Application

BUILT BY (if different than applicant) PARTICIPANT INFORMATION Company Name: Company Name: Contact Name: Contact Name: Address: Address: City: City: State: Zip: State: Zip: Phone: PANELS MANUFACTURED BY (members only) Fax: Company Name: Email: Website: **DESIGNED BY** (if different than applicant – SIPA will only recognize members) Company Name: **CATEGORY ENTRY** (check one category) Contact Name: ☐ Single Family Homes (over 3,000 sq. ft.) Address: ☐ Single Family Homes (under 3,000sq ft.) ☐ Multi-Family City: □ Agricultural Zip: State: ☐ Institutional / Industrial / Commercial □ Renovations PLEASE ANSWER EACH QUESTION WITH AS MUCH DETAIL AS **PROJECT INFORMATION** POSSIBLE TO HELP IN THE JUDGING PROCESS Project Name: Describe the end use of the building (attach additional pages if necessary) Address: City: State: Zip: Date completed: How did SIP construction help you get this job? Total cost of project (exclusive of land): Dimensions of building (all floors of multi-story building):

Continued

Specify unique features of why the project is deserving of recognition (new construction	OPTIONAL		
techniques, customer problems solved, time / labor savings, financial savings, etc.)	$\hfill \square$ I have enclosed photographs that display different stages of the building project		
	$\ \square$ I have enclosed a floor plan drawing (no larger than 17" x 22" in size)		
	$\hfill \square$ I have enclosed a letter from the building owner regarding the building project		
	$\hfill \square$ I have enclosed a list of local publications (name and full contact information) for		
What energy-efficient or green building products and / or techniques were incorporated into the building? Please list any local or national energy-efficient or green building certifications earned (ENERGY STAR, LEED, Built Green, etc.)?	press release distribution		
HERS Index:	PLEASE CONFIRM: I have read and understand the rules for this competition. This entry is structural insulated panel construction as defined in the SIPA Building Excellence Awards guidelines. I understand by making this submission that my pictures will be used by the Structural Insulated Panel Association (SIPA) to promote the use of structural insulated panels. I hereby give permission to SIPA to use the enclosed pictures for any use they see fit in that endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.		
Which elements of the building (floors, walls, roof) were built with structural insulated	Signature:		
panels? What thicknesses of SIPs were used?	Date:		
	Entries received that do not contain all required materials will		
	be returned.		
Comments you would like in a news release on this building?	Entries received after Tuesday, March 1, 2011 will not be considered		
	Complete and return to the SIPA office:		
	P.O. Box 1699 Gig Harbor, WA 98335		
	For FedEx or UPS Deliveries ONLY:		
CHECKLIST	6659 Kimball Drive NW, D-404		
$\hfill\square$ My company is a SIPA member. Panels for this project were manufactured by a	Gig Harbor, WA 98335		
SIPA member.	253.858.7472		
☐ I have answered ALL the questions completely.			
☐ I have enclosed the two required electronic images as defined in the SIPA Building Excellence Awards guidelines.	FOR OFFICE USE ONLY		
Ç	Entry Number Date Received		

