



4321 Main St. Denver, CO

Inspection Date:

5/6/2010

Prepared For:

John Doe

Prepared By:

ALL POINTS HOME INSPECTIONS llc

820 S. MONACO PKWY #260

DENVER, CO. 80224

720-670-0366

Fax

allpointshomeinspect@yahoo.com

Report Number:

AP2010-056

Inspector:

David Hays

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REPORT OVERVIEW

THE HOUSE IN PERSPECTIVE

CONVENTIONS USED IN THIS REPORT

SATISFACTORY - Indicates the component is functionally consistent with its original purpose but may show signs of normal wear and tear and deterioration.

MARGINAL - Indicates the component will probably require repair or replacement anytime within five years.

POOR - Indicates the component will need repair or replacement now or in the very near future.

MAJOR CONCERNS - A system or component that is considered significantly deficient or is unsafe.

SAFETY HAZARD - Denotes a condition that is unsafe and in need of prompt attention.

THE SCOPE OF THE INSPECTION

All components designated for inspection in the ASHI® Standards of Practice are inspected, except as may be noted in the "Limitations of Inspection" sections within this report.

It is the goal of the inspection to put a home buyer in a better position to make a buying decision. Not all improvements will be identified during this inspection. Unexpected repairs should still be anticipated. The inspection should not be considered a guarantee or warranty of any kind.

Please refer to the pre-inspection contract for a full explanation of the scope of the inspection.

BUILDING DATA

Approximate Age:	35-40
Style:	Single Family
Main Entrance Faces:	West
State of Occupancy:	Vacant
Weather Conditions:	Sunny
Recent Rain:	No
Ground cover:	Dry



RECEIPT / INVOICE

ALL POINTS HOME INSPECTIONS llc
820 S. MONACO PKWY #260
DENVER, CO. 80224
720-670-0366

Date: **5/6/2010**

Inspection Number: **AP2010-056**

Name: **John Doe**

Inspection: **\$300.00**
Other** _____
Total:

- Check #:
- Cash
- Credit Card:

** Radon Pool / Hot Tub Shipping Well & Septic WDO/WDI

Inspected By: **David Hays**
License/Certification #: **NACHI 10020310**





SERVICE WALKS

- None *Public sidewalk needs repair*
- Material:** Concrete Flagstone Gravel Brick Other
- Condition:** Satisfactory Marginal Poor *Trip Hazard*
- Pitched towards home* *Settling cracks* Not visible Typical cracks

DRIVEWAY/PARKING

- None
- Material:** Concrete Asphalt Gravel/Dirt Brick Other
- Condition:** Satisfactory Marginal Poor Fill cracks and seal
- Pitched towards home* *Trip hazard* *Settling Cracks* Typical crack



Driveway is pitched towards home. Recommend installation of a downspout extension. Water needs to drain away from the home. If the water does not drain away it could lead to water infiltration into into basement and or foundation damage.

Crack in driveway.

PORCH (covered entrance)

- None
- Support Pier:** Concrete Wood Not visible Other
- Condition:** Satisfactory Marginal Poor *Railing/Balusters recommended*
- Floor:** Satisfactory Marginal Poor *Safety Hazard*

STOOPS/STEPS

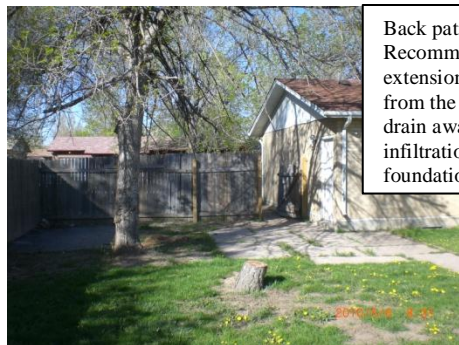
- None *Uneven risers*
- Material:** Concrete Wood Other *Railing/Balusters recommended*
- Condition:** Satisfactory Marginal Poor *Cracked* *Settled*
- Rotted/Damaged* *Safety Hazard*



Step cracked at left of front door. Monitor for further damage in the future.

PATIO

- None
- Material:** Concrete Flagstone Kool-Deck® Brick *Trip hazard*
- Condition:** Satisfactory Marginal Poor *Settling Cracks*
- Pitched towards home (See remarks page)* Drainage provided Typical cracks



Back patio is pitched towards home. Recommend installation of a downspout extension. Water needs to drain away from the home. If the water does not drain away it could lead to water infiltration into basement and or foundation damage.



DECK/BALCONY (flat, floored, roofless area) None

- Material:** Wood Metal Composite Not visible *Railing/Balusters recommended*
Finish: Treated Painted/Stained Other
 Improper attachment to house *Railing loose*
Condition: Satisfactory Marginal Poor *Wood in contact with soil*

DECK/PATIO/PORCH COVERS None

- Condition:** Satisfactory Marginal Poor *Earth to wood contact* *Moisture/Insect damage*
 Posts/Supports need Repair
Recommend: Metal Straps/Bolts/Nails/Flashing *Improper attachment to house*

FENCE/WALL Not evaluated

- Type:** Brick/Block Wood None Metal Chain Link *Rusted* Other
Condition: Satisfactory Marginal Poor *Loose Blocks/Caps* Typical cracks
Gate: N/A Satisfactory Marginal Poor *Planks missing/damaged*

LANDSCAPING AFFECTING FOUNDATION (See remarks page)

- Negative Grade:** East West North South Satisfactory
 Recommend additional backfill *Recommend window wells/covers* *Trim back trees/shrubberies*
 Wood in contact with/improper clearance to soil Yard drains observed - not tested

N. W. corner of home. Negative grade. Water is not draining away from the house. Recommend additional backfill and downspout extensions.



N. W. corner of home. Negative grade. Water is not draining away from the house. Recommend additional backfill and downspout extensions



Negative grade causes window wells to accumulate water. The window frame is starting to rust at the bottom. Also recommend a window well cover to help keep debris out of window well.



N. E. corner of home. Negative grade. Water is not draining away from the house. Recommend additional backfill and downspout extensions. Foundation has cracks in corner. Recommend evaluation by a



RETAINING WALL None

Condition: Satisfactory
(Relates to the visual condition of the wall)

Material: Marginal Poor

Drainage holes recommended
 Safety Hazard *Leaning/cracked/bowed*

HOSE BIBS None

Operates: Yes

No anti-siphon valve
 No Not tested

Frost Proof Leaks
 Not on

GENERAL COMMENTS

WALKWAYS:

Walkway had some cracking, but is usable.

DRIVEWAY:

Driveway had some settlement, but usable, repair as needed.

Maintain a positive drainage slope away from the foundation.

FENCING:

Fencing was in need of extensive repair and/or replacement.

Fencing is not part of a home inspection.

LANDSCAPING AFFECTING FOUNDATION:

Maintain a positive drainage slope away from the foundation.

Low areas next to the foundation need some correction.

Trees need to be trimmed away from the house.

Recommend window well covers.



ROOF VISIBILITY All Partial None Limited by:

INSPECTED FROM Roof Ladder at eaves Ground (*Inspection Limited*) With Binoculars

STYLE OF ROOF

Type: Gable Hip Mansard Shed Flat Other
Pitch: Low Medium Steep Flat

ROOF COVERING

Roof #1: Type: **Asphalt** Estimated Layers: **1+ Layers** Approximate age of cover: **1-5+** years
Roof #2: Type: **INFO** Estimated Layers: **INFO** Approximate age of cover: **INFO** years
Roof #3: Type: **INFO** Estimated Layers: **INFO** Approximate age of cover: **INFO** years

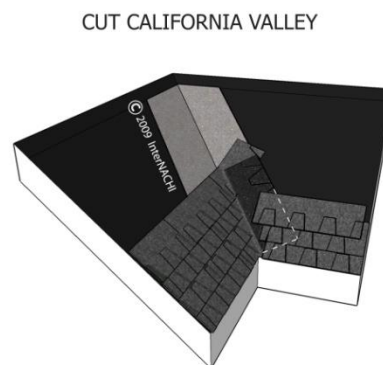
VENTILATION SYSTEM **Type:** Soffit Ridge Gable Roof
Appears Adequate: Yes No Turbine Powered Other
(See Interior remarks page) (See Attic section)

FLASHING **Material:** Galv/Alum Asphalt Not visible Rubber Lead
 Copper Foam Other
Condition: Not visible Satisfactory Marginal Poor **Rusted**
 Separated from chimney/roof **Recommend Sealing** Other

VALLEYS N/A **Material:** Galv/Alum Asphalt Lead Copper
 Not visible Other
Condition: Not visible Satisfactory Marginal Poor
 Rusted Holes **Recommend Sealing**



Asphalt shingle valleys.
 Unable to evaluate if it is done correctly. It appears correct.
 Diagram to the right is the correct method.



CONDITION OF ROOF COVERINGS **Roof #1:** Satisfactory Marginal Poor
Roof #2: Satisfactory Marginal Poor
Roof #3: Satisfactory Marginal Poor
Condition: Curling Cracking Ponding Burn Spots Broken/Loose Tiles/Shingles
 Nail popping Granules missing Alligatoring Blistering Missing Tabs/Shingles/Tiles
 Moss buildup Exposed felt Cupping Incomplete/Improper Nailing

SKYLIGHTS N/A **Cracked/Broken** Not visible

Condition: Satisfactory Marginal Poor

PLUMBING VENTS Yes No Satisfactory Marginal Poor
 Recommend roofer evaluate Not Visible

Conditions reported above reflect visible portion only

GENERAL COMMENTS

ROOF:

Roof coverings appeared overall satisfactory, but will need minor maintenance.

Roof is wavy and the roof has a spongy feel to it when walked on. When observed from the attic the cause is from the use of 3/8" plywood sheathing. This could be a safety hazard for people walking on the roof. The sheathing may not last as long as the average.

Flashing installed at roof/gutter junction. Felt installed at lower end of roof below shingles. No problems observed.



Roof is wavy and the roof has a spongy feel to it when walked on. When observed from the attic the cause is from the use of 3/8" plywood sheathing. This could be a safety hazard for people walking on the roof. The sheathing may not last as long as the average. See attic pictures.





