

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0502064
Insp Area: 2
Thos Bros: 236-C4

Site Address: 7948 CAVALIER WY SAC Sub-Type: NSFR
Parcel No: 052-0200-004 STEAMBOAT BEND UNIT 3 LOT #88 Housing (Y/N):
N

CONTRACTOR
HOFMANN CONSTRUCTION
PO BOX 907
CONCORD CA 94522

OWNER

ARCHITECT

Nature of Work: MP1536 1 STORY 7 RM SFR

CONSTRUCTION LENDING AGENCY : 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).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class B1 License Number 189167 Date 11-30-05 Contractor Signature (Signature)

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

____ I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

____ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. _____ B & PC for this reason: _____
Date _____ Owner Signature _____

PAID
CITY OF SACRAMENTO
APR 28 2005
NORTH PERMIT CENTER

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the above mentioned property for inspection purposes.

Date 4-28-05 Applicant/Agent Signature (Signature)

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

____ I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

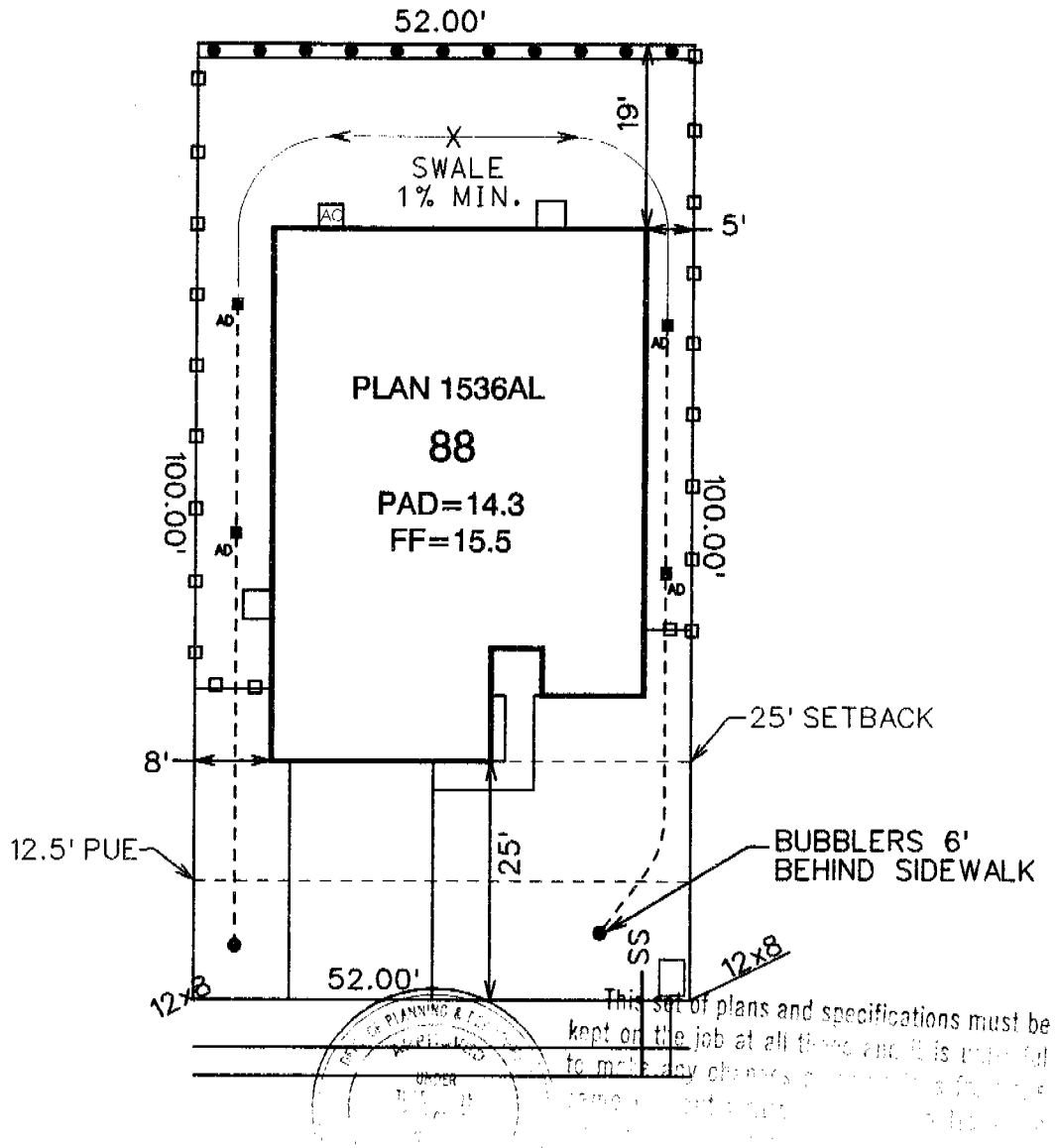
Carrier STATE FUND Policy Number 1633130 Exp Date 04/01/2005