2011 SIPA Building Excellence Awards

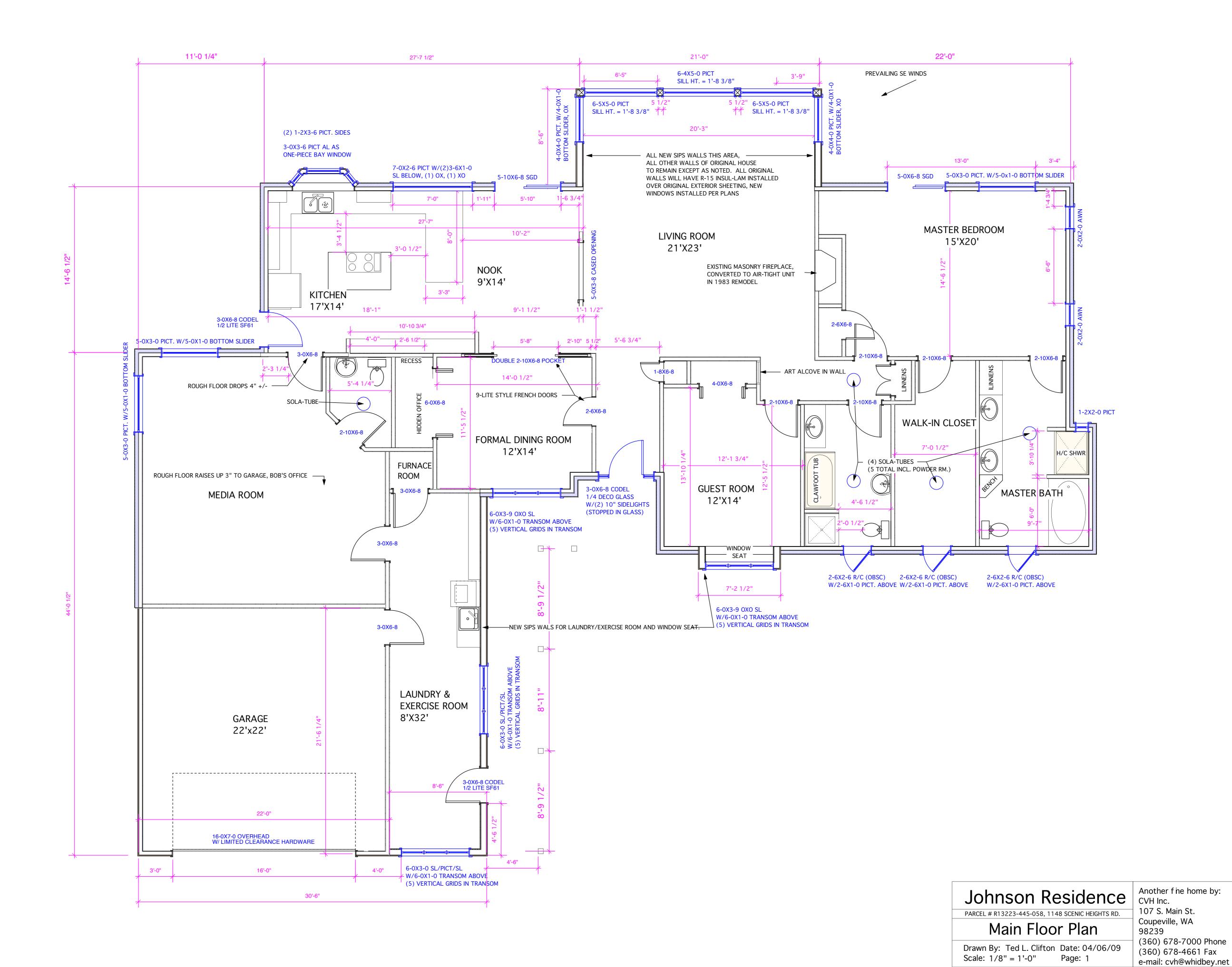


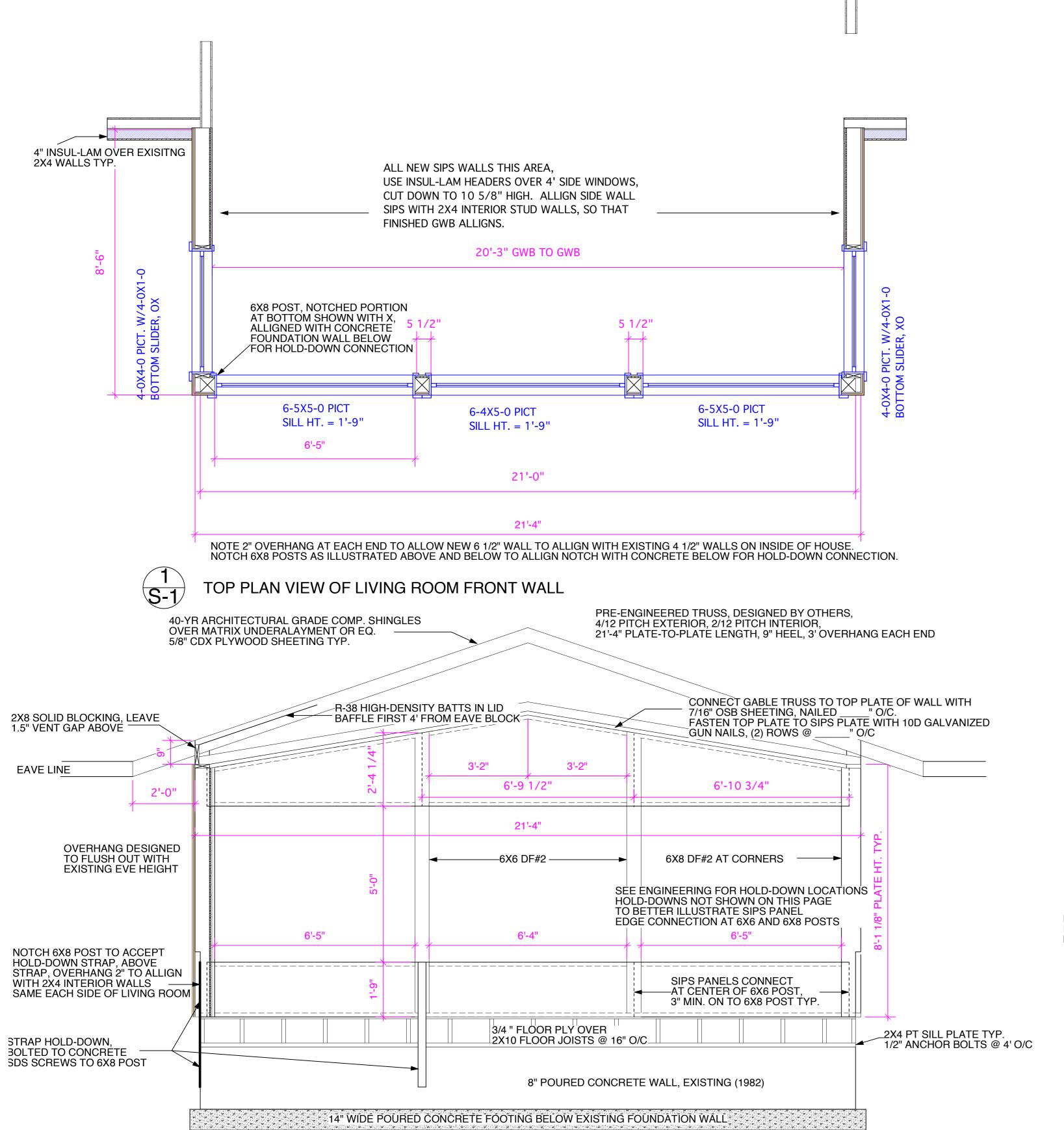




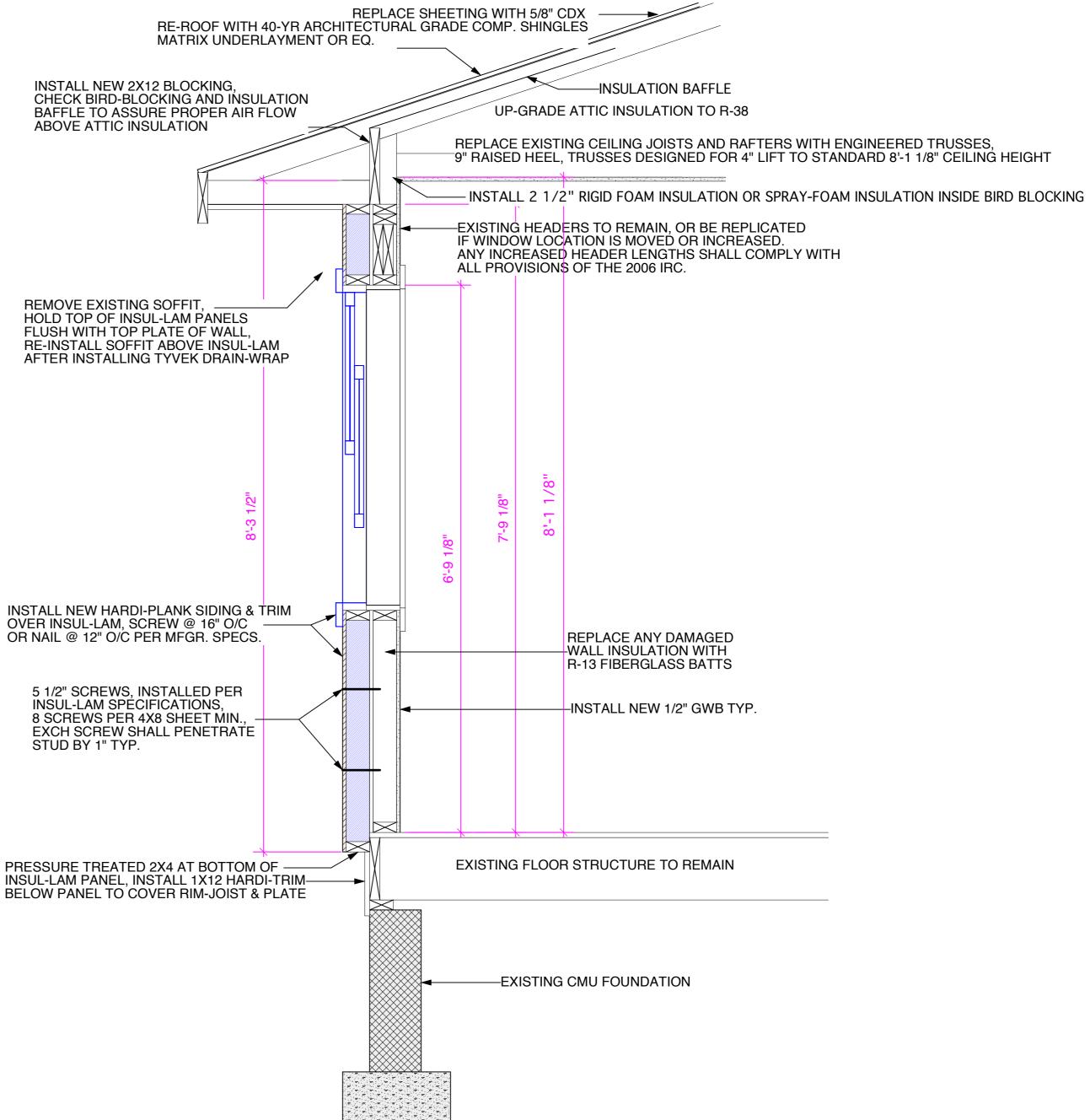




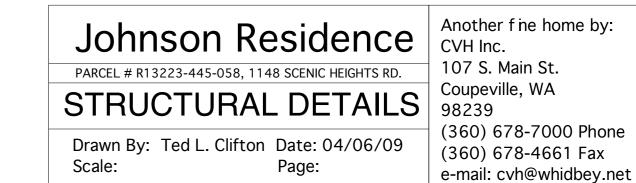








TYPICAL WALL SECTION WITH INSUL-LAM SCALE: 1/2" = 1'-0"



ACTION REPORT

Date: March 29, 2010 Rating No.: 1

Building Name: Rating Org.: Johnson Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Property: 1144 Scenic View Heights Rater's Name: Robert Stockmann Oak Harbor, WA 98277 Rater's No.: WAHERS004 Address:

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit
File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

The following table identifies and ranks energy use and cost by building component. A maximum of six components are shown. Current mechanical equipment is assumed for this analysis. To determine the impact of varying the equipment efficiency, change the equipment specified in the building file and perform the energy calculations again.

ANNUAL ENERGY PROFILE

Energy End-Use	Component	Consumption	Cost
		(MMBtu/yr)	(\$/yr)
HEATING	Mechanical Ventilation	7.6	\$ 192
	Infiltration	6.1	\$ 153
	Above Grade Walls	4.3	\$ 109
	Crawl Space/Unht Bsmt	4.1	\$ 103
	Ceilings/Roofs	3.2	\$ 81
	Windows/Skylights	2.1	\$ 52
	Other	-4.5	\$ -114
	Total	22.8	\$ 577
WATER HEATING	Water Heater	11.5	\$ 294
LIGHTS & APPLIANCES	Lights & Appliances	29.4	\$ 748

ACTION REPORT

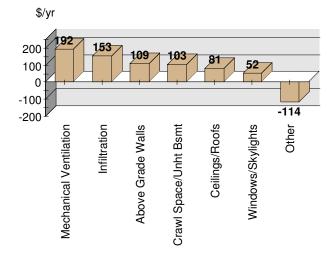
Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann WAHERS004 Address: Oak Harbor, WA 98277 Rater's No.:

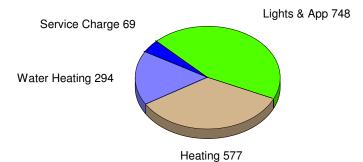
Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Heating Cost (\$/yr)



Annual Energy Cost (\$/yr)



Total 1688

AIR LEAKAGE REPORT

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections

Owner's Name: Johnson Phone No.: 360-920-4234

Property: 1144 Scenic View Heights Rater's Name: Robert Stockmann

Address: Oak Harbor, WA 98277 Rater's No.: WAHERS004

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Whole House Infiltration

	Blower door test		
	Heating	Cooling	
Natural ACH:	0.22	0.21	
ACH @ 50 Pascals:	5.25	5.25	
CFM @ 25 Pascals:	1424	1424	
CFM @ 50 Pascals:	2234	2234	
Eff. Leakage Area:	122.7	122.7	
Specific Leakage Area:	0.00029	0.00029	
ELA/100 sf shell:	1.43	1.43	

Total Duct Leakage to Outside

CFM @ 25 Pascals:	N/A
CFM25 / CFMfan:	N/A
CFM25 / CFA:	N/A
CFM per Std 152:	N/A
CFM per Std 152 / CFA:	N/A
CFM @ 50 Pascals:	N/A
Eff. Leakage Area:	N/A
Thermal Efficiency:	0.00

Ventilation

Mechanical:	Balanced
Sensible Recovery Eff. (%):	0.0
Total Recovery Eff. (%):	0.0
Rate (cfm):	240
Hours/Day:	12.0
Fan Watts:	110.0
Cooling Ventilation:	Natural Ventilation

ASHRAE 62.2 - 2003 Ventilation Requirements

For this home to comply with ASHRAE Standard 62.2 - 2003 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential cfm of mechanical ventilation must be provided continuously, 24 hours per day. Alternatively, an intermittently operating mechanic be used if the ventilation rate is adjusted accordingly. For example, a 103 cfm mechanical ventilation system would need to operat long as the system operates to provide required average ventilation once each hour.

File Name: CVH-Johnson 5.25 ACH50.blg Date: March 29, 2010

Property/Builder:		Rating	
Building Name:	Johnson	Org. Name:	Pinnacle Inspections
Owner's Name:	Johnson	Address:	370 N East Camano Drive #5208
Property Address:	1144 Scenic View Heights	City, St, Zip:	Camano Island, WA 98282
City, St, Zip:	Oak Harbor, WA 98277	Phone No:	360-920-4234
Phone No:		Website:	www.pinnacleinspection.com
		Rater's Name:	Robert Stockmann
Builder's Name:	CVH	Rater's Email:	robert@pinnacleinspection.com
Phone No:	360-678-7000	Rater's No.:	WAHERS004
Email Address:	ted@zero-energyplans.com		
Model:		Rating Date:	3.15.10
Development:		Rating Type:	Site Visit
		Reason:	New Home
		Rating No.:	1

General Building Information

Area of Cond. Space(sq ft):

Volume of Cond. Space:

2908

25535

Year Built:

2009

Housing Type: Single-family detached

Level Type(Apartments Only):

Floors on or Above-Grade:

Number of Bedrooms:

2

Foundation Type: Enclosed crawl space

Enclosed Crawl Space Type: Vented
Thermal Boundary Location: REM Default

Name
Library Type Uninsulated0*
Length(ft) 230.0
Total Height(ft) 3.0
Depth Below Grade(ft) 2.0
Height Above Grade(ft) 1.0
Location Enclsd crwl->amb/grnd
Uo Value 0.405

Johnson Page 2

Foundation Wall: Uninsulated0*

Type: Solid concrete or stone

Thickness(in): 8.0 Studs: None

Interior Insulation:

