



**NOTICE TO BUYER: SELLER-PROCURED INSPECTION REPORT**

The following notice is given with respect to the Purchase and Sale Agreement dated \_\_\_\_\_  
between \_\_\_\_\_ (“Buyer”)  
and Tim and Lois Adams (“Seller”)  
concerning 20015 NE 148th St, Woodinville WA 98077 (“the Property”).

Seller has given or is giving Buyer a copy of an Inspection Report dated 04/20/2016 concerning the Property. The Inspection Report is intended to be a part of any Seller Disclosure Statement (NWMLS Form 17) that is provided in this transaction, whether or not the two documents are attached to each other. The Inspection Report was procured by Seller and is provided for informational and disclosure purposes only. It is not intended to constitute a warranty, either express or implied, about the condition of the Property. Buyer is advised to procure their own inspection from a professional inspector chosen by Buyer or hire the inspector that prepared the Inspection Report. Buyer has the opportunity to inspect the Property to Buyer’s satisfaction.

\_\_\_\_\_  
Seller DATE

\_\_\_\_\_  
Seller DATE

**Buyer’s Acknowledgment of Receipt**

The undersigned Buyer acknowledges receipt of the foregoing Notice and the above-referenced Inspection Report.

\_\_\_\_\_  
Buyer DATE

\_\_\_\_\_  
Buyer DATE

Tim and Lois Adams  
20015 NE 148<sup>th</sup> St  
Woodinville WA 98077

Per the seller on 5/10/16 - The following items from the pre-inspection have been addressed.

7.11 Electrical/Receptacles

- Receptacle in master bedroom with an open ground was traced to a ground wire that had come loose in a switch-box. The connection was repaired.
- All loose receptacles were corrected.
- A cover plate was installed on the storage space receptacle

7.12 GFCI Receptacles

- GFCI receptacles were installed in the kitchen, downstairs bathroom, and upstairs vanity/sink area.

7.14 Switches

- A cover plate was installed on the attic space light switch.

8.3 Heating System/Air filter

- A new furnace filter has been installed.

10.2 Kitchen/Cabinets

- Cabinet doors rubbing on ceiling trim has been corrected.

10.8 Kitchen/Air Gap

- A ¼" hole has been drilled into the Johnson Tee pipe cap

10.13 Kitchen/Receptacles

- A GFCI receptacle has been installed.

11.2 Bathroom/Downstairs/Bathtub

- The drain has been cleaned, and the slow-drain condition corrected

11.9 Bathroom/Downstairs/Cabinet

- Bathroom cabinet door has been replaced

11.12 Bathroom/Downstairs/GFCI Receptacles

- A GFCI receptacle has been installed

11.14 Bathroom/Upstairs/Bathtub

- The drain has been cleaned, and the slow-drain condition corrected.

11.22 Bathroom/Upstairs/Countertop

- The backsplash/countertop joint has been caulked.

#### 11.24 Bathroom/Upstairs/GFCI Receptacles

- A GFCI receptacle has been installed.

#### 13.10 Plumbing/Septic System

- The septic tank was pumped on 3-24-16.
- A “real-estate sale” inspection was also performed on the same date.
- Replacement of the septic pump and distribution-box were recommended. Both were done.
- No issues were found (other than the replacements above) and the system was found to be in good condition. The inspection report was filed with King County.
- All paperwork is available

#### 14.2 Interior/Floors

- A transition strip has been installed

#### 14.6 Interior/Closet Doors

- Floor guides in the West bedroom have been reinstalled after having been removed by carpet crew.
- The other bedroom closet has not had floor guides.

#### 17.3 Insulation/Floor

- Insulation replaced in the area of the bathroom floor and bathtub plumbing.

**If requested in the Purchase and Sale Agreement, the seller will correct the following:**

9.3 Water heater pressure relief valve connection

9.6 Seismic Restraint

9.7 General Comments/Water heater nearing end of service life.

13.5 Water Pressure/Pressure reduction valve recommended.

Home inspection summary and details in proceeding pages.

April 20, 2016

**Mr. Tim Adams  
20015 NE 148th St.  
Woodinville, WA.**

**Re: 20015 NE 148th St.  
Woodinville, WA.**

Dear Tim;

At your request, a visual inspection of the above referenced property was conducted on April 19, 2016. We have inspected the major structural components, plumbing, heating and electrical systems for signs of significant non-performance, excessive or unusual wear and general state of repair.

Clark Inspections inspectors, inspect all homes and buildings according to the stringent professional standards and code of ethics set forth by the American Society of Home Inspectors (ASHI). The ASHI standards are designed to identify and disclose to the client certain conditions of the major systems as these conditions exist at the time of the inspection. These standards are designed for a visual inspection of the readily accessible areas of the included system. A copy of these standards will be provided upon request or can be obtained by calling the ASHI automatic "Information-On-Demand" phone number at 1-800-743-2744

Home or building inspections performed under these standards should not be construed as a compliance inspection of any governmental or non-governmental codes or regulations. Inspections performed under these standards are essentially visual; are based on the experience and opinion of the inspector; and are not intended to be technically exhaustive. Inspections performed under these standards are not meant to be warranties nor guarantees of adequacy of performance of the structures, systems, or their component parts.

This inspection does not include an inspection for construction or other materials which might be hazardous to your health. It is possible that such materials may be present and not noted in this report.

This inspection does not include the testing or inspection of security systems, intercoms, communication systems, video, or sprinkler systems. These items are highly specialized and individualistic. Clark Inspections recommends that you have the seller and/or real estate agent/broker demonstrate the operation and serviceability of these systems to you prior to the closing of the sale.

Mechanical equipment is inspected for operability only and may contain undisclosed defects which may significantly impair it's usefulness.

Defects are examined and a determination is made on how a particular defect will affect interrelated building parts and whether immediate repairs are required.

Since all buildings have defects, it is important to know and understand what they are and how they affect the house and property. Some of the defects mentioned in this report may be quite typical, and found in other homes of comparable age and price. Some however, may not. We make our best attempt to distinguish this for you in both verbal and written reports.

## REPORT SUMMARY

The comments in this report are categorized. General information is given on the type of materials and construction methods. Specific information is given pertaining to the condition of a component and applicable repair and maintenance work that may be required.

Statements, representations, or conclusions offered by the inspector are the considered opinion of the inspector, but these statements, representations, or conclusions do not constitute an expressed or implied warranty of any kind. Neither the inspector nor Clark Inspections Inc. shall be liable for any direct, special, incidental, or consequential damages under an circumstances whatsoever, whether arising in tort, negligence, or contract, nor for any loss, claim, expense, or damage caused by or arising out of his or its inspection of a structure, nor will the inspector or Clark Inspections Inc. indemnify or hold others harmless for any loss, claim, expense, or damage arising out of his or its inspection of a structure.

### ACTION ITEMS, SIGNIFICANT DEFECTS AND/OR HEALTH AND SAFETY ISSUES

Non-operational (Action) items, safety or health issues, areas with limited viewing for proper inspection and components that do not serve their intended function (Significant Defects) are listed here. These items will likely require further evaluation and repair by licensed tradespeople.

**Please Read entire report**

### GARAGE

#### ATTACHED GARAGE

##### *6.2 OVERHEAD GARAGE DOORS*

1. Safeties are cables run through the center of the garage door springs that prevent broken springs from becoming projectiles that can cause injury. There are no safeties installed. The installation of safeties is recommended.



##### *6.3 GARAGE DOOR OPENER*

2. There is no photo-eye sensor installed for either of the garage doors. This would offer protection for small children and/or pets. We recommend that a photo-eye sensor be installed for each of the garage doors at a height of within 4-6" of the floor.

##### *6.4 FIRE SEPARATION*

3. The fire resistive barrier between the garage and the living space is properly installed and in good condition, however, the joints are not taped. Consideration should be given to "fire taping" the drywall as a safety upgrade.



#### 6.5 PASSAGE DOOR

4. The door between the garage and living space is a solid core door. The door is properly installed and is in good condition, however, it lacks a self closing hinge. The installation of a self closing hinge is recommended as a safety upgrade.



### ELECTRICAL SYSTEM

#### 7.11 RECEPTACLES

5. Testing revealed an open ground (ungrounded receptacle) in the master bedroom. Open grounds are a potential hazard and could damage some electronic equipment. All receptacles with open grounds should be repaired in accordance with applicable electrical codes.

There are numerous loose receptacles throughout the home. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

The cover plate is missing from a receptacle in the attic storage closet. This is a shock and fire hazard. The installation of a cover plate is recommended.