EXTERIOR

CHIMNEY(S) None Location(s): **INFO**

Viewed From: Roof Ladder at eaves Ground with binoculars

Rain Cap/Spark Arrestor: Yes No *Recommended*

Chase: Brick Stone Metal Blocks Framed

Evidence of: Holes in metal Cracked chimney cap Loose mortar joints Flaking Loose Brick Rust

Flue: Tile Metal *Unlined* Not visible

Evidence of: Scaling Cracks Creosote *Not evaluated (See remarks page)*

Have flue(s) cleaned and re-evaluated *Recommend Cricket/Saddle/Flashing*

Condition: Satisfactory Marginal Poor

GUTTERS/SCUPPERS/EAVESTROUGH None *Needs to be cleaned* *Downspouts needed*

Material: Copper Vinyl/Plastic Galvanized/Aluminum Other

Condition: Satisfactory Marginal Poor *Rusting*

Leaking: Corners Joints *Hole in main run*

Attachment: Loose *Missing spikes* *Improperly sloped (See remarks page)*

Extension needed: North South East West

SIDING (*See remarks page EIFS)

Material: Stone Slate Block/Brick Fiberboard Fiber-cement Stucco

EIFS* Asphalt Wood Metal/Vinyl Other

Typical cracks *Monitor* *Wood rot* Peeling paint *Loose/Missing/Holes*

Condition: Satisfactory Marginal Poor *Recommend repair/painting*

TRIM, SOFFIT, FASCIA, FLASHING

Material: Wood Fiberboard Aluminum/Steel Fiber Cement Stucco

Recommend repair/painting *Damaged wood* Other

Condition: Satisfactory Marginal Poor

Recommend having a qualified painter paint/patch and caulk exterior trim.



CAULKING

Condition: Satisfactory Marginal Poor

Recommend around windows/doors/masonry ledges/corners/utility penetrations

WINDOWS & SCREENS *Failed/fogged insulated glass*

Material: Wood Metal Vinyl Aluminum/Vinyl Clad

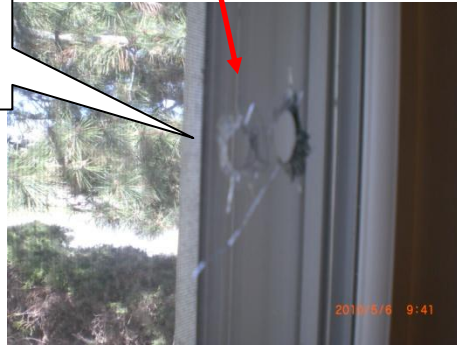
Screens: Torn Bent Not installed Glazing/caulk needed

Condition: Satisfactory Marginal Poor *Wood rot* *Recommend repair/painting*

Most windows are vynal double paned. Front bedroom has a hole through both panes of glass. Recommend repair by a qualified window contractor.



Front bedroom has a hole through both panes of glass. Recommend repair by a qualified window contractor.



Back (2) windows: Metal with Storms. Missing screens.

STORMS WINDOWS

- None
 Not installed
 Wood
 Clad comb.
 Wood/metal comb.
Putty:
 Satisfactory
 Glazing/caulk needed
 N/A
Condition:
 Satisfactory
 Broken/cracked
 Wood rot
 Recommend repair/painting

SLAB-ON-GRADE/FOUNDATION

- N/A (See Basement/Crawl Space)
Stem Wall:
 Concrete block
 Poured concrete
 Other
Condition:
 Satisfactory
 Marginal
 Poor
 Not visible
Slab:
 Post tensioned
 Poured concrete
 Other
Condition:
 Satisfactory
 Marginal
 Poor
 (See comments page)

GENERAL COMMENTS

GUTTERS AND DOWNSPOUTS:

Gutters were in overall adequate condition.
 Insides of gutters are full of debris and need to be cleaned out.
 Maintain downspout discharge away from the house.
 Recommend adding downspout extensions to discharge away from the house. Six foot - eight foot extensions recommended.

SIDING:

Siding had some damage and was in need of repair.
 Brick and mortar appeared to be in overall adequate condition.
 Normal caulking maintenance would be helpful.

STORMS AND SCREENS:

Some missing storms and screens were evident.

TRIM:

Trim had some deterioration and was in need minor repairs and painting.



ELECTRICAL/A/C - HEAT PUMP

SERVICE ENTRY

- Underground Overhead *Weather head/mast needs repair*
Exterior outlets: Yes No **Operative:** Yes No
GFCI present: Yes No **Operative:** Yes No
 Reverse polarity Open ground Safety Hazard
- Condition: Sat. Marginal Poor
 Overhead wires too low
 Less than 3' from balcony/deck/windows

Electrical panel installed above the window well. This does not allow the proper working space in front of the panel. An electrician could accidentally step in the window well while working on the pane. Recommend further evaluation by a licensed electrician.



Electric service riser pipe is metal and starting to rust. Recommend evaluation by a licensed electrician.

BUILDING(S) EXTERIOR WALL CONSTRUCTION

- Type:** Not visible Framed Masonry Other
Condition: Satisfactory Marginal Poor Not visible

EXTERIOR DOORS

- | | | | | |
|---|--|--|--|----------------------------------|
| Weatherstripping: <input checked="" type="checkbox"/> Satisfactory | Patio <input type="checkbox"/> Marginal | Storm <input type="checkbox"/> Poor | Entrance <input type="checkbox"/> Missing | <input type="checkbox"/> Replace |
| Door Condition: <input checked="" type="checkbox"/> Satisfactory | <input type="checkbox"/> Marginal | <input type="checkbox"/> Poor | | |

EXTERIOR A/C - HEAT PUMP

- UNIT #1:** N/A **Location:**
 Brand: **INFO** Model #: **INFO** Approximate age: **INFO** yrs.
Outside Disconnect: Yes No Maximum fuse/breaker rating: ??? Amp Fuses/breakers installed: ??? Amp
Level: Yes No *Cabinet/housing rusted* *Improperly sized fuses/breakers*
Condenser Fins: *Damaged* Need cleaning *Damaged base/pad*
Condition: Satisfactory Marginal Poor



GARAGE

TYPE

- None
 Attached Detached 1-car 2-car 3-car 4-car

AUTOMATIC OPENER

- Yes No Operable Inoperable *Remote not available*

SAFETY REVERSE

- Operable:** Pressure reverse Electric eye *Need(s) adjusting* *Safety hazard*

ROOFING

- Material:** Same as house Type: **INFO** Approx. Age: **INFO** Approx. layers: **INFO**

GUTTERS / EAVESTROUGH

- Condition:** Satisfactory None Marginal Poor

SIDING / TRIM

- Siding:** Same as house Wood Metal Vinyl
 Stucco Masonry Slate Fiberboard
- Trim:** Same as house Wood Aluminum Vinyl

FLOOR

- Material:** Concrete Gravel Asphalt Dirt Other
Condition: Satisfactory Typical cracks *Large settling cracks* *Recommend evaluation/repair*
Burners less than 18" above garage floor: N/A Yes No *Safety hazard*

SILL PLATES

- Not visible Floor level Elevated *Rotted/Damaged* *Recommend repair*

OVERHEAD DOOR(S)

- N/A
Material: Wood Fiberglass Masonite Metal *Recommend repair*
Condition: Satisfactory Marginal Poor *Overhead door hardware loose*
Recommend Priming/Painting Inside & Edges: Yes No *Recommend lubrication* *Weatherstripping missing/damaged*

EXTERIOR SERVICE DOOR

- None
Condition: Satisfactory Marginal Poor *Damaged/Rusted*

ELECTRICITY PRESENT

- Yes No Not visible
Reverse polarity: Yes No **Open ground:** Yes No *Safety hazard*
GFCI Present: Yes No **Operates:** Yes No *Handyman/extension cord wiring*

FIRE SEPARATION WALLS & CEILING *(Between garage & living area)*

- N/A Present *Missing*
Condition: Satisfactory *Safety hazard(s)* *Recommend repair* *Holes walls/ceiling*
Fire door: Not verifiable *Not a fire door* *Needs repair* Satisfactory
 N/A Satisfactory Inoperable Missing *Needs repair*
Moisture Stains Present: Yes No **Typical Cracks:** Yes No

GENERAL COMMENTS

INFO



COUNTERTOPS

Satisfactory Marginal *Recommend repair/caulking*

CABINETS

Satisfactory Marginal *Recommend repair/adjustment*



PLUMBING COMMENTS

Faucet Leaks: Yes No **Pipes leak/corroded:** Yes No
Sink/Faucet: Satisfactory Corroded Chipped Cracked *Recommend repair*
Functional Drainage: Adequate Poor **Functional Flow:** Adequate Poor

WALLS & CEILING

Condition: Satisfactory Marginal Poor Typical cracks *Moisture stains*

HEATING / COOLING SOURCE

Yes No

FLOOR

Condition: Satisfactory Marginal Poor Sloping Squeaks

APPLIANCES

(See remarks page)

<input checked="" type="checkbox"/> Disposal	Operates:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Trash compactor	Operates:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Oven	Operates:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Exhaust fan	Operates:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Range	Operates:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Refrigerator	Operates:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Dishwasher	Operates:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Microwave	Operates:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Other	Operates:	<input type="checkbox"/> Yes	<input type="checkbox"/> No				

Dishwasher Airgap: Yes No **Dishwasher Drain Line Looped:** Yes No
Outlets Present: Yes No Operable: Yes No
G.F.C.I.: Yes No Operable: Yes No
Open ground/Reverse polarity within 6' of water: Yes No *Potential safety hazard(s)*

GENERAL COMMENTS

PLUMBING SUPPLY:
 Water flow was normal with several fixtures operated at the same time.
 There were no visible active piping leaks at the time of the inspection.
DRAINAGE:
 Drain lines had no visible leaks or signs of backup at the time of inspection.
ELECTRICAL:
 GFCI outlets not present. Recommend installation by a qualified licensed electrician

LAUNDRY ROOM

ROOM COMPONENTS

- | | | | | | | | | |
|-------------------------------------|--|--|---|---|---|---|--|--|
| Laundry sink: | <input checked="" type="checkbox"/> N/A | Faucet leaks: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Pipes leak: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Cross connections: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Heat source present: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Room vented: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Dryer vented: | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Wall | <input type="checkbox"/> Ceiling | <input type="checkbox"/> Floor | <input type="checkbox"/> Not vented | <input type="checkbox"/> <i>Safety hazard</i> | | |
| | | <input type="checkbox"/> <i>Not vented to Exterior</i> | <input checked="" type="checkbox"/> <i>Recommend repair</i> | | <input type="checkbox"/> <i>Safety hazard</i> | | | |
| Electrical: | Open ground/reverse polarity within 6' of water: | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | | |
| G.F.C.I. present: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Operates: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |
| Appliances: | <input checked="" type="checkbox"/> Washer | <input checked="" type="checkbox"/> Dryer | <input checked="" type="checkbox"/> Water heater | <input checked="" type="checkbox"/> Furnace | | | | |
| Washer hook-up lines/valves: | | <input type="checkbox"/> Leaking | <input type="checkbox"/> Corroded | <input type="checkbox"/> Not visible | | | | |
| Gas Shut-off Valve: | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Cap Needed | <input type="checkbox"/> <i>Safety hazard</i> | <input type="checkbox"/> Not visible | | |

Recommend replacing the upper portion of the dryer vent with solid piping. The flex piping should only be used on the final few feet connecting to the dryer.