Continuous R-Value: 0.0
Frame Cavity R-Value: 0.0
Cavity Insulation Grade: 1.0

Ins top: 0.0 ft from top of wall
Ins Bottom: 0.0 ft from bottom of wall

Exterior Insulation:

R-Value: 0.0

Ins top: 0.0 ft from top of wall Ins bottom: 0.0 ft below grade

Note:

Frame Floor Info:	1	2	3
Name	Crawlspace	Under Slab	Additions
Library Type	R-30 Main Floor*	R-20 XPS Floor	R-25
Area (sq ft)	2158	256	494
Location	Btwn cond & enclsd crwl	Btwn cond & ambient	Btwn cond & ambient
Uo Value	0.037	0.043	0.040

Johnson Page 3

Frame Floor: R-30 Main Floor* Information From Quick Fill Screen: Continous Insulation R-Value 0.0 Cavity Insulation R-Value 30.0 Cavity Insulation Thickness (in.) 12.0 Cavity Insulation Grade 2.0 Joist Size (w x h, in) 1.5 x 12.0 Joist Spacing (in oc) 16.0 Framing Factor - (default) 0.1300 Floor Covering **CARPET**

Note:

Layers	Paths		
	Cavity	Framing	Grade
Inside Air Film	0.920	0.920	0.920
Floor covering	1.230	1.230	1.230
Subfloor	0.820	0.820	0.820
Cavity ins	30.000	0.000	0.000
Continuous ins	0.000	0.000	0.000
Framing	0.000	15.000	0.000
	0.000	0.000	0.000
Outside Air Film	0.920	0.920	0.920
Total R-Value	33.890	18.890	3.890
U-Value	0.030	0.053	0.257
Relative Area	0.850	0.130	0.020
UA	0.025	0.007	0.005

Total Component UA: 0.037 Total Component Area: 1.0

Johnson Page 4

Frame Floor: R-20 XPS Floor Information From Quick Fill Screen: 20.0 Continous Insulation R-Value 0.0 Cavity Insulation R-Value Cavity Insulation Thickness (in.) 4.0 Cavity Insulation Grade 1.0 Joist Size (w x h, in) 1.5 x 4.0 Joist Spacing (in oc) 48.0 Framing Factor - (default) 0.0675 Floor Covering TILE

Note: 4" XPS Floor System-Rigid Under Slab

Layers	Paths		
	Cavity	Framing	Grade
Inside Air Film	0.920	0.920	0.920
Floor covering	0.050	0.050	0.050
Subfloor	0.820	0.820	0.820
Cavity ins	0.000	0.000	0.000
Continuous ins	20.000	20.000	20.000
Framing	0.000	5.000	0.000
	0.000	0.000	0.000
Outside Air Film	0.920	0.920	0.920
Total R-Value	22.710	27.710	22.710
U-Value	0.044	0.036	0.044
Relative Area	0.933	0.068	0.000
UA	0.041	0.002	0.000

Total Component UA: 0.043
Total Component Area: 1.0

Johnson Page 5

Frame Floor: R-25	
Information From Quick Fill Screen:	
Continous Insulation R-Value	0.0
Cavity Insulation R-Value	25.0
Cavity Insulation Thickness (in.)	8.5
Cavity Insulation Grade	1.0
Joist Size (w x h, in)	1.5 x 8.5
Joist Spacing (in oc)	16.0
Framing Factor - (default)	0.1300
Floor Covering	HARDWOOD

Note:

Layers	Paths		
	Cavity	Framing	Grade
Inside Air Film	0.920	0.920	0.920
Floor covering	0.680	0.680	0.680
Subfloor	0.820	0.820	0.820
Cavity ins	25.000	0.000	0.000
Continuous ins	0.000	0.000	0.000
Framing	0.000	10.625	0.000
	0.000	0.000	0.000
Outside Air Film	0.920	0.920	0.920
Total R-Value	28.340	13.965	3.340
U-Value	0.035	0.072	0.299
Relative Area	0.870	0.130	0.000
UA	0.031	0.009	0.000

Total Component UA: 0.040 Total Component Area: 1.0

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Rim and Band Joist:	1	
Name	Band Joist	
Area(sq ft)	240.0	
Continuous Ins	20.0	
Framed Cavity Ins	21.0	
Cavity Ins Thk(in)	10.0	
Joist Spacing	16.0	
Location	Cond -> ambient	
Uo Value	0.023	
Above-Grade Wall:	1	2
Name	R-13 + NB	
Library Type	R-13 + 4" NB	R-13
Gross Area(sq ft)	2184.00	344.00
Exterior Color	Medium	Medium
Location	Cond -> ambient	Cond -> garage
Uo Value	0.030	0.085

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Above-Grade Wall: R-13 + 4" NB Information From Quick Fill Screen: Standard Wood Frame Continuous Insulation (R-Value) 20.0 Frame Cavity Insulation (R-Value) 13.0 Frame Cavity Insulation Thickness (in) 3.5 Frame Cavity Insulation Grade 1 Stud Size (w x d, in) 1.5 x 3.5 Stud Spacing (in o.c.) 16.0 Framing Factor - (default) 0.2300 Gypsum Thickness (in) 0.5

Note: R-13 Fiberglass Stud + 4"XPS Nail Base Exterior Skin

Layers	Paths		
	Cavity	Framing	Grade
Inside Air Film	0.680	0.680	0.680
Gyp board	0.450	0.450	0.450
Air Gap/Frm	0.000	0.000	0.000
Cavity ins/Frm	13.000	4.375	1.030
Continuous ins	20.000	20.000	20.000
Ext Finish	0.940	0.940	0.940
	0.000	0.000	0.000
Outside Air Film	0.170	0.170	0.170
Total R-Value	35.240	26.615	23.270
U-Value	0.028	0.038	0.043
Relative Area	0.770	0.230	0.000
UA	0.022	0.009	0.000

Total Component UA: 0.030 Total Component Area: 1.0

Johnson Page 8

Above-Grade Wall: R-13 Information From Quick Fill Screen: Standard Wood Frame Continuous Insulation (R-Value) 0.0 Frame Cavity Insulation (R-Value) 13.0 Frame Cavity Insulation Thickness (in) 3.5 Frame Cavity Insulation Grade 1 Stud Size (w x d, in) 1.5 x 3.5 Stud Spacing (in o.c.) 16.0 Framing Factor - (default) 0.2300 Gypsum Thickness (in) 0.5

Note:

Layers	Paths	
	Cavity	Framing
Inside Air Film	0.680	0.680
Gyp board	0.450	0.450
Cavity ins/Frm	13.000	4.375
Continuous ins	0.000	0.000
Ext Finish	0.940	0.940
	0.000	0.000
	0.000	0.000
Outside Air Film	0.170	0.170
Total R-Value	15.240	6.615
U-Value	0.066	0.151
Relative Area	0.770	0.230
UA	0.051	0.035

Total Component UA: 0.085
Total Component Area: 1.0

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Window Information:	1	2	3
Name	North	South	West
Library Type	Insulate	Insulate	Insulate
U-Value	0.280	0.280	0.280
SHGC	0.440	0.440	0.440
Area(sq ft)	15.00	8.00	112.00
Orientation	North	South	West
Overhang Depth	2.0	2.0	2.0
Overhang To Top	1.0	1.0	1.0
Overhang To Bottom	5.0	5.0	5.0
Interior Winter Shading	1.00	1.00	1.00
Interior Summer Shading	1.00	1.00	1.00
Adjacent Winter Shading	Most	None	None
Adjacent Summer Shading	Most	None	None
Wall Assignment	AGWall 1	AGWall 1	AGWall 1
Window Information:	4		
Name	East		
Library Type	Insulate		
U-Value	0.280		
SHGC	0.440		
Area(sq ft)	260.00		
Orientation	East		
Overhang Depth	2.0		
Overhang To Top	1.0		
Overhang To Bottom	5.0		
Interior Winter Shading	1.00		
Interior Summer Shading	1.00		
Adjacent Winter Shading	None		
Adjacent Summer Shading	None		
Wall Assignment	AGWall 1		
Window: Insulate			
U-Value:		0.280	
Solar Heat Gain Coefficient:		0.440	
Note:			

Door Information:	1	2	3
Name	Front	Side Entrance	Garage Entrance
Opaque Area(sq ft)	28.0	21.0	21.0
Library Type	R-5	R-5	R-5
Wall Assignment	AGWall 1	AGWall 1	AGWall 2
Uo Value	0.168	0.168	0.168

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Door: R-5

R-Value of Opaque Area: 5.0 Storm Door: No

Note:

Roof Information:	1	2	
Name		Main	
Library Type	R-38, Vault, gr. II	R-50 Blown, Attic*	
Gross Area(sq ft)	473.00	2435.00	
Color	Medium	Medium	
Radiant Barrier	No	No	
Type(Attic)	Vaulted	Attic	
Uo Value	0.035	0.020	

Johnson Page 11

Ceiling: R-38, Vault, gr. II	
Information From Quick Fill Screen:	
Continous Insulation (R-Value)	0.0
Cavity Insulation (R-Value)	38.0
Cavity Insulation Thickness (in)	12.5
Cavity Insulation Grade	2.0
Gypsum Thickness (in)	0.500
Bottom Chord/Rafter Size(w x h, in)	1.5 x 14.0
Bottom Chord/Rafter Spacing (in o.c.)	24.0
Framing Factor - (default)	0.1100
Ceiling Type	Vaulted

Note:

Layers	Paths		
	Framing	Cavity	Grade
Inside Air Film	0.610	0.610	0.610
Gyp board	0.450	0.450	0.450
Cavity Ins/Frm	15.625	38.000	0.000
Continuous ins	0.000	0.000	0.000
Plywood	0.930	0.930	0.930
Shingles	0.400	0.400	0.400
	0.000	0.000	0.000
Outside Air Film	0.170	0.170	0.170
Total R-Value	18.185	40.560	2.560
U-Value	0.055	0.025	0.391
Relative Area	0.110	0.870	0.020
UA	0.006	0.021	0.008

Total Component UA: 0.035 Total Component Area: 1.0

Page 12 Johnson

Ceiling: R-50 Blown, Attic* Information From Quick Fill Screen: 37.0 Continous Insulation (R-Value) 13.0 Cavity Insulation (R-Value) Cavity Insulation Thickness (in) 3.5 Cavity Insulation Grade 1.0 Gypsum Thickness (in) 0.500 Bottom Chord/Rafter Size(w x h, in) 1.5 x 3.5 Bottom Chord/Rafter Spacing (in o.c.) 24.0 Framing Factor - (default) 0.1100 Ceiling Type Attic