#### 7.12 GFCI RECEPTACLES

6. The installation of additional GFCI protection in the kitchen, bathrooms and exterior receptacles is recommended.

#### 7.14 SWITCHES

7. The cover plate is missing from the wall switch in the attic. This is a shock and fire hazard. The installation of a cover plate is recommended.



## HEATING SYSTEM

### FORCED AIR HEATING SYSTEM

#### 8.4 AIR FILTER

8. The air filter is clogged with dust. This reduces air flow and furnace efficiency. Removal and replacement of the air filter is recommended. Pleated style air filters are recommended as they offer better filtration of dust than the coarser hogs hair or fiberglass filters.

## WATER HEATER

### 9.3 PRESSURE RELIEF VALVE

9. The pressure relief valve lacks a drain pipe. This is a scald hazard. The installation of a 3/4" copper, CPVC plastic or galvanized steel drain pipe is recommended. Ideally, the drain should be routed to the exterior. However, running the pipe straight down to the floor eliminates the scald hazard.



### 9.6 SEISMIC RESTRAINT

10. The water heater is not secured to the wall. A seismic restraint should be installed to secure the water heater and prevent it from falling over during an earthquake. This prevents the gas and water lines from rupturing.



### 9.7 GENERAL COMMENTS

11. The water heater is nearing the end of its service life. The need for water heater replacement should be anticipated.

## KITCHEN

### 10.8 AIR GAP

12. An air gap called a Johnson Tee is installed in the kitchen wall. This air gap protects the dishwasher from contamination caused by a backflow of waste water. The cap protruding on the exterior wall opposite the dishwasher is not drilled. This renders the air gap non-functional. Drilling a 1/4" hole in the end of the cap will restore its function. The remaining visible portions of the Johnson Tee were properly installed and functioning as intended.



## PLUMBING SYSTEM

### 13.5 WATER PRESSURE

13. The water pressure at 115 PSI is excessive. The normal range is 40-80 PSI. High water pressure can result in leaking valves, detached supply tubes, water hammer and is hard on solenoid valves. The installation of a pressure reduction valve is recommended.

## INTERIOR

### 14.8 SMOKE DETECTORS

14. There is a smoke detector in the hallway outside of the bedrooms. Additional smoke detectors should be installed inside the bedrooms near the door.

Smoke detectors are examined for location only. They are not tested. Smoke detector batteries should be replaced when you move in and every year thereafter. Once batteries have been replaced, the smoke detectors should be tested for proper operation.

**FOR MAXIMUM PROTECTION:** Use both Ionization and Photoelectric smoke alarms in every bedroom/hallway on every level of your home.

The installation of at least one carbon monoxide monitor for each floor is recommended. The best place to install the monitor is in an open area near the gas appliance.

## MAINTENANCE ITEMS AND/OR COMPONENTS NEARING THE END OF THEIR SERVICE LIFE

Any item that in the opinion of the inspector is nearing the end of its normal service life and/or conditions that need repair, maintenance and/or upgrades, but have not affected basic functions are listed herein.

## BUILDING EXTERIOR

### 3.3 SOFFITS AND OVERHANGS

1. There are large gaps over 1/4" in size adjacent the soffit vent blocks. These gaps allow insects and rodents to enter the attic. Covering the gaps with screening, a strip of wood and/or caulking is recommended.



2. There are openings at the intersection between the overhang and the roof through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol foam.



3. There are soffit vent screens that are damaged. This is allowing pests to enter the attic. Quarter inch wire mesh should be secured over the vent holes.



4. There are openings at the flashing between the overhang and the roof through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol foam.



**3.5 PAINT**

5. Localized areas of faded and/or peeling paint were noted on several windows. Paint protects the wood from cupping, checking, warping and rot. These areas should be scraped, primed and repainted.

**ROOF**

**4.4 CHIMNEYS**

6. Moss/vegetation was observed in several areas around the upper portion of the chimney. This will lead to accelerated deterioration of the brick masonry mortar. We recommend removal of all organic growth. Damaged areas can be repaired by filling in cutout or defective mortar joints with fresh mortar. (Tuck pointing)



**ATTIC**

**5.3 PEST CONTROL**

7. There is evidence of rodent activity in the attic. The first step in eliminating rodents from the attic is to seal all possible entry points using wire mesh, caulking, wood, stainless steel wool, or aerosol foam. Careful work sealing cracks, holes and gaps over 1/4" in size will discourage further activity. Once this work is completed, snap traps baited with peanut butter should be installed and monitored. The absence of rodents in the traps typically means that the rodents have been excluded from the area.

**BATHROOMS**

HALLWAY BATHROOM

**11.2 BATHTUB**

8. The bathtub is properly installed and is in good condition however the drain is slow. We recommend the trap be cleaned of grease, hair and/or sludge etc. and if this does not correct the problem we recommend the lines be "snaked" by a professional sewer cleaning service.

**11.6 SINK**

9. The sink overflow is not operational. Caution when filling the sink is advised to prevent flooding.

**11.9 CABINETS**

10. The bathroom cabinet door is missing. Replacement is recommended. The cabinet is otherwise in serviceable condition.



MASTER BEDROOM BATHROOM

**11.14 BATHTUB**

11. The bathtub is properly installed and is in good condition however the drain is slow. We recommend the trap be cleaned of grease, hair and/or sludge etc. and if this does not correct the problem we recommend the lines be "snaked" by a professional sewer cleaning service.

**11.18 SINK**

12. The drain stops are missing. They should be replaced.

**11.22 COUNTERTOP**

13. The backsplash is not caulked. This allows water to enter the gap between the back splash and counter and it is difficult to clean. Caulking should be installed at this location.

**INTERIOR**

**14.2 FLOORS**

14. The hard surface flooring lacks a transition strip. The raised edge of the flooring is a hazard. We recommend the installation of a floor edge transition strip.



**14.6 CLOSET DOORS**

15. Several of the closet doors in the southwest bedroom are in need of minor adjustment and/or repair.



16. The floor guides are missing from the bypass closet doors in the bedrooms. Missing floor guides could result in damage to the doors. The installation of floor guides is recommended.



**FIREPLACES, WOOD STOVES AND SPACE HEATERS**

**15.1 WOOD STOVE INSERT**

17. The fireplace is fitted with a wood stove insert. An evaluation of the installation of a fireplace insert, along with an evaluation of the fire box, damper and smoke chamber, cannot be made without removing the

unit from the fireplace. The removal of the insert is beyond the scope of this inspection. The services of a certified chimney sweep should be retained to remove the insert and clean and inspect the smoke chamber and flue.

**INSULATION**

*17.3 FLOOR INSULATION*

18. The floors are insulated with 6" R-19 fiberglass batts. Some of the insulation batts are missing. The missing batts should be replaced .



**CRAWLSPACE**

*19.5 PEST CONTROL*

19. The crawlspace access door is not rodent proof. The installation of a tight fitting access door is recommended to exclude rodents from the crawlspace.



20. Cellulose forms were left in place on the pier footings. This cellulose is conducive to the infestation of various wood destroying organisms. The removal of the cellulose is recommended.



Several of these items will likely require further evaluation and repair by licensed tradespeople. Other minor items are also noted in the report and could be mentioned but none of them affect the habitability of the house.

Thank you for selecting our firm to do your home inspection. If you have any questions regarding the inspection report or the home, please feel free to call us.

Sincerely,

Terry Clark  
206-244-5339  
Clark Inspections Inc.

# **Confidential Inspection Report**

**20015 NE 148th St.  
Woodinville, WA**

**Prepared for: Tim Adams**

**This report is the exclusive property of the inspection company and the client whose name appears herewith and its use by any unauthorized persons is prohibited.**

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4/20/2016

**Mr. Tim Adams  
20015 NE 148th St.  
Woodinville,WA**

Dear Tim,

Thank you for inviting to inspect for you. We appreciate having the opportunity to perform this home inspection and are happy to help with all of your inspection needs. Enclosed is our report for the property located at;

**20015 NE 148th St.**

We have inspected the major structural components, plumbing, heating, and electrical systems for signs of significant non-performance, excessive or unusual wear and general state of repair.

This inspection report is designed to be easy to understand. Please take time to review it carefully. If you have any questions regarding this inspection, or receive information from another building inspection professional, contractor, or tradesperson, that is in conflict with this report, or any major defect in your home or building that was not described in your verbal or written reports, please call our office immediately. We are happy to answer any questions you may have.