____ (This section need not be completed if the permit is for \$100 or less) 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 workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

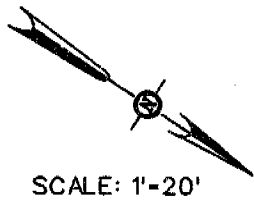
Date 4-28-05 Applicant Signature (Signature)

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 FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.



CAVALIER DRIVE



LOT AREA: 5200 SQ. FT.
 BLDG COVERAGE: 2045.3 SQ. FT.
 % LOT COVERAGE: 39%

<ul style="list-style-type: none"> FIRE HYDRANT D.I. ELECTRICAL BOX WATER SERVICE STREET LIGHT SS SANITARY SEWER CABLE T.V. BOX SWALE(1% MIN.) AREA DRAIN BUBBLERS 	<ul style="list-style-type: none"> R OR L GARAGE LOCATION FACING HOUSE FF FINISH FLOOR LP/HP LOW/HIGH POINT TC TOP OF CURB TW TOP OF WALL BW BOTTOM OF WALL FG FINISH GRADE P.U.E. PUBLIC UTILITY EASEMENT GL GARAGE LIP D/W DRIVEWAY 	<ul style="list-style-type: none"> 225 LOT NUMBER — LOT LINE S.S. CLEAN OUT WATER METER BOX TRANSFORMER EMBANKMENT(2:1 MAX.) RETAINING WALL MASONRY FENCE 6' VIEW FENCE 6' HIGH WOOD FENCE
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<p>KASL ENGINEERS CIVIL - WATER RESOURCES - SURVEYING</p>	PLOT PLAN FOR LOT 88	SCALE: 1"=20'
	STEAMBOAT BEND 3	DATE: 2-03-05
	A.P.N. ADDRESS: COUNTY: SACRAMENTO	REVISED:
		DRAWN BY: PWG
		CHK'D. BY: DLA
		W.O. 3940-03

CERTIFICATION OF INSULATION

PART I
GENERAL

Hoffman
5 Northwich Ct.
0502061

LOT # 146

Steamboat

- P.O. BOX 854, WEST SACRAMENTO, CA 95691 LIC. #202026
- 1309 MELODY ROAD, MARYSVILLE, CA 95901 LIC. #202026
- P.O. BOX 9651, FRESNO, CA 93793-9651 LIC. #202026
- P.O. BOX 1631, RENO, NV 89505 LIC. #10675
- 3326 A PONDEROSA WAY, LAS VEGAS, NV 89118 LIC. #10675

DATE INSULATION COMPLETED

PART II
AREAS INSULATED

WALLS			ROOFS			FLOORS		
SQUARE FEET			SQUARE FEET			SQUARE FEET		
TYPE OF INSULATION			TYPE OF INSULATION			TYPE OF INSULATION		
MATERIAL FIBERGLASS			MATERIAL FIBERGLASS			MATERIAL FIBERGLASS		
FORM BATTS			FORM BATTS & BLOW			FORM BATTS		
MANUFACTURER'S PRODUCT I.D.			MANUFACTURER'S PRODUCT I.D.			MANUFACTURER'S PRODUCT I.D.		
MANUFACTURER			MANUFACTURER			MANUFACTURER		
CT	OC	JM	CT	OC	JM	CT	OC	JM
R VALUE			R VALUE			R VALUE		
APPLIED THICKNESS			APPLIED THICKNESS			APPLIED THICKNESS		
13			3 1/2			38		
			12/14 3/4					
MATERIAL			FORM			R VALUE		
FIBERGLASS			BATTS					
						MANUFACTURER		
						CT OC JM		
MATERIAL			AIR INSULATION			SEALANT		
			Foam			HILTI		
						MANUFACTURER		
						HANDY FOAM		