Note:

Layers	Paths	
	Framing	Cavity
Inside Air Film	0.610	0.610
Gyp board	0.450	0.450
Cavity Ins/Frm	4.375	13.000
Continuous ins	37.000	37.000
	0.000	0.000
	0.000	0.000
	0.000	0.000
Outside Air Film	0.610	0.610
Total R-Value	43.045	51.670
U-Value	0.023	0.019
Relative Area	0.110	0.890
UA	0.003	0.017

Total Component UA: 0.020 Total Component Area: 1.0

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Skylight Information:	1	2	
Name	Lite Tubes	Lite Tubes	
Library Type	Sola-Tube w/Air Kit	Sola-Tube w/Air Kit	
U-Value	0.200	0.200	
SHGC	0.280	0.280	
Area(sq ft)	2.0	2.0	
Winter Shading	None	None	
Summer Shading	None	None	
Orientation	Southwest	Northeast	
Pitch[?/12]	5	5	
Ceiling Assignment	Roof 2	Roof 1	
Window: Sola-Tube w/Air Kit			
U-Value:		0.200	
Solar Heat Gain Coefficient:		0.280	
Note:		Sola-Tube w/ Air Tight Kit	
Mechanical Equipment: General			
Number of Mechanical Systems:		4	
Heating SetPoint(F):		68.00	
Heating Setback Thermostat:		Present	
Cooling SetPoint(F):		78.00	
Cooling Setup Thermostat:		Present	
Heat: Fujitsu D-MiniHP AOU			
SystemType:		Air-source heat pump	
Fuel Type:		Electric	
Rated Output Capacity (kBtuh):		37.2	
Seasonal Equipment Efficiency:		9.0 HSPF	
Desuperheater:		No	
Note:		AOU36RML1	
Location:		Conditioned area	

100

50

1

Performance Adjustment:

Percent Load Served:

Number Of Units:

Johnson Page 14

Heat: Fujitsu D-MiniHP AOU

SystemType: Air-source heat pump

Fuel Type: Electric
Rated Output Capacity (kBtuh): 37.2
Seasonal Equipment Efficiency: 9.0 HSPF

Desuperheater: No

Note: AOU36RML1 Location: Conditioned area

Performance Adjustment: 100
Percent Load Served: 50
Number Of Units: 1

Water Heating Equipment: 50 gal. 0.91EF Elec

Water Heater Type:

Fuel Type:

Energy Factor:

Recovery Efficiency:

Water Tank Size (gallons):

Extra Tank Insulation (R-Value):

Conventional

Electric

0.91

0.98

50

0.0

Note:

Location: Conditioned area

Percent Load Served: 50
Performance Adjustment: 100
Number Of Units: 1

Water Heating Equipment: 50 gal. 0.91EF Elec

Water Heater Type:

Fuel Type:

Energy Factor:

Conventional
Electric

0.91

Recovery Efficiency:

0.98

Water Tank Size (gallons):

Extra Tank Insulation (R-Value):

0.00

Note:

Location: Conditioned area

Percent Load Served: 50
Performance Adjustment: 100
Number Of Units: 1

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Infiltration and Mechanical Ventilation

Whole House Infiltration

Measurement Type: Blower door test

Heating Season Infiltration Value: 5.25 ACH @ 50 Pascals Cooling Season Infiltration Value: 5.25 ACH @ 50 Pascals

2009 IECC Verification: Tested

Mechanical Ventilation for IAQ

Type: Balanced
Rate(cfm): 240
Sensible Recovery Efficiency(%): 0.00
Total Recovery Efficiency(%): 0.00
Hours per Day: 12.00
Fan Power (watts): 110.00

Ventilation Strategy for Cooling

Cooling Season Ventilation: Natural Ventilation

Lights and Appliances

Simplified Audit

Oven/Range Fuel Type: Electric
Clothes Dryer Fuel Type: Electric
Percent Fluorescent - Pin-Based: 0.00
Percent Fluorescent - CFL: 100.00
Refrigerator KWh: 571
Dishwasher EF: 1.30
Ceiling Fan CFM / Watt: 70.40

BUILDER'S AFFIDAVIT

Property/Builder:

Property Address	Johnson		
City,St,Zip:			
Phone No.:			
Builder's Name:	CVH		
Model:			
Development:			
Phone No.:	360-678-7000		
Rating Date:	3.15.10		
Rating No.:	1		
	IMPORTANT NOTICE T	O BUILDER	
Home. Builder agrees t for the benefit of the HE obligations to Builder or	fidavit that all components listed in the opermit home energy rating system (RS Provider's and/or Rater's interest. any subsequent owner. Builder is res	Building File Report are accurate and incorporate HERS) Provider and/or Rater, to randomly verify c The HERS Provider and Rater do not create or in sponsible for making any inspections to protect Build, from the HERS Provider or Rater as to this Ne	
Home. Builder agrees to for the benefit of the HE obligations to Builder or There is no GUARANTE	fidavit that all components listed in the opermit home energy rating system (RS Provider's and/or Rater's interest. any subsequent owner. Builder is reset or WARRANTY, expressed or implement	Building File Report are accurate and incorporate HERS) Provider and/or Rater, to randomly verify c The HERS Provider and Rater do not create or in sponsible for making any inspections to protect Bu	
Home. Builder agrees to for the benefit of the HE obligations to Builder or There is no GUARANTE	fidavit that all components listed in the opermit home energy rating system (RS Provider's and/or Rater's interest. any subsequent owner. Builder is reset or WARRANTY, expressed or implement	Building File Report are accurate and incorporate HERS) Provider and/or Rater, to randomly verify contract The HERS Provider and Rater do not create or insponsible for making any inspections to protect Building from the HERS Provider or Rater as to this Ne	
Home. Builder agrees to for the benefit of the HE obligations to Builder or There is no GUARANTE	fidavit that all components listed in the opermit home energy rating system (RS Provider's and/or Rater's interest. any subsequent owner. Builder is reset or WARRANTY, expressed or implement	Building File Report are accurate and incorporate HERS) Provider and/or Rater, to randomly verify c The HERS Provider and Rater do not create or in sponsible for making any inspections to protect Build, from the HERS Provider or Rater as to this Ne	
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Home. Builder agrees to for the benefit of the HE obligations to Builder or There is no GUARANTE	fidavit that all components listed in the opermit home energy rating system (RS Provider's and/or Rater's interest. any subsequent owner. Builder is reset or WARRANTY, expressed or implement	Building File Report are accurate and incorporate HERS) Provider and/or Rater, to randomly verify c The HERS Provider and Rater do not create or in sponsible for making any inspections to protect Build, from the HERS Provider or Rater as to this Ne	

COMPONENT CONSUMPTION SUMMARY

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann Rater's No.: WAHERS004 Address: Oak Harbor, WA 98277

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Johnson HEATING SEASON (MMBtu/yr) Ceilings/Roofs 3.2 0.3 Rim/Band Joists Above Grade Walls 4.3 Foundation Walls 0.0 Doors 0.6 Windows/Skylights 2.1 Frame Floors 1.8 Crawl Space/Unht Bsmt 4.1 Slab Floors 0.0 Infiltration 6.1 Mechanical Ventilation 7.6 Ducts 0.0 Active Solar 0.0 Sunspace 0.0 Internal Gains -7.3 Total 22.8

COMPONENT CONSUMPTION SUMMARY

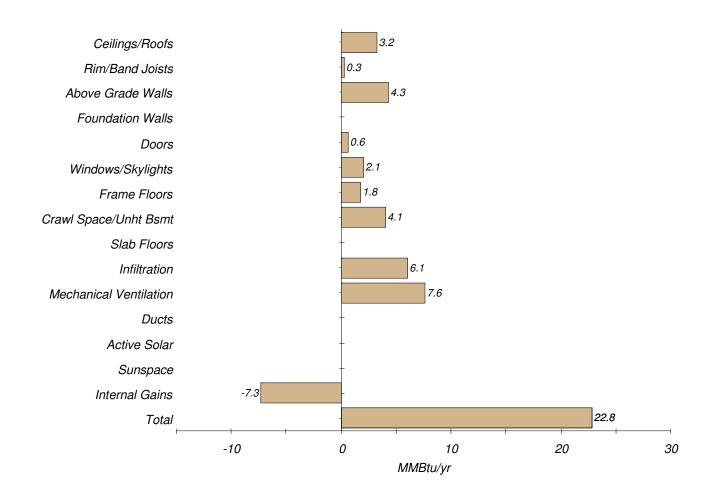
Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann Address: Oak Harbor, WA 98277 Rater's No.: WAHERS004

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Heating Season



COMPONENT LOAD SUMMARY

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann Rater's No.: WAHERS004 Address: Oak Harbor, WA 98277

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Johnson HEATING SEASON (MMBtu/yr) Ceilings/Roofs 7.5 Rim/Band Joists 8.0 Above Grade Walls 10.1 Foundation Walls 0.0 Doors 1.5 Windows/Skylights 4.9 Frame Floors 4.3 Crawl Space/Unht Bsmt 9.5 Slab Floors 0.0 Infiltration 14.2 Mechanical Ventilation 17.8 Ducts 0.0 Active Solar 0.0 Sunspace 0.0 Internal Gains -17.1 Total 53.5

COMPONENT LOAD SUMMARY

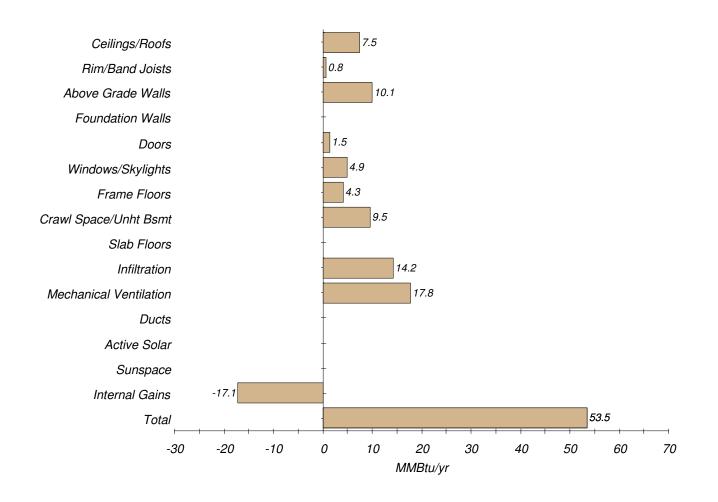
Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann Address: Oak Harbor, WA 98277 Rater's No.: WAHERS004