Thank you for the opportunity to be of service.

Sincerely,

Terry Clark

## GENERAL INFORMATION

### *CLIENT & SITE INFORMATION:*

**1.1 DATE OF INSPECTION:**

April 19, 2016.

**1.2 INSPECTOR'S NAME:**

Terry Clark.

**1.3 CLIENT NAME:**

Mr. Tim Adams.

**1.4 MAILING ADDRESS:**

20015 NE 148th St.  
Woodinville, WA.

**1.5 ADDRESS OF PROPERTY INSPECTED**

20015 NE 148th St.  
Woodinville, WA.



**East elevation**

### *CLIMATIC CONDITIONS:*

**1.6 WEATHER:**

Clear.

**1.7 APPROXIMATE OUTSIDE TEMPERATURE:**

70 degrees.

### *BUILDING CHARACTERISTICS:*

**1.8 MAIN ENTRY FACES:**

East.

**1.9 ESTIMATED AGE OF BUILDING:**

The building is approximately 34 years old.

**1.10 BUILDING TYPE:**

Two story single family residence.

**1.11 SPACE BELOW GRADE:**

Crawlspace.

### *SCOPE, PURPOSE AND LIMITATIONS*

#### **1.12 RESIDENTIAL**

The purpose of this inspection was to discover and evaluate major defects, deficiencies and deferred maintenance found in the main components of the house and in the building site immediately around the building inspected. A major defect or deficiency is a system or component that in the judgment of the inspector, would cost in excess of \$500.00 to repair or replace, is not performing its intended function, or adversely affects the habitability of the dwelling or building. Defects are examined and a determination is made on how a particular defect will affect interrelated building parts and whether immediate repairs are required.

The major components in this report are categorized. General information is given on the type of materials and construction methods. Specific information is given pertaining to the condition of a component and applicable repair and maintenance work that may be required.

Since all buildings have defects, it is important to know and understand what they are and how they affect the house and property. Some of the defects mentioned in this report may be quite typical, and found in other homes of comparable age and price. Some, however, may not. We make our best attempt to distinguish this for you in both the verbal and written reports.

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Mechanical equipment is inspected for operability only and may contain undisclosed defects which may significantly impair its usefulness.

Statements, representations, or conclusions offered by the inspector and/or by Clark Inspections are based solely upon a visual examination of the exposed areas of the structure inspected. Areas of the structure which are not exposed to the naked eye cannot be inspected, and no conclusions, representations, or statements offered by the inspector are intended to relate to areas not exposed to view. Hidden defects could have a significant impact on the visually based conclusions, statements, and representations made by the inspector.

Statements, representations, or conclusions offered by the inspector are the considered opinion of the inspector, but these statements, representations, or conclusions do not constitute an expressed or implied warranty of any kind. Neither the inspector nor Clark Inspections shall be liable for any direct, special, incidental, or consequential damages under any circumstances whatsoever, whether arising in tort, negligence, or contract, nor for any loss, claim, expense, or damage caused by or arising out of his or its inspection of a structure, nor will the inspector or Clark Inspections indemnify or hold

others harmless for any loss, claim, expense, or damage arising out of his or its inspection of a structure.

If you receive information from another building inspection professional, contractor or trades person that is in conflict with ours, or if you discover a major defect in your home or building that was not described in your verbal or written reports, please call us immediately.

**NOTE: WAC 16-228-2045 requires that a diagram identifying the location of wood destroying organisms be prepared for wood destroying organism inspection reports. A copy of this diagram will be made available to you upon request.**

#### *GENERAL COMMENTS*

#### **1.13 RECOMMENDATIONS**

Certain building designs and/or building site topography may not qualify for earthquake insurance. Each company has its own underwriting policies. You should check with your insurance agent to determine whether or not your insurance company will write an earthquake policy on this property.

There may be information pertinent to this property which is a matter of public record. A search of public records is not within the scope of this inspection. We recommend you review all applicable public records that pertain to this property.

We make no representations as to the extent of presence of code violations, nor do we warrant the legal use of this building. This information can be obtained from the local building and/or zoning department.

A driveway is shared with other properties. There may be maintenance sharing agreements or liability agreements that pertain to this driveway. Consult with the owner of the properties and/or public records.

#### **1.14 BUILDING CODES**

A code is a system of rules and procedures, the purpose of which is to provide minimum standards to safeguard life, health, and property by regulating certain aspects of building design, construction, use and maintenance. Local codes are usually based on model codes. A community may amend or adopt only parts of a model code. These local codes may not always be the latest version of the model code. Code enforcement is nearly always a local government responsibility and is handled in several ways depending on the type of code and community involved. All model codes and most local codes, grant the code compliance inspector or building official the right to interpret the code to suit special situations. This makes the building official the final authority, not the code book.

Answering the question "Does this meet code?" depends on the building's age, when remodels and upgrades were performed and which codes if any are enforced. This information may not be readily available to the home inspector. Private housing inspectors usually can determine if an item complies with applicable national model codes, if they know when the work was done and what code was applicable at that time. Local municipalities adopt and enforce national model codes at their discretion. Private housing inspectors are typically not permitted to perform code compliance inspections. Code compliance inspections are typically performed by the local code enforcement official. Private housing inspectors check to determine whether or not an item performs its intended function or is in need of repair.

Code enforcement usually is a local question and subject to the interpretation by the building code enforcement official. Most communities do not require an existing house to meet "code" prior to sale.

Specific code questions can be referred to the local building official. however, you must realize that if city inspectors check a house, they have the authority to require corrections of any violation. Private inspectors act solely in an advisory capacity. Their objective reports are a tremendous benefit to anyone purchasing or selling real estate.

## BUILDING SITE

The evaluation of the building site and grounds includes grading, roof water and surface drainage systems, fencing, gates, walkways, curbs, driveways, patios, and retaining walls connected to or directly adjacent the structure. These items are visually examined for proper function, excessive or unusual wear and general state of repair. Components or portions of components may not be visible because of soil, vegetation, storage of personal effects and/or the nature of construction. In such cases these items are considered inaccessible and are not inspected. Lawn irrigation systems, fountains, and low voltage decorative garden lights are not included in this inspection.

*The following components were inspected:*

### 2.1 ROOF WATER DRAIN SYSTEM

A below grade roof water drain system is used to divert rain water discharged from the downspouts away from the foundation wall. Below grade drain system designs vary and it is virtually impossible to evaluate the integrity of the system definitively, due to the fact that it is entirely underground. There is a high incidence of defects in these systems, due to the fact that historically, very few municipalities inspected or enforced design or quality standards.

Representative samples of the roof water drain system were tested by inserting a hose into the drain inlet and then letting it run for 10 minutes. There was no water back-up or overflow from the drain line inlets tested.

Defects in these drain systems are one of the most common causes of water or moisture problems in ground floor occupancies, basements and crawlspaces. Overflowing gutters and clogged downspouts and scuppers also frequently cause or exacerbate moisture or water entry problems in and around the building. If water entry or moisture problems are discovered, check the entire roof water drain system to insure that it is functioning properly.

Occasionally, (once a year) flushing out the drain lines with a garden hose will reduce the build-up of debris and sludge which could impede drainage. This type of maintenance is most effective if the end of the drain line terminates in open air or in a storm sewer. If the drain line terminates in a dry well or leach field, then the washing of debris down the line is not advisable. The debris may eventually clog the perforations in the line which allow the water to escape. This could render the drain system inoperative. It is always best to prevent debris from entering at the inlet.

### 2.2 GRADING

The building site is well drained. The finish grade slopes away from the house. No evidence of recent building site flooding, drainage or soil stability problems was observed.

### 2.3 VEGETATION

Dense shrubbery and trees planted too close to the building can damage siding and the roof overhang and interfere with drainage and air movement, thus promoting fungus growth and accelerated deterioration of exterior finishes and wood. Trees and shrubs in contact with the building also provide carpenter ants with a route into walls or attics. Trees and shrubs should be trimmed back, where required. When landscaping, trees and shrubs should be planted back away from the building so that they have room to grow.

### 2.4 DRIVEWAY

The driveway is paved with gravel. It is performing its intended function.

Cracks were observed in the concrete surface of the driveway apron. Minor cracks can be sealed to minimize moisture entry and further settlement of the concrete. Minor cracks are common and do not affect the serviceability of the concrete.

### 2.5 WALKWAY

There are minor cracks in the walkway, however, they do not affect its functionality and it remains in serviceable condition.