PART III
CERTIFICATION

THIS IS TO CERTIFY THAT THE INSULATION HAS BEEN INSTALLED IN ACCORDANCE WITH APPLICABLE CODES, MATERIAL SPECIFICATIONS AND SEALANT SPECIFICATIONS.

SIGNATURE — INSULATION CONTRACTOR: <i>BB</i>	TITLE: MANAGER	DATE:
SIGNATURE — GENERAL CONTRACTOR:	TITLE:	DATE:

REMARKS

INSTALLATION CERTIFICATE

CF-6R

Lot- 146, - 5- Northwich CT.

0502061

Site Address **Steamboat Plan 1536**

Permit Number

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required; however, use of this form to provide the information is optional.) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(b).

HVAC SYSTEMS:

Heating Equipment

Equip. Type (pkg. heat pump)	CEC Certified Mfr Name and Model Number	# of Identical Systems	Efficiency (AFUE, etc.) [≥CF-1R value]	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
Furnace	Gibson #GL1RC060D12A	1	92%	Attic	R6	60,000	

Cooling Equipment

Equip. Type (pkg. heat pump)	CEC Certified Compressor Unit Mfr Name and Model Number	# of Identical Systems	Efficiency (SEER, etc.) [≥CF-1R value]	Duct Location (attic, etc.)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
Condensor	Gibson #JS3BA030KA	1	10 SEER	Attic	R6	30,000	

1. > reads greater than or equal to.

I, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the *Appliance Efficiency Regulations* or Part 6), where applicable.

Blue Mountain Air, Inc

Signature, Date

Installing Subcontractor (Co. Name)

OR General Contractor (Co. Name) OR Owner

WATER HEATING SYSTEMS:

Heater Type	CEC Certified Mfr Name & Model Number	Distribution Type (Std. Point-of-Use)	If Recirculation, Control Type	# of Identical Systems	Rated Input (kW or Btu/hr)	Tank Volume (gallons)	Efficiency (EF, RE)	External Standby Loss (%)	Insulation R-value

2. For small gas storage (rated input of less than or equal to 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor.

For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Recovery Efficiency, Standby Loss and Rated Input.

For instantaneous gas water heaters, list Recovery Efficiency and Rated Input.

3. R-12 external insulation is mandatory for storage water heaters with an energy factor of less than 0.58.

Faucets & Shower Heads:

All faucets and showerheads installed are certified to the Commission, pursuant to Title 24, Part 6, Section 111.

I, the undersigned, verify that equipment listed above my signature is: 1) the actual equipment installed; 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the *Appliance Efficiency Regulations* or Part 6), where applicable.

Signature, Date

Installing Subcontractor (Co. Name) OR

General Contractor (Co. Name) OR Owner

COPY TO: Building Department

HERS Provider (if applicable)

Building Owner at Occupancy

5 Northwich Court, Lot-146
Site Address

0502061
Permit Number

DUCT LEAKAGE AND DESIGN DIAGNOSTICS

DUCT LEAKAGE REDUCTION

Pressurization Test Results (CFM @ 25 P

Fan Flow	Test Leakage (CFM)	Downstairs	Upstairs
		64	0
If fan flow is calculated as 400cfm/ton x number of tons, or as 21.7 x Heating Capacity in Thousands of Btu Hr. enter calculated value here		64 Sq. FT.	
If fan flow is measured enter measured value here			
Leakage Fraction = Test Leakage/(Measured or Calculated Fan Flow) =		6.0	0.0

Pass if leakage fraction <= 6%

Pass Fail

For AEROSOL TYPE SEALANTS ONLY - The following diagnostic testing was completed:
Duct Fan Pressurization at rough-in measured leakage (CFM)

CHECK AFTER FINISHING WALL:

- Yes No Pressure pan test of House pressurization test
- Yes No Visual Inspection of Duct Connections

THERMOSTATIC EXPANSION VALVE (TXV)

Yes No Thermostatic Expansion valve is installed and Access is provided for inspection

Yes is a pass Pass Fail

DUCT DESIGN

- 1. Yes No ACCA Manual D Design calculations have been completed. Duct Design is on the plans
- 2. Yes No TXV is installed or Fan flow has been verified. If no TXV, verified fan flow matches design

Measured Fan Flow = _____
Yes for both 1 and 2 is a Pass Pass Fail

I, the undersigned, verify that the above diagnostic test results and the work I performed associated with the test(s) is in conformance with the requirements for compliance credit. [The builder shall provide the HERS provider a copy of the CF-6R signed by the builder employees or sub-contractors certifying that diagnostic testing and installation meet the requirements for compliance credit.]

Tests Performed

Signature, Date

Installing Subcontractor (Co. Name) OR General Contractor (Co. Name)

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupanc

Plan 1536

INSTALLATION CERTIFICATE

(Page 1 of 13)

CF-6R

Lot-146 - S-Northwich CT.

0502061

Site Address

Permit Number

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required; however, use of this form to provide the information is optional.) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(b).

HVAC SYSTEMS:

Heating Equipment

Equip. Type (pkg heat number)	CEC Certified Mfr Name and Model Number	# of Identical Systems	Efficiency (AFUE, etc.) ¹ (2-CE-1R value)	Duct Location (attic, etc)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)

Cooling Equipment

Equip. Type (pkg heat number)	CEC Certified Compressor Unit Mfr Name and Model Number	# of Identical Systems	Efficiency (SEER, etc.) ¹ (2-CE-1R value)	Duct Location (attic, etc)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)

1. \geq reads greater than or equal to.

I, the undersigned, verify that equipment listed above is: 1) the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Signature, Date

Installing Subcontractor (Co. Name)

OR General Contractor (Co. Name) OR Owner

WATER HEATING SYSTEMS:

Heater Type	CEC Certified Mfr Name & Model Number	Distribution Type (Std. Point-of-Use)	If Recirculation, Control Type	# of Identical Systems	Rated ¹ Input (kW or Btu/hr)	Tank Volume (gallons)	Efficiency ² (EF, RE)	Standby Loss (%)	External Insulation R-value ³
NATURAL GAS	63750X0CTG SUGAL	STORAGE		1	40000	50	162	3.05	R-16

- 2 For small gas storage (rated input of less than or equal to 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor
- For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Recovery Efficiency, Standby Loss and Rated Input
- For instantaneous gas water heaters, list Recovery Efficiency and Rated Input
- 3. R-12 exterior insulation is mandatory for storage water heaters with an energy factor of less than 0.58

Faucets & Shower Heads:

All faucets and showerheads installed are certified to the Commission, pursuant to Title 24, Part 6, Section 111.

I, the undersigned, verify that equipment listed above my signature is: 1) the actual equipment installed; 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings; and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Robert C. ... 2/22/05
Signature, Date

Antidch Plumbing Inc
Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupancy

Site Address 5 - Northwich C.T.

Permit Number

FENESTRATION/GLAZING

Manufacturer/ Brand Name:	Operator Type	Product U-Values-1 (< CF-1R Value) ¹	Product SHGC-1 (< CF-1R Value) ²	# of Panes	Total Quantity of Like Product (Optional)	Total Square Feet	Interior or Exterior Shading Device or Overhang	Comments- Special Features
Philips 800 S & N (Low E)	Slider	.36	.33					U-Values based on
Philips 800 S & N (Low E)	Single Hung	.36	.33					Products supplied
Philips 800 S & N (Low E)	Fixed	.33	.36					by Insight Glass
Philips 800 S & N (Low E)	Patio Door	.35	.35					Only !!
								U-Values On fenestration
								Products supplied by
								others are not available.

1. Manufactured Fenestration products use the values from the product label. Field fabricated fenestration products use the default values from Section 116 of the Energy Efficiency Standards

¹ Installed U-value must be less than or equal to value from CF-1R. Installed SHGC must be less than or equal to values from CF-1R, or a shading device (interior, exterior or overhang) is installed as specified on the CF-1R. Alternatively, installed weighted average U-Values for the total fenestration area are less than or equal to values from CF-1R.