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Heating Season



COMPONENT DESIGN LOAD SUMMARY

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Robert Stockmann Property: 1144 Scenic View Heights Rater's No.: WAHERS004 Address: Oak Harbor, WA 98277

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Johnson

HEATING (KBtu/Hr)	
Ceilings/Roofs	2.7
Rim/Band Joists	0.2
Above Grade Walls	3.3
Foundation Walls	0.0
Doors	0.5
Windows/Skylights	4.8
Frame Floors	1.3
Crawl Space/Unht Bsmt	3.0
Slab Floors	0.0
Infiltration	4.5
Mechanical Ventilation	5.6
Ducts	0.0
Active Solar	0.0
Sunspace	0.0
Internal Gains	0.0
Total	26.1

Johnson

COMPONENT DESIGN LOAD SUMMARY

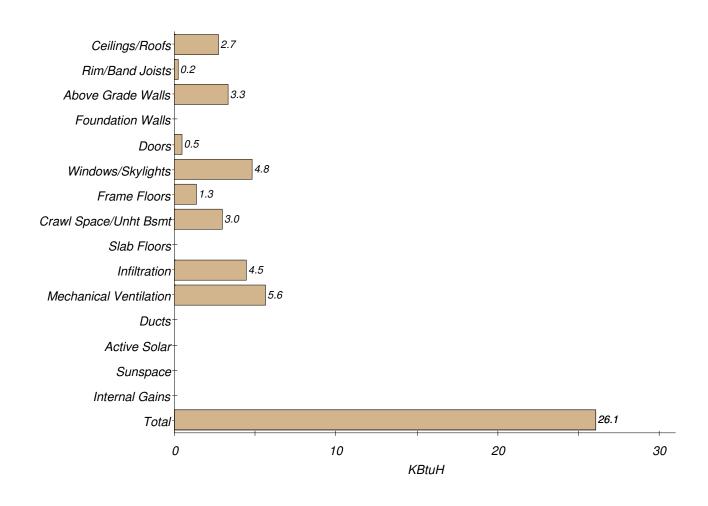
Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann WAHERS004 Address: Oak Harbor, WA 98277 Rater's No.:

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Heating



Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections

Owner's Name: Johnson Phone No.: 360-920-4234

Property: 1144 Scenic View Heights Address: Oak Harbor, WA 98277

Rater's Name: Robert Stockmann WAHERS004

Rater's No.:

Builder's Name: CVH Weather Site:

Rating Type: Site Visit

File Name: CVH-Johnson 5.25 ACH50.blg

Whidbey Island, WA

Rating Date: 3.15.10

Johnson

Annual	Energy	Cost	(\$/\	/r)

Electric	\$ 1619
Annual End-Use Cost (\$/yr)	
Heating	\$ 577
Cooling	\$ 0
Water Heating	\$ 294
Lights & Appliances	\$ 748
Photovoltaics	\$ -0
Service Charges	\$ 69
Total	\$ 1688

Annual End-Use Consumption

Heating (kWh)	6688
Water Heating (kWh)	3377
Lights & Appliances (kWh)	8602

Annual Energy Demands (kW)

Ailliudi Ellergy Dellialius (KW)	
Heating	8.8
Cooling	0.0
Water Heating (Winter Peak)	0.8
Water Heating (Summer Peak)	0.6
Lights & Appliances (Winter Peak)	0.8
Lights & Appliances (Summer Peak)	2.6
Total Winter Peak	10.4
Total Summer Peak	3.2

Utility Rates:

Electricity: Electric 2010

ENERGY COST AND FEATURE REPORT

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann Rater's No.: Oak Harbor, WA 98277 WAHERS004 Address:

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Johnson

ANNUAL ENERGY COSTS

Heating	\$ 577
Cooling	\$ 0
Water Heating	\$ 294
Lights & Appliances	\$ 748
Photovoltaics	\$ -0
Service Charges	\$ 69
Total	\$ 1688
Average Monthly	\$ 141

ENERGY FEATURES

Ceiling w/Attic: R-50 Blown, Attic* U=0.020
Vaulted Ceiling: R-38, Vault, gr. II U=0.035
Above Grade Walls: R-13 + 4" NB U=0.030

Foundation Walls (Cond):

Found. Walls (Uncond):

Doors:

Windows:

None

Uninsulated

R-5 U=0.168

Insulate U=0.280

Frame Floors: R-30 Main Floor* U=0.037

Slab Floors: None

Infiltration: Htg: 5.25 Clg: 5.25 ACH50

Infilt. Measure: Blower door test

Mechanical Ventilation: Balanced: 240 cfm, 110.0 watts.

Interior Mass: None

Mech Equip List: Heating: Air-source heat pump, 37.2 kBtuh, 9.0 HS

Heating: Air-source heat pump, 37.2 kBtuh, 9.0 HS Water Heating: Conventional, Elec, 0.91 EF. Water Heating: Conventional, Elec, 0.91 EF.

REM/Rate - Residential Energy Analysis and Rating Software v12.82

ENERGY COST AND FEATURE REPORT

Johnson Page 2

Programmable Thermostat: Heat=Yes; Cool=Yes

Ducts: NA
Duct Leakage: NA
Lights/Appliances: Defaults
Active Solar: None
Photovoltaics: None
Sunspace: No

Notes: Where feature level varies in home, the dominant value is shown.

	EQUIPM	IENT SIZING SUMMAF	RY
Date:	March 29, 2010	Rating No.:	1
Building Name:	Johnson	Rating Org.:	Pinnacle Inspections
Owner's Name:	Johnson	Phone No.:	360-920-4234
Property:	1144 Scenic View Heights	Rater's Name:	Robert Stockmann
Address:	Oak Harbor, WA 98277	Rater's No.:	WAHERS004
Builder's Name:	CVH		
Weather Site:	Whidbey Island, WA	Rating Type:	Site Visit
File Name:	CVH-Johnson 5.25 ACH50.blg	Rating Date:	3.15.10
		Jo	hnson
HEATING			
Calculated Peak			26.1
Sizing Factor (%	(a)		100.0
HEATING EQUI	IPMENT CAPACITY (kBtu/hr)		
Required			26.1
Specified			74.4
COOLING			
Calculated Peak	Load (kBtu/hr)		0.0
Sensible			0.0
Latent			0.0
Sizing Factor (%	6)		0.0
COOLING EQU	IPMENT CAPACITY (kBtu/hr)		
Required Total	al		0.0
Specified Total	al		0.0
Required Sen			0.00
Specified Ser	nsible		0.00

0.00

0.00

Required Latent

Specified Latent

LIGHTS AND APPLIANCES SUMMARY

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann Rater's No.: WAHERS004 Address: Oak Harbor, WA 98277

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Johnson

Electric Consumption (kWh/yr)

Lighting	1157.8
Refrigerator	571.0
Freezer	0.0
Dishwasher	44.4
Oven/Range	547.5
Clothes Washer	60.0
Clothes Dryer	600.0
Mechanical Ventilation Fan	481.8
Ceiling Fan	207.6
Other	4931.5
Total	8601.6

Annual Energy Cost (\$/yr)

Lighting	\$ 101
Refrigerator	\$ 50
Freezer	\$ 0
Dishwasher	\$ 4
Oven/Range	\$ 48
Clothes Washer	\$ 5
Clothes Dryer	\$ 52
Mechanical Ventilation Fan	\$ 42
Ceiling Fan	\$ 18
Other	\$ 429
Total	\$ 748

		PERF	ORMANCE SUMMARY	′
Date:	March 29, 2010		Rating No.:	1
Building Name:	Johnson		Rating Org.:	Pinnacle Inspections
Owner's Name:	Johnson		Phone No.:	360-920-4234
Property:	1144 Scenic View Heights		Rater's Name:	Robert Stockmann
Address:	Oak Harbor, WA 98277		Rater's No.:	WAHERS004
Builder's Name:	CVH			
Weather Site:	Whidbey Island, WA		Rating Type:	Site Visit
File Name:	CVH-Johnson 5.25 ACH50.blg		Rating Date:	3.15.10
			Johnson	
Annual Load (MI	MBtu/yr)			
Heating			53.5	
Cooling			0.0	
Water Heating			11.3	
Annual Consum	ption (MMBtu/yr)			
Heating			22.8	
Cooling			0.0	
Water Heating			11.5	
Lights & Applian	ices		29.4	
Photovoltaics			-0.0	
Total			63.7	
Annual Energy C	Cost (\$/yr)			
Heating		\$	577	
Cooling		\$	0	
Water Heating		\$	294	
Lights & Applian	ices	\$	748	
Photovoltaics		\$	-0	
Service Charges	3	\$	69	
Total		\$	1688	
Design Loads (k	Btu/hr)			
Space Heating			26.1	
Space Cooling			0.0	
Utility Rates:				

Electric 2010

Electricity:

PERFORMANCE SUMMARY

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Rater's Name: Property: 1144 Scenic View Heights Robert Stockmann Rater's No.: WAHERS004 Address: Oak Harbor, WA 98277

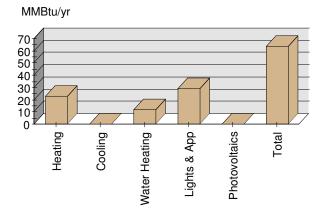
Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Annual Load

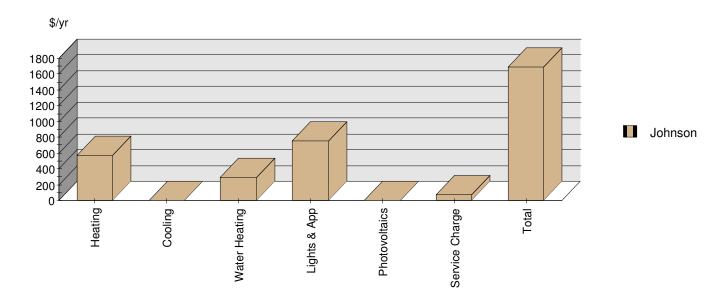
MMBtu/yr 60 50 40 30 20 10 0 Mater Heating