Many legal and public works departments have defined a trip hazard as an irregularity in a walking surface exceeding one inch (1") in height. All walking surfaces should maintain, free of a vertical surface change of 3/4" or more, in the interest of public and personal safety.

## BUILDING EXTERIOR

The evaluation of the building exterior includes the paint, stain, siding, windows, doors, flashing, trim, fascia, eaves, soffits, decks, porches balconies and railings. These items are visually examined for proper function, excessive or unusual wear and general state of repair. Components or portions of components may not be visible because of soil, vegetation, storage of personal effects and/or the nature of construction. In such cases these items are considered inaccessible and are not inspected.

*The following components were inspected:*

### 3.1 PRIMARY EXTERIOR WALL CLADDING

Cedar lap siding is used as an exterior wall cladding. Cedar is a wood that is durable and moderately resistant to decay. Maintaining the finish on the exposed siding will maximize its service life. The siding shows minor wear and deterioration typically caused when the exterior finish is not maintained. The deterioration is cosmetic and does not affect the function of the siding. No action is indicated.

### 3.2 PEST CONTROL

Good building practice requires that foundation walls or pier footings supporting wood frame construction, extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Soil in direct contact with wood creates a hospitable environment for wood destroying organisms. These minimum standards should be maintained throughout the building exterior.

### 3.3 SOFFITS AND OVERHANGS

The roof lacks overhangs on the gable ends. Overhangs protect the exterior walls, windows, doors, siding and exterior finish from the ravages of direct rainfall. Houses without overhangs will generally require more frequent exterior maintenance and are also more likely to suffer from moisture related problems in the exterior walls. Regular maintenance of gutters, exterior finishes and caulking is recommended.

There are large gaps over 1/4" in size adjacent the soffit vent blocks. These gaps allow insects and rodents to enter the attic. Covering the gaps with screening, a strip of wood and/or caulking is recommended.

There are openings at the intersection between the overhang and the roof through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol foam.

There are soffit vent screens that are damaged. This is allowing pests to enter the attic. Quarter inch wire mesh should be secured over the vent holes.

There are openings at the flashing between the overhang and the roof through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol foam.





### 3.4 GUTTERS AND DOWNSPOUTS

Roof runoff is collected and channeled into the downspouts by aluminum gutters fastened to the rafter tails. The gutters and downspouts are properly installed and are performing their intended function. Gutters should be cleaned regularly to prevent clogging and overflow. The downspouts are properly installed and are functioning as intended.

### 3.5 PAINT

The exterior paint and caulking is in good condition and is functioning as intended. Paint protects the wood from cupping, checking, warping and rot.

Localized areas of faded and/or peeling paint were noted on several windows. Paint protects the wood from cupping, checking, warping and rot. These areas should be scraped, primed and repainted.

### 3.6 DECK

The deck is installed close to the ground making it more vulnerable to deterioration. The proximity of the deck to the ground also prevented an inspection of the deck framing. The visible portions of the deck are in good condition.

### 3.7 PORCH

The front porch is in good condition.

### 3.8 EXTERIOR DOORS

The exterior doors are properly installed and are functioning as intended.

## ROOF

We evaluate the condition of the roof system by inspecting the roofing material, skylights, flashings, penetrations and roof water drainage system for damage and deterioration. If we observe conditions such as damage, deterioration, defects in materials or workmanship, these items will be noted in your report. We may also offer opinions concerning repair and replacement. Opinions stated herein concerning the condition of the roof and roof service life are based on the condition of the roof system at the time of the inspection. These opinions do not constitute a warranty that the roof is, or will remain, free of leaks. All roof systems require annual maintenance and occasional repair. Failure to perform routine roof maintenance will usually result in leaks and accelerated deterioration of the roofing material. Our estimate of the life expectancy of the roof is based on the assumption that the roof will be properly repaired and maintained during that period.

*The following components were inspected:*

### 4.1 AREA

Original portion of house.

### 4.2 GENERAL INFORMATION

The roofing material is asphalt composition shingles. The slope or pitch of the roof is medium in some areas and steep in others. Metal gutters are used to collect the roof water drainage.

The roof is approximately 3 years old. To determine the exact age of the roof refer to invoices and warranty information from the contractor.

#### 4.3 INSPECTION METHOD

The inspection of this roof was conducted from the roof surface. The inspector walked on the roof and made a visual inspection of the components listed below.

#### 4.4 CHIMNEYS

The visible portion of the masonry chimney is properly constructed and is in serviceable condition.

Moss/vegetation was observed in several areas around the upper portion of the chimney. This will lead to accelerated deterioration of the brick masonry mortar. We recommend removal of all organic growth. Damaged areas can be repaired by filling in cutout or defective mortar joints with fresh mortar. (Tuck pointing)



#### 4.5 FLASHINGS

Metal flashings are used to seal around chimneys, vents and roof to wall intersections. The flashings are properly installed and are performing their intended function.

#### 4.6 GENERAL COMMENTS

The roofing material was properly installed and is in like new condition. With proper care and maintenance this roof should remain serviceable for up to 20 more years.

## ATTIC

The attic contains the roof framing and serves as a raceway for components of the plumbing, electrical and mechanical systems. There are often heating ducts, bathroom vent ducts, electrical wiring, chimneys and gas appliance vents in the attic. We examine the visible portions of the various systems and components for proper function, excessive or unusual wear, general state of repair, roof leakage, attic venting and misguided improvements. When low clearance and/or deep insulation prohibit walking in an unfinished attic, inspection will be performed from the access opening only.

*The following components were inspected:*

#### 5.1 ACCESS

The attic access is located in the master bedroom. The attic was entered and inspected from within.

#### 5.2 VENTILATION

The attic is adequately vented.

#### 5.3 PEST CONTROL

There is evidence of rodent activity in the attic. The first step in eliminating rodents from the attic is to seal all possible entry points using wire mesh, caulking, wood, stainless steel wool, or aerosol foam. Careful work sealing cracks, holes and gaps over 1/4" in size will discourage further activity. Once this work is completed, snap traps baited with peanut butter should be installed and monitored. The absence of rodents in the traps typically means that the rodents have been excluded from the area.

## GARAGE

The garage often contains major components of the plumbing, heating and electrical systems. These components are discussed under their respective headings. Components that were tested and/or inspected in the garage and reported here include the garage floor, overhead door(s), automatic openers and fire resistive barriers.

*ATTACHED GARAGE - The following components were inspected:*

### 6.1 GARAGE FLOOR

There are small shrinkage cracks visible in the concrete, however, there is no vertical displacement of any portion of the slab. Shrinkage cracks are common in garage floors and are not considered a structural defect. The garage floor is properly installed and is functioning as intended.

### 6.2 OVERHEAD GARAGE DOORS

The garage is fitted with a pair of roll-up doors. The garage doors are properly installed and are performing their intended function.

Safeties are cables run through the center of the garage door springs that prevent broken springs from becoming projectiles that can cause injury. There are no safeties installed. The installation of safeties is recommended.



### 6.3 GARAGE DOOR OPENER

The garage door openers were tested and were functional. The auto stop reverse safety switches were functioning as intended.

There is no photo-eye sensor installed for either of the garage doors. This would offer protection for small children and/or pets. We recommend that a photo-eye sensor be installed for each of the garage doors at a height of within 4-6" of the floor.

### 6.4 FIRE SEPARATION

The fire resistive barrier between the garage and the living space is properly installed and in good condition, however, the joints are not taped. Consideration should be given to "fire taping" the drywall as a safety upgrade.



### 6.5 PASSAGE DOOR

The door between the garage and living space is a solid core door. The door is properly installed and is in good condition, however, it lacks a self closing hinge. The installation of a self closing hinge is recommended as a safety upgrade.



## 6.6 EXTERIOR DOOR

The exterior door to the garage has been properly installed and is in good condition.

# ELECTRICAL SYSTEM

An electrical system consists of the service, distribution, wiring and convenience outlets (switches, lights and receptacles). Our examination of the electrical system includes the exposed and accessible wiring, service panels, subpanels, overcurrent protection devices, light fixtures and all accessible wall receptacles. We look for adverse conditions such as improper installation of aluminum wiring, lack of grounding, overfusing, exposed wiring, open-air wire splices, reversed polarity and defective GFCIs. The hidden nature of the electrical wiring prevents inspection of every length of wire. Telephone, video, audio, security system and other low voltage wiring is not included in this inspection. We recommend you have the seller demonstrate the serviceability of these systems to you.