Plumbing pipes not secured. Recommend repair by a licensed



Concrete floor is cracked. It doesn't appear to be an active crack. Monitor.

GENERAL COMMENTS

INFO



BATHROOM(S)

BATH: FIRST FLOOR
BATH

SINKS / TUBS / SHOWERS

Faucet leaks: Yes No **Loose:** Yes No **Pipes leak:** Yes No
Fixture(s) Condition: Satisfactory Marginal Poor

TOILET

Bowl Loose: Yes No **Operates:** Yes No Toilet leaks Cracked bowl/tank Cross connection

SHOWER / TUB AREA / SINK(S)

Material: Ceramic/Plastic Fiberglass Masonite Other
Condition: Satisfactory Marginal Poor Rotted floors
Caulk/Grouting Needed: Yes No Where: **Base at tub is falling off.**
Functional Drainage: Adequate Poor **Functional Flow:** Adequate Poor
Whirlpool Operable: N/A Yes No Access panel to pump/motor: Yes No

WALLS / CEILING / CABINETS

Moisture stains present: Yes No **Outlets present:** Yes No
G.F.C.I. Present: Yes No **Operates:** Yes No
Open ground/Reverse polarity within 6' of water: Yes No **Potential safety hazards present:** Yes No

HEATING / COOLING SOURCE

Yes No
Window/Door: Yes No Satisfactory Marginal Poor
Exhaust Fan: Yes No **Operates:** Yes No **Noisy:** Yes No

GENERAL COMMENTS

Exhaust fan not present.

PLUMBING:

Plumbing access panels for tub in kitchen and in lower level above basement shower.

Tub cold water valve stripped and non-functional. Recommend repair by a licensed plumber.

When the hot water is on water leaks out of the cold valve.

The shower bypass doesn't work. No water flows to the shower head.

ELECTRICAL:

Recommend installation of GFCI outlet(s) by a licensed electrician.

BATH: BASEMENT BATH

SINKS / TUBS / SHOWERS

Faucet leaks: Yes No **Loose:** Yes No **Pipes leak:** Yes No
Fixture(s) Condition: Satisfactory Marginal Poor

TOILET

Bowl Loose: Yes No **Operates:** Yes No Toilet leaks Cracked bowl/tank Cross connection

SHOWER / TUB AREA / SINK(S)

Material: Ceramic/Plastic Fiberglass Masonite Other
Condition: Satisfactory Marginal Poor Rotted floors
Caulk/Grouting Needed: Yes No Where:
Functional Drainage: Adequate Poor **Functional Flow:** Adequate Poor
Whirlpool Operable: N/A Yes No Access panel to pump/motor: Yes No

WALLS / CEILING / CABINETS

Moisture stains present: Yes No **Outlets present:** Yes No

G.F.C.I. present: Yes No
Open ground/Reverse polarity within 6' of water:

Operates: Yes No
 Yes No **Potential safety hazards present:** Yes No

HEAT / COOLING SOURCE Yes No

Window/Door: Yes No Satisfactory

Exhaust Fan: Yes No

Operates:

Marginal Poor

Yes No

Noisy: Yes No

GENERAL COMMENTS

FAUCET/PIPES:

Faucet is leaking - recommend repair and/or replacement as necessary.

EXHAUST:

Exhaust fan not present.

ELECTRICAL:

Recommend installation of GFCI outlet(s) by a licensed electrician.


**LOCATION: FIRST FLOOR
BEDROOM #1 & 2**

Walls & Ceiling: Satisfactory Marginal Poor
Moisture stains: Yes No Where: Squeaks Slopes
Floor: Satisfactory Marginal Poor No
Typical cracks: Yes No
Ceiling Fan: N/A Satisfactory Marginal Poor
Electrical: **Switches:** Yes No **Outlets:** Yes No **Operates:** Yes No
Open ground/Reverse polarity: Yes No Coverplates missing Safety Hazard
Heating/Cooling Source: Yes No **Holes:** Doors Walls Ceilings
Bedroom Egress Restricted: N/A Yes No
Doors & Windows: Operational: Yes No
 Locks/Latches Operable: Yes No Missing Cracked Glass

GENERAL COMMENTS

WINDOW/DOOR:
 Front bedroom window has hole in glass - recommend repair.

LOCATION: FIRST FLOOR LIVING ROOM

Walls & Ceiling: Satisfactory Marginal Poor
Moisture stains: Yes No Where: Squeaks Slopes
Floor: Satisfactory Marginal Poor No
Typical cracks: Yes No
Ceiling Fan: N/A Satisfactory Marginal Poor
Electrical: **Switches:** Yes No **Outlets:** Yes No **Operates:** Yes No
Open ground/Reverse polarity: Yes No Coverplates missing Safety Hazard
Heating/Cooling Source: Yes No **Holes:** Doors Walls Ceilings
Bedroom Egress Restricted: N/A Yes No
Doors & Windows: Operational: Yes No
 Locks/Latches Operable: Yes No Missing Cracked Glass

GENERAL COMMENTS

INFO

LOCATION: BASEMENT BEDROOM S.E.

Walls & Ceiling: Satisfactory Marginal Poor
Moisture stains: Yes No Where: Squeaks Slopes
Floor: Satisfactory Marginal Poor No
Typical cracks: Yes No
Ceiling Fan: N/A Satisfactory Marginal Poor
Electrical: **Switches:** Yes No **Outlets:** Yes No **Operates:** Yes No
Open ground/Reverse polarity: Yes No Coverplates missing Safety Hazard
Heating/Cooling Source: Yes No **Holes:** Doors Walls Ceilings
Bedroom Egress Restricted: N/A Yes *Small tilt out style.* No
Doors & Windows: Operational: Yes No
 Locks/Latches Operable: Yes No Missing Cracked Glass

GENERAL COMMENTS

Closet is unfinished.



LOCATION: BASEMENT BEDROOM N. E.

Walls & Ceiling: Satisfactory Marginal Poor
Moisture stains: Yes No **Where:** Squeaks Slopes
Floor: Satisfactory Marginal Poor No
Typical cracks: Yes No
Ceiling Fan: N/A Satisfactory Marginal Poor
Electrical: **Switches:** Yes No **Outlets:** Yes No **Operates:** Yes No
Open ground/Reverse polarity: Yes No Coverplates missing **Safety Hazard**
Heating/Cooling Source: Yes No **Holes:** Doors Walls Ceilings
Bedroom Egress Restricted: N/A Yes **Small tilt out style.** No
Doors & Windows: Operational: Yes No
 Locks/Latches Operable: Yes No Missing Cracked Glass

GENERAL COMMENTS

Main water shut off valve in this room.
 Hose bib shut off valve in this room.

LOCATION: BASEMENT FAMILY ROOM

Walls & Ceiling: Satisfactory Marginal Poor
Moisture stains: Yes No **Where:** Squeaks Slopes
Floor: Satisfactory Marginal Poor No
Typical cracks: Yes No
Ceiling Fan: N/A Satisfactory Marginal Poor
Electrical: **Switches:** Yes No **Outlets:** Yes No **Operates:** Yes No
Open ground/Reverse polarity: Yes No Coverplates missing **Safety Hazard**
Heating/Cooling Source: Yes No **Holes:** Doors Walls Ceilings
Bedroom Egress Restricted: N/A Yes No
Doors & Windows: Operational: Yes No
 Locks/Latches Operable: Yes No Missing Cracked Glass

GENERAL COMMENTS

INFO



INTERIOR WINDOWS / GLASS

- Condition:** Satisfactory Marginal Poor Needs repair
 Representative number of windows operated Painted shut (See remarks page)
- Evidence of Leaking Insulated Glass:** Yes @ bedroom see exterior page No N/A **Safety Glazing Needed:**
 Yes No
- Glazing compound needed Cracked glass Hardware missing Broken counter-balance mechanism
- Security Bars Present:** Yes No Not tested Safety hazard Test release mechanism before moving in

FIREPLACE

- None Location(s): **INFO**
- Type:** Gas (Not Tested) Wood Woodburner stove (See remarks page) Electric Ventless
- Material:** Masonry Metal (pre-fabricated) Metal insert
- Miscellaneous:** Blower built-in Operates: Yes No **Damper operates:** Yes No
 Open joints or cracks in firebrick/panels should be sealed Fireplace doors need repair
- Damper Modified for Gas Operation:** Yes No Damper missing Pre-fab panels damaged/worn
- Hearth Adequate:** Yes No **Mantle:** N/A Satisfactory Adequate Loose/missing
- Physical Condition:** Satisfactory Marginal Poor Recommend having flue cleaned and re-examined

STAIRS / STEPS / BALCONIES

- Satisfactory Marginal Poor None
- Handrail:** Satisfactory Marginal Poor Safety hazard
- Risers/Treads:** Satisfactory Marginal Poor Risers/Treads uneven

SMOKE / CARBON MONOXIDE DETECTORS (See remarks page)

- Present:** Smoke Detector: Yes No **Operates:** Yes No Not tested
CO Detector: Yes No **Operates:** Yes No Not tested

ATTIC/STRUCTURE/FRAMING/INSULATION

- N/A
- Access:** Stairs Pulldown Scuttlehole/Hatch No access Other
- Inspected From:** Access panel In the attic Other
- Location:** Bedroom hall Bedroom closet Garage Other
- Access Limited By:**
- Flooring:** Complete Partial None
- Insulation:** Type: Fiberglass, Rockwool Batts Loose Average inches: 3-9 Approx. R-rating: R-19
 Damaged Displaced Missing Compressed Recommend Baffles @ Eaves
- Installed In:** Rafters Walls Between ceiling joists Not visible
 Recommend additional insulation
- Ventilation:** Ventilation appears adequate Recommend additional ventilation
- Fans Exhausted To:** N/A Attic: Yes No Outside: Yes No Not visible
- HVAC Duct:** Satisfactory Damaged Split Disconnected Leaking Repair/Replace
- Chimney Chase:** N/A Satisfactory Needs repair Not visible
- Structural Problems Observed:** Yes No Recommend repair Recommend Structural Engineer
- Roof Structure:** Rafters Trusses Wood Metal Other
- Collar Ties Present:** Yes No N/A
- Roof Sheathing:** Plywood 3/8" OSB 1x Wood Rotted Stained
 Delaminated
- Evidence of Condensation/Moisture Leaking:** Yes No (See remarks page)
- Ceiling Joists:** Wood Metal Other Not visible
- Vapor Barriers:** Kraft/foil faced Plastic Not visible Improperly installed
- Firewall Between Units:** N/A Yes No Needs repair/sealing (See remarks page)
- Electrical:** Open junction box(es) Handyman wiring Visible knob-and-tube

GENERAL COMMENTS

SMOKE DETECTOR:

Change smoke detector batteries every 6 months.