Annual Consumption



Johnson Page 2

Annual Energy Cost



Design Loads

Space Cooling Space Heating Space Space

Utility Rates:

Electricity: Electric 2010

		PERFORI	MANCE FACTORS	
Date:	March 29, 2010		Rating No.:	1
Building Name:	Johnson		Rating Org.:	Pinnacle Inspections
Owner's Name:	Johnson		Phone No.:	360-920-4234
Property:	1144 Scenic View Heights		Rater's Name:	Robert Stockmann
Address:	Oak Harbor, WA 98277		Rater's No.:	WAHERS004
Builder's Name:	CVH			
Weather Site:	Whidbey Island, WA		Rating Type:	Site Visit
File Name:	CVH-Johnson 5.25 ACH50.blg		Rating Date:	3.15.10
		Jo	hnson	
	ds (Btu/sf shell area/DD)			
Heating:			1.18	
Cooling:			0.00	
Normalized Con	sumption (kBtu/sf floor area/yr)			
Heating:			7.8	
Cooling:			0.0	
Water Heati	ng:		4.0	
Lighting:			1.4	
Appliances:			8.7	
Photovoltaic	es:		-0.0	
Total w/o PV	/ :		21.9	
Total:			21.9	
Normalized Con	sumption (Btu/sf floor area/DD)			
Heating:	. ,		1.5	
Cooling:			0.0	
Normalized Cos	ts (\$/sf floor area/yr)			
Heating:	(\$	0.198	
Cooling:		\$	0.000	
Water Heati	ng:	\$	0.101	
Lighting:	-	\$	0.035	
Appliances		\$	0.223	
Photovoltaic	es	\$	-0.000	
Total:		\$	0.557	
Normalized Desi	ign Loads (Btuh/sf shell area/DD)			
Heating:	3		0.0006	
Cooling:			0.0000	

PERFORMANCE FACTORS

Johnson Page 2

Normalization Factors

Floor Area: 2908
Shell Area: 8584
Heating Degree Days (B65): 5274
Cooling Degree Days (B74): 3

SOURCE ENERGY & EMISSIONS REPORT

Date: March 29, 2010 Rating No.: 1

Johnson **Building Name:** Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Property: 1144 Scenic View Heights Rater's Name: Robert Stockmann Oak Harbor, WA 98277 Rater's No.: WAHERS004 Address:

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Source Energy Consumption (MMBtu/year)

All Electric

	Reference Home	As Designed	Difference	% Difference
Heating:	40.5	30.2	-10.4	-25.6%
Cooling:	4.3	1.3	-3.0	-69.8%
Water heating:	16.1	15.0	-1.1	-6.8%
Lights & Appliances:	45.4	37.1	-8.3	-18.3%
Photovoltaics:	0.0	0.0		
Total:	106.2	83.5	-22.7	-21.4%

Total Emissions

All Electric

Type of Emissions	Reference Home	As Designed	Difference	% Difference
Carbon Dioxide (CO2) - tons/year	3.9	3.1	-0.8	-21.4%
Sulfur Dioxide (SO2) - lbs/year	2.2	1.7	-0.5	-21.4%
Nitrogen Oxides (NOx) - lbs/year	10.1	7.9	-2.2	-21.4%

Emissions By End-Use

(All Electric Reference Home versus As Designed)

	CO2-tons/yr		SO2-lbs/yr		NOx-lbs/yr	
	Ref	Des	Ref	Des	Ref	Des
Heating	1.5	1.1	0.8	0.6	3.8	2.9
Cooling	0.2	0.0	0.1	0.0	0.4	0.1
Water Heating	0.6	0.5	0.3	0.3	1.5	1.4
Lights & Appliances	1.7	1.4	0.9	0.8	4.3	3.5
Photovoltaics	0.0	0.0	0.0	0.0	0.0	0.0

The energy and emission values are calculated by comparing the Rated Home to an all-electric version of the Reference Home as defined in the "Mortgage Industry National Home Energy Rating Systems Standards" as promulgated by the Residential Energy Services Network (RESNET). Site-to-source multipliers and air emission data were taken from the US EPA eGRID2007 database.

0.0

EMISSIONS REPORT						
Date:	March 29, 2010	Rating No.:	1			
Building Name:	Johnson	Rating Org.:	Pinnacle Inspections			
Owner's Name:	Johnson	Phone No.:	360-920-4234			
Property:	1144 Scenic View Heights	Rater's Name:	Robert Stockmann			
Address:	Oak Harbor, WA 98277	Rater's No.:	WAHERS004			
Builder's Name:	CVH					
Weather Site:	Whidbey Island, WA	Rating Type:	Site Visit			
File Name:	CVH-Johnson 5.25 ACH50.blg	Rating Date:	3.15.10			
	Tot	al Emissions				
			Johnson			
	Type of Emissions					
	Carbon Dioxide (CO2) - tons/year		3.0			
	Sulfur Dioxide (SO2) - lbs/year		1.7			
	Nitrogen Oxides (NOx) - Ibs/year		7.8			
	Emissi	ons By End-Use				
			Johnson			
	Carbon Dioxide (CO2) - tons/year					
	Heating		1.1			
	Cooling		0.0			
	Water Heating		0.5			
	Lights & Appliances		1.4			
	Photovoltaics		0.0			
	Sulfur Dioxide (SO2) - lbs/year					
	Heating		0.6			
	Cooling		0.0			
	Water Heating		0.3			
	Lights & Appliances		0.8			
	Photovoltaics		0.0			
	Nitrogen Oxide (NOx) - Ibs/year					
	Heating		2.8			
	Cooling		0.0			
	Water Heating		1.4			
	Lights & Appliances		3.6			

Photovoltaics

EMISSIONS REPORT	
Johnson	Page 2
Site-to-source energy multipliers and air emission data were taken from	n the US EPA eGRID2007 database.

2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

March 29, 2010 Date:

Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections

Owner's Name: Johnson Phone No.: 360-920-4234

Property: 1144 Scenic View Heights Rater's Name: Robert Stockmann

Oak Harbor, WA 98277 Address:

Rater's No.: WAHERS004

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type:

Site Visit

File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Normalized, Modified End-Use Loads (MMBtu/year)

Envelope Loads (MMBtu/year)

2004 IECC

2004 IECC

50% Target As Designed 90% Target

As Designed

Heating:

27.5 41.0

Heating: Cooling:

49.5 54.4

Cooling: Total:

3.2 5.3 32.8 44.1

Total:

9.5 4.0 59.0 58.4

This home DOES NOT meet the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Features

Ceiling Flat: R-50

Exposed Floor: R-30, R-20, R-25

Slab: None

Vaulted Ceiling: R-38

Duct: NA

Cooling N/A

Above Grade Walls: R-33, R-13

Window: U-Value = 0.280, SHGC = 0.440

Foundation Walls: R-0.0

Heating: Air-source heat pump, Electric, 9.0 HSPF.

This report provides information useful in determining whether the home qualifies for Energy Efficiency Tax Credits. It is not valid for tax purposes, as homes must be inspected and approved by a certified HERS rater in order to qualify.

			ENERGY CO	DE INSPECTION CHE	CKLIST
Date:	Ma	rch 29, 2010		Rating No.:	1
Building Na	me: Jol	nnson		Rating Org.:	Pinnacle Inspections
Owner's Na	ıme: Jol	nnson		Phone No.:	360-920-4234
Property:	11-	44 Scenic Vie	w Heights	Rater's Name:	Robert Stockmann
Address:	Oa	k Harbor, WA	98277	Rater's No.:	WAHERS004
Builder's Na	ame: CV	'H			
Weather Sit	te: WI	nidbey Island,	WA	Rating Type:	Site Visit
File Name:	CV	H-Johnson 5.	.25 ACH50.blg	Rating Date:	3.15.10
Building Info	ormation:				
Conditioned	d Area (sq	ft):	2908		
Conditioned	d Volume (cubic ft):	25535		
Insulated SI	hell Area (sq ft):	8584		
	Ceilings	::			
[]	1. \	/aulted: R-38,	Vault, gr. II (473 s.f.)		
	F	R-0.0 continuo	ous insulation, R-38.0 cav	rity insulation.	
	١	lame:	Insulation Grade: I	II III Face / I	nset
	(Comments/Loc	cation		
[]	F		wn, Attic* (2435 s.f.) lous insulation, R-13.0 ca Insulation Grade:	=	ce / Inset
	(Comments/Loc	cation		
	Above-0	Grade Walls:			
[]	F		ious insulation, R-13.0 ca	n conditioned space and an avity insulation. arade: I II III	nbient Face / Inset
	,	N / / / / / / / / /	cation		

ENERGY CODE INSPECTION CHECKLIST

Johnson			Page 2
[]	2.	Wall: R-13 (344 s.f.), Between conditioned space and garage R-0.0 continuous insulation, R-13.0 cavity insulation. Name: Insulation Grade: I II III Face / Inset	
		Comments/Location	
		dows and Skylights: dow-to-Wall Area Ratio: 0.16	
[]	1.	Window: Insulate (15 s.f., North), U-Value: 0.280, SHGC: 0.440 For windows without labeled U-factors, describe features: Name: North Orientation: North	
		Comments/Location	
[]	2.	Window: Insulate (8 s.f., South), U-Value: 0.280, SHGC: 0.440 For windows without labeled U-factors, describe features: Name: South Orientation: South	
		Comments/Location	
[]	3.	Window: Insulate (112 s.f., West), U-Value: 0.280, SHGC: 0.440 For windows without labeled U-factors, describe features: Name: West Orientation: West	
		Comments/Location	
[]	4.	Window: Insulate (260 s.f., East), U-Value: 0.280, SHGC: 0.440 For windows without labeled U-factors, describe features: Name: East Orientation: East	
		Comments/Location	
[]	5.	Skylight: Sola-Tube w/Air Kit (2 s.f.), U-Value: 0.200, SHGC: 0.280 For skylights without labeled U-factors, describe features: Name: Lite Tubes Orientation: Southwest	
		Comments/Location	
[]	6.	Skylight: Sola-Tube w/Air Kit (2 s.f.), U-Value: 0.200, SHGC: 0.280	