I, the undersigned, verify that the fenestration/glazing listed above my signature (1) is the actual fenestration product installed; (2) is equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings; and (3) the product meets or exceeds the appropriate requirements for manufactured devices (from Part 6), where applicable.

AWyfs 2/22/05

 Signature, Date
 Items #s (if applicable)

Insight Glass Inc.

 Installing Subcontractor (Co. Name) OR
 General Contractor (Co. Name) OR Owner
 OR Window Distributor

 Signature, Date
 Items #s (if applicable)

 Installing Subcontractor (Co. Name) OR
 General Contractor (Co. Name) OR Owner
 OR Window Distributor

 Signature, Date
 Items #s (if applicable)

 Installing Subcontractor (Co. Name) OR
 General Contractor (Co. Name) OR Owner
 OR Window Distributor

COPY TO: Building Department
 HERS Provider (if applicable)
 Building Owner at Occupancy

Compliance Forms

July 1, 1999

CERTIFICATION OF INSULATION

PART I
GENERAL

The Hofmann Company LOT # 88
 7948 Collier Way
 9502064
 Steamboat Bend

- P.O. BOX 854, WEST SACRAMENTO, CA 95691 LIC. #202026
- 1309 MELODY ROAD, MARYSVILLE, CA 95901 LIC. #202026
- P.O. BOX 9651, FRESNO, CA 93793-9651 LIC. #202026
- P.O. BOX 1631, RENO, NV 89505 LIC. #10675
- 3326 A PONDEROSA WAY, LAS VEGAS, NV 89118 LIC. #10675

DATE INSULATION COMPLETED

PART II
AREAS INSULATED

WALLS			CEILING			FLOORS		
(SQUARE FEET)			(SQUARE FEET)			(SQUARE FEET)		
TYPE OF INSULATION			TYPE OF INSULATION			TYPE OF INSULATION		
MATERIAL FIBERGLASS			MATERIAL FIBERGLASS			MATERIAL FIBERGLASS		
FORM BATTS			FORM BATTS & BLOW			FORM BATTS		
MANUFACTURER'S PRODUCT I.D.			MANUFACTURER'S PRODUCT I.D.			MANUFACTURER'S PRODUCT I.D.		
MANUFACTURER			MANUFACTURER			MANUFACTURER		
CT	OC	JM	CT	OC	JM	CT	OC	JM
BAGS								
R-VALUE INSTALLED	THICKNESS	R-VALUE INSTALLED	THICKNESS	R-VALUE INSTALLED	THICKNESS	R-VALUE INSTALLED	THICKNESS	APPLIED THICKNESS
13	3.5	38	2" - 14.75	—	—	—	—	—
WALLS IF R-VALUE OTHER THAN WALLS ABOVE			R VALUE			MANUFACTURER		
MATERIAL FIBERGLASS			FORM BATTS					
						CT	OC	JM
AIR BARRIER / SEALANT			MANUFACTURER					
MATERIAL FOAM						HILTI	HANDY FOAM	

PART III
CERTIFICATION

THIS IS TO CERTIFY THAT THE INSULATION HAS BEEN INSTALLED IN ACCORDANCE WITH APPLICABLE CODES, MATERIAL SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS.			
SIGNATURE — INSULATION CONTRACTOR	B.G.	TITLE	DATE
		MANAGER	09/15/05
SIGNATURE — GENERAL CONTRACTOR		TITLE	DATE
REMARKS			

INSTALLATION CERTIFICATE

CF-6R

Lot-88- 7948 Callalier Wy
 Site Address Steamboat Plan 1536

0502064
 Permit Number

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required; however, use of this form to provide the information is optional.) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(b).