SHEATHING:

Sheathing, examined from the attic, had some water damage, repair as needed.

Sheathing, examined from the attic, was thin and spongy, but still functional.

ATTIC INSULATION:

Insulation was poor and should be improved.

Insulation had been disturbed and should be repaired.

ATTIC VAPOR BARRIER:

Vapor barrier not visible.

Evidence of water leak. Unknown if this is an active leak or if corrected the last time the roof was replaced. If desired have a qualified roofer evaluate further.



Insulation: Two different types. Also displaced.



Insulation missing above living room. Recommend having entire attic insulation evaluated/repared by a qualified insulator.



Evidence of a section of sheetrock replaced in living room ceiling. There is no insulation in this area.



Evidence of water leak. Unknown if this is an active leak or if corrected the last time the roof was replaced. If desired have a qualified roofer





STAIRS N/A

- Condition:** Satisfactory Marginal Poor Typical wear and tear Need repair
Handrail: Yes No **Condition:** Satisfactory Loose
Headway Over Stairs: Satisfactory Low clearance Safety hazard

FOUNDATION **Condition:** Satisfactory Marginal Have evaluated Monitor Monitor

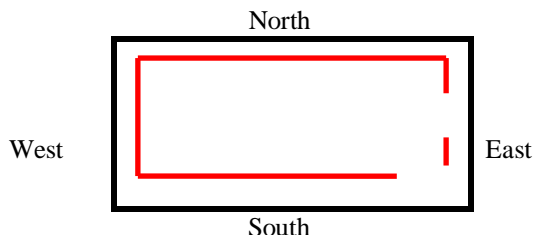
- Material:** Brick Concrete block Fieldstone Poured concrete
Horizontal Cracks: North South East West
Step Cracks: North South East West
Vertical Cracks: North South East West
Covered Walls: North South East West
Movement Apparent: North South East West
Indication Of Moisture: Yes No Fresh Old stains

Condition reported above reflects visible portion only

BASEMENT/CRAWL SPACE WALLS

Diagram indicates where wall not visible and type of covering:

- P = Paneling C = Crack(s)
D = Drywall M = Monitor
 S = Storage E = Evaluate
 O = Other



- FLOOR** **Material:** Concrete Dirt/Gravel Not visible Other
Condition: Satisfactory Marginal Poor Typical cracks

SEISMIC BOLTS

- N/A None visible Appear satisfactory Recommend evaluation

BASEMENT DRAINAGE

- Sump Pump:** Yes No Working Not working Needs cleaning Not tested
Floor Drains: Yes Not visible **Tested:** Yes No Efflorescence present

GIRDERS / BEAMS / COLUMNS **Material:** Steel Wood Block Concrete
 Not visible

- Condition:** Satisfactory Marginal Poor Stained/rusted

JOISTS **Material:** Wood Steel Truss Not visible
 2x8 2x10 2x12 Engineered I-Type Sagging/altered joists

- Condition:** Satisfactory Marginal Poor

SUB FLOOR

- Indication of moisture stains/rotting
 ** Areas around shower stalls, etc., as viewed from basement or crawl space

GENERAL COMMENTS

FOUNDATION:
 Foundation had some typical minor cracks, some had been patched. Recommend monitoring the cracks for future movement. Foundation walls were covered with paneling/drywall and were not visible.
FLOOR:
 Floor had typical shrinkage cracks.



CRAWL SPACE

CRAWL SPACE N/A Full crawlspace Combination basement/crawl space/slab
 Conditioned (heated/cooled): Yes No

ACCESS Exterior Interior hatch door Via basement No Access
Inspected from: Access panel In the crawl space

FOUNDATION WALLS **Condition:** Satisfactory Marginal *Have evaluated* *Monitor*
 Concrete block Poured Stone
 Wood Brick Piers & columns
 Cracks Movement

FLOOR
 Concrete Gravel Dirt Other
 Typical cracks

SEISMIC BOLTS
 N/A None visible Appear satisfactory Recommend evaluation

DRAINAGE
 Outside drain None apparent Sump pump: Yes No Operable: Yes No
Evidence of moisture damage: Yes No

VENTILATION Wall vents Power vents None apparent

GIRDERS / BEAMS / COLUMNS Steel Wood Masonry Not visible
Condition: Satisfactory Marginal Poor

JOISTS **Material:** Wood Steel Truss Not visible *Sagging/altered joists*
 2x8 2x10 2x12 Engineered I-Type
Condition: Satisfactory Marginal Poor

SUB FLOOR Not visible Wood Concrete Other

MOISTURE STAINS None Walls Sub floor Other

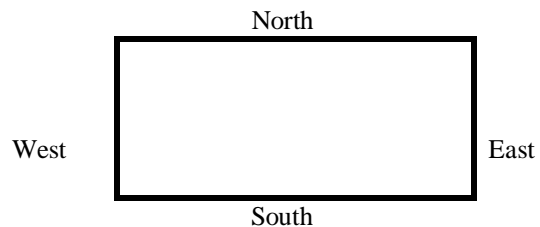
INSULATION None **Type:** **INFO**
Location: Walls Between floor joists Other

VAPOR BARRIER Yes No Other Not visible
 Kraft/foil face Plastic

BASEMENT/CRAWL SPACE WALLS

Diagram indicates where wall not visible and type of covering:

- P = Paneling
- D = Drywall
- S = Storage
- O = Other
- C = Crack(s)
- M = Monitor
- E = Evaluate



GENERAL COMMENTS

INFO



WATER SERVICE

Main Shut-off Location: In the basement

- Water Entry Piping:** Not visible Copper/Galv. Plastic* (PVC, CPVC, Polybutylene, PEX) Unknown
- Visible Water Distribution Piping:** Copper Galvanized Plastic* (PVC, CPVC, Polybutylene, PEX) Unknown
- Condition:** Satisfactory Marginal Poor
- Lead Other Than Solder Joints:** Yes No Unknown Service entry
- Functional Flow:** Adequate Poor Water pressure over 80 psi
- Pipes, Supply/Drain:** Corroded Leaking Valves broken/missing Dissimilar metal
- Drain/Waste/Vent Pipe:** Copper Cast iron Galvanized PVC ABS
- Condition:** Satisfactory Marginal Poor **Cross connection:** Yes No
- Support/Insulation:** Type: Metal strapping
- Traps Proper P-Type:** N/A Yes No P-traps recommended
- Functional Drainage:** Adequate Poor Recommend plumber evaluate
- Interior Fuel Storage System:** Yes No Leaking: Yes No
- Gas Line:** Copper Brass Black iron Stainless steel CSST Not visible
- Condition:** Satisfactory Marginal Poor

Main water shut off in lower level N. W. bedroom. There is a towel wrapped around the pipe around the pipe. Recommend having a licensed plumber evaluate if there is a leak.



Water shut off area. Evidence of moisture intrusion. This is below the N. W. corner where the water pools as shown in the exterior pictures at hose bib.

MAIN FUEL SHUT-OFF LOCATION

On the side exterior wall N/A

WELL PUMP

- N/A Submersible
- Location:** In basement Well house Well pit Shared well
- Pressure Gauge Operates:** Yes No Unknown **Well pressure:** ??? psi Not visible

SANITARY / GRINDER PUMP

- N/A
- Sealed Crock:** Yes No **Check Valve:** Yes No **Vented:** Yes No

WATER HEATER #1

- N/A **Condition:** Satisfactory Marginal Poor
- Brand name:** GE **Serial #:** GENG1202418973
- Type:** Gas Electric Oil Other
- Unit Elevated:** Yes No N/A Tank/Piping corroded/leaking
- Capacity:** 40 gallons **Approximate age:** 5-10+ year(s)
- Combustion Air Venting Present:** Yes No N/A **Seismic restraints needed:** Yes No N/A
- Relief Valve:** Yes No **Extension proper:** Yes No Missing Recommend repair
- Vent Pipe:** N/A Satisfactory Pitch proper Improper Rusted
- Recommend repair**

Water heater connections have some corrosion. Recommend repair by a licensed plumber.



Water heater gas shut off valve.



GENERAL COMMENTS

INFO



HEATING SYSTEM

HEATING SYSTEM - UNIT #1

Location: In the basement utility room

(See remarks page)

Brand Name: Trane Approximate age: 15-20+ year(s) Unknown
 Model #: TUE080A936K3 Serial #: R332NLY2G

Energy Source: Gas LP Oil Electric Solid Fuel
Warm Air System: Belt drive Direct drive Gravity Central system Floor/Wall unit
Heat Exchanger: N/A (sealed) Visual w/mirror *Flame distortion* *Rusted* *Carbon/soot buildup*
Carbon Monoxide: N/A Detected at Plenum/Register Not tested
CO Test: Tester: TIFF 8800A **Combustion Air Venting Present:** Yes No N/A
Controls: Disconnect: Yes No Normal operating and safety controls observed
Distribution: Metal duct Insul. flex duct Cold air returns Duct board *Asbestos-like wrap*
Flue Piping: N/A Rusted Improper slope *Safety hazard*
Supports for Piping/Insulation: N/A Yes No
Filter: Standard Electrostatic Satisfactory Needs cleaning/replacement Missing
When Turned On By Thermostat: Fired Did not fire Proper Operation: Yes No Not tested
Heat Pump: Aux. electric Aux. gas N/A **Sub-Slab ducts:** Yes No N/A
System Not Operated Due To: Exterior temperature Other
 Recommend technician CLEAN **System Condition:** Satisfactory Marginal Poor

BOILER SYSTEM

 N/A

OTHER SYSTEMS

 N/A Electric baseboard Radiant ceiling cable

GENERAL COMMENTS

FURNACE:

Furnace was in normal working order at the time of the inspection.

DUCTWORK:

Ductwork is in full of dust/debris. Recommend having all ductwork cleaned.

BLOWER:

Blower was full of dirt and was in need of cleaning.

FILTER:

Filter should be changed monthly.