ENERGY CODE INSPECTION CHECKLIST

Johnson			Page 3
		Name: Lite Tubes Orientation: Northeast	
		Comments/Location	
	Doors	s:	
[]	1.	Door: R-5 (28 s.f.), R-Value 5.0	
		Comments/Location	
[]	2.	Door: R-5 (21 s.f.), R-Value 5.0	
		Comments/Location	
[]	3.	Door: R-5 (21 s.f.), R-Value 5.0	
		Comments/Location	
	Frame	e Floors:	
[]	1.	Floor: R-30 Main Floor* (2158 s.f.), Between conditioned space and enclosed crawl space R-0.0 continuous insulation, R-30.0 cavity insulation. Name: Crawlspace Insulation Grade: I II III Face / Inset	
		Comments/Location_	
[]	2.	Floor: R-20 XPS Floor (256 s.f.), Between conditioned space and ambient conditions R-20.0 continuous insulation, R-0.0 cavity insulation. Name: Under Slab Insulation Grade: I II III Face / Inset	
		Comments/Location	
[]	3.	Floor: R-25 (494 s.f.), Between conditioned space and ambient conditions R-0.0 continuous insulation, R-25.0 cavity insulation. Name: Additions Insulation Grade: I II III Face / Inset	
		Comments/Location	
	Found	dation Walls:	
[]	1.	Wall: Uninsulated0* (690 s.f.), Between enclosed crawl space and ambient/ground R-0.0 interior continuous insulation, R-0.0 interior cavity insulation, R-0.0 exterior insulation. Name: Insulation Grade: I II III Face / Inset	

ENERGY CODE INSPECTION CHECKLIST

Johnson			Page 4
		Comments/Location_	-
	Rim	and Band Joists:	
[]	1.	Joist: Band Joist (240 s.f.), Between conditioned space and ambient R-20.0 continuous insulation, R-21.0 cavity insulation. Name: Band Joist Insulation Grade: I II III Face / Inset	
		Comments/Location	_
	Mec	hanical Equipment:	
[]	1.	Heating: Air-source heat pump, Electric, 9.0 HSPF.	
		Make and Model Number:	
[]	2.	Heating: Air-source heat pump, Electric, 9.0 HSPF.	
		Make and Model Number:	
[]	3.	Water Heating: Conventional, Electric, 0.91 EF, 50.0 Gal.	
		Make and Model Number:	
[]	4.	Water Heating: Conventional, Electric, 0.91 EF, 50.0 Gal.	
		Make and Model Number:	
[]	Mecl Syst	hanical Ventilation System: hanical ventilation system rated for, and capable of, providing continuous ventilation. em shall include automatic timing controls. system type: Balanced, 0.0% Sensible Efficiency, 0.0% Total Efficiency, 240 cfm, 12.0 hrs/day, 1	10.0 watts.
	S	system description(make):	
	Air L	Leakage Control:	
[]		ts, seams, penetrations, and all other such openings in the building envelope that are sources of age must be sealed.	air
[]	Rece	essed light fixtures must be type IC rated, air tight, and sealed to drywall; or, installed inside litioned space.	
	Vapo	or Retarder:	
[]	Requ	uired on the warm-in-winter side of all non-vented framed ceilings, walls, and floors.	

	ENERGY CODE INSPECTION CHECKLIST	
Johnson		Page 5
	Materials Identification:	
[]	Materials and equipment must be identified so that compliance can be determined.	
[]	Manufacturer manuals for all installed heating and cooling equipment and service water heating	
	equipment must be provided.	
[]	Insulation R-values and glazing U-factors must be clearly marked on the building plans or specifications.	
	Temperature Controls:	
[]	Thermostats are required for each separate HVAC system. A manual or automatic means to	
	partially restrict or shut off the heating and/or cooling input to each zone or floor shall be provided.	
[]	Programmable Thermostat	
	Circulating Hot Water Systems:	
[]	All circulating service hot water piping shall be insulated to at least R-2. Circulating hot water systems	
	shall include an automatic or readily accessible manual switch that can turn off the hot water circulating	
	pump when the system is not in use.	
	Heating and Cooling Piping Insulation:	
[]	Mechanical system piping capable of carrying fluids above 105F or below 55F shall be insulated to a minimum	
	of R-3.	
NOTES		
NOTES		

2006 IECC OVERALL BUILDING UA COMPLIANCE

Date: March 29, 2010 Rating No.: 1

Building Name: Johnson Rating Org.: Pinnacle Inspections Owner's Name: Johnson Phone No.: 360-920-4234 Property: 1144 Scenic View Heights Rater's Name: Robert Stockmann Oak Harbor, WA 98277 Rater's No.: WAHERS004 Address:

Builder's Name: CVH

Weather Site: Whidbey Island, WA Rating Type: Site Visit File Name: CVH-Johnson 5.25 ACH50.blg Rating Date: 3.15.10

Elements Insulation Levels 2006 IECC As Designed Shell UA Check Ceilings: 87.1 64.8 Skylights: 2.4 8.0 Above-Grade Walls: 138.2 86.1 Windows and Doors: 162.8 122.4 Floors Over Ambient: 30.9 24.8 Floors Over Uncond Crawl Space: 71.2 80.1 Overall UA (Design must be lower): 486.4 385.1 Window U-Factor Check (per Section 402.6) 0.480 0.280 Window U-Factor (Design must be lower): Skylight U-Factor Check (per Section 402.6) 0.750 0.200 Skylight U-Factor (Design must be lower):

This home MEETS the overall thermal performance requirements of the International Energy Conservation Code based on a climate zone o International Energy Conservation Code, 2006 edition.) In fact, this home surpasses the requirements by 20.8%.

Building Elements	Туре	U-Value	Area
Ceilings			
Roof	R-38, Vault, gr. II	0.035	471.0
Roof	R-50 Blown, Attic*	0.020	2433.0
Skylights			
Skylight	Sola-Tube w/Air Kit	0.200	2.0
Skylight	Sola-Tube w/Air Kit	0.200	2.0
Above-Grade Walls			

Building Elements	Туре	U-Value		
Wall	R-13 + 4" NB	0.030	1740.0	
Wall	R-13	0.085	323.0	
Joist	Band Joist	0.023	240.0	
Windows and Doors				
Window	Insulate	0.280	15.0	
Window	Insulate	0.280	8.0	
Window	Insulate	0.280	112.0	
Window	Insulate	0.280	260.0	
Door	R-5	0.168	28.0	
Door	R-5	0.168	21.0	
Door	R-5	0.168	21.0	
Floors Over Ambient				
Floor	R-20 XPS Floor	0.043	256.0	
Floor	R-25	0.040	494.0	
Floors Over Uncond. Crawl Space				
Floor	R-30 Main Floor*	0.037	2158.0	

	2006 IECC ANNUA	AL ENERGY COST CO	OMPLIANCE		
Date:	March 29, 2010	Rating No.:	1		
Building Name:	Johnson	Rating Org.:	Pinnacle Inspections		
Owner's Name:	Johnson	Phone No.:	360-920-4234		
Property:	1144 Scenic View Heights	Rater's Name:	Robert Stockmann		
Address:	Oak Harbor, WA 98277	Rater's No.:	WAHERS004		
Builder's Name:	CVH				
Weather Site:	Whidbey Island, WA	Rating Type:	Site Visit		
File Name:	CVH-Johnson 5.25 ACH50.blg	Rating Date:	3.15.10		
			Annual Er	nergy Cost	
		2	006 IECC	As Designed	
Heating:			745		
Cooling:			42		
Water Hea	iting:		300		
Lights & Ap	opliances:		722	727	
Photovolta	ics:		-0	-0	
Service Ch	e Charge: 69				
Total: 1878					
Window U-	-Factor Check (per Section 402.6)				
Window	U-Factor (Design must be lower):		0.480	0.280	
Skylight U-	Factor Check (per Section 402.6)				
Skylight I	U-Factor (Design must be lower):		0.750	0.200	
This home Conservati	MEETS the annual energy cost requirement on Code based on a climate zone of 4C. In	ts in accordance with Sec fact, this home surpasses	tion 404 of the 2006 Internat the requirements by 8.7%.	ional Energy	
Name:	Robert Stockmann	Signature:			
Organization:	Pinnacle Inspections	Date:	March 29, 2010		

* Design energy cost is based on the following systems:
Heating: Air-source heat pump, 37.2 kBtuh, 9.0 HSPF.
Heating: Air-source heat pump, 37.2 kBtuh, 9.0 HSPF.
Water Heating: Conventional, Elec, 0.91 EF.
Water Heating: Conventional, Elec, 0.91 EF.
Cooling: Air conditioner, 10.2 kBtuh, 13.0 SEER.
Window to Elect Arga Ratio: 0.14

Window-to-Floor Area Ratio: 0.14

2006 IECC ANNUAL ENERGY COST COMPLIANCE

Johnson Page 2

Blower door test: Htg: 5.25 Clg: 5.25 ACH50

In accordance with IECC, building inputs, such as setpoints, infiltration rates, and window shading may have been changed prior to calculating annual energy cost. Furthermore, the standard reference design HVAC system efficiencies are set to the "prevailing federal minimum standards" as of January, 2009. These standards are subject to change, and software updates should be obtained periodically to ensure the compliance calculations reflect current federal minimum standards.



Oak Harbor, WA 98277

5 Stars Site Visit

HouseType;

Foundation:

Uniform Energy Rating System

Energy Efficient

Single-family detached

Enclosed crawl space

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 5	Stars	3	Star	s Plus	•	4 Sta	ars	4 Stars Plus	9/ [\5 8	Stars	5 \$ta	rs Plus
500-401	400-301	300-251	250-201	200	-151		1 50	101		100-	91	90-86 /	V	85	5-71	70 o	r Less
HERS Index: 74				Effic	ien	t Ho	me (ြ	mpari	søn	: //	26	% E	Better			
General Information						-	1		$\Box /$ /	\	/ _		7				

Conditioned Area: 2908 sq. ft. Conditioned Volume: 25535 cubic ft.

