u></td> </tr> <tr> <td></td> <td></td> <td>No. of Bedrooms: <u>3</u></td> </tr> <tr> <td></td> <td></td> <td>Certificate of Occupancy: _____</td> </tr> </table>				<input checked="" type="checkbox"/> Plans Approved	<input type="checkbox"/> Post FIRM	<input type="checkbox"/> Alquist Priolo Report Available	<input type="checkbox"/> No Plans Subject to Field Inspection	<input type="checkbox"/> Pre FIRM	<input type="checkbox"/> Geotechnical report Available	Plancheck Clearance: _____ Date: _____	Type of Construction: <u>V-N</u>	Occupancy: <u>R-3</u>	Permit Issued: _____ Date: _____	Auto. Fire Sprinklers Req'd: <u>No</u>	No. of Units: <u>1</u>			No. of Stories: <u>1</u>			No. of Bedrooms: <u>3</u>			Certificate of Occupancy: _____
<input checked="" type="checkbox"/> Plans Approved	<input type="checkbox"/> Post FIRM	<input type="checkbox"/> Alquist Priolo Report Available																						
<input type="checkbox"/> No Plans Subject to Field Inspection	<input type="checkbox"/> Pre FIRM	<input type="checkbox"/> Geotechnical report Available																						
Plancheck Clearance: _____ Date: _____	Type of Construction: <u>V-N</u>	Occupancy: <u>R-3</u>																						
Permit Issued: _____ Date: _____	Auto. Fire Sprinklers Req'd: <u>No</u>	No. of Units: <u>1</u>																						
		No. of Stories: <u>1</u>																						
		No. of Bedrooms: <u>3</u>																						
		Certificate of Occupancy: _____																						
Machine Space for Permit Fee																								
<p style="font-size: 2em; font-weight: bold;">11 JAN 22 2007</p> <p style="text-align: center;">PERMIT AND RESOURCE MANAGEMENT DEPARTMENT COUNTY OF SONOMA</p>																								
Final Date: <u>2-2-07</u>		Inspector: <u>MW</u>																						

JOB ADDRESS: 720 Brittain Lane  
PERMIT NUMBER: B1006-5614  
INSPECTION AREA: 4

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

Distribution: White - File    Canary - Applicant    Pink - Audit Copy    Blue - Assessor    Cardstock - Inspector

131)	SPECIAL INSPECTION REQUIRED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	IF YES, SEE ADDITIONAL SHEET
INSPECTION RECORD	DATE	NAME	REMARKS	
101)	ROUGH GRADING			
103)	FOUNDATION			
	FORMS/SETBACK			
	FOOTING			
	WALLS			
106)	UFER GROUND #			
104)	CAISSONS/PIERS			
105)	SLAB			
107)	UNDERGROUND UTILITIES			
110)	MASONRY			
109)	RETAINING WALLS			
113)	FIREPLACE			
	FOOTING			
	HEARTH/PROTECTION			
	THROAT			
114)	CHIMNEY			
120)	UNDERFLOOR/UNDERSLAB			
115)	HYDRONICS			
116)	U/F ELECTRICAL			
117)	U/F MECHANICAL			
118)	U/F PLUMBING			
119)	U/F FRAMING			
139)	U/F INSULATION			
126)	SHEAR WALLS			
	<input type="checkbox"/> INTERIOR		<input type="checkbox"/> EXTERIOR	
127)	DIAPHRAGMS			
	<input type="checkbox"/> ROOF		<input type="checkbox"/> FLOOR	
134)	SIDING/SHEATHING			
125)	HOLD DOWNS			
132)	CLOSE-IN			
122)	ROUGH ELECTRICAL			See Correction
123)	ROUGH MECHANICAL			
124)	ROUGH PLUMBING	1-30-07 MW		
128)	ROUGH FRAME	1-30-07 MW		
160)	SMOKE DETECTORS	1-30-07 MW		New Slider installed per County's Request. Gas range removed, plus connection & gas line to it.
139)	INSULATION			
142)	WALLBOARD			
143)	FIREWALLS			
135)	STUCCO/PLASTER			
	<input type="checkbox"/> LATH		<input type="checkbox"/> SCRATCH	
137)	ROOFING			
130)	TUB/SHOWER PAN			
162)	FIRE DAMPERS/DOORS			
164)	SUSPENDED CEILING			
	<input type="checkbox"/> ROUGH ELEC.		<input type="checkbox"/> ROUGH MECH.	
165)	EXITING - RAMPS/STAIRS			
163)	HANDRAILS/GUARDRAILS			
	CORRIDORS/DOORS			
166)	ACCESSIBILITY COMPLIANCE			
144)	WATER TANKS			
	<input type="checkbox"/> SLAB		<input type="checkbox"/> WALLS	
170)	TEMPORARY OCCUPANCY			
171)	TEMPORARY ELECTRICAL			
172)	TEMPORARY GAS			
174)	ELECTRIC METER AUTHORIZATION			
152)	PANEL BOARDS/SERVICE			
189)	SEPTIC ELECTRIC FINAL			
175)	GAS METER AUTHORIZATION			
153)	GAS PRESSURE TEST			
	HOUSE		YARD	
190)	MANUF. HOME FOUNDATION			
191)	MANUF. HOME INSTALLATION			
	CONTINUITY			
	STAIRS/SKIRTS			
	RIDGE BOLTING			
193)	MANUF. HOME COND. FINAL			
	SWIMMING POOLS			
194)	PRE-GUNITE			
195)	PRE-DECK			
196)	PRE-PLASTER/FENCE			
197)	VINYL/FIBERGLASS POOL EXCAVATION			
102)	GRADING FINAL			
176)	ELECTRICAL FINAL	2-2-07 MW		
177)	MECHANICAL FINAL			
178)	PLUMBING FINAL			
199)	FINAL	2-2-07 MW		
	OCCUPANCY (OK TO OCCUPY)			
				PLAN RETENTION REQUIRED?
				<input type="checkbox"/> Yes <input type="checkbox"/> No

PERMIT # B-006-5687  
 1/11