Filter size: 2 filters 25x16x3/4"



ELECTRIC/COOLING SYSTEM

MAIN PANEL Location: Exterior wall Condition: Satisfactory Marginal Poor
Adequate Clearance To Panel: Yes No Amperage: 100 Volts 120/240 Breakers Fuses
Appears Grounded: Yes No Not visible
G.F.C.I. present: Yes No **Operative:** Yes No
A.F.C.I. present: Yes No **Operative:** Yes No
MAIN WIRE: Copper Aluminum Copper clad aluminum Not visible
 Tapping before the main breaker *Double tapping of the main wire*
Condition: Satisfactory Poor **Federal Pacific Panel Stab Lok® (See remarks page)***
BRANCH WIRE: Copper **Aluminum*** Copper clad aluminum Not visible
Condition: Satisfactory Poor **Recommend electrician evaluate/repair***
 Romex BX cable Conduit **Knob & tube****
 Double tapping *Wires undersized/oversized breaker/fuse*
 Panel not accessible Not evaluated Reason: **INFO**

SUB PANEL(S) None apparent
 Location 1: **INFO** Location 2: **INFO** Location 3: **INFO**
 Panel not accessible Not evaluated Reason: **INFO**
Branch Wire: Copper Aluminum Copper clad aluminum
 Neutral/ground separated: Yes No Neutral isolated: Yes No **Safety hazard**
Condition: Satisfactory Marginal Poor **Recommend separating/isolating neutrals**

ELECTRICAL FIXTURES

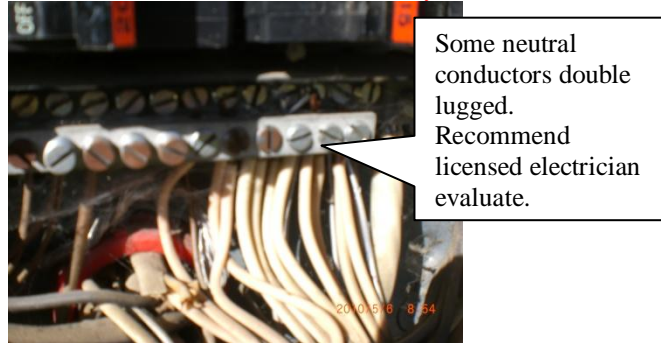
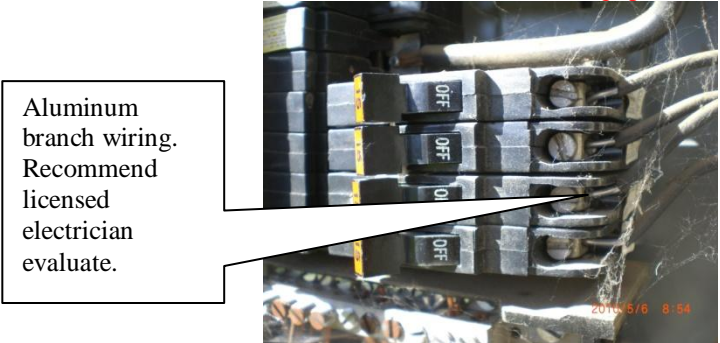
A representative number of installed lighting fixtures, switches, and receptacles located inside the house, garage, and exterior walls were tested and found to be:

Condition: Satisfactory Marginal Poor
 Open grounds Reverse polarity GFCIs not operating
 Solid conductor aluminum branch wiring circuits* (See remarks page)
 Ungrounded 3-prong outlets **Recommend electrician evaluate/repair***

GENERAL COMMENTS

MAIN PANEL:
 Panel size appeared to be compatible to service size.
 Panel was full and may need to be upgraded for future needs.
 Panel cover was missing some screws.

Aluminum wires have been used for branch wiring (part) - recommend licensed electrician evaluate the system.



COOLING SYSTEM – UNIT #1 Central system Wall Unit Location: **INFO** Age: **INFO** yrs.

- Energy Source:** Electric Gas Water Other
- Unit Type:** Air cooled Water cooled Gas chiller Geothermal Heat pump
- Evaporator Coil:** Satisfactory Not visible Needs cleaning Damaged
- Refrigerant lines:** *Leak* *Damage* *Insulation missing* Satisfactory
- Condensate Line/Drain:** To exterior To pump Floor drain Other
- Operation:** Differential ??? °F
Difference in temperature (split) should be 14-22° Fahrenheit (*See remarks page*)
- Condition:** Satisfactory Marginal Poor
 Not operated due to exterior temperature *Recommend HVAC technician examine/clean/service*

GENERAL COMMENTS

INFO



ITEMS NOT OPERATING

**-Kitchen Range was not hooked up. Unable to test. Range is new.
1st floor shower head.**

MAJOR CONCERNS

Item(s) that have failed or have potential of failing soon.

INFO

DRIVEWAY: Maintain a positive drainage slope away from the foundation.

LANDSCAPING AFFECTING FOUNDATION:

Maintain a positive drainage slope away from the foundation.

Low areas next to the foundation need some correction.

Trees need to be trimmed away from the house.

Recommend window well covers.

PLUMBING:

Tub cold water valve stripped and non-functional. Recommend repair by a licensed plumber.

When the hot water is on water leaks out of the cold valve.

The shower bypass doesn't work. No water flows to the shower head.

FAUCET/PIPES:

Basement bathroom sink faucet is leaking - recommend repair and/or replacement as necessary.

WINDOW/DOOR:

Front bedroom window has hole in glass - recommend repair

SHEATHING:

Sheathing, examined from the attic, had some water damage, repair as needed.

Sheathing, examined from the attic, was thin and spongy, but still functional.

ATTIC INSULATION:

Insulation was poor and should be improved.

Insulation had been disturbed and should be repaired.

Insulation missing above part of living room. Install insulation.

POTENTIAL SAFETY HAZARDS

INFO

ROOF:

Roof is wavy and the roof has a spongy feel to it when walked on. When observed from the attic the cause is from the use of 3/8" plywood sheathing. This could be a safety hazard for people walking on the roof. The sheathing may not last as long as the average.

ELECTRICAL:

GFCI outlets not present throughout house. Recommend installation by a qualified licensed electrician

SMOKE DETECTOR:

Change smoke detector batteries every 6 months.

MAIN PANEL:

Aluminum (solid) wires have been used for branch wiring (part) - recommend licensed electrician evaluate the system.

DEFERRED COST ITEMS

Items that have reached or are reaching their normal life expectancy or show indications that they may require repair or replacement anytime during the next five (5) years.

Furnace that is 13+ years.
Water heater that is 5+ years.

* Items listed in this report may inadvertently have been left off the Summary Sheet. Customer should read the entire report, including the Remarks.



REMARKS

SERVICE WALKS/DRIVEWAYS

Spalling concrete cannot be patched with concrete because the new will not bond with the old. Water will freeze between the two layers, or the concrete will break up from movement or wear. Replacement of the damaged section is recommended. Walks or driveways that are close to the property should be properly pitched away to direct water away from the foundation. Asphalt driveways should be kept sealed and larger cracks filled so as to prevent damage from frost.

Patios that have settled towards the structure should be mudjacked or replaced to assure proper pitch. Improperly pitched patios are one source of wet basements.

EXTERIOR WOOD SURFACES

All surfaces of untreated wood need regular applications of paint or special chemicals to resist damage. Porch or deck columns and fence posts which are buried in the ground and made of untreated wood will become damaged within a year or two.

Decks should always be nailed with galvanized, stainless steel or aluminum nails. Decks that are not painted or stained should be treated with a water sealer.

GRADING AND DRAINAGE

Any system of grading or landscaping that creates positive drainage (moving water away from the foundation walls) will help to keep a basement dry. Where negative grade exists and additional backfill is suggested, it may require digging out around the property to get a proper pitch. Dirt shall be approximately 6" below the bottom sill and should not touch wood surfaces.

Flower beds, loose mulched areas, railroad ties and other such landscaping items close to the foundation trap moisture and contribute to wet basements. To establish a positive grade, a proper slope away from the house is 1" per foot for approximately 5-6 feet. Recommend ground cover planting or grass up to foundation.

ROOF AND SURFACE WATER CONTROL

Roof and surface water must be controlled to maintain a dry basement. This means keeping gutters cleaned out and aligned, extending downspouts, installing splashblocks, and building up the grade so that roof and surface water is diverted away from the building.

WINDOW WELLS

The amount of water which enters a window well from falling rain is generally slight, but water will accumulate in window wells if the yard is improperly graded. Plastic window well covers are useful in keeping out leaves and debris.

RETAINING WALLS

Retaining walls deteriorate because of excessive pressure buildup behind them, generally due to water accumulation. Conditions can often be improved by excavating a trench behind the retaining wall and filling it with coarse gravel. Drain holes through the wall will then be able to relieve the water pressure.

Retaining walls sometime suffer from tree root pressure or from general movement of topsoil down the slope. Normally, these conditions require rebuilding the retaining wall.

RAILINGS

It is recommended that railings be installed for any stairway over 3 steps and porches over 30" for safety reasons. Balusters for porches, balconies, and stairs should be close enough to assure children cannot squeeze through.



REMARKS

Valleys and Flashings that are covered with shingles and/or tar or any other material are considered not visible and are not part of the inspection.

Tar and Gravel Roofs are a type of covering on a pitched roof requires ongoing annual maintenance. We recommend that a roofing contractor evaluate this type of roof. Infra-red photography is best used to determine areas of potential leaks.

Flat roofs are very vulnerable to leaking. It is very important to maintain proper drainage to prevent the ponding of water. We recommend that a roofing contractor evaluate this type of roof.

ROOF TYPE	LIFE EXPECTANCY	SPECIAL REMARKS
<i>Asphalt Shingles</i>	15-20 years	Used on nearly 80% of all residential roofs; requires little maintenance
<i>Asphalt Multi-Thickness Shingles*</i>	20-30 years	Heavier and more durable than regular asphalt shingles
<i>Asphalt Interlocking Shingles*</i>	15-25 years	Especially good in high-wind areas
<i>Asphalt Rolls</i>	10 years	Used on low slope roofs
<i>Built-up Roofing</i>	10-20 years	Used on low slope roofs; 2 to 3 times as costly as asphalt shingles
<i>Wood Shingles*</i>	10-40 years ¹	Treat with preservative every 5 years to prevent decay
<i>Clay Tiles*</i> <i>Cement Tiles*</i>	20 + years 20 + years	Durable, fireproof, but not watertight, requiring a good subsurface base
<i>Slate Shingles*</i>	30-100 years ²	Extremely durable, but brittle and expensive
<i>Asbestos Cement Shingles*</i>	30-75 years	Durable, but brittle and difficult to repair
<i>Metal Roofing</i>	15-40 + years	Comes in sheets & shingles; should be well grounded for protection from lightning; certain metals must be painted
<i>Single Ply Membrane</i>	15-25 years (mfr's claim)	New material; not yet passed test of time
<i>Polyurethane with Elastomeric Coating</i>	5-10 years ¹	Used on low slope roofs.