HVAC SYSTEMS:

Heating Equipment

Equip. Type (pkg. heat pump)	CEC Certified Mfr Name and Model Number	# of Identical Systems	Efficiency (AFUE, etc.) (≥CF-1R value)	Duct Location (attic, etc.)	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)
Furnace	Gibson #GL1RC060D12A	1	92%	Attic	R6	60,000	

Cooling Equipment

Equip. Type (pkg. heat pump)	CEC Certified Compressor Unit Mfr Name and Model Number	# of Identical Systems	Efficiency (SEER, etc.) (≥CF-1R value)	Duct Location (attic, etc.)	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)
Condensor	Gibson #JS3BA030KA	1	10 SEER	Attic	R6	30,000	

1. > reads greater than or equal to.

I, the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

[Signature]
 Signature, Date

Blue Mountain Air, Inc

Installing Subcontractor (Co. Name)
 OR General Contractor (Co. Name) OR Owner

WATER HEATING SYSTEMS:

Heater Type	CEC Certified Mfr Name & Model Number	Distribution Type (Std. Point-of-Use)	If Recirculation, Control Type	# of Identical Systems	Rated Input (kW or Btu/hr)	Tank Volume (gallons)	Efficiency (EF, RE)	Standby Loss (%)	External Insulation R-values

2. For small gas storage (rated input of less than or equal to 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor.

For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Recovery Efficiency, Standby Loss and Rated Input.

For instantaneous gas water heaters, list Recovery Efficiency and Rated Input.

3. R-12 external insulation is mandatory for storage water heaters with an energy factor of less than 0.58.

Faucets & Shower Heads:

All faucets and showerheads installed are certified to the Commission, pursuant to Title 24, Part 6, Section 111.

I, the undersigned, verify that equipment listed above my signature is: 1) the actual equipment installed; 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings; and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Signature, Date

Installing Subcontractor (Co. Name) OR
 General Contractor (Co. Name) OR Owner

COPY TO: Building Department
 HERS Provider (if applicable)
 Building Owner at Occupancy

Lot 88 - 7948 Cavalier Wy
Site Address

0502064
Permit Number

DUCT LEAKAGE AND DESIGN DIAGNOSTICS

DUCT LEAKAGE REDUCTION

Pressurization Test Results (CFM @ 25 P)

Fan Flow	Test Leakage (CFM)	Downstairs	Upstairs
		64	0
If fan flow is calculated as 400cfm/ton x number of tons, or as 21.7 x Heating Capacity in Thousands of Btu Hr, enter calculated value here		64 Sq. FT.	
If fan flow is measured enter measured value here			
Leakage Fraction = Test Leakage / (Measured or Calculated Fan Flow) =		6.0	0.0
Pass if leakage fraction <= 6%		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Pass	Fail

For AEROSOL TYPE SEALANTS ONLY - The following diagnostic testing was completed:
Duct Fan Pressurization at rough-in measured leakage (CFM)

CHECK AFTER FINISHING WALL:

- Yes No Pressure pan test of House pressurization test
- Yes No Visual inspection of Duct Connections

THERMOSTATIC EXPANSION VALVE (TXV)

Yes No Thermostatic Expansion valve is installed and Access is provided for inspection
Yes is a pass Pass Fail

DUCT DESIGN

1. Yes No ACCA Manual D Design calculations have been completed. Duct Design is on the plans
2. Yes No TXV is installed or Fan flow has been verified. If no TXV, verified fan flow matches design

Measured Fan Flow = _____
Yes for both 1 and 2 is a Pass Pass Fail

I, the undersigned, verify that the above diagnostic test results and the work I performed associated with the test(s) is in conformance with the requirements for compliance credit. [The builder shall provide the HERS provider a copy of the CF-6R signed by the builder employees or sub-contractors certifying that diagnostic testing and installation meet the requirements for compliance credit.]

Tests Performed _____ Signature, Date _____ Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) _____

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupanc

Plan 1536

INSTALLATION CERTIFICATE

(Page 1 of 13)

CF-6R

Lot 88 7948 Callahan Way
Site Address

0502064
Permit Number

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HVAC SYSTEMS:

Heating Equipment

Equip. Type (pkg heat pump)	CEC Certified Mfr Name and Model Number	# of Identical Systems	Efficiency (AFUE, etc.) ¹ (2CF-1R value)	Duct Location (etc. etc.) ¹	Duct or Piping R-value	Heating Load (Btu/hr)	Heating Capacity (Btu/hr)