*The following components were inspected:*

## 7.1 ELECTRICAL SYSTEM SPECIFICATIONS

The voltage is 120/240 single phase three wire service. The power is delivered to this building via an underground service lateral. The amperage rating of this service is 200. Copper wire is used for all 120 volt circuits. Aluminum is used for some of the 240 volt circuits. Non-metallic sheathed cable (Romex) is the type of wiring used throughout the house. The grounding of the service is provided by two driven rods.

## 7.2 UNDERGROUND SERVICE LATERAL

The underground service lateral was not visible for inspection. However, there was 120/240 volt power to the building which suggests that it is functioning as intended.

## 7.3 SERVICE PANEL LOCATION

The service panel is located in the laundry room.

## 7.4 MAIN DISCONNECT LOCATION

The main disconnect is an integral part of the service panel. The ampacity of the main disconnect is 200 amps.

## 7.5 SERVICE ENTRANCE CONDUCTORS/CABLES/RACEWAYS

The service entrance conductors are 4/0 aluminum and have an ampacity of 200 amps. The service entrance conductors are properly installed and in serviceable condition.

## 7.6 SERVICE AMPACITY

The capacity of the electrical service is 200 amps. A 200 amp service is adequate for this house with the existing electrical equipment. There is also room to add additional circuits if necessary.

## 7.7 SERVICE GROUNDING AND BONDING

The service grounding electrode conductor attachment point was not visible for inspection. The adequacy of the service ground was not determined. The evaluation of this connection may require removal of finish materials and is beyond the scope of this inspection.

## 7.8 SERVICE PANEL

The electrical service panel is properly installed and in serviceable condition. The circuits are labeled. The accuracy of the

labeling was not verified. Do not assume the labeled circuit is off unless it has been checked with a voltage tester.

### 7.9 OVER CURRENT PROTECTION

Circuit breakers are used for over current protection. The circuit breakers are properly installed and the ampacity of the connected wires is compatible with that of the circuit breakers. The circuit breakers were not tested.

### 7.10 WIRING

The visible portions of the wiring are properly installed except where noted below.

Loose electrical cables were observed in the attic. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.



### 7.11 RECEPTACLES

All of the readily accessible receptacles were tested. Testing revealed defects requiring repair. These defects are outlined below.

Testing revealed an open ground (ungrounded receptacle) in the master bedroom. Open grounds are a potential hazard and could damage some electronic equipment. All receptacles with open grounds should be repaired in accordance with applicable electrical codes.

There are numerous loose receptacles throughout the home. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

The cover plate is missing from a receptacle in the attic storage closet. This is a shock and fire hazard. The installation of a cover plate is recommended.



### 7.12 GFCI RECEPTACLES

A ground fault circuit interrupter (GFCI) is a device that detects ground faults (current leakage to ground). It protects you from electrocution. GFCI protection is required for receptacles in bathrooms, kitchens, garages, unfinished basements, crawlspaces and at exterior receptacles.

The receptacle in the garage was found to be GFCI protected.

The installation of additional GFCI protection in the kitchen, bathrooms and exterior receptacles is recommended.

### 7.13 LIGHTS

All of the accessible lights were tested and were found to be functional.

### 7.14 SWITCHES

All of the accessible switches were tested and were found to be properly wired and functional except where noted below.

The cover plate is missing from the wall switch in the attic. This is a shock and fire hazard. The installation of a cover plate is recommended.



## HEATING SYSTEM

A natural gas, propane or oil fired furnace or boiler consists of the self contained furnace or boiler, ducts or pipes for heated air or water distribution, thermostats for regulating the amount of heat and a vent system for removing the combustion gases from the building. The readily accessible portions of these items are examined for defects and are tested using normal operator controls. Most heating systems should be serviced annually by a qualified service technician. Failure to perform regular maintenance will affect the reliability of the heating system and will reduce service life.

*FORCED AIR HEATING SYSTEM - The following components were inspected:*

### 8.1 GENERAL INFORMATION

Heat is provided by an electric forced air furnace. The furnace is located in the master bedroom closet. The furnace is approximately 34 years old. The electric furnace is approximately 12 KW.

### 8.2 BLOWER

The blower draws air from the return air ducts and pushes it over the electric strip heaters where it is heated. The air is then pushed through the distribution ducts into the rooms. The blower was tested and was functioning as intended.

### 8.3 AIR HANDLER

The air handler contains the blower and electric strip heaters. The strip heaters were tested and were functioning as intended.

### 8.4 AIR FILTER

The air filter is located in the blower compartment. The air filter should be cleaned or replaced at least 2-3 times during the heating season.

The air filter is clogged with dust. This reduces air flow and furnace efficiency. Removal and replacement of the air filter is recommended. Pleated style air filters are recommended as they offer better filtration of dust than the coarser hogs hair or fiberglass filters.

### 8.5 DUCTS

The ducts are constructed out of sheet metal and flex duct. The ducts are properly installed and are performing their intended function.

### 8.6 THERMOSTAT

The thermostat is properly installed and the unit responded to the user controls.

## 8.7 GENERAL COMMENTS

Electric forced air furnaces operate in the same manner as fuel fired systems except that the heat is generated by heavy duty, high wattage heating coils inside an insulated box above the blower. There is no waste heat or combustion gases as in fossil fuel burning furnaces. Electric forced air furnaces are more expensive to operate than gas or oil because electrical energy is more expensive. The electric furnace is properly installed and is functioning as intended.

# WATER HEATER

Our review of water heaters includes the tank, gas and/or water connections, electrical connections, venting and safety valves. These items are examined for proper function, excessive or unusual wear, leakage and general state of repair. The hidden nature of piping and venting prevents inspection of every pipe, joint, vent and connection.

*The following components were inspected:*

## 9.1 LOCATION OF UNIT

The water heater is located in the entry Closet.

## 9.2 GENERAL INFORMATION

The water heater is electric. The capacity of the water heater is 50 gallons. The water heater is approximately 12 years old. Water heaters of this type typically last about 10-15 years.

## 9.3 PRESSURE RELIEF VALVE

The pressure relief valve lacks a drain pipe. This is a scald hazard. The installation of a 3/4" copper, CPVC plastic or galvanized steel drain pipe is recommended. Ideally, the drain should be routed to the exterior. However, running the pipe straight down to the floor eliminates the scald hazard.



## 9.4 SHUTOFF VALVE

The shutoff valve for the water supply to the water heater is properly installed and is functioning as intended.

## 9.5 WATER CONNECTIONS AT TANK

The water connections at the tank are properly installed and are performing their intended function.

## 9.6 SEISMIC RESTRAINT

The water heater is not secured to the wall. A seismic restraint should be installed to secure the water heater and prevent it from falling over during an earthquake. This prevents the gas and water lines from rupturing.



## 9.7 GENERAL COMMENTS

The water heater is nearing the end of its service life. The need for water heater replacement should be anticipated.

# KITCHEN

The kitchen was inspected for proper function of components, active leakage, excessive or unusual wear and general state of repair. We inspect built-in appliances using normal operating controls. This includes running the dishwasher, operating the garbage disposal and microwave and checking the burners or heating elements in the stove and oven. Accuracy and/or function of clocks, timers, temperature controls and self cleaning functions on ovens is beyond the scope of our testing procedure. Refrigerators are not tested or inspected unless specifically noted.

*The following components were inspected:*

## 10.1 COUNTERTOPS

The countertops are covered with slab granite. The counter tops are properly installed and are in good condition.

## 10.2 CABINETS

The finish on the kitchen cabinets is slightly worn. The cabinets are otherwise in good condition.

The doors are misaligned. These doors are rubbing the ceiling trim. Modifications are recommended to allow for the doors proper operation.



## 10.3 FLOORING MATERIAL

Manufactured flooring is used in the kitchen. This is a durable imitation woodlike product. The flooring has been properly installed and is in good condition.

## 10.4 VENTILATION

Ventilation in the kitchen is provided by a range hood over the stove. The vent is ducted to the exterior. The vent fan is properly installed and is performing its intended function.

## 10.5 SINK FAUCET

The sink faucet is properly installed and is in good condition.

## 10.6 SINK

The kitchen sink is properly installed and is in good condition.

## 10.7 DRAINS, TRAPS AND TRAP ARMS

The sink drain is properly installed and is performing its intended function.

## 10.8 AIR GAP

An air gap called a Johnson Tee is installed in the kitchen wall. This air gap protects the dishwasher from contamination caused by a backflow of waste water. The cap protruding on the exterior wall opposite the dishwasher is not drilled. This renders the air gap non-functional. Drilling a 1/4" hole in the end of the cap will restore its function. The remaining visible portions of the Johnson Tee were properly installed and functioning as intended.

**10.9 RANGE**

The range was tested and was functioning as intended.

**10.10 OVEN**

The oven was tested and was functioning as intended.

**10.11 DISHWASHER**

The dishwasher was tested and was functioning as intended.

**10.12 REFRIGERATOR**

The refrigerator is functioning as intended.

**10.13 RECEPTACLES**

There are no GFCI protected receptacles in the kitchen. The installation of GFCI protection is recommended.

## BATHROOMS

Our inspection of the bathrooms consists of testing of the plumbing fixtures for condition and function. Defects such as leaks, cracked or damaged sinks, tubs and toilets will be listed under the heading of the bathroom in which they were found. The bathroom floor, tub and shower walls are examined for water damage. Ventilation fans are tested for proper operation. Cabinets and countertops are examined for excessive wear and deterioration. Hydromassage tubs are tested and the pump and related equipment are examined when accessible.

**BATHROOM****11.1 LOCATION**

Hallway.

**11.2 BATHTUB**

The bathtub is properly installed and is in good condition.

The bathtub is properly installed and is in good condition however the drain is slow. We recommend the trap be cleaned of grease, hair and/or sludge etc. and if this does not correct the problem we recommend the lines be "snaked" by a professional sewer cleaning service.

**11.3 TUB WALLS**

The tub walls are properly installed and are in good condition. Most ceramic tile is applied directly over gypsum board rather than on a concrete board such as "Durock" or "Wonder Board". Where the tile is applied directly over the gypsum board, it is critical that the tile grout be maintained to prevent water intrusion behind the tile. Missing or cracked grout should be repaired. Inside corners, and penetrations in the tile should be kept sealed with a high quality caulk.

**11.4 FLOORING MATERIAL**

The floor is covered with vinyl tiles. The floor is properly installed and is in good condition.

It is important to maintain the caulking around bathtubs and showers, especially at the intersection between the tub or shower and the floor. Failure to maintain this seal will often result in damage to flooring materials, subflooring and framing.

**11.5 TOILET**

The toilet was flushed and was functioning as intended.

**11.6 SINK**

The bathroom sink is properly installed and is in good condition.

The sink overflow is not operational. Caution when filling the sink is advised to prevent flooding.

**11.7 DRAINS, TRAPS AND TRAP ARMS**

The sink drain is properly installed and is performing its intended function.

**11.8 FAUCET FIXTURES**

The faucet fixtures were tested and were functioning as intended.

**11.9 CABINETS**

The bathroom cabinet door is missing. Replacement is recommended. The cabinet is otherwise in serviceable condition.

**11.10 COUNTERTOP**

The countertop is covered with ceramic tile. The countertop is properly installed and in good condition.

**11.11 VENTILATION**

Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.

**11.12 GFCI RECEPTACLES**

There are no GFCI protected receptacles in this bathroom. The installation of GFCI protection is recommended.

*BATHROOM*

**11.13 LOCATION**

Master Bedroom.

**11.14 BATHTUB**

The bathtub is properly installed and is in good condition.

The bathtub is properly installed and is in good condition however the drain is slow. We recommend the trap be cleaned of grease, hair and/or sludge etc. and if this does not correct the problem we recommend the lines be "snaked" by a professional sewer cleaning service.

**11.15 TUB WALLS**

The tub walls are properly installed and are in good condition.

**11.16 FLOORING MATERIAL**

The floor is covered with sheet vinyl and carpet. The floor is properly installed and is in good condition.

**11.17 TOILET**

The toilet was flushed and was functioning as intended.

#### **11.18 SINK**

The bathroom sinks are properly installed and are in good condition.

The drain stops are missing. They should be replaced.

#### **11.19 DRAINS, TRAPS AND TRAP ARMS**

The sink drains are properly installed and are performing their intended function.

#### **11.20 FAUCET FIXTURES**

The faucet fixtures were tested and were functioning as intended.

#### **11.21 CABINETS**

The finish on the bathroom cabinet is slightly worn. The cabinet is otherwise in good condition.

#### **11.22 COUNTERTOP**

The countertop is covered with plastic laminate. The countertop is properly installed and in good condition.

The backsplash is not caulked. This allows water to enter the gap between the back splash and counter and it is difficult to clean. Caulking should be installed at this location.

#### **11.23 VENTILATION**

Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.

#### **11.24 GFCI RECEPTACLES**

There are no GFCI protected receptacles in this bathroom. The installation of GFCI protection is recommended.

## **LAUNDRY ROOM**

Appliances are tested when present and when circumstances allow.

*The following components were inspected:*

#### **12.1 FLOORING MATERIAL**

Manufactured flooring is used in the laundry room. The flooring has been properly installed and is in good condition.

#### **12.2 APPLIANCES**

The hookups for the washer are properly installed and in serviceable condition. The washer itself was operated through a partial cycle, however we did not conform the complete operation of the cycle timer.

The hookups for the dryer are properly installed and in serviceable condition. The dryer itself was operated through a partial cycle, however we did not confirm the complete operation of the cycle timer.

#### **12.3 DRYER VENT**

The visible portions of the dryer vent are properly installed and in serviceable condition. Dryer ducts should be cleaned annually as part of routine home maintenance. A dryer duct that is clogged with lint is a fire hazard.

## **PLUMBING SYSTEM**

A plumbing system consists of the water heater, domestic water supply lines, drain, waste and vent lines and gas lines. Inspection of the plumbing system is limited to the water heater, visible faucets, fixtures, valves, drains, traps, exposed pipes and fittings. These items are examined for proper function, excessive or unusual wear, leakage, and general state of repair. Valves are not tested except where specifically noted. The hidden nature of piping prevents inspection of every pipe and joint. A sewer lateral test, necessary to determine the condition of the underground sewer lines, is beyond the scope of this inspection. If desired, a qualified individual could be retained for such a test. Our review of the plumbing system does not include landscape irrigation systems, off site community water supply systems or private

(septic) waste disposal systems. Review of these systems should be performed by qualified and licensed specialists prior to the close of escrow.

*The following components were inspected:*

### 13.1 PLUMBING SYSTEM SPECIFICATIONS

The building is on a public water supply system. The building is on a private (septic) sewage disposal system. Copper tubing is used for the water supply piping. ABS plastic is used for the drain, waste and vent pipes.

### 13.2 MAIN WATER SHUTOFF VALVE

The main water supply shutoff valve is located in the entry closet. It was tested and was functional.

### 13.3 MAIN WATER LINE

The main water line is buried underground and was not visible for inspection. The flow indicator on the water meter was checked with all the water shut off in the house. There was no movement of the flow indicator. This suggests that there are no leaks in the main water line. You should check the meter periodically (2-4 times a year) with all the water in the house shut off. Movement of the flow indicator on the meter means that there is a leak either inside the house or in the main line underground.

### 13.4 INTERIOR WATER SUPPLY PIPES

Copper is considered one of the most desirable materials for interior supply pipes and is expected to last the lifetime of the building. The visible portions of the copper water supply pipes are properly installed and functional except where noted below.

There are water pipes in the crawlspace that are not adequately insulated and could freeze. The installation of foam pipe insulation on all exposed water pipes is recommended.



### 13.5 WATER PRESSURE

The water pressure at 115 PSI is excessive. The normal range is 40-80 PSI. High water pressure can result in leaking valves, detached supply tubes, water hammer and is hard on solenoid valves. The installation of a pressure reduction valve is recommended.

### 13.6 DRAIN AND WASTE PIPES

ABS plastic is used for drain, waste and vent pipes. All of the visible drain pipes were properly installed and functional. ABS is a durable, reliable material and should last the lifetime of the building. All drain, waste and vent pipes were stress tested by filling bathtubs and fixtures to the overflow and then draining them while simultaneously flushing the toilet and running the sinks and showers. No leaks were observed and all fixtures emptied in a reasonable amount of time with no fluctuation in the rate of flow down the drain. This is commonly referred to as "functional drainage".

### 13.7 VENT PIPES

The visible portions of the vent pipes are properly installed and are performing their intended function.

### 13.8 FAUCET FIXTURES

All faucet fixtures were tested and were functioning as intended.

### 13.9 HOSE BIBBS AND EXTERIOR SUPPLY PIPES

The hose bibbs on this building are the frost free type. These hose bibbs typically will not freeze as long as the hoses are removed. Failure to remove hoses during freezing weather could result in a cracked pipe and leakage. The bibbs were tested and were functioning as intended.

### 13.10 SEPTIC SYSTEM

The house uses a private (septic) sewage disposal system. The septic system was not inspected. Our general house inspection will sometimes reveal major defects in the septic system (e.g., complete blockage, complete drain field failure), providing that it is not raining and the ground is dry. However, we still recommend that you have the septic tank pumped out and the septic system inspected by a qualified septic system service company, prior to the closing of the sale. Ask for a "Septic Tank Operational Report". It is also recommended that you have the tank pumped out every four years and avoid introducing grease and non-biodegradable foreign matter into the septic system.

## INTERIOR

Our review of the interior includes inspection of walls, ceilings, floors, doors, windows, cabinetry, countertops, steps, stairways, balconies and railings. These features are examined for proper function, excessive wear and general state of repair. In some cases, all or portions of these components may not be visible because of furnishings and personal effects. In such cases these items are not inspected.

*The following items were inspected:*

### 14.1 GENERAL COMMENTS

The interior wall, floor, and ceiling surfaces were properly installed and generally in serviceable condition, taking into consideration normal wear and tear.

### 14.2 FLOORS

The hard surface flooring lacks a transition strip. The raised edge of the flooring is a hazard. We recommend the installation of a floor edge transition strip.



### 14.3 STAIRS

The stairs were used several times during the inspection. The stair components are properly installed and no deficiencies were noted during use. A handrail is installed and is securely attached.

### 14.4 WALLS AND CEILINGS

There are minor cracks in the walls and/or ceilings. This is a common condition with this type of construction and does not indicate a structural deficiency. The cracks can be repaired or painted over during routine maintenance. Cracks in drywall that have been repaired will often reoccur several months after the repairs have been completed. This is due to seasonal movement of the structure caused by changes in humidity.

### 14.5 DOORS

All of the doors were tested and were found to be functioning as intended.

### 14.6 CLOSET DOORS

Several of the closet doors in the southwest bedroom are in need of minor adjustment and/or repair.

The floor guides are missing from the bypass closet doors in the bedrooms. Missing floor guides could result in damage to the doors. The installation of floor guides is recommended.



#### 14.7 WINDOWS

The window frames are constructed from wood and have insulated glass in them. All of the windows were tested and/or inspected. All of the windows were tested and/or inspected and were found to be functioning as intended.

#### 14.8 SMOKE DETECTORS

There is a smoke detector in the hallway outside of the bedrooms. Additional smoke detectors should be installed inside the bedrooms near the door.

Smoke detectors are examined for location only. They are not tested. Smoke detector batteries should be replaced when you move in and every year thereafter. Once batteries have been replaced, the smoke detectors should be tested for proper operation.

Ionization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a wastebasket or a grease fire in the kitchen.

Photoelectric technology is generally more sensitive than ionization technology at detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning on couches or bedding.

FOR MAXIMUM PROTECTION: Use both Ionization and Photoelectric smoke alarms in every bedroom/hallway on every level of your home.

The installation of at least one carbon monoxide monitor for each floor is recommended. The best place to install the monitor is in an open area near the gas appliance.

#### 14.9 DOOR BELL

The doorbell was functioning as intended.

## FIREPLACES, WOOD STOVES AND SPACE HEATERS

*The following components were inspected:*

#### 15.1 WOOD STOVE INSERT

The fireplace is fitted with a wood stove insert. An evaluation of the installation of a fireplace insert, along with an evaluation of the fire box, damper and smoke chamber, cannot be made without removing the unit from the fireplace. The removal of the insert is beyond the scope of this inspection. The services of a certified chimney sweep should be retained to remove the insert and clean and inspect the smoke chamber and flue.

## ENVIRONMENTAL ISSUES

Environmental issues include but are not limited to carbon monoxide, radon, asbestos, lead paint, lead contamination, toxic waste, formaldehyde, electromagnetic radiation, buried fuel oil tanks, ground water contamination and soil contamination. The absence of a statement on any of the environmental issues listed above does not necessarily mean that they are not present. We make reference to these substances only when we recognize them during the normal inspection process. Most of the toxic substances listed above cannot be identified without laboratory testing. If further study or analysis seems prudent, the advice and services of the appropriate specialists are advised.

*The following items may exist in this building:*

### 16.1 CARBON MONOXIDE

Many of us encounter CO regularly and never know it because it's invisible and odorless. That's why victims of CO poisoning often have no warning that they are in danger... until it's too late. Symptoms include headache, nausea, chronic fatigue, confusion and dizziness. Extreme exposure can even cause a coma or death.

Carbon monoxide is a product of incomplete (poor) combustion. It's a direct and cumulative poison. When combined with blood hemoglobin, CO replaces oxygen in the blood until it completely overcomes the body. Death from CO occurs suddenly. The victim inhaling the toxic concentration of the gas becomes helpless before realizing that danger exists.

According to the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) (Ventilation Standard 62- 89), a concentration of no more than 9 parts per million (ppm) (0.0009%), of CO is permissible in residential living spaces. In addition, the Occupational Safety and Health Administration (OSHA) has set an eight-hour work place maximum of 35 ppm. And in flue gas, the Environmental Protection Agency (EPA) and the American Gas Association (AGA) have established the maximum allowable concentration of CO at 400 ppm (See charts).

To ensure safe and efficient combustion, it is imperative that all gas burning appliances be inspected and serviced regularly (once a year) if used in normal service conditions).

### 16.2 FORMALDEHYDE

Formaldehyde, a colorless gas with a pungent odor, is so commonly used today that virtually everyone is likely to be exposed to at least small amounts of it, and a significant number of people are developing symptoms due to exposure to large amounts of formaldehyde in their homes or workplaces. It was an integral component of the urea formaldehyde foam insulation (UFFI) that was installed in more than five hundred thousand homes in the 1970's. (The use of formaldehyde in insulation was banned by the Consumer Product Safety Commission in 1982, but this ruling was overturned by a federal court in 1983.) In addition, it is present in a large variety of consumer products. It is a major part of the resins used as glue in particle board, plywood, and other pressed wood products used extensively in the construction of homes and furniture. Some cosmetics, paper towels, upholstery, permanent press fabrics, carpets, milk, toilet seats, pesticides, and explosives contain it too. Formaldehyde is also present in the exhaust from combustion appliances and in tobacco smoke.

The most common symptoms of excessive formaldehyde exposure are burning eyes, itching, shortness of breath, tightness in the chest, coughing, headaches, nausea, and asthma attacks. Large amounts of the gas have produced cancer in laboratory animals, and government policy assumes that any substance that can cause cancer in animals may also cause it in humans.

People who live in homes that have been "tightened" for maximum energy conservation are most likely to suffer from the effects of formaldehyde gas. The formaldehyde gas seeps from the walls, furniture, carpet, etc. into the air, building up to high levels in the "tightened" home, which can be irritating, particularly to sensitive people.

To minimize your exposure to formaldehyde, ventilate your home - in good weather, open the windows to provide a constant supply of fresh air. Some methods of heat recovery, such as heat recovery ventilators (also known as air-to-air heat exchangers), are available that can ventilate the home while also conserving energy.

You can seal exposed, raw surfaces of particle board and plywood with oil enamel, varnish, wallpaper, or vinyl floor coverings. If you have UFFI insulation, make certain it is completely sealed in the walls or, as a last resort, have it removed.

### 16.3 ASBESTOS

Asbestos is a naturally occurring mineral fiber that has been used in more than 3,000 different construction materials and manufactured products. It is commonly found in heating system insulation, decorative spray-on ceiling treatments, vinyl flooring, cement shake siding and a variety of additional materials. Some asbestos-containing materials were still being installed into the late 1980s.

The asbestos content of different materials varies according to the product and how it is used. Among those materials with higher concentrations of asbestos are insulating products on heating systems and the backing on sheet vinyl flooring. However, an uncontrolled disturbance of any asbestos-containing material in any concentration may be dangerous to your health!

Why is it a problem? Breathing asbestos fibers could kill you. When disturbed, asbestos breaks down into fibers up to 1,200 times thinner than a human hair. When inhaled, they become trapped in lung tissues. Medical research tells us that up to 30 years after inhalation, asbestos fibers can cause lung cancer or mesothelioma, a related terminal cancer of the tissue lining the chest cavity.

Because asbestos is a naturally occurring mineral and has been so widely used in manufactured products, including automobile brake linings, it can be found almost everywhere. Trace amounts are in the air we breathe every day. Most of us have asbestos fibers in our lungs.

On the other hand, there's no known safe level of asbestos exposure. That's why medical, environmental health and regulatory organizations stress the need to protect health by minimizing exposure to airborne asbestos fibers. This is particularly true when asbestos fibers accumulate at elevated levels. Elevated levels result from uncontrolled disturbances and removal of asbestos-containing materials.

How do I know if it's asbestos? Don't guess! Look for asbestos markings on the product or track the product back to its manufacturer or supplier. If these approaches don't work, submit a small sample for laboratory analysis. Cost is minimal. Laboratories are listed in the yellow pages under "Asbestos - Consulting and Testing." Ask a laboratory technician to instruct you how to safely take a sample. If you decide not to check for asbestos in a suspected material, you should assume it contains asbestos and treat it accordingly.

## INSULATION

Insulation, weatherstripping, dampers, storm windows, insulated glass and set-back thermostats are features that help reduce heat loss and increase the comfort and thermal efficiency of your home. We examine these items and identify approximate R values for insulation. When appropriate, we offer suggestions for upgrading. Our review of insulation is based upon a random sampling of accessible areas and does not constitute a warranty that all such areas are uniformly insulated or are insulated to current standards.

*The following items were inspected:*

### 17.1 ATTIC INSULATION

The attic is insulated with fiberglass batt insulation. The approximate R value of this insulation is 30. This provides good resistance to heat transfer.

### 17.2 WALL INSULATION

The walls are insulated with fiberglass batt insulation. The 2x4 walls suggest that it is 3-1/2" R-11 fiberglass.

### 17.3 FLOOR INSULATION

The floors are insulated with 6" R-19 fiberglass batts. Some of the insulation batts are missing. The missing batts should be replaced.



## STRUCTURE

The structural elements of most residential buildings include a foundation, footings, floor, wall, ceiling and roof framing. The visible portions of these items are examined for proper function, wear, deterioration or signs of non-performance. Some structural components or portions of them are inaccessible because they are buried below grade or hidden behind finished surfaces. Therefore, much of the structural inspection is performed by identifying resultant symptoms of movement, damage and deterioration. Where there are no visible symptoms, components or conditions requiring repair may go undetected and identification will not be possible. We make no representations as to the internal conditions or stabilities of soils, concrete footings and foundations, except as exhibited by their performance.

*The following components were inspected:*

### 18.1 GENERAL INFORMATION

The foundation is constructed from poured in place concrete. A perimeter foundation wall supports the exterior walls of the building. Interior load bearing components are supported by pier footings and/or continuous spread footings. The floor structure is constructed out of wood joists. The subflooring is plywood. The stud walls are constructed from 2 X 4 dimensional lumber. The exterior wall sheathing is plywood. The roof structure is conventionally framed out of dimensional lumber. The roof sheathing is plywood.

### 18.2 FOUNDATION

The foundation is constructed in a manner typical of buildings of this type and age. There are minor shrinkage cracks in the foundation. Shrinkage cracks are common in poured concrete foundation walls. They do not affect the performance of the foundation. No action is indicated.

### 18.3 MUDDSILL

The mudsill is typically a 2x4 or 2x6 member that is laid flat directly on the top of or cast into the top of the foundation wall. The mudsill is usually bolted to the foundation wall and serves as a base for the rest of the floor framing. Most of the mudsill is inaccessible and cannot be evaluated. The visible portions of the mudsill are properly installed and are performing their intended function.

### 18.4 ANCHOR BOLTS

Anchor bolts are bolts that are cast into the top of the concrete foundation and retain the mudsill. The anchor bolts primary function, is to prevent the building from being displaced from its foundation during an earthquake. Anchor bolts have grown in diameter over the years as have the nuts and washers that retain the mudsill. Generally speaking, the newer the building, the better resistance it will have to seismic activity. Anchor bolts are installed and are performing their intended function.

**18.5 BEAMS AND POSTS**

The beams and posts are properly installed and are performing their intended function.

**18.6 FLOOR JOISTS**

The visible portions of the floor joists are properly installed and are performing their intended function.

**18.7 SUBFLOORING**

The subfloor was covered with insulation and finished surfaces and was not visible for inspection. There was no evidence present suggesting that defects or deficiencies are present.

**18.8 WALLS**

The walls are covered with finished surfaces and therefore were not visible for inspection. No evidence of defects or deficiencies was observed.

**18.9 CEILING**

The ceiling is constructed in a manner consistent with buildings of this type and age. No major defects or deficiencies were observed.

**18.10 ROOF STRUCTURE**

The roof structure is constructed from site cut and assembled dimensional lumber. The roof structure is constructed in a manner consistent with buildings of this type and is performing its intended function. No defects or deficiencies were observed.

**18.11 ROOF SHEATHING**

The roof sheathing is installed in a manner consistent with buildings of this type and is performing its intended function. No defects or deficiencies were observed.

## CRAWLSPACE

The crawl space is where some of the building's structural elements and portions of its mechanical systems are located. These include foundation, structural framing, electrical, plumbing and heating. The visible portions of accessible systems and components are examined for proper function, excessive or unusual wear and general state of repair. Some items observed in the crawlspace will be discussed under the individual systems to which they belong. It is not unusual to find occasional moisture and dampness in crawl spaces. However, significant and/or frequent water accumulation can adversely affect the building foundation and support system and creates conditions conducive to various types of wood destroying organisms. We check for signs of excessive moisture and water entry. Unfortunately, water entry is often seasonal and therefore evidence may not be present at the time of the inspection.

*The following components were inspected:*

**19.1 CRAWLSPACE ACCESS**

The crawlspace access is located outside at the rear of the building. The crawlspace was entered and all accessible areas were inspected.

**19.2 MOISTURE**

The soil was damp under the vapor barrier, however, no evidence of water intrusion or standing water problems was observed.

**19.3 VENTILATION**

The crawlspace is adequately ventilated. Vents should be kept unobstructed and clear of leaves and other organic debris. Screens should be maintained to prevent rodent entry.

**19.4 VAPOR RETARDER**

The soil under the house is covered with a polyethylene plastic vapor retarder. This component is typically referred to as a "vapor barrier". While not a true vapor barrier, it does reduce the transmission of water vapor from the soil to the air. The

vapor retarder is properly installed and is performing its intended function. The vapor retarder should be maintained so that it covers the entire surface of the soil.

### 19.5 PEST CONTROL

The crawlspace access door is not rodent proof. The installation of a tight fitting access door is recommended to exclude rodents from the crawlspace.

Cellulose forms were left in place on the pier footings. This cellulose is conducive to the infestation of various wood destroying organisms. The removal of the cellulose is recommended.

Wood boring insect activity in the Puget Sound area usually does not occur unless there is a ventilation problem inside or underneath the structure, a water leakage/rotting condition in the house or significant quantities of soil to untreated wood contact in a crawlspace or outside around the building exterior. Carpenter ant, termite and wood boring beetle activity is most often a direct result of rot damaged wood and/or excessively moist, humid or damp conditions inside, around or underneath the building. Structural damage from termites and ants in most cases does not extend much past the moisture source and/or rot damaged wood. Eliminating high moisture conditions, improving ventilation, correcting the conditions that are conducive to rotting wood and replacing rot damaged wood will usually eliminate the wood boring insect activity, providing that the building is properly maintained thereafter.

The best way to avoid wood boring insect problems is by preventative maintenance. This includes:

- × Good construction practices which exclude water and prevent high moisture conditions.
- × Removal of wood debris and form wood from the crawlspace and around the building exterior.
- × Maintaining the roof water drain system.
- × Maintaining good yard drainage away from the foundation wall.
- × Avoiding wood-soil contact in the crawlspace or around the house exterior.
- × Storing fire wood 6" above grade and in a dry area.

There should be no soil to wood contact in any part of the building exterior or crawlspace, unless that wood is pressure treated. For the greatest safety to permanent structures there should be no soil to wood contact of any kind. Untreated wood in direct contact with exterior flatwork should also be avoided.

Good building practice requires that foundation walls or pier footings supporting wood frame construction, should extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Untreated wood should be raised 1-2" above surrounding flatwork and should have a moisture barrier such as 30 lb. asphalt impregnated felt installed between the concrete and wood. For additional information and treatment options, you should retain the services of a qualified pest control operator.