* Not recommended for use on low slope roof

¹ Depending on local conditions and proper installation

² Depending on quality of slate

Roof coverings should be visually checked in the spring and fall for any visible missing shingles, damaged coverings or other defects. Before re-roofing, the underside of the roof structure and roof sheathing should be inspected to determine that the roof structure can support the additional weight of the shingles.

Wood shakes and shingles will vary in aging, due to the quality of the material, installation, maintenance, and surrounding shade trees. Ventilation and drying of the wood material is critical in extending the life expectancy of the wood. Commercial preservatives are available on the market, which could be applied to wood to impede deterioration.



REMARKS

CHIMNEYS

Chimneys built of masonry will eventually need tuckpointing. A cracked chimney top that allows water and carbonic acid to get behind the surface brick/stone will accelerate the deterioration. Moisture will also deteriorate the clay flue liner. Periodic chimney cleaning will keep you apprised of the chimney's condition. The flashing around the chimney may need resealing and should be inspected every year or two. Fireplace chimneys should be inspected and evaluated by a chimney professional before using. Chimneys must be adequate height for proper drafting. Spark arrestors are recommended for a wood burning chimney, and chimney caps for fossil fuels.

Unlined Chimney should be re-evaluated by a chimney technician.

Have flue cleaned and re-evaluated. The flue lining is covered with soot or creosote and no representation can be made as to the condition.

NOT EVALUATED

The flue was not evaluated due to inaccessibility such as roof pitch, cap, cleanout not accessible, etc.

CRICKET FLASHING

Small, sloped structure made of metal and designed to drain moisture away from a chimney. Usually placed at the back of a chimney.

GUTTERS AND DOWNSPOUTS

This is an extremely important element in basement dampness control. Keep gutters clean and downspout extensions in place (4' or more). Paint the inside of galvanized gutters, which will extend the life. Shortly after a rain or thaw in winter, look for leaks at seams in the gutters. These can be recaulked before they cause damage to fascia or soffit boards. If no gutters exist, it is recommended that they be added.

SIDING

Wood siding should not come in contact with the ground. The moisture will cause rotting to take place and can attract carpenter ants. See page 34 for siding that have known problems, but are not always recognizable. EIFS This type of siding is a synthetic stucco and has experienced serious problems. It requires a certified EIFS inspector to determine condition.

Brick and stone veneer must be monitored for loose or missing mortar. Some brick and stone are susceptible to spalling. This can be caused when moisture is trapped and a freeze/thaw situation occurs. There are products on the market that can be used to seal out the moisture. This holds true for brick and stone chimneys also.

Metal siding will dent and scratch. Oxidation is a normal reaction in aluminum. There are good cleaners on the market and it is recommended that they be used occasionally. Metal siding can be painted.

DOORS AND WINDOWS

These can waste an enormous amount of energy. Maintain the caulking around the frames on the exterior. Check for drafts in the winter and improve the worst offenders first. Windows that have leaky storm windows will usually have a lot of sweating. Likewise, well-sealed storms that sweat indicate a leaky window. It is the tighter unit that will sweat (unless the home has excess humidity to begin with).

Wood that exhibits blistering or peeling paint should be examined for possible moisture sources: roof leaks, bad gutters, interior moisture from baths or laundry or from a poorly vented crawl space. Some paint problems have no logical explanation, but many are a symptom of an underlying problem. A freshly painted house may mask these symptoms, but after you have lived in the home for a year or two, look for localized paint blistering (peeling). It may be a clue.

New glazing will last longer if the raw wood is treated with boiled linseed oil prior to glazing. It prevents the wood from drawing the moisture out of the new glazing.

CAULKING

Many different types of caulk are available on the market today. Check with a paint or hardware store for the kind of application you need.



ELECTRICAL/A/C - HEAT PUMP

REMARKS

EXTERIOR DOORS

The exposed side of exterior doors needs to be painted or properly stained and varnished to prevent discoloring and delamination. Weatherstripping is a must to prevent drafts.

ELECTRICAL

Extension cord wiring to an automatic door opener should be removed and an outlet should be installed by the opener.



GARAGE

REMARKS

OVERHEAD DOOR OPENERS

We recommend that a separate electrical outlet be provided. Openers that do not have a **safety reverse** are considered a safety hazard. Small children and pets are especially vulnerable. We recommend the operating switches be set high enough so children cannot reach them. If a electric sensor is present, it should be tested occasionally to ensure it is working.

GARAGE SILL PLATES should be elevated or treated lumber should be used. If this is not the case, try to direct water away to prevent rotting.

A/C COMPRESSORS

They should not become overgrown with foliage. Clearance requirements vary, but 2' on all sides should be considered minimal with up to 6' of air discharge desirable. If a clothes dryer vent is within five to ten feet, either relocate the vent or do not run when the A/C is running. The lint will quickly reduce the efficiency of the A/C unit.

BURNERS

Any appliance such as a water heater, furnace, etc. should have the flame a minimum of 18" above the floor. Any open flame less than 18" from the floor is a potential safety hazard. The appliance should also be protected from vehicle damage.



KITCHEN REMARKS

PLASTER ON WOOD LATH

Plaster on wood lath is an old technique and is no longer in general use. Wood lath shrinks with time and the nails rust and loosen. As a result, the plaster may become fragile and caution is needed in working with this type of plastering system. Sagging ceilings are best repaired by laminating drywall over the existing plaster and screwing it to the ceiling joists.

PLASTER ON GYPSUM LATH (ROCK LATH)

Plaster on gypsum lath will sometimes show the seams of the 16" wide gypsum lath, but this does not indicate a structural fault. The scalloping appearance can be leveled with drywall joint compound and fiberglass mesh joint tape or drywall can be laminated over the existing plaster on the ceiling.

WOOD FLOORING

Always attempt to clean wood floors first before making the decision to refinish the floor. Wax removers and other mild stripping agents plus a good waxing and buffing will usually produce satisfactory results. Mild bleaching agents help remove deep stains. Sanding removes some of the wood in the floor and can usually be done safely only once or twice in the life of the floor.

NAIL POPS

Drywall nail pops are due to normal expansion and contraction of the wood members to which the drywall is nailed and are usually of no structural significance.

CARPETING

Where carpeting has been installed, the materials and condition of the floor underneath cannot be determined.

APPLIANCES

(If report indicated appliances were operated, the following applies) Dishwashers are tested to see if the motor operates and water sprays properly. Stoves are tested to see that burners are working and oven and broiler get hot. Timer and controls are not tested. Refrigerators are not tested.

No representation is made to continued life expectancy of any appliance.

ASBESTOS AND OTHER HAZARDS

Asbestos fibers in some form are present in many homes, but are often not visible and cannot be identified without testing.

If there is reason to suspect that asbestos may be present and if it is of particular concern, a sample of the material in question may be removed and analyzed in a laboratory. However, detecting or inspecting for the presence or absence of asbestos is not a part of our inspection.

Also excluded from this inspection and report are the possible presence of, or danger from, radon gas, lead-based paint, urea formaldehyde, toxic or flammable chemicals and all other similar or potentially harmful substances and environmental hazards.

WINDOWS

A representative number of windows are inspected.



BATHROOM(S)

REMARKS

STALL SHOWER

The metal shower pan in a stall shower has a potential or probable life of 10-20 years depending on quality of the pan installed. Although a visible inspection is made to determine whether a shower pan is currently leaking, it cannot be stated with certainty that no defect is present or that one may not soon develop. Shower pan leaks often do not show except when the shower is in actual use.

CERAMIC TILE

Bathroom tile installed in a mortar bed is excellent. It is still necessary to keep the joint between the tile and the tub/shower caulked or sealed to prevent water spillage from leaking through and damaging the ceilings below. Ceramic tile is often installed in mastic. It is important to keep the tile caulked or water will seep behind the tile and cause deterioration in the wallboard. Special attention should be paid to the area around faucets and other tile penetrations.

EXHAUST FANS

Bathrooms with a shower should have exhaust fans when possible. This helps to remove excess moisture from the room, preventing damage to the ceiling and walls and wood finishes. The exhaust fan should not be vented into the attic. The proper way to vent the fan(s) is to the outside. Running the vent pipe horizontally and venting into a gable end or soffit is preferred. Running the vent pipe vertically through the roof may cause condensation to run down the vent pipe, rusting the fan and damaging the wallboard. Insulating the vent pipe in the attic will help to reduce this problem.

SLOW DRAINS on sinks, tubs, and showers are usually due to build up of hair and soap scum. Most sink popups can be easily removed for cleaning. Some tubs have a spring attached to the closing lever that acts as a catch for hair. It may require removing a couple of screws to disassemble. If you cannot mechanically remove the obstruction, be kind to your pipes. **Don't use a caustic cleaner.** There are several bacteria drain cleaners available. They are available at hardware stores in areas where septic tanks are used. These drain cleaners take a little longer to work, but are safe for you and your pipes.

SAFETY HAZARDS

Typical safety hazards found in bathrooms are open grounds or reverse polarity by water.
Replacing these outlets with G.F.C.I.'s are recommended.

WHIRLPOOL TUBS

This relates to interior tubs hooked up to interior plumbing. Where possible, the motor will be operated to see that the jets are working. Hot tubs and spas are not inspected.



ROOMS REMARKS

DOOR STOPS

All swinging doors should be checked for door stops. Broken or missing door stops can result in door knobs breaking through drywall or plaster.

CLOSET GUIDES

Sliding closet doors should be checked to see that closet guides are in place. Missing or broken closet guides can cause scratches and damage to doors.

COLD AIR RETURNS

Bedrooms that do not have cold air returns in them should have a 3/4" gap under the doors to allow cold air to be drawn into the hall return.

AN INSPECTION VERSUS A WARRANTY

A home inspection is just what the name indicates, an inspection of a home...usually a home that is being purchased. The purpose of the inspection is to determine the condition of the various systems and structures of the home. While an inspection performed by a competent inspection company will determine the condition of the major components of the home, no inspection will pick up every minute latent defect. The inspector's ability to find all defects is limited by access to various parts of the property, lack of information about the property and many other factors. A good inspector will do his or her level best to determine the condition of the home and to report it accurately. The report that is issued is an opinion as to the condition of the home. This opinion is arrived at by the best technical methods available to the home inspection industry. It is still only an opinion.

A warranty is a policy sold to the buyer that warrants that specific items in the home are in sound condition and will remain in sound condition for a specified period of time. Typically, the warranty company never inspects the home. The warranty company uses actuarial tables to determine the expected life of the warranted items and charges the customer a fee for the warranty that will hopefully cover any projected loss and make a profit for the warranty seller. It is essentially an insurance policy.