Cooling Equipment

Equip. Type (pkg heat pump)	CEC Certified Compressor Unit Mfr Name and Model Number	# of Identical Systems	Efficiency (SEER, etc.) ¹ (2CF-1R value)	Duct Location (etc. etc.) ¹	Duct R-value	Cooling Load (Btu/hr)	Cooling Capacity (Btu/hr)

1. ¹ ≥ reads greater than or equal to.
I, the undersigned, verify that equipment listed above is: 1) the actual equipment installed; 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings; and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Signature, Date

Installing Subcontractor (Co. Name)
OR General Contractor (Co. Name) OR Owner

WATER HEATING SYSTEMS:

Heater Type	CEC Certified Mfr Name & Model Number	Distribution Type (Std. Point-of-Use)	If Recirculation, Control Type	# of Identical Systems	Rated Input (kW or Btu/hr)	Tank Volume (gallons)	Efficiency ¹ (EF, RE)	Standby Loss (%)	External Insulation R-value ²
NATURAL GAS	65H50X05TG 50 GAL	STORAGE		1	40000	50	162	3.05	R-10

1. For small gas storage (rated input of less than or equal to 75,000 Btu/hr), electric resistance and heat pump water heaters, list Energy Factor. For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Recovery Efficiency, Standby Loss and Rated Input. For instantaneous gas water heaters, list Recovery Efficiency and Rated Input.
2. R-10 external insulation is mandatory for storage water heaters with an energy factor of less than 0.58

Faucets & Shower Heads:

All faucets and showerheads installed are certified to the Commission, pursuant to Title 24, Part 6, Section 111.

I, the undersigned, verify that equipment listed above my signature is: 1) the actual equipment installed; 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings; and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Robert C. Korman 2/22/05
Signature, Date

Antioch Plumbing Inc
Installing Subcontractor (Co. Name) OR
General Contractor (Co. Name) OR Owner

COPY TO: Building Department
HERS Provider (if applicable)
Building Owner at Occupancy

Site Address 7948 Cavalier Wy

Permit Number

FENESTRATION/GLAZING

Manufacturer/ Brand Name	Operator Type	Product U-Values-1 (\leq CF-1R Value) ²	Product SHGC-1 (\leq CF-1R Value) ²	# of Panes	Total Quantity of Like Product (Optional)	Total Square Feet	Interior or Exterior Shading Device or Overhang	Comments- Special Features
Philips 800 S & N (Low E)	Slider	.36	.33					U-Values based on
Philips 800 S & N (Low E)	Single Hung	.36	.33					Products supplied
Philips 800 S & N (Low E)	Fixed	.33	.36					by Insight Glass
Philips 800 S & N (Low E)	Patio Door	.35	.35					Only !!
								U-Values On fenestration
								Products supplied by
								others are not available.

1. Manufactured Fenestration products use the values from the product label. Field fabricated fenestration products use the default values from Section 116 of the Energy Efficiency Standards

² Installed U-value must be less than or equal to value from CF-1R. Installed SHGC must be less than or equal to values from CF-1R, or a shading device (interior, exterior or overhang) is installed as specified on the CF-1R.

Alternatively, installed weighted average U-Values for the total fenestration area are less than or equal to values from CF-1R.

I, the undersigned verify that the fenestration/glazing listed above my signature (1) is the actual fenestration product installed; (2) is equivalent to or more efficient than that specified in the certificate or compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings; and (3) the product meets or exceeds the appropriate requirements for manufactured devices (from Part 6), where applicable.

[Signature] 2/22/05
 Items #s _____
 (if applicable)

Insight Glass Inc.
 Installing Subcontractor (Co. Name) OR
 General Contractor (Co. Name) OR Owner
 OR Window Distributor

Items #s _____
 (if applicable) Signature, Date

Installing Subcontractor (Co. Name) OR
 General Contractor (Co. Name) OR Owner
 OR Window Distributor

Items #s _____
 (if applicable) Signature, Date

Installing Subcontractor (Co. Name) OR
 General Contractor (Co. Name) OR Owner
 OR Window Distributor

COPY TO: Building Department
 HERS Provider (if applicable)
 Building Owner at Occupancy

July 1, 1999

Compliance Forms