Bedrooms:

Mechanical Systems Features

Air-source heat pump, Electric, 9.0 HSPF. Heating: Heating: Air-source heat pump, Electric, 9.0 HSPF. Water Heating: Conventional, Electric, 0.91 EF, 50.0 Gal.

Duct Leakage to Outside: NA

Ventilation System: Balanced: 240 cfm, 110.0 watts. Programmable Thermostat: Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat: R-50 Exposed Floor: R-30, R-20, R-25

Vaulted Ceiling: R-38 Window Type: Insulate

Above Grade Walls: R-33, R-13 Infiltration:

Foundation Walls: R-0.0 Rate: Htg: 5.25 Clg: 5.25 ACH50

> Slab: Blower door test None Method:

Lights and Appliance Features

Percent Fluorescent Pin-Based: 0.00 Clothes Dryer Fuel: Electric Percent Fluorescent CFL: 100.00 Range/Oven Fuel: Electric Refrigerator (kWh/yr): 571.00 Ceiling Fan (cfm/Watt): 70.40

Dishwasher Energy Factor: 1.30

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.82

This information does not constitute any warranty of energy cost or savings. © 1985-2010 Architectural Energy Corporation, Boulder, Colorado.

Rating Number: 1

Certified Energy Rater: Robert Stockmann

Rating Date: 3.15.10 Rating Ordered For: Johnson

Estimated Annual Energy Cost

Site Visit

ι	Use	MMBtu	Cost	Percent	
Heating	g	23.2	\$587	35%	
Cooling	g	0	\$0	0%	
Hot Wa	ater	11.5	\$294	18%	
Lights/	Appliances	28.5	\$727	43%	
Photov	oltaics	-0.0	\$-0	-0%	
Service	Charges		\$69	4%	
Total			\$1676	100%	

This home meets or exceeds the minimum criteria for all of the following:

EPA ENERGY STAR Home

ASHRAE Standard 90.2 - 1992

2003 International Energy Conservation Code 2004 International Energy Conservation Code 2006 International Energy Conservation Code

Robert Stockmann

Pinnacle Inspections

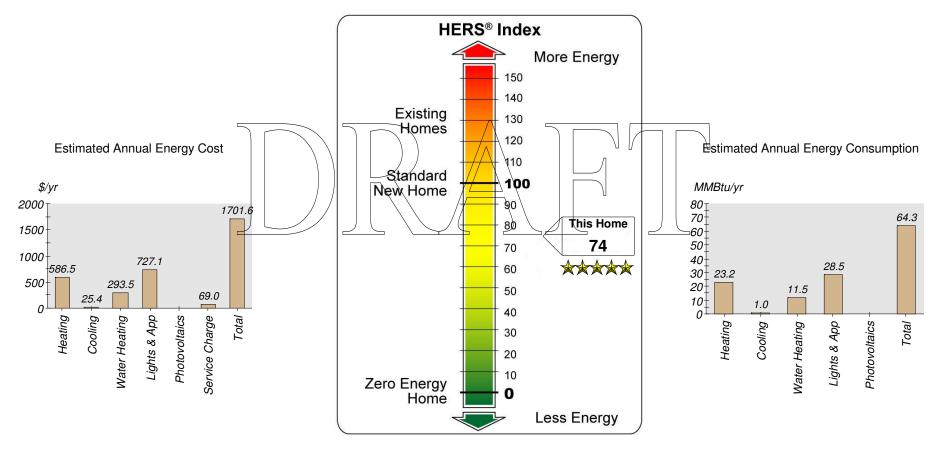
370 N East Camano Drive, Suite 5208

Camano Island, WA 98282 Phone #: (360) 920-4234 Fax #: (360 387-9836

E: robert@pinnacleinspection.com

Certified Energy Rater

HOME PERFORMANCE WITH ENERGY STAR ENERGY RATING CERTIFICATE



Address: 1144 Scenic View Heights

Oak Harbor, WA 98277

House Type Single-family detached

Cond. Area: 2908 sq. ft.

Rating No.: 1

Issue Date: March 29, 2010

Annual Estimates*:

Electric(kWh): 18826 C02 emissions(Tons): 3

*Based on standard operating conditions

This home meets ENERGY STAR

Robert Stockmann Pinnacle Inspections

370 N East Camano Drive, Suite 5208

Certified Rater: Robert Stockmann
Certification No: WAHERS004

Rating Date: 3.15.10

Signature:

EnergySmart Home Scale QUALIFICATION FORM: PERFORMANCE PATH

Third-Party Verifiers should complete form and submit to:

MAIL: Builders Challenge, 3760 Tanglewood Lane, Davidsonville, MD 21035

EMAIL: builderschallenge@newportpartnersllc.com **FAX:** 301-889-0019

ENERGY PERFORMANCE	
HouseType Single-family detached	Building Plan Number
Year built 2009 (Homes completed in 2007 or later may qualify if they meet the	Square footage of conditioned space 2908.0
energy threshold and a third-party verifier can verify the Quality Criteria)	Number of Bedrooms 2
Site address (if not available, list the site Lot#) 1144 Scenic View Heights Oak Harbor WA 98277	E-Scale Mailing Address (where E-Scale will be mailed) Attn: Robert Stockmann 370 N East Camano Drive #5208 Camano Island, WA 98282 360-920-4234
Registered Builder CVH 360-678-7000 ted@zero-energyplans.com	Developer (if known)
Third Party Verifier Pinnacle Inspections Robert Stockmann	E-Scale Score/ HERS Index (70-0) Score is not in range (70-0)
360-920-4234 robert@pinnacleinspection.com www.pinnacleinspection.com	Date of Rating 3.15.10
	Identification number WAHERS004
	Rating software (name and version used) REM/Rate - v12.82
	Estimated annual energy costs(\$) 1702 Do you want this on the E-Scale? Yes No
	Estimated average monthly energy cost (\$) 142
	Do you want this on the E-Scale? Yes No
Estimated annual energy use 18826 kWh (Electric)	Estimated annual energy savings (relative to reference home) 5121 kWh (Electric)
Energy cost rates 0.09 \$/kWh	Estimated emissions reductions (relative to reference home) 0.8 tons of Carbon Dioxide (CO2) 0.5 lbs of Sulfur Dioxide (SO2) 2.2 lbs of Nitrogen Oxides (NOx)

QUALITY CRITERIA CHECKLIST
As the Third-Party verifier for this house, I certify that the house complies with all the 'Required' Builders Challenge Quality Criteria, as defined by the Builders Challenge Quality Criteria Checklist
ADDITIONAL INFORMATION
House will be certified under these programs (check all that apply):
ENERGY STAR
Environments for Living
LEED for Homes
National Green Building Standard

SUMMARY OF SELECTED REPORTS

File Name: CVH-Johnson 5.25 ACH50.blg Date: March 29, 2010

ENERGY ANALYSIS

Action Report

Ranks the building elements with the largest energy consumption on a component basis.

Air Leakage Report

Displays infiltration in all available units (regardless of the user input). Displays duct leakage in all available units if other than the qualita displays the building ventilation information.

Building File Report

Echoes the building inputs. Use for verification or documentation.

Builder Affidavit

Builder affirmation of construction characteristics, coupled with HERS Provider/Rater disclaimer.

Component Consumption Summary

Presents the heating and cooling energy consumption of the building on a component basis.

Component Load Summary

Presents the heating and cooling load of the building on a component basis.

Component Design Load Summary

Presents the heating and cooling design load (or sizing load) of the building on a component basis, in kBtuh.

Fuel Summary

Summarizes the end-use energy consumption by fuel type.

Energy Cost And Feature Report

Summarizes the annual heating, cooling, water heating and lights and appliance costs and the major energy design features of the home

Equipment Sizing Summary

Provides information about sizing heating and cooling equipment to meet the peak loads and the minimum Sensible Heat Fraction (SHF)

Lights And Appliances Summary

Summarizes the annual lights and appliance costs of the home.

Performance Summary

Summarizes the annual loads, energy consumption, and energy costs for heating, cooling, water heating, and lights and appliances.

Performance Factors

Shows area normalized and climate normalized consumption.

Source Energy & Emissions Report

Summarizes the Carbon Dioxide (CO2), Sulfur Dioxide (SO2), and Nitrous Oxides (NOX) emissions from the source (power plant) basec the home and the location. The emission data for all 50 states were obtained from the American Gas Association.

Emissions Report

Summarizes the absolute values for Carbon Dioxide (CO2), Sulfur Dioxide (SO2), and Nitrous Oxides (NOX) emissions produced by the Use the 2-building report option to display a meaningful comparison between two buildings.

SUMMARY OF SELECTED REPORTS

Johnson Page 2

2005 EPAct Tax Credit

The report indicates whether the home qualifies for tax credits under Section 1332, Credit for Construction of New Energy Efficient Home Act of 2205.

CODE COMPLIANCE

Energy Code Inspection Checklist

A report, in checklist format, for use in the field by code officials and others responsible for checking the energy code-related performance

IECC Uo Compliance Report

The Uo compliance compares the overall U-value of the building to the overall U-value for an identical home insulated to meet the minim requirements of IECC. The required component U-values are based on the number of heating degree-days for the building site.

IECC Consumption Compliance Report

The report compares the total annual energy use for the building design to a prescriptive version of the same building. This type of comp flexibility in complying with IECC. The impacts of high efficiency heating and cooling systems, reduced infiltration and other performance for compliance.

RATING

Home Energy Rating Certificate (HERC)

Provides a home energy rating index and annual energy cost estimate in accordance with the "Mortgage Industry National Home Energy as promulgated by the Residential Energy Services Network (RESNET).

HERC - Performance Home

Provides a home energy rating index and performance on an existing home in accordance with the "Mortgage Industry National Home E Standards" as promulgated by the Residential Energy Services Network (RESNET).

Builder's Challenge

The U.S. Department of Energy (DOE) has posed a challenge to the homebuilding industry - to build 220,000 high performance homes to called the Builders Challenge. This report can be used to submit a home to qualify for the challenge.

Johnson Residence Rennovation Clifton View Homes & Premier SIPS

Comments for the a news release:

Almost any existing home can benefit from this technology. The techniques we pioneered here can be completed almost entirely from the outside of the house, much like changing windows, but with much more dramatic results. Depending on the configuration of the home and roof, the Insul-Lam can deliver similar results there as well.