The service that we have provided you is an inspection. We make no warranty of this property. If you desire warranty coverage, please see your real estate agent for details about any warranty plan to which their firm may have access.



REMARKS

WINDOW FRAMES AND SILLS

Window frames and sills are often found to have surface deterioration due to condensation that has run off the window and damaged the varnish. Usually this can be repaired with a solvent style refinisher and fine steel wool. This is sometimes a sign of excess humidity in the house.

See comments regarding caulking doors and windows.

FIREPLACES

It is important that a fireplace be cleaned on a routine basis to prevent the buildup of creosote in the flue, which can cause a chimney fire.

Masonry fireplace chimneys are normally required to have a terra cotta flue liner or 8 inches of masonry surrounding each flue in order to be considered safe and to conform with most building codes.

During visual inspections, it is not uncommon to be unable to detect the absence of a flue liner either because of stoppage at the firebox, a defective damper or lack of access from the roof.

WOODBURNERS

Once installed, it can be difficult to determine proper clearances for woodburning stoves. Manufacturer specifications, which are not usually available to the inspector, determine the proper installation. We recommend you ask the owner for paperwork, verifying that it was installed by a professional contractor.

VENTILATION

Ventilation is recommended at the rate of one square foot of vent area to 300 square feet of attic floor space, this being divided between soffit and rooftop. Power vents should ideally have both a humidistat and a thermostat, since ventilation is needed to remove winter moisture as well as summer heat. Evidence of condensation such as blackened roof sheathing, frost on nail heads, etc. is an indication that ventilation may have been or is blocked or inadequate.

INSULATION

The recommended insulation in the attic area is R-38, approximately 12". If insulation is added, it is important that the ventilation is proper.

SMOKE DETECTORS

Smoke detectors should be tested monthly. At least one detector should be on each level. CO detectors are not required by most states, but for safety reasons, are highly recommended.

VAPOR BARRIERS

The vapor barrier should be on the warm side of the surface. Most older homes were built without vapor barriers. If the vapor barrier is towards the cold side of the surface, it should be sliced or removed. Most vapor barriers in the attic are covered by insulation and therefore, not visible.

SAFETY GLAZING

Safety glazing requirements vary depending on the age of the home. Every attempt is made to identify areas where the lack of safety glazing presents an immediate safety hazard, such as a shower door. In some older homes it is difficult to determine if safety glazing is present, since the glass is not marked. Therefore, no representation is made that safety glazing exists in all appropriate areas.

INSULATED GLASS

Broken seal in thermopane/insulated windows are not always visible nor detectible due to humidity and temperature changes during the day. Other factors such as window covering, dirty windows, and lack of accessibility, personal property placed in front of the windows all effect the view of the windows at the time of the inspection.



REMARKS

BASEMENT

Any basement that has cracks or leaks is technically considered to have failed. Most block basements have step cracks in various areas. If little or no movement has occurred and the step cracks are uniform, this is considered acceptable. Horizontal cracks in the third or fourth block down indicate the block has moved due to outside pressure. They can be attributed to many factors such as improper grading, improperly functioning gutter and downspout system, etc. Normally if little or no movement has taken place and proper grading and downspouts exist, this is considered acceptable. If the wall containing the stress crack(s) has moved considerably, this will require some method of reinforcement. Basements that have been freshly painted or tuckpointed should be monitored for movement. This will be indicated by cracks reopening. If cracks reappear, reinforcement may be necessary. Reinforcing a basement wall can become expensive.

FOUNDATION (COVERED WALLS)

Although an effort has been made to note any major inflections or weaknesses, it is difficult at best to detect these areas when walls are finished off, or basement storage makes areas inaccessible. **No representation is made as to the condition of these walls.**

MONITOR indicates that the walls have stress cracks, but little movement has occurred. In our opinion, the cracks should be filled with mortar and the walls monitored for further movement and cracking. If additional movement or cracking occurs, reinforcement may be necessary.

HAVE EVALUATED We recommend that the walls be re-evaluated by a structural engineer or basement repair company and estimates be obtained if work is required.

VAPOR BARRIER

Floors that are dirt or gravel should be covered with a vapor barrier.

MOISTURE PRESENT

Basement dampness is frequently noted in houses and in most cases the stains, moisture or efflorescence present is a symptom denoting that a problem exists outside the home. Usual causes are improper downspout extensions or leaking gutters and/or low or improper grade (including concrete surfaces) at the perimeter of the house. A proper slope away from the house is one inch per foot for four to six feet.

Expensive solutions to basement dampness are frequently offered. It is possible to spend thousands of dollars on solutions such as pumping out water that has already entered or pumping of chemical preparations into the ground around the house, when all that may be necessary are a few common sense solutions at the exterior perimeter. However, this is not intended to be an exhaustive list of causes and solutions to the presence of moisture. **No representation is made to future moisture that may appear.**

PALMER VALVE

Many older homes have a valve in the floor drain. This drain needs to remain operational.

DRAIN TILE

We offer no opinion about the existence or condition of the drain tile, as it cannot be visibly inspected.

BASEMENT ELECTRICAL OUTLETS

We recommend that you have an outlet within 6' of each appliance. The appliance you plan to install may be different than what exists, therefore the inspection includes testing a representative number of receptacles that exist. It is also recommended to have ground fault circuit interrupts for any outlet in the unfinished part of the basement and crawl spaces.

**CRAWL SPACE**

REMARKS

CRAWL SPACES

Crawl spaces are shallow spaces between the first level floor joist and the ground. Access to this area may be from the inside, outside or not accessible at all. Ductwork, plumbing, and electrical may be installed in the space in which access may be necessary. The floor of the crawl space may be covered with concrete, gravel, or may be the original soil. A vapor barrier may be a sheet of plastic or tar paper and installed over or under this material. The vapor barrier will deter the moisture from the earth from escaping into the crawl space and causing a musty smell. Ventilation is also important to control excess moisture buildup. Vents may be located on the outside of the house and are normally kept open in the summer and closed for the winter (where freezing may occur).

The basement/crawl space diagram indicates areas that are covered and not part of a visual inspection. Every attempt is made to determine if paneling is warped, moisture stains are bleeding through, etc. Storage that blocks the visibility of a wall is not removed to examine that area. Therefore, it is important that on your walk-through before closing, you closely examine these areas.

Closed crawl spaces that have vents to the outside should have insulation under the floor above the crawl space.

HAVE EVALUATED

We recommend that the walls be re-evaluated by a structural engineer or basement repair company and estimates be obtained if work is required.

MONITOR

Indicates that the walls have stress cracks, but little movement has occurred. In our opinion, the cracks should be filled with mortar and the walls monitored for further movement and cracking. If additional movement or cracking occurs, reinforcement may be necessary.



REMARKS

WELLS

Examination of wells is not included in this visual inspection. It is recommended that you have well water checked for purity by the local health authorities and, if possible, a check on the flow of the well in periods of drought. A well pit should have a locked cover on it to prevent anyone from falling into the pit.

SEPTIC SYSTEMS

The check of septic systems is not included in our visual inspection. You should have the local health authorities or other qualified experts check the condition of the septic system.

In order for the septic system to be checked, the house must have been occupied within the last 30 days.

WATER PIPES

Galvanized water pipes rust from the inside out and may have to be replaced within 20 to 30 years. This is usually done in two stages: horizontal piping in the basement first, and vertical pipes throughout the house later as needed. Copper pipes usually have more life expectancy and may last as long as 60 years before needing to be replaced.

HOSE BIBS

During the winter months it is necessary to make sure the outside faucets are winterized. This can be done by means of a valve located in the basement. Leave the outside faucets open to allow any water standing in the pipes to drain, preventing them from freezing. Hose bibs cannot be tested when winterized.

WATER HEATER

The life expectancy of a water heater is 5-10 years. Water heaters generally need not be replaced unless they leak. It is a good maintenance practice to drain 5-10 gallons from the heater several times a year. Missing relief valves or improper extension present a safety hazard.

WATER SOFTENERS

During a visual inspection it is not possible to determine if water is being properly softened.

PLUMBING

The temperature/pressure valve should be tested several times a year by lifting the valve's handle. Caution: very hot water will be discharged. If no water comes out, the valve is defective and must be replaced.

SHUT-OFF VALVES

Most shut-off valves have not been operated for long periods of time. We recommend operating each shut-off valve to: toilet bowl, water heater, under sinks, main shut-off, hose faucets, and all others. We recommend you have a plumber do this, as some of the valves may need to be repacked or replaced. Once the valves are in proper operating order, we recommend opening and closing these valves several times a year.

POLYBUTYLENE PIPING

This type of piping has a history of problems and should be examined by a licensed plumber and repaired or replaced as necessary.

MECHANICAL DEVICES MAY OPERATE AT ONE MOMENT AND LATER MALFUNCTION; THEREFORE, LIABILITY IS SPECIFICALLY LIMITED TO THOSE SITUATIONS WHERE IT CAN BE CONCLUSIVELY SHOWN THAT THE MECHANICAL DEVICE INSPECTED WAS INOPERABLE OR IN THE IMMEDIATE NEED OF REPAIR OR NOT PERFORMING THE FUNCTION FOR WHICH IS IT WAS INTENDED AT THE TIME OF INSPECTION.

CSST

Corrugated Stainless Steel Tubing is an alternative to traditional black iron gas piping. It is a continuous, flexible, stainless steel pipe with an exterior PVC covering.



HEATING SYSTEM

REMARKS

HEATING AND AIR CONDITIONING units have limited lives. Normal lives are:

GAS-FIRED HOT AIR.....	15-25 years
OIL-FIRED HOT AIR.....	20-30 years
CAST IRON BOILER.....	30-50 years
(Hot water or steam)	or more
STEEL BOILER.....	30-40 years
(Hot water or steam)	or more
COPPER BOILER.....	10-20 years
(Hot water or steam)	
CIRCULATING PUMP (Hot water).....	10-15 years
AIR CONDITIONING COMPRESSOR...	8-12 years
HEAT PUMP.....	8-12 years

Gas-fired hot air units that are close to or beyond their normal lives have the potential of becoming a source of carbon monoxide in the home. You may want to have such a unit checked every year or so to assure yourself that it is still intact. Of course a unit of such an age is a good candidate for replacement with one of the new, high efficiency furnaces. The fuel savings alone can be very attractive.

Boilers and their systems may require annual attention. If you are not familiar with your system, have a heating contractor come out in the fall to show you how to do the necessary thing **Caution: do not add water to a hot boiler!**

Forced air systems should have filters changed every 30 to 60 days of the heating and cooling season. This is especially true if you have central air conditioning. A dirty air system can lead to premature failure of your compressor - a \$1,500 machine.

Oil-fired furnaces and boilers should be serviced by a professional each year. Most experts agree you will pay for the service cost in fuel saved by having a properly tuned burner.

Read the instructions for maintaining the humidifier on your furnace. A malfunctioning humidifier can rust out a furnace rather quickly. It is recommended that the humidifier be serviced at the same time as the furnace, and be cleaned regularly. **During a visual inspection it is not possible to determine if the humidifier is working.**

Have HVAC technician examine - A condition was found that suggests a heating contractor should do a further analysis. We suggest doing this before closing.

Heat exchangers cannot be examined nor their condition determined without being disassembled. Since this is not possible during a visual, non-technically exhaustive inspection, you may want to obtain a service contract on the unit or contact a furnace technician regarding a more thorough examination.

Testing pilot safety switch requires blowing out the pilot light. Checking safety limit controls requires disconnecting blower motor or using other means beyond the scope of this inspection. If the furnace has not been serviced in last 12 months you may want to have a furnace technician examine.

CO Test This is not part of a non-technical inspection. If a test was performed, the type of tester is indicated on the Heating System page.

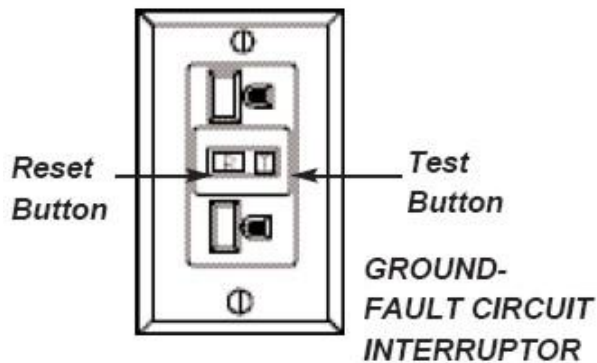
Combustible Gas Detector If a gas detector was used during the inspection of the furnace and evidence of possible combustible gases was noted, we caution you that our test instrument is sensitive to many gases and not a foolproof test. None-the-less, this presents the possibility that a hazard exists and could indicate that the heat exchanger is, or will soon be, defective.



REMARKS

Every effort has been made to evaluate the size of the service. Three wires going into the home indicate 240 volts. The total amperage can be difficult to determine. We highly recommend that ground fault circuit interrupters (G.F.C.I.) be connected to all outlets around water. This device automatically shuts the circuit off when it senses a current leak to ground. This device can be purchased in most hardware stores. G.F.C.I.'s are recommended by all outlets located near water, outside outlets, or garage outlets. Pool outlets should also be protected with a G.F.C.I.

See diagram below:



If you do have G.F.C.I.'s, it is recommended that you test (and reset) them monthly. When you push the test button, the reset button should pop out, shutting off the circuit. If it doesn't, the breaker is not working properly. If you don't test them once a month, the breakers have a tendency to stick and may not protect you when needed.

Knob and tube wiring found in older homes should be checked by an electrician to insure that the wire cover is in good condition. Under no circumstances should this wire be covered with insulation. Recess light fixtures should have a baffle around them so that they are not covered with insulation. The newer recessed fixtures will shut off if they overheat. (no representation is made as to proper recess lighting fixtures).

Federal Pacific Stab-Lok® Electrical panels may be unsafe. See www.google.com (Federal Pacific)

Aluminum wiring in general lighting circuits has a history of over heating, with the potential of a fire. If this type of wiring exists, a licensed electrical contractor should examine the whole system.

ARC FAULTS

In some areas arc faults are required in new homes, starting in 2002 and these control outlets in the bedrooms.

REVERSE POLARITY

A common problem that surfaces in many homes is reverse polarity. This is a potentially hazardous situation in which the hot and neutral wires of a circuit are reversed at the outlet, thereby allowing the appliance to incorrectly be connected. This is an inexpensive item to correct.

Each receptacle has a brass and silver screw. The black wire should be wired to the brass screw and the white wire should go to the silver screw. When these wires are switched, this is called "reverse polarity." Turning off the power and switching these wires will correct the problem.

Main service wiring for housing is typically 240 volts. The minimum capacity for newer homes is 100 amps though many older homes still have 60 amp service. Larger homes or all electric homes will likely have a 200 amp service.

Main service wiring may be protected by one or more circuit breakers or fuses. While most areas allow up to six main turnoffs, expanding from these panels is generally not allowed.

COOLING

Testing A/C System and Heat Pump- The circuit breakers to A/C should be on for a minimum of 24 hours and the outside temperature at least 60 degrees for the past 24 hours or an A/C system cannot be operated without possible damage to the compressor. Check the instructions in your A/C manual or on the outside compressor before starting up in the summer. Heat pump can only be tested in the mode it's running in. Outside temperature should be at least 65° for the past 24 hours to run in cooling mode.

Temperature differential, between 14°-22°, is usually acceptable. If out of this range, have an HVAC contractor examine it. It is not always feasible to do a differential test due to high humidity, low outside temperature, etc.



COSTS OF REMODELING OR REPAIR

The prices quoted below include a range of prices based on a typical metropolitan area. Individual prices from contractors can vary substantially from these ranges. We advise that several bids be obtained on any work exceeding \$500 dollars. **DO NOT RELY ON THESE PRICES... GET FURTHER ESTIMATES.**

ITEM	UNIT	ESTIMATED PRICE
Masonry fireplace	Each	\$4,000 - \$8,000
Install prefab fireplace	Each	2,000 - 4,000
Insulate attic	Square foot	.75 - 1.25
Install attic ventilating fan	Each	200 - 300
Install new drywall over plaster	Square foot	1.75 - 2.75
Install new warm air furnace	Each	1,800 - 3,500
Replace central air conditioning/heat pump	Per ton	1,000 - 1,500
Install humidifier	Each	300 - 500
Install electrostatic air cleaner	Each	800 - 1,500
Increase electrical service to 200 amps	Each	1,000 - 1,500
Run separate elec. line for dryer	Each	125 - 200
Run separate elec. line for A/C	Each	135 - 200
Install hardwired smoke detector	Each	100 - 180
Install new disposal	Each	150 - 250
Install new dishwasher	Each	500 - 1,000
Install new hot water boiler	Each	2,000 - 4,000
Install new 30-50 gallon water heater	Each	350 - 650
Install new 75 gallon water heater	Each	750 - 1,000
Dig and install new well	Each	get estimate
Install new septic system	Each	get estimate
Re-grade around exterior	Each	get estimate
Install new sump pump	Each	150 - 300
Build new redwood or pressure-treated deck	Square foot	15 - 30
Install storm windows	Each	60 - 150
Install wood replacement windows	Each	400 - 800
Install aluminum or vinyl replacement window	Each	150 - 400
Install new gutters and downspouts	Lineal foot	4.00 - 8.00
Install asphalt shingle o/existing	Square foot	1.20 - 1.70
Tear off existing roof and install new asphalt shingle roof	Square foot	2.50 - 4.00
Install 1-ply membrane rubberized roof	Square foot	get estimate
Install new 4-ply built-up tar & gravel	Square foot	get estimate
Remove asbestos from pipes in basement	Lineal foot	get estimate
Concrete drive or patio	Square foot	4.50 - 9.00
Plus removal of old	Square foot	1.50 - 3.00
Clean chimney flue	Each	100 - 200
Add flue liner for gas fuel	Each	900 - 1,200
Add flue liner for oil or wood	Each	2,800 - 3,500

Deferred Costs - It is impossible to determine how long these items will last before needing replacement. The report addresses most of these items from a "condition" standpoint.



PREVENTIVE MAINTENANCE TIPS

- I. **FOUNDATION & MASONRY:** *Basements, Exterior Walls:* To prevent seepage and condensation problems.
 - a. Check basement for dampness & leakage after wet weather.
 - b. Check chimneys, deteriorated chimney caps, loose and missing mortar.
 - c. Maintain grading sloped away from foundation walls.

- II. **ROOFS & GUTTERS:** To prevent roof leaks, condensation, seepage and decay problems.
 - a. Check for damaged, loose or missing shingles, blisters.
 - b. Clean gutters, leaders, strainers, window wells, drains. Be sure downspouts direct water away from foundation. Cut back tree limbs.
 - c. Check flashings around roof stacks, vents, skylights, chimneys, as sources of leakage. Check vents, louvers and chimneys for birds nests, squirrels, insects.
 - d. Check fascias and soffits for paint flaking, leakage & decay.

- III. **EXTERIOR WALLS:** To prevent paint failure, decay and moisture penetration problems.
 - a. Check painted surface for paint flaking or paint failure. Cut back shrubs.
 - b. Check exterior masonry walls for cracks, looseness, missing or broken mortar.

- IV. **DOORS AND WINDOWS:** To prevent air and weather penetration problems.
 - a. Check caulking for decay around doors, windows, corner boards, joints. Recaulk and weatherstrip as needed. Check glazing, putty around windows.

- V. **ELECTRICAL:** For safe electrical performance, mark & label each circuit.
 - a. Trip circuit breakers every six months and ground fault circuit interrupters (G.F.C.I.) monthly.
 - b. Check condition of lamp cords, extension cords & plugs. Replace at first sign of wear & damage.
 - c. Check exposed wiring & cable for wear or damage.
 - d. If you experience slight tingling shock from handling or touching any appliance, disconnect the appliance & have it repaired. If lights flicker or dim, or if appliances go on and off unnecessarily, call a licensed electrician.

- VI. **PLUMBING:** For preventive maintenance.
 - a. Drain exterior water lines, hose bibs, sprinklers, pool equipment in the fall.
 - b. Draw off sediment in water heaters monthly or per manufacturer's instructions.
 - c. Have septic tank cleaned every 2 years.

- VII. **HEATING & COOLING:** For comfort, efficiency, energy conservation and safety.
 - a. Change or clean furnace filters, air condition filters, electronic filters as needed.
 - b. Clean and service humidifier. Check periodically and annually.
 - c. Have oil burning equipment serviced annually.

- VIII. **INTERIOR:** General house maintenance.
 - a. Check bathroom tile joints, tub grouting & caulking. Be sure all tile joints in bathrooms are kept well sealed with tile grout to prevent damage to walls, floors & ceilings below.
 - b. Close crawl vents in winter and open in summer.
 - c. Check underside of roof for water stains, leaks, dampness & condensation, particularly in attics and around chimneys.

- IX. **Know the location of:**
 - Main water shutoff valve.
 - Main electrical disconnect or breaker.
 - Main emergency shutoff switch for the heating